# Bay Area Air Quality Management District

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

---

# Final

# MAJOR FACILITY REVIEW PERMIT

**Issued To:**

## ConocoPhillips Company – San Francisco Refinery
## Facility #A0016

**Facility Address:**
1380 San Pablo Avenue
Rodeo, CA 94572

**Mailing Address:**
1380 San Pablo Avenue
Rodeo, CA 94572

| **Responsible Official** | **Facility Contact** |
|---|---|
| Rand Swenson, Refinery Manager | Jennifer Ahlskog, Environmental Specialist |
| 510 245 4415 | 510 245 4439 |

---

**Type of Facility:** Petroleum refinery
**Primary SIC:** 2911
**Product:** Refined petroleum products

BAAQMD Engineering Division Contact:
Sanjeev Kamboj

**ISSUED BY THE BAY AREA AIR QUALITY MANAGEMENT DISTRICT**

Signed by Jack P. Broadbent _____ October 31, 2008
Jack P. Broadbent, Executive Officer/Air Pollution Control Officer Date

# TABLE OF CONTENTS

# 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 7/17/06);
SIP Regulation 1 - General Provisions and Definitions
(as approved by EPA on 6/28/99);
BAAQMD Regulation 2, Rule 1 - Permits, General Requirements
(as amended by the District Board on 7/19/06);
SIP Regulation 2, Rule 1 - Permits, General Requirements
(as approved by EPA on 1/26/99);
BAAQMD Regulation 2, Rule 2 - Permits, New Source Review
(as amended by the District Board on 6/15/05);
SIP Regulation 2, Rule 2 - Permits, New Source Review and Prevention of Significant Deterioration
(as approved by EPA on 1/26/99);
BAAQMD Regulation 2, Rule 4 - Permits, Emissions Banking
(as amended by the District Board on 12/21/04);
SIP Regulation 2, Rule 4 - Permits, Emissions Banking
(as approved by EPA on 1/26/99); and
BAAQMD Regulation 2, Rule 6 - Permits, Major Facility Review
(as amended by the District Board on 4/16/03).

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

1. This Major Facility Review Permit was issued on December 1, 2003, and expires on November 30, 2008. The permit holder shall submit a complete application for renewal of this Major Facility Review Permit no later than May 31, 2008 and no earlier than November 30, 2007. **If a complete application for renewal has not been submitted in accordance with this deadline, the facility may not operate after** November 30, 2008**.** If the permit renewal has not been issued by November 30, 2008, but a complete application for renewal has been submitted in accordance with the above deadlines, the existing permit will continue in force until the District takes final action on the renewal application. (Regulation 2-6-307, 404.2, 407, & 409.6; MOP Volume II, Part 3, §4.2)

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

3. In the event any enforcement action is brought as a result of a violation of any term or condition of this permit, the fact that it would have been necessary for the permittee to halt or reduce the permitted activity in order to maintain compliance

# I. Standard Conditions

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 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. (MOP Volume II, Part 3, §4.11)
12. The permit holder is responsible for compliance, and certification of compliance, with all conditions of the permit, regardless whether it acts through employees, agents, contractors, or subcontractors. (Regulation 2-6-307)

### C. Requirement to Pay Fees

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

# I. Standard Conditions

### 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. Reports shall be for the following periods: July 1st through December 31st and January 1st through June 30th. All reports are due on the last day of the month after the end of the reporting period. All instances of non-compliance shall be clearly identified in these reports. The reports shall be certified by the responsible official as true, accurate, and complete. In addition, all instances of non-compliance with the permit shall be reported in writing to the District's Compliance and Enforcement Division within 10 calendar days of the discovery of the incident. Within 30 calendar days of the discovery of any incident of non-compliance, the facility shall submit a written report including the probable cause of non-compliance and any corrective or preventative actions. The reports shall be sent to the following address:

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

(Regulation 2-6-502, 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. Subsequent certification periods will be January 1st to December 31st. All compliance certifications are due on the last day of the month after the end of the certification period. The certification must list each applicable requirement, the compliance status, whether compliance was continuous or intermittent, the method used to determine compliance, and any other specific information required by the permit. The permit holder may satisfy this requirement through submittal of District-generated Compliance Certification forms. The certification should be directed to the District's Compliance and Enforcement Division at the address above, and a copy of the certification shall be sent to the Environmental Protection Agency at the following address:

# I. Standard Conditions

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

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

**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. [Reserved]

2. For grandfathered sources, the throughput limits as shown in Condition 20989 are based upon District records at the time of the MFR permit issuance. The facility must report any exceedance of these limits following the procedures in Section I.F. This reporting requirement is intended to facilitate a determination of whether a modification has occurred as defined in Regulation 2-1-234.3. The throughput limits for grandfathered sources are for reporting purposes only. Exceedance of this 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.

3. [Reserved]

4. Where an applicable requirement allows multiple compliance options and where more

# I. Standard Conditions

than one such option is incorporated into the permit, the permit holder must maintain records indicating the selected compliance option. Such records at a minimum shall indicate when any change in options has occurred. In addition, the annual compliance certification must specifically indicate which option or options were selected during the certification period. This is in addition to any recordkeeping and reporting contained in the requirement itself.

5. Deleted Application 12433.

6. Deleted Application 12433.

7. Deleted Application 12433.

8. Deleted Application 12433.

**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 for each source, pursuant to Standard Condition I.J and Regulation 2-1-301.

| S# | Description | Make or Type | Model | Capacity |
|---|---|---|---|---|
| 2 | U229, B-301 Heater (natural gas, refinery fuel gas) | Petro-Chem | process heater | 22 MMbtu/hr |
| 3 | U230, B-201 Heater (natural gas, refinery fuel gas, naphtha) | Petro-Chem | process heater | 62 MMbtu/hr |
| 4 | U231, B-101 Heater (natural gas, refinery fuel gas) | Braun | process heater | 96 MMbtu/hr |
| 5 | U231, B-102 Heater (natural gas, refinery fuel gas) | Braun | process heater | 104 MMbtu/hr |
| 7 | U231, B-103 Heater (natural gas, refinery fuel gas, naphtha) | Petro-Chem | process heater | 64 MMbtu/hr |
| 8 | U240, B-1 Boiler (natural gas, refinery fuel gas) | Combustion Engineering | process heater | 256 MMbtu/hr |
| 9 | U240, B-2 Boiler (natural gas, refinery fuel gas) | Born | process heater | 61 MMbtu/hr |
| 10 | U240, B-101 Heater (natural gas, refinery fuel gas) | Foster-Wheeler | process heater | 223 MMbtu/hr |
| 11 | U240, B-201 Heater (natural gas, refinery fuel gas) | Econo-Therm | process heater | 108 MMbtu/hr |
| 12 | U240, B-202 Heater (natural gas, refinery fuel gas) | Econo-Therm | process heater | 42 MMbtu/hr |
| 13 | U240, B-301 Heater (natural gas, refinery fuel gas) | Born | process heater | 194 MMbtu/hr |
| 14 | U240, B-401 Heater (natural gas, refinery fuel gas) | Selas | process heater | 556 MMbtu/hr |
| 15 | U244, B-501 Heater (natural gas, refinery fuel gas) | Alcorn | process heater | 239.75 MMbtu/hr total for S15 through S19 |
| 16 | U244, B-502 Heater (natural gas, refinery fuel gas) | Alcorn | process heater | 239.75 MMbtu/hr total for S15 through S19 |
| 17 | U244, B-503 Heater (natural gas, refinery fuel gas) | Alcorn | process heater | 239.75 MMbtu/hr total for S15 through S19 |
| 18 | U244, B-504 Heater (natural gas, refinery fuel gas) | Alcorn | process heater | 239.75 MMbtu/hr total for S15 through S19 |
| 19 | U244, B-505 Heater (natural gas, refinery fuel gas) | Alcorn | process heater | 239.75 MMbtu/hr total for S15 through S19 |
| 20 | U244, B-506 Heater (natural gas, refinery fuel gas) | Econo-Therm | process heater | 23 MMbtu/hr |
| 21 | U244, B-507 Heater (natural gas, refinery fuel gas) | Econo-Therm | process heater | 8.1 MMbtu/hr |
| 22 | U248, B-606 Heater (natural gas, refinery fuel gas) | Econo-Therm | process heater | 31 MMbtu/hr |

# II. Equipment

## Table II A - Permitted Sources

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

| S# | Description | Make or Type | Model | Capacity |
|---|---|---|---|---|
| 29 | U200, B-5 Heater (natural gas, refinery fuel gas) | Foster-Wheeler | process heater | 103 MMbtu/hr |
| 30 | U200, B-101 Heater (natural gas, refinery fuel gas) | Petro-Chem | process heater | 50 MMbtu/hr |
| 31 | U200, B-501 Heater (natural gas, refinery fuel gas) | Petro-Chem | process heater | 20 MMbtu/hr |
| 36 | U200, B-102 Heater (natural gas, refinery fuel gas) | NA | process heater | 82.1 MMbtu/hr |
| 43 | U200, B-202 Heater (natural gas, refinery fuel gas) | | process heater | 230 MMbtu/hr |
| 44 | U200, B-201 PCT Reboil Furnace (natural gas, refinery fuel gas) | | process heater | 46 MMbtu/hr |
| 50 | Diesel Engine (turbine S352 startup) | Allis-Chalmers | 6138, 435 hp | <100 hr/yr operation |
| 51 | Diesel Engine (turbine S353 startup) | Allis-Chalmers | 6138, 435 hp | <100 hr/yr operation |
| 52 | Diesel Engine (turbine S354 startup) | Allis-Chalmers | 6138, 435 hp | <100 hr/yr operation |
| 53 | SPP Emergency Generator G-27 (diesel fuel) | Cummins | 6B-5.9, 97 hp | <100 hr/yr operation (excluding emergency use) |
| 54 | Pump Station 3 CP-198 Emergency Engine (diesel fuel) | Waukesha Scania | F647DSUF, 258 hp | <100 hr/yr operation (excluding emergency use) |
| 55 | Pump Station 3 CP-199 Emergency Engine (diesel fuel) | Waukesha Scania | F647DSUF, 258 hp | <100 hr/yr operation (excluding emergency use) |
| 56 | Pump Station 4 G-201A Emergency Engine (diesel fuel) | Caterpillar | 3406, 370 hp | <100 hr/yr operation (excluding emergency use) |
| 57 | Pump Station 4 G-201B Emergency Engine (diesel fuel) | Caterpillar | 3406, 370 hp | <100 hr/yr operation (excluding emergency use) |
| 58 | Pump Station 4 G-422A Emergency Engine (diesel fuel) | Caterpillar | 3406, 370 hp | <100 hr/yr operation (excluding emergency use) |
| 59 | Pump Station 4 G-422B Emergency Engine (diesel fuel) | Caterpillar | 3406, 370 hp | <100 hr/yr operation (excluding emergency use) |
| 97 | Tank 100 | external floating roof | crude oil | 298 thousand bbl |
| 100 | Tank 103 | external floating roof | ship ballast | 47 thousand bbl |
| 101 | Storm Water Equalization Tank T-104 | external floating roof | stormwater | 5.5 million gal |

# II. Equipment

## Table II A - Permitted Sources

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

| S# | Description | Make or Type | Model | Capacity |
|---|---|---|---|---|
| 102 | Storm Water Equalization Tank T-105 | external floating roof | stormwater | 5.5 million gal |
| 106 | Storm Water Equalization Tank T-130 | external floating roof | stormwater | 10.6 million gal |
| 107 | Tank 150 | external floating roof | crude oil | 68 thousand bbl |
| 110 | Tank 155 | external floating roof | crude oil, gas oil, distillate oil | 4.2 million gal |
| 111 | Tank 156 | external floating roof | crude oil | 100 thousand bbl |
| 112 | Tank 157 | external floating roof | crude oil | 100 thousand bbl |
| 113 | Tank 158 | external floating roof | crude oil | 101 thousand bbl |
| 114 | Tank 159 | external floating roof | crude oil | 136 thousand bbl |
| 115 | Tank 160 | external floating roof | naphtha | 75 thousand bbl |
| 117 | Tank 162 | external floating roof | naphtha | 5,300 gal |
| 118 | Tank 163 | fixed roof | lube oil | 5,300 gal |
| 121 | Tank 166 | external floating roof | gasoline | 18,500 gal |
| 122 | Tank 167 | external floating roof | naphtha | 3.1 million gal |
| 123 | Tank 168 | external floating roof | naphtha | 75 thousand bbl |
| 124 | Tank 169 | external floating roof | naphtha | 75 thousand bbl |
| 125 | Tank 170 | external floating roof | naphtha | 75 thousand bbl |
| 126 | Tank 172 | internal floating roof tank with dome roof | naphtha, MTBE | 75 thousand bbl |
| 128 | Tank 174 | external floating roof | crude oil, naphtha | 76 thousand bbl |
| 129 | Tank 180 | external floating roof | naphtha | 76 thousand bbl |
| 133 | API Waste Oil Tank T-193 | external floating roof | waste oil | 22 thousand bbl |
| 134 | API Waste Oil Tank T-194 | external floating roof | waste oil | 22 thousand bbl |
| 135 | Tank 200 | Fixed roof | Petroleum liquids to 11 psia | 79 thousand bbl |
| 137 | Tank 202 | Fixed roof | Petroleum liquids to 11 psia | 88 thousand bbl |
| 139 | Tank 204 (also oil-water separator) | Fixed roof | Sour water, distillate oil | 81 thousand bbl |
| 140 | Tank 205 (also oil-water separator) | Fixed roof | Sour water, naphtha | 54 thousand bbl |
| 150 | Tank 241 | external floating roof | gasoline | 79 thousand bbl |
| 151 | Tank 242 | external floating roof | gasoline | 75 thousand bbl |
| 177 | Tank 287 | external floating roof | gasoline | 104 thousand bbl |
| 178 | Tank 288 | external floating roof | diesel | 104 thousand bbl |
| 182 | Tank 294 | fixed roof | naphtha | 40 thousand bbl |
| 183 | Tank 295 | external floating roof | naphtha | 13 thousand bbl |
| 184 | Tank 296 | external floating roof | naphtha | 70 thousand bbl |

# II. Equipment

## Table II A - Permitted Sources

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

| S# | Description | Make or Type | Model | Capacity |
|---|---|---|---|---|
| 186 | Tank 298 | external floating roof | naphtha | 47 thousand bbl |
| 193 | Tank 305 | fixed roof | dye | 2,000 gal |
| 194 | Tank 306 | fixed roof | dye | 2,000 gal |
| 195 | Water Treatment Sludge Tank T-501 | fixed-roof | sludge | 2,500 bbl |
| 196 | Water Treatment Sludge Tank T-502 | fixed-roof | sludge | 2,500 bbl |
| 216 | Tank 695 | external floating roof | naphtha | 2.0 million gal |
| 238 | Used Caustic Tank T-211 | fixed-roof | caustic waste | 10,000 bbl |
| 239 | Stripped Foul Water Tank T-212 | fixed-roof | sour water | 10,000 bbl |
| 254 | Tank 1001 | external floating roof | gasoline | 104 thousand bbl |
| 255 | Tank 1002 | external floating roof | gasoline | 104 thousand bbl |
| 256 | Tank 1003 | external floating roof | gasoline | 104 thousand bbl |
| 257 | Tank 1004 | internal floating roof tank with dome roof | gasoline | 104 thousand bbl |
| 258 | Tank 1005 | internal floating roof tank with dome roof | gasoline | 104 thousand bbl |
| 259 | Tank 1006 | external floating roof | gasoline | 104 thousand bbl |
| 261 | Tank 1010 | external floating roof | naphtha, distillate oil | 104 thousand bbl |
| 294 | Non-Retail Gasoline Dispensing Facility (GDF 7609 – 1 nozzle) | phase I / II vapor recovery | EW A4000 | 15,000 gal underground tank |
| 296 | C-1 Flare (main refinery flare, elevated, steam-assisted, serves S304, S305, S306) | Callidus | | 845 ton/hr gas handling capacity, 6.6 MMbtu/hr pilot |
| 300 | U200 Delayed Coker | delayed coker | NA | 81,000 bbl/day |
| 301 | Molten Sulfur Pit 234 | NA | NA | 271 long ton/day for S301, S302, S303 |
| 302 | Molten Sulfur Pit 236 | NA | NA | 271 long ton/day for S301, S302, S303 |
| 303 | Molten Sulfur Pit 238 | NA | NA | 271 long ton/day for S301, S302, S303 |
| 304 | Light Naphtha Hydrotreater | NA | NA | 12,198 bbl/day |
| 305 | U230 Prefractionator/Naphtha Hydrotreater | NA | NA | 28,000 bbl/day |
| 306 | U231 Platforming Unit | NA | NA | 21,000 bbl/day |
| 307 | U240 Unicracking Unit | NA | NA | 42,000 bbl/day |
| 308 | U244 Reforming Unit | NA | NA | 16,087 bbl/day |
| 309 | U248 UNISAR Unit | NA | NA | 16,740 bbl/day |
| 318 | U76 Gasoline/Mid Barrel Blending Unit | NA | NA | 113,150 bbl/day petroleum fluids except diesel,<br>No daily limit for diesel |

# II. Equipment

## Table II A - Permitted Sources

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

| S# | Description | Make or Type | Model | Capacity |
|---|---|---|---|---|
| 319 | U215 Gasoline Fractionating Unit | NA | NA | 9,600 bbl/day |
| 322 | U40 Raw Materials Receiving | NA | NA | throughput limited at specific tanks, process units |
| 324 | U100 API Oil Wastewater Separator (with outlet channel cover) | NA | NA | 7,500 gpm during media filter backwash and 7,000 gpm during all other times |
| 334 | Tank 107 | external floating roof | crude oil | 180 thousand bbl |
| 336 | U231 B-104 Heater (natural gas, refinery fuel gas) | Foster-Wheeler | process heater | 111 MMbtu/hr |
| 337 | U231 B-105 Heater (natural gas, refinery fuel gas) | Foster-Wheeler | process heater | 34 MMbtu/hr |
| 338 | U233 Fuel Gas Center | | | 7.5 E 6 cubic feet/hr |
| 339 | U80 Refined Oil Shipping Unit | gasoline shipping | | 294 thousand gal/hr |
| 340 | Tank 108 | external floating roof | crude oil | 200 thousand bbl |
| 341 | Tank 208 | external floating roof | gasoline | 103 thousand bbl |
| 342 | Tank 209 | external floating roof | gasoline | 103 thousand bbl |
| 343 | Tank 210 | external floating roof | gasoline | 103 thousand bbl |
| 350 | U267 Crude Distillation Unit | atmospheric/vacuum towers | | 36,000 bbl/day |
| 351 | U267 B-601/602 Tower Pre-heaters (natural gas, refinery fuel gas) | | | 95 MMbtu/hr |
| 352 | Combustion Turbine (natural gas, refinery fuel gas) | Westinghouse | 191 | 291 MMbtu/hr continuously |
| 353 | Combustion Turbine (natural gas, refinery fuel gas) | Westinghouse | 191 | 291 MMbtu/hr continuously |
| 354 | Combustion Turbine (natural gas, refinery fuel gas) | Westinghouse | 191 | 291 MMbtu/hr continuously |
| 355 | Supplemental Firing Duct Burners (natural gas, refinery fuel gas) | Coen | | 175 MMbtu/hr |
| 356 | Supplemental Firing Duct Burners (natural gas, refinery fuel gas) | Coen | | 175 MMbtu/hr |
| 357 | Supplemental Firing Duct Burners (natural gas, refinery fuel gas) | Coen | | 175 MMbtu/hr |
| 360 | Mid-Barrel Tank 223 | fixed roof | distillate oil | 110 thousand bbl |
| 370 | U228 Isomerization Unit | | | 460 bbl/hr |
| 371 | U228 B-520 (Adsorber Feed) Furnace (natural gas, refinery fuel gas) | Selas | | 58 MMbtu/hr for S371, 372 |

# II. Equipment

## Table II A - Permitted Sources

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

| S# | Description | Make or Type | Model | Capacity |
|---|---|---|---|---|
| 372 | U228 B-521 (Hydrogen Plant) Furnace (natural gas, refinery fuel gas) | Selas | | 58 MMbtu/hr for S371, 372 |
| 376 | Tool Room Cold Cleaner | Build-All | DM-32 | 29 gal |
| 377 | Machine Shop Cold Cleaner | Build-All | DM-32 | 29 gal |
| 378 | Auto Shop Cold Cleaner | Snap-On | DM-226 | 18 gal |
| 380 | Activated Carbon Silo (P-204) | | | 50,000 lb |
| 381 | Aeration Tank, Pact (F-201) | wastewater | 100 ft dia | 1.2 million gal |
| 382 | Aeration Tank, Pact (F-202) | wastewater | 100 ft dia | 1.2 million gal |
| 383 | Clarifier, F-203 | wastewater | 95 ft dia | 0.69 million gal |
| 384 | Clarifier (F-204) | wastewater | 95 ft dia | 0.69 million gal |
| 385 | Media Filter (F271-F278) | wastewater | | 420 thousand gal/hr |
| 386 | PAC Regeneration Sludge Thickener (F-211) | | 25 ft dia | 44,000 gal |
| 387 | Wet Air Regeneration (P-202) | Zimpro | | 15 gpm |
| 388 | Water Treatment Sludge Tanks (T276, F205) | 30 ft dia by 24 ft<br>12 ft dia by 24 ft | | 3,500 bbl |
| 389 | Diatomaceous earth silo (F-214) | | | 40,000 lb |
| 390 | F-106 Thickened Sludge Storage | 15 ft diameter open tank | | 38,000 gal |
| 392 | Regenerated PAC Slurry Storage Tank F-266 | fixed roof | | 42,000 gal |
| 398 | MP-30 Flare (backup refinery flare, elevated, steam-assisted, serves S304, S305, S306) | John Zink | Q5-48C | 845 ton/hr gas handling capacity, 3.1 MMbtu/hr pilot |
| 400 | Wet Weather Wastewater Sump (with vented cover) | 32 ft x 36 ft x 23 ft deep | | 175 thousand gal |
| 401 | Dry Weather Wastewater Sump (with vented cover) | 33 ft x 25 ft x 26 ft deep | | 150 thousand gal |
| 425 | Marine Loading Berth M1 | 2 permitted arms | | Products: 25,000 bbl/day annual average for S425, S426 total;<br>Crude oil: 30,000 bbl/day annual average for S425, S426 total |
| 426 | Marine Loading Berth M2 | 4 permitted arms | | Products: 25,000 bbl/day annual average for S425, S426 total;<br>Crude oil: 30,000 bbl/day annual average for S425, S426 total |
| 432 | U215 Deisobutanizer | | | 7,600 bbl/day |
| 433 | MOSC Storage Tank | fixed roof | | 30,000 gal |
| 435 | Reformate Splitter | | | 18,100 bbl/day |
| 436 | Deisopentanizer | | | 13,400 bbl/day |

# II. Equipment

## Table II A - Permitted Sources

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

| S# | Description | Make or Type | Model | Capacity |
|---|---|---|---|---|
| 437 | Hydrogen Manufacturing Unit | | | 28.5 million scf/day |
| 438 | U110, H-1 (H2 Plant Reforming) Furnace (natural gas, refinery fuel gas, PSA offgas) | John Zinc PFFG burners | reforming furnace | 250 MMbtu/hr |
| 439 | Tank 109 | external floating roof | gasoline, others | 161 thousand bbl |
| 440 | Tank 110 (Alkylate) | external floating roof | alkylate | 161 thousand bbl |
| 442 | Tank 112 | external floating roof | gasoline, others | 161 thousand bbl |
| 444 | Tank 243 | external floating roof | gasoline, others | 113 thousand bbl |
| 445 | Tank 271 (Cracked Naphtha) | underground tank | naphtha | 189 thousand bbl |
| 446 | Tank 310 (Isopentane) | fixed roof | isopentane | 41 thousand bbl |
| 447 | Tank 311 (Isopentane) | fixed roof | isopentane | 41 thousand bbl |
| 448 | Tank 1007 (Blendstock Receiving) | internal floating roof | gasoline, others | 243 thousand bbl |
| 449 | Tank 285 (Cracked Naphtha) | fixed roof | naphtha | 189 thousand bbl |
| 450 | Groundwater Extraction Trenches | | ground-water remediation | 3 gpm continuously |
| 451 | Tank 695 | external floating roof | naphtha, gasoline, others | 81 thousand bbl |
| 453 | U236 Cooling Tower | Induced draft | Unknown | 13,500 gpm |
| 455 | U240 Cooling Tower | Induced draft | Unknown | 30,000 gpm |
| 460 | U250 Diesel Hydrotreater | NA | NA | 35,000 bbl/day |
| 461 | U250, B-701 Heater (natural gas, refinery fuel gas) | NA | process heater | 50.2 MMbtu/hr |
| 462 | U215 Fuel Gas Caustic Treatment System | NA | NA | 4.2 million scf/day of fuel gas |
| 463 | U215 Butane Caustic Treatment System | NA | NA | 1,000 bbl/day of butane |
| 1001 | Sulfur Plant Unit 234 (including aux. burner) | | Claus | 271 long ton/day for S1001, S1002 and S1003 |
| 1002 | Sulfur Plant Unit 236 (including aux. burner, water stripper) | | Claus | 271 long ton/day for S1001, S1002 and S1003 |
| 1003 | Sulfur Plant Unit 238 (including aux. burner) | | Claus | 271 long ton/day for S1001, S1002 and S1003 |
| 1007 | U100 Dissolved Air Flotation Unit (with fixed roof) | | | 7,500 gpm during media filter backwash and 7,000 gpm during all other times |
| 1008 | U100 Primary Stormwater Basin | | | 2.3 MMgal |

# II. Equipment

## Table II A - Permitted Sources

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

| S# | Description | Make or Type | Model | Capacity |
|---|---|---|---|---|
| 1009 | U100 Main Stormwater Basin | | | 7.2 MMgal |

## Table II B – Abatement Devices

| A# | Description | Source(s) Controlled | Applicable Requirement | Operating Parameters | Limit or Efficiency |
|---|---|---|---|---|---|
| 1 | Sulfur Plant Tail-Gas Treatment Plant (Beavon-Stretford) | S1001 tailgas. S301 | BAAQMD 9-1-313.2 and SIP 9-1-313.2 | none | 95% of H2S in refinery fuel gas is removed and recovered on a refinery-wide basis |
| 1 | Sulfur Plant Tail-Gas Treatment Plant (Beavon-Stretford) | S1001 tailgas. S301 | BAAQMD 6-330 | none | 0.08 grain/dscf exhaust concentration of SO3 and H2SO4, expressed as 100% H2SO4 |
| 1 | Sulfur Plant Tail-Gas Treatment Plant (Beavon-Stretford) | S1001 tailgas. S301 | 40 CFR 60.104(a)(2)(i) | none | SO2 < 250 ppm at 0% O2 |
| 1 | Sulfur Plant Tail-Gas Treatment Plant (Beavon-Stretford) | S1001 tailgas. S302 | 40 CFR 63.1568(a)(1)(i) | none | SO2 < 250 ppm at 0% O2 |
| 2 | Sulfur Plant Tail-Gas Treatment Plant (Beavon-Stretford) | S1002 tailgas. S302 | BAAQMD 9-1-313.2 and SIP 9-1-313.2 | none | 95% of H2S in refinery fuel gas is removed and recovered on a refinery-wide basis |

# II. Equipment

## Table II B – Abatement Devices

| A# | Description | Source(s) Controlled | Applicable Requirement | Operating Parameters | Limit or Efficiency |
|---|---|---|---|---|---|
| 2 | Sulfur Plant Tail-Gas Treatment Plant (Beavon-Stretford) | S1002 tailgas. S302 | BAAQMD 6-330 | none | 0.08 grain/dscf exhaust concentration of SO3 and H2SO4, expressed as 100% H2SO4 |
| 2 | Sulfur Plant Tail-Gas Treatment Plant (Beavon-Stretford) | S1002 tailgas. S302 | 40 CFR 60.104(a)(2)(i) | none | SO2 < 250 ppm at 0% O2 |
| 2 | Sulfur Plant Tail-Gas Treatment Plant (Beavon-Stretford) | S1002 tailgas. S302 | 40 CFR 63.1568(a)(1)(i) | none | SO2 < 250 ppm at 0% O2 |
| 3 | Sulfur Plant Tail-Gas Treatment Plant (Beavon-Stretford) | S1003 tailgas. S303 | BAAQMD 9-1-313.2 and SIP 9-1-313.2 | none | 95% of H2S in refinery fuel gas is removed and recovered on a refinery-wide basis |
| 3 | Sulfur Plant Tail-Gas Treatment Plant (Beavon-Stretford) | S1003 tailgas. S303 | BAAQMD 6-330 | none | 0.08 grain/dscf exhaust concentration of SO3 and H2SO4, expressed as 100% H2SO4 |
| 3 | Sulfur Plant Tail-Gas Treatment Plant (Beavon-Stretford) | S1003 tailgas. S303 | 40 CFRS 60.104(a)(2)(i) | none | SO2< 250 ppm at 0% O2 |
| 3 | Sulfur Plant Tail-Gas Treatment Plant (Beavon-Stretford) | S1003 tailgas. S303 | 40 CFR 63.1568(a)(1)(i) | none | SO2< 250 ppm at 0% O2 |
| 4 | SCR System | S43 | BAAQMD Condition 1694 | NOx, O2 CEMs | 40 ppmv NOx at 3% O2 (over 8-hr period) except at startup and shutdown |

# II. Equipment

## Table II B – Abatement Devices

| A# | Description | Source(s) Controlled | Applicable Requirement | Operating Parameters | Limit or Efficiency |
|---|---|---|---|---|---|
| 4 | SCR System | S43 | BAAQMD Condition 1694 | none | 50 ppmv CO at 3% O2 (monthly average) except at startup and shutdown |
| 6 | SCR System | S351 | BAAQMD Condition 1694 | NOx, O2 CEMs | 20 ppmv NOx at 3% O2 (over 3-hr period) except at startup and shutdown |
| 7 | Vapor Recovery System (3 electrically driven compressors) | Tanks S135, S137. S139, S140, S182, S388, S433, S445, S446, S447 | BAAQMD 7-301, 7-302, 7-303 | none | nuisance odors |
| 7 | Vapor Recovery System (3 electrically driven compressors) | S135, S137, S139, S140, S182 | BAAQMD 8-5-306 | None | 95% overall control of emissions |
| 7 | Vapor Recovery System (3 electrically driven compressors) | S449 | BAAQMD Condition 11219 | None | vent emissions to the refinery fuel gas system |
| 7 | Vapor Recovery System (3 electrically driven compressors) | S433 | BAAQMD Condition 7353 | None | vent emissions to the refinery fuel gas system |
| 7 | Vapor Recovery System (3 electrically driven compressors) | S445 | BAAQMD Condition 12130 | None | vent emissions to the refinery fuel gas system |

# II. Equipment

## Table II B – Abatement Devices

| A# | Description | Source(s) Controlled | Applicable Requirement | Operating Parameters | Limit or Efficiency |
|---|---|---|---|---|---|
| 7 | Vapor Recovery System (3 electrically driven compressors) | S446 | BAAQMD Condition 12131 | None | vent emissions to the refinery fuel gas system |
| 7 | Vapor Recovery System (3 electrically driven compressors) | S447 | BAAQMD Condition 12132 | None | vent emissions to the refinery fuel gas system |
| 7 | Vapor Recovery System (3 electrically driven compressors) | S182 | BAAQMD Condition 13184 | None | vent emissions to the refinery fuel gas system |
| 8 | Stretford Evaporative Cooler | S301 | BAAQMD 9-1-313.2 and SIP 9-1-313.2 | none | 95% of H2S in refinery fuel gas is removed and recovered on a refinery-wide basis |
| 8 | Stretford Evaporative Cooler | | BAAQMD 6-330 | none | 0.08 grain/dscf exhaust concentration of SO3 and H2SO4, expressed as 100% H2SO4 |
| 9 | Stretford Evaporative Cooler | S302 | BAAQMD 9-1-313.2 and SIP 9-1-313.2 | none | 95% of H2S in refinery fuel gas is removed and recovered on a refinery-wide basis |
| 9 | Stretford Evaporative Cooler | | BAAQMD 6-330 | none | 0.08 grain/dscf exhaust concentration of SO3 and H2SO4, expressed as 100% H2SO4 |

# II. Equipment

## Table II B – Abatement Devices

| A# | Description | Source(s) Controlled | Applicable Requirement | Operating Parameters | Limit or Efficiency |
|---|---|---|---|---|---|
| 10 | Stretford Evaporative Cooler | S303 | BAAQMD 9-1-313.2 and SIP 9-1-313.2 | none | 95% of H2S in refinery fuel gas is removed and recovered on a refinery-wide basis |
| 10 | Stretford Evaporative Cooler | | BAAQMD 6-330 | none | 0.08 grain/dscf exhaust concentration of SO3 and H2SO4, expressed as 100% H2SO4 |
| 13 | SCR System | S352, S355 | BAAQMD Condition 12122, Part 9a | NOx CEM | 66 lb/hr NOx (3 hr average), 167 ton/yr NOx at S352-S357; 528 lb/day NOx per turbine/duct burner set |
| 13 | SCR System | S352, S355 | BAAQMD Condition 12122, Part 7 and 10a | CO, O2 CEMs | 39 ppmv @ 15% O2 (30-day average) per turbine/duct burner set; 200 ton/yr CO at S352-S357 |
| 13 | SCR System | S352 | BAAQMD 9-9-301 | NOx, CO, and O2 (or CO2) CEM | 9 ppmv NOx at 15% O2 |

# II. Equipment

## Table II B – Abatement Devices

| A# | Description | Source(s) Controlled | Applicable Requirement | Operating Parameters | Limit or Efficiency |
|---|---|---|---|---|---|
| 14 | SCR System | S353, S356 | BAAQMD Condition 12122, Part 9a | NOx CEM | 66 lb/hr NOx (3 hr average), 167 ton/yr NOx at S352-S357; 528 lb/day NOx per turbine/duct burner set |
| 14 | SCR System | S353, S356 | BAAQMD Condition 12122, Part 7 and 10a | CO, O2 CEMs | 39 ppmv @ 15% O2 (30-day average) per turbine/duct burner set; 200 ton/yr CO at S352-S357 |
| 14 | SCR System | S353 | BAAQMD 9-9-301 | NOx, CO, and O2 or CO2 CEM | 9 ppmv NOx at 15% O2 |
| 15 | SCR System | S354, S357 | BAAQMD Condition 12122, Part 9a | NOx CEM | 66 lb/hr NOx (3 hr average), 167 ton/yr NOx at S352-S357; 528 lb/day NOx per turbine/duct burner set |
| 15 | SCR System | S354, S357 | BAAQMD Condition 12122, Part 7 and 10a | CO, O2 CEMs | 39 ppmv @ 15% O2 (30-day average) per turbine/duct burner set; 200 ton/yr CO at S352-S357 |
| 15 | SCR System | S354 | BAAQMD 9-9-301 | NOx, CO, and O2 (or CO2) CEM | 9 ppmv NOx at 15% O2 |

# II. Equipment

## Table II B – Abatement Devices

| A# | Description | Source(s) Controlled | Applicable Requirement | Operating Parameters | Limit or Efficiency |
|---|---|---|---|---|---|
| 16 | SCR System | S371 | BAAQMD Condition 1694, Part C2 | none | 20 ppmv NOx at 3% O2 (3-hr average) |
| 16 | SCR System | S371 | BAAQMD Condition 1694, Part C3 | none | 50 ppmv CO at 3% O2 (3-hr average) |
| 17 | SCR System | S372 | BAAQMD Condition 1694, Part C2 | none | 20 ppmv NOx at 3% O2 (3-hr average) |
| 17 | SCR System | S372 | BAAQMD Condition 1694, Part C3 | none | 50 ppmv CO at 3% O2 (3-hr average) |
| 20 | Activated Carbon Silo Baghouse | S380 | BAAQMD Regulations 6-301 6-305 6-310 6-311 BAAQMD Condition 18251 | differential pressure | normal range |
| 21 | Diatomaceous Earth Silo Baghouse | S389 | BAAQMD Regulations 6-301 6-305 6-310 6-311 BAAQMD Condition 18251 | differential pressure | normal range |

# II. Equipment

## Table II B – Abatement Devices

| A# | Description | Source(s) Controlled | Applicable Requirement | Operating Parameters | Limit or Efficiency |
|---|---|---|---|---|---|
| 36 | SCR System | S36 | BAAQMD Condition 21097 | NOx, O2 CEM | 10 ppmv NOx at 3% O2 (3-hr average) |
| 46 | SCR System | S438 | BAAQMD Condition 1694, Part E | NOx, O2 CEMs | 7 ppmv NOx at 3% O2 (1-hr average) |
| 46 | SCR System | S438 | BAAQMD Condition 1694, Part E | none | 32 ppmv CO at 3% O2 (daily average) |
| 50 | Hydrogen Plant Vent Scrubber | S307 | BAAQMD 8-2-301 | None | 15 lb/day POC from emission streams with more than 300 ppm total carbon |
| 113 | SCR System | S13 | BAAQMD 9-10-301 | NOx, O2 CEM | 0.033 lb NOx/MMbtu refinery-wide limit |
| 420 | Marine Terminal Thermal Oxidizer (30 MMbtu/hr) | S425 S426 | BAAQMD 8-44-304, SIP 8-44-301 | Temperature: > 1300 F. for first 15 minutes; < 1400 F. for rest of loading event | 2 pounds POC per 1,000 bbl loaded OR at least 95% by weight reduction of POC emissions |
| 420 | Marine Terminal Thermal Oxidizer | S425 S426 | 40 CFR 60.104(a)(1)<br><br>NSPS 40 CFR 60 Subpart A | H2S concentration<br><br>None | fuel gas H2S concentration limited to 230 mg/dscm (0.10 gr/dscf)<br><br>None |

# II. Equipment

## Table II B – Abatement Devices

| A# | Description | Source(s) Controlled | Applicable Requirement | Operating Parameters | Limit or Efficiency |
|---|---|---|---|---|---|
| 420 | Marine Terminal Thermal Oxidizer | S425 S426 | BAAQMD Condition 4336, part 9 | Temperature: > 1300 F. for first 15 minutes; < 1400 F. for rest of loading event | At least 98.5% by weight reduction of POC emissions for loading of gasoline, gasoline blending stocks, aviation gas, aviation fuel (JP-4 type), and crude oil |
| 421 | Tail-Gas Incinerator (19.5 MMbtu/hr, RFG) | A1 | 6-301 | none | Ringelmann 1 for < 3 min/hr |
| 421 | Tail-Gas Incinerator (19.5 MMbtu/hr, RFG) | A1 | 6-310 | none | 0.15 gr/dscf |
| 421 | Tail-Gas Incinerator (19.5 MMbtu/hr, RFG) | A1 | 6-311 | none | $4.10P^{0.67}$ lb/hr, where P is process weight, ton/hr |
| 421 | Tail-Gas Incinerator (19.5 MMbtu/hr, RFG) | A1 | 6-330 | none | 0.08 grain/dscf exhaust concentration of SO3 and H2SO4, expressed as 100% H2SO4 |
| 421 | Tail-Gas Incinerator (19.5 MMbtu/hr, RFG) | A1 | 40 CFR 60.104(a)(2)(i) | none | SO2 < 250 ppm at 0% O2 |
| 421 | Tail-Gas Incinerator (19.5 MMbtu/hr, RFG) | A1 | 40 CFR 63.1568(a)(1)(i) | none | SO2 < 250 ppm at 0% O2 |
| 422 | Tail-Gas Incinerator (19.5 MMbtu/hr, RFG) | A2 | 6-301 | none | Ringelmann 1 for < 3 min/hr |
| 422 | Tail-Gas Incinerator (19.5 MMbtu/hr, RFG) | A2 | 6-310 | none | 0.15 gr/dscf |

# II. Equipment

## Table II B – Abatement Devices

| A# | Description | Source(s) Controlled | Applicable Requirement | Operating Parameters | Limit or Efficiency |
|---|---|---|---|---|---|
| 422 | Tail-Gas Incinerator (19.5 MMbtu/hr, RFG) | A2 | 6-311 | none | $4.10P^{0.67}$ lb/hr, where P is process weight, ton/hr |
| 422 | Tail-Gas Incinerator (19.5 MMbtu/hr, RFG) | A2 | 6-330 | none | 0.08 grain/dscf exhaust concentration of SO3 and H2SO4, expressed as 100% H2SO4 |
| 422 | Tail-Gas Incinerator (19.5 MMbtu/hr, RFG) | A2 | 40 CFR 60.104(a)(2)(i) | none | SO2 < 250 ppm at 0% O2 |
| 422 | Tail-Gas Incinerator (19.5 MMbtu/hr, RFG) | A2 | 40 CFR 63.1568(a)(1)(i) | none | SO2 < 250 ppm at 0% O2 |
| 423 | Tail-Gas Incinerator (19.5 MMbtu/hr, RFG) | A3 | 6-301 | none | Ringelmann 1 for < 3 min/hr |
| 423 | Tail-Gas Incinerator (19.5 MMbtu/hr, RFG) | A3 | 6-310 | none | 0.15 gr/dscf |
| 423 | Tail-Gas Incinerator (19.5 MMbtu/hr, RFG) | A3 | 6-311 | none | $4.10P^{0.67}$ lb/hr, where P is process weight, ton/hr |
| 423 | Tail-Gas Incinerator (19.5 MMbtu/hr, RFG) | A3 | 6-330 | none | 0.08 grain/dscf exhaust concentration of SO3 and H2SO4, expressed as 100% H2SO4 |
| 423 | Tail-Gas Incinerator (19.5 MMbtu/hr, RFG) | A3 | 40 CFR 60.104(a)(2)(i) | none | SO2 < 250 ppm at 0% O2 |
| 423 | Tail-Gas Incinerator (19.5 MMbtu/hr, RFG) | A3 | 40 CFR 63.1568(a)(1)(i) | none | SO2 < 250 ppm at 0% O2 |

# II. Equipment

## Table II B – Abatement Devices

| A# | Description | Source(s) Controlled | Applicable Requirement | Operating Parameters | Limit or Efficiency |
|---|---|---|---|---|---|
| 461 | SCR System | S461 | BAAQMD Condition 21096 | NOx, O2 CEM | 10 ppmv NOx at 3% O2 (3-hr average) |
| S296 | C-1 Flare (main refinery flare, elevated, steam-assisted, serves S304, S305, S306) | S306, S308 | 40 CFR 63.1566(a)(1)(ii) | Flame detection by thermocouple | Meet requirements of 40 CFR 63.11(b). Visible emissions must not exceed a total of 5 minutes during any 2-hour operating period. (Applies to S306, may apply to S308 |
| S398 | MP-30 Flare (backup refinery flare, elevated, steam-assisted, serves S304, S305, S306) | S306, S308 | 40 CFR 63.1566(a)(1)(ii) | Flame detection by thermocouple | Meet requirements of 40 CFR 63.11(b). Visible emissions must not exceed a total of 5 minutes during any 2-hour operating period. (Applies to S306, may apply to S308 |

# II. Equipment

## Table II C – Significant Sources

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

| S# | Description | Make or Type | Model | Capacity |
|---|---|---|---|---|
| 452 | U230 Cooling Tower | Induced draft | Unknown | 13,800 gpm |

## Table II D – Sources Exempt from Permit Requirements

| S# | Description | Basis for Exemption |
|---|---|---|
| 69 | Propane Loading Rack | BAAQMD 2-1-123.3.1 |
| 70 | Butane Loading Rack | BAAQMD 2-1-123.3.1 |
| 71 | Wax & Lube Oil Loading Rack (Tank Cars) | BAAQMD 2-1-123.3.4, BAAQMD 2-1-123.3.6 |
| 72 | Wax Loading Rack (Trucks) | BAAQMD 2-1-123.3.6 |
| 73 | Lube Oil Loading Rack (Trucks) | BAAQMD 2-1-123.3.4 |
| 90 | Tank 67 | BAAQMD 2-1-123.3.2 |
| 91 | Tank 73 | BAAQMD 2-1-123.3.6 |
| 94 | Tank 78 | BAAQMD 2-1-123.3.10 |
| 98 | Tank 101 | BAAQMD 2-1-123.3.2, BAAQMD 2-1-123..3.3 |
| 99 | Tank 102 | BAAQMD 2-1-123.3.2 |
| 103 | Tank 106 | BAAQMD 2-1-123.3.2 |
| 105 | Tank 129 | BAAQMD 2-1-123.3.2 |
| 108 | Tank 153 | BAAQMD 2-1-123.3.2 |
| 109 | Tank 154 | BAAQMD 2-1-123.3.2 |
| 120 | Tank 165 | BAAQMD 2-1-123.3.4 |
| 127 | Tank 173 | BAAQMD 2-1-123.3.2, BAAQMD 2-1-123.3.3 |
| 130 | Tank 188 | BAAQMD 2-1-123.3.6 |
| 131 | Tank 189 | BAAQMD 2-1-123.3.6 |
| 132 | Tank 191 | BAAQMD 2-1-123.3.4 |
| 136 | Tank 201 | BAAQMD 2-1-123.3.2 |
| 138 | Tank 203 | BAAQMD 2-1-123.3.3 |
| 141 | Tank 213 | BAAQMD 2-1-123.3.6 |
| 142 | Tank 214 | BAAQMD 2-1-123.3.6 |
| 143 | Tank 215 | BAAQMD 2-1-123.3.6 |
| 144 | Tank 216 | BAAQMD 2-1-123.3.6 |
| 145 | Tank 217 | BAAQMD 2-1-123.3.4 |
| 148 | Tank 231 | BAAQMD 2-1-123.3.2, BAAQMD 2-1-123.3.9 |

# II. Equipment

## Table II D – Sources Exempt from Permit Requirements

| S# | Description | Basis for Exemption |
|---|---|---|
| 149 | Tank 232 | BAAQMD 2-1-123.2, BAAQMD 2-1-123.3.9 |
| 157 | Tank 252 | BAAQMD 2-1-123.3.6 |
| 158 | Tank 258 | BAAQMD 2-1-123.3.2 |
| 162 | Tank 262 | BAAQMD 2-1-123.3.6 |
| 164 | Tank 264 | BAAQMD 2-1-123.3.2, BAAQMD 2-1-123.3.3 |
| 165 | Tank 265 | BAAQMD 2-1-123.3.2, BAAQMD 2-1-123.3.3 |
| 166 | Tank 266 | BAAQMD 2-1-123.3.2, BAAQMD 2-1-123.3.3 |
| 167 | Tank 268 | BAAQMD 2-1-123.3.6 |
| 168 | Tank 269 | BAAQMD 2-1-123.3.2 |
| 169 | Tank 270 | BAAQMD 2-1-123.3.2 |
| 171 | Tank 273 | BAAQMD 2-1-123.3.6 |
| 172 | Tank 279 | BAAQMD 2-1-123.3.6 |
| 173 | Tank 280 | BAAQMD 2-1-123.3.2 |
| 174 | Tank 281 | BAAQMD 2-1-123.3.3 |
| 175 | Tank 284 | BAAQMD 2-1-123.3.2 |
| 179 | Tank 291 | BAAQMD 2-1-123.3.2 |
| 180 | Tank 292 | BAAQMD 2-1-123.3.2 |
| 187 | Tank 299 | BAAQMD 2-1-123.3.4 |
| 188 | Tank 300 | BAAQMD 2-1-123.3.1 |
| 189 | Tank 301 | BAAQMD 2-1-123.3.1 |
| 190 | Tank 302 | BAAQMD 2-1-123.3.1 |
| 191 | Tank 303 | BAAQMD 2-1-123.3.3 |
| 192 | Tank 304 | BAAQMD 2-1-123.3.3 |
| 202 | Tank 521 | BAAQMD 2-1-123.3.6 |
| 204 | Tank 528 | BAAQMD 2-1-123.3.2 |
| 205 | Tank 529 | BAAQMD 2-1-123.3.2 |
| 206 | Tank 530 | BAAQMD 2-1-123.3.4 |
| 207 | Tank 531 | BAAQMD 2-1-123.3.6 |
| 209 | Tank 674 | BAAQMD 2-1-123.3.2 |
| 224 | Tank 746 | BAAQMD 2-1-123.3.4 |
| 225 | Tank 747 | BAAQMD 2-1-123.3.4 |
| 226 | Tank 748 | BAAQMD 2-1-123.3.6 |
| 227 | Tank 749 | BAAQMD 2-1-123.3.6 |
| 228 | Tank 750 | BAAQMD 2-1-123.3.6 |
| 229 | Tank 751 | BAAQMD 2-1-123.3.6 |
| 230 | Tank 752 | BAAQMD 2-1-123.3.6 |

# II. Equipment

## Table II D – Sources Exempt from Permit Requirements

| S# | Description | Basis for Exemption |
|---|---|---|
| 231 | Tank 753 | BAAQMD 2-1-123.3.4 |
| 236 | Tank 770 | BAAQMD 2-1-123.3.4 |
| 237 | Tank 771 | BAAQMD 2-1-123.3.4 |
| 240 | Tank 774 | BAAQMD 2-1-123.3.4 |
| 241 | Tank 775 | BAAQMD 2-1-123.3.4 |
| 253 | Tank 833 | BAAQMD 2-1-123.3.1 |
| 260 | Tank 1009 | BAAQMD 2-1-123.3.2, BAAQMD 2-1-123.3.3 |
| 262 | Tank 1011 | BAAQMD 2-1-123.3.3 |
| 263 | Tank 1012 | BAAQMD 2-1-123.3.3 |
| 266 | Tank 1345 | BAAQMD 2-1-123.3.4 |
| 267 | Tank 1346 | BAAQMD 2-1-123.3.4 |
| 286 | Tank F3 | BAAQMD 2-1-123.3.3 |
| 287 | Tank F10 | BAAQMD 2-1-123.3.4 |
| 293 | Tank F805 | BAAQMD 2-1-123.3.3 |
| 427 | Marine Loading Berth B2 | BAAQMD 2-1-123.3.2, BAAQMD 2-1-123.3.3 |
| 428 | Marine Loading Berth B3 | BAAQMD 2-1-123.3.2, BAAQMD 2-1-123.3.3 |
| 429 | Marine Loading Berth B4 | BAAQMD 2-1-123.3.2, BAAQMD 2-1-123.3.3 |
| 452 | U230 Cooling Tower | BAAQMD 2-1-128.4 |
| 456 | U110 Cooling Tower | BAAQMD 2-1-128.4 |
| 457 | U228 Cooling Tower | BAAQMD 2-1-128.4 |
| 458 | U200 Cooling Tower | BAAQMD 2-1-128.4 |
| 500 | ULSD 220/250 Cooling Tower | BAAQMD 2-1-128.4 |

# III. GENERALLY APPLICABLE REQUIREMENTS

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

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

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

The full language of SIP requirements is on EPA Region 9's website. The address is: http://yosemite.epa.gov/r9/r9sips.nsf/Agency?ReadForm&count=500&state=California&cat=Bay+Area+Air+Quality+Management+District-Agency-Wide+Provisions.

**NOTE:**

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

**Table III**
**Generally Applicable Requirements**

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) |
|---|---|---|
| BAAQMD Regulation 1 | General Provisions and Definitions (7/17/06) | N |
| SIP Regulation 1 | General Provisions and Definitions (6/28/99) | Y - note 1 |
| BAAQMD Regulation 2, Rule 1 | General Requirements (7/19/06) | N |
| SIP Regulation 2, Rule 1 | General Requirements (1/26/99) | Y - note 1 |
| BAAQMD Regulation 2, Rule 2 | New Source Review (6/15/05) | N |
| SIP Regulation 2, Rule 2 | New Source Review (1/26/99) | Y - note 1 |
| BAAQMD Regulation 2, Rule 4 | Emissions Banking (12/21/04) | N |

# III. Generally Applicable Requirements

## Table III
## Generally Applicable Requirements

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) |
|---|---|---|
| SIP Regulation 2, Rule 4 | Emissions Banking (1/26/99) | Y - note 1 |
| BAAQMD Regulation 2, Rule 6 | Major Facility Review (4/16/03) | N |
| SIP Regulation 2, Rule 6 | Major Facility Review (6/23/95) | Y - note 1 |
| BAAQMD Regulation 2, Rule 9 | IERCs (4/7/99) | N |
| BAAQMD Regulation 3 | Fees (6/15/05) | N |
| SIP Regulation 3 | Fees (5/3/84) | Y - note 1 |
| BAAQMD Regulation 4 | Air Pollution Episode Plan (3/20/91) | N |
| SIP Regulation 4 | Air Pollution Episode Plan (8/06/90) | Y - note 1 |
| BAAQMD Regulation 5 | Open Burning (3/6/02) | N |
| SIP Regulation 5 | Open Burning (9/4/98) | Y - note 1 |
| BAAQMD Regulation 6 | Particulate Matter and Visible Emissions (12/19/90) | Y |
| BAAQMD Regulation 7 | Odorous Substances (3/17/82) | N |
| BAAQMD Regulation 8, Rule 1 | Organic Compounds - General Provisions (6/15/94) | Y |
| BAAQMD Regulation 8, Rule 2 | Organic Compounds – Miscellaneous Operations (06/15/94) | Y |
| BAAQMD Regulation 8, Rule 3 | Organic Compounds - Architectural Coatings (11/21/01) | Y |
| BAAQMD Regulation 8, Rule 4 | Organic compounds - General Solvent and Surface Coating Operations (10/16/02) | Y |
| BAAQMD Regulation 8, Rule 10 | Organic Compounds – Pressure Vessel Depressurization (1/21/04) | Y – note 2 |
| SIP Regulation 8, Rule 10 | Organic Compounds – Pressure Vessel Depressurization (7/20/83) | Y |
| BAAQMD Regulation 8, Rule 40 | Organic Compounds – Aeration of Contaminated Soil and Removal of Underground Storage Tanks (12/15/99) | Y |
| BAAQMD Regulation 8, Rule 47 | Organic Compounds - Air Stripping and Soil Vapor Extraction Operations (6/15/94) | Y |
| BAAQMD Regulation 8, Rule 49 | Organic Compounds - Aerosol Paint Products (12/20/95) | N |
| SIP Regulation 8, Rule 49 | Organic Compounds - Aerosol Paint Products (3/22/95) | Y – note 1 |
| BAAQMD Regulation 8, Rule 51 | Organic Compounds - Adhesive and Sealant Products (7/17/02) | N |
| BAAQMD Regulation 8, Rule 51 | Organic Compounds - Adhesive and Sealant Products (2/26/02) | Y - note 1 |
| BAAQMD Regulation 9, Rule 1 | Inorganic Gaseous Pollutants - Sulfur Dioxide (3/15/95) | N |
| SIP Regulation 9, Rule 1 | Inorganic Gaseous Pollutants - Sulfur Dioxide (6/8/99) | Y |

# III. Generally Applicable Requirements

## Table III
## Generally Applicable Requirements

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) |
|---|---|---|
| BAAQMD Regulation 11, Rule 2 | Hazardous Pollutants - Asbestos Demolition, Renovation and Manufacturing (10/7/98) | Y |
| BAAQMD Regulation 11, Rule 10 | Hazardous Pollutants – Hexavalent Chromium Emissions from Cooling Towers (11/15/99) | Y |
| BAAQMD Regulation 12, Rule 4 | Miscellaneous Standards of Performance - Sandblasting (7/11/90) | N |
| SIP Regulation 12, Rule 4 | Miscellaneous Standards of Performance - Sandblasting (9/2/81) | Y - note 1 |
| Notification Requirement – Process Unit Startup and Shutdown | Notification Requirement – Process Unit Startup and Shutdown (Permit Section VI) | N |
| California Health and Safety Code Section 41750 et seq. | Portable Equipment | N |
| California Health and Safety Code Section 44300 et seq. | Air Toxics "Hot Spots" Information and Assessment Act of 1987 | N |
| 40 CFR Part 61, Subpart M | National Emission Standards for Hazardous Air Pollutants – National Emission Standard for Asbestos (6/19/95) | Y |
| EPA Regulation 40 CFR 82 | Protection of Stratospheric Ozone (2/21/95) | Y |
| Subpart F, 40 CFR 82.156 | Leak Repair | Y |
| Subpart F, 40 CFR 82.161 | Certification of Technicians | Y |
| Subpart F, 40 CFR 82.166 | Records of Refrigerant | Y |
| Subpart H, 40 CFR 82.270(b) | Prohibitions, Halon | Y |

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

2 Generally, non-SIP regulations are not federally enforceable. However, sections 8-10-501 and 8-10-502 are required to assure compliance with federally-enforceable provisions of SIP Regulation 8, Rule 10, and therefore are federally-enforceable.

# 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 – All Sources**
**Facility-Specific Generally Applicable Requirements**

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| **BAAQMD Regulation 1** | **General Provisions and Definitions (7/17/06)** | | |
| 1-107 | Combination of Emissions | Y | |
| 1-301 | Public Nuisance Prohibition | N | |
| 1-510 | Area Monitoring | Y | |
| 1-521 | Monitoring May Be Required | Y | |
| 1-523 | Parametric Monitoring and Recordkeeping Procedures | N | |
| 1-530 | Area Monitoring Downtime | Y | |
| 1-540 | Area Monitoring Date Examination | Y | |
| 1-542 | Area Concentration Excesses | Y | |
| 1-543 | Record Maintenance for Two Years | Y | |
| **SIP Regulation 1** | **General Provisions and Definitions (6/28/99)** | | |
| 1-523 | Parametric Monitoring and Recordkeeping Procedures | Y-note 1 | |

# IV. Source Specific Applicable Requirements

## Table IV – All Sources
## Facility-Specific Generally Applicable Requirements

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| 1-544 | Monthly Summary | Y | |
| **BAAQMD Regulation 2, Rule 1** | **General Requirements (7/19/06)** | | |
| 2-1-429 | Federal Emissions Statement | Y | |
| **BAAQMD Regulation 6** | **Particulate Matter and Visible Emissions (12/19/90)** | | |
| 6-301 | Ringelmann No. 1 Limitation | Y | |
| 6-305 | Visible Particles | Y | |
| 6-310 | Particle Weight Limitation | Y | |
| 6-310.3 | Heat transfer operations | Y | |
| 6-311 | Process Weight Rate Limits | Y | |
| 6-401 | Appearance of Emissions | Y | |
| **District Regulation 8, Rule 2** | **Organic Compounds, Miscellaneous Operations** | | |
| 8-2-301 | Miscellaneous Operations: emissions shall not exceed 15 lb/day and 300 ppm total carbon on a dry basis | Y | |
| **BAAQMD Regulation 8, Rule 4** | **General Solvent and Surface Coating Operations (05/15/96)** | | |
| 8-4-302 | Solvent and Surface Coating Operations | N | |
| 8-4-312 | Solvent Evaporative Loss Minimization | N | |
| 8-4-501 | Recordkeeping Requirements | Y | |
| **SIP Regulation 8, Rule 4** | **General Solvent and Surface Coating Operations (12/23/97)** | | |
| 8-4-302 | Solvent and Surface Coating Operations | Y-note 1 | |
| **BAAQMD Regulation 8, Rule 5** | **Storage of Organic Liquids (11/27/02)** | | |
| 8-5-328 | Tank Degassing Requirements | Y | |
| 8-5-328.1.2 | Tank Degassing Requirements, Approved Emission Control System | Y | |
| 8-5-404 | Certification | Y | |
| 8-5-502 | Tank Cleaning Annual Source Test Requirements | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – All Sources
## Facility-Specific Generally Applicable Requirements

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| 8-5-603 | Determination of Emissions | Y | |
| 8-5-603.2 | Tank degassing equipment | Y | |
| **BAAQMD Regulation 8, Rule 15** | **Emulsified and Liquid Asphalts (09/16/87)** | | |
| 8-15-305 | Prohibition of Manufacturer and Sale | Y | |
| 8-15-501 | Manufacturing Records | Y | |
| **BAAQMD Regulation 8, Rule 40** | **Aeration of Contaminated Soil and Removal of Underground Storage Tanks (12/15/01)** | | |
| 8-40-116 | Exemption, Small Volume | Y | |
| 8-40-205 | Contaminated Soil | Y | |
| 8-40-306 | Contaminated Soil – Excavation and Removal | Y | |
| 8-40-601 | Contaminated Soil Sampling | Y | |
| 8-40-604 | Measurement of Organic Concentration | Y | |
| **BAAQMD Regulation 9, Rule 1** | **Inorganic Gaseous Pollutants – Sulfur Dioxide (3/15/95)** | | |
| 9-1-110 | Conditional Exemption, Area Monitoring | Y | |
| 9-1-110.1 | comply with monitoring, records and reporting requirements of 1-510, 1-530, 1-540, 1-542, 1-543, 1-544 | Y | |
| 9-1-110.2 | comply with 9-1-301 ground level SO2 concentration limits | Y | |
| 9-1-301 | Limitations on Ground level Concentrations | Y | |
| 9-1-313 | Sulfur Removal Operations at Petroleum Refineries (processing more than 20,000 bbl/day of crude oil) | Y | |
| 9-1-313.2 | Install a sulfur recovery plant | N | |
| 9-1-501 | Area Monitoring Requirements (Regulations 1-510, 1-530, 1-540, 1-542, 1-543, 1-544) | Y | |
| 9-1-502 | Emission Monitoring Requirements (Regulations 1-520, 1-522) | Y | |
| 9-1-604 | Ground Level Monitoring | Y | |
| **SIP Regulation 9, Rule 1** | **Inorganic Gaseous Pollutants – Sulfur Dioxide (6/8/99) [only provisions which are different than current BAAQMD regulation are listed]** | | |
| 9-1-313.2 | Operation of a sulfur removal and recovery system that removes and recovers: 95% of H2S from refinery fuel gas, 95% of H2S and ammonia from process water streams | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – All Sources
## Facility-Specific Generally Applicable Requirements

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| **BAAQMD Regulation 9, Rule 2** | **Inorganic Gaseous Pollutants - Hydrogen Sulfide (10/6/99)** | | |
| 9-2-301 | Limitations on Ground Level Concentrations | N | |
| 9-2-501 | Area Monitoring Requirements (Regulations 1-510, 1-530, 1-540, 1-542, 1-543, 1-544) | N | |
| 9-2-601 | Ground Level Monitoring | N | |
| **BAAQMD Regulation 11, Rule 2** | **Asbestos Demolition, Renovation and Manufacturing (10/07/98)** | | |
| 11-2-301 | Prohibited Operations | N | |
| 11-2-302 | Visible Emissions | N | |
| 11-2-303 | Demolition, Renovation, and Removal | N | |
| 11-2-304 | Waste Disposal | N | |
| 11-2-305 | Waste Disposal Sites | N | |
| 11-2-501 | Temperature Records | N | |
| 11-2-502 | Waste Shipment Records | N | |
| 11-2-503 | Active Waste Disposal Records | N | |
| 11-2-504 | Conversion Operations | N | |
| **40 CFR 60, Subpart A** | **New Source Performance Standards – General Provisions (12/23/71)** | | |
| 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 record keeping | Y | |
| 60.8 | Performance tests | Y | |
| 60.9 | Availability of information | Y | |
| 60.10 | State authority | Y | |
| 60.11 | Compliance with standards and maintenance requirements | Y | |
| 60.12 | Circumvention | Y | |
| 60.13 | Monitoring requirements | Y | |
| 60.14 | Modifications | Y | |
| 60.15 | Reconstruction | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – All Sources
## Facility-Specific Generally Applicable Requirements

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| 60.16 | Priority list | Y | |
| 60.17 | Incorporation by reference | Y | |
| 60.18 | General control device requirements | Y | |
| 60.19 | General notification and reporting requirements | Y | |
| **40 CFR 61, Subpart A** | **National Emission Standards for Hazardous Air Pollutants - General Provisions (3/16/95)** | | |
| 61.1 | List of pollutants and applicability | Y | |
| 61.2 | Definitions | Y | |
| 61.3 | Units and abbreviations | Y | |
| 61.4 | Address | Y | |
| 61.5 | Prohibited activities | Y | |
| 61.6 | Determination of construction or modification | Y | |
| 61.7 | Application for approval of construction or modification | Y | |
| 61.8 | Approval of construction or modification | Y | |
| 61.9 | Notification of startup | Y | |
| 61.10 | Source reporting and waiver request | Y | |
| 61.11 | Waiver of compliance | 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 | Modifications | Y | |
| 61.16 | Availability of information | Y | |
| 61.17 | State Authority | Y | |
| 61.18 | Incorporations by reference | Y | |
| 61.19 | Circumvention | Y | |
| **40 CFR 61, Subpart FF; BAAQMD Regulation 11, Rule 12** | **National Emission Standard for Benzene Waste Operations (3/7/90); BAAQMD National Emission Standard for Benzene Emissions from Benzene Transfer Operations and Benzene Waste Operations (4/19/89)** | | |
| 61.340(a) | Applicability | Y | |
| 61.340(b) | Applicability: hazardous waste | Y | |
| 61.340(c) | Applicability: Exempt Waste | Y | |
| 61.340(d) | Exemption for gaseous streams routed to fuel gas systems | Y | |
| 61.342 | Standards: General | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – All Sources
## Facility-Specific Generally Applicable Requirements

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| 61.342(a) | exemption for facilities with less than 10 Mg/yr of benzene in waste from 61.342(b) and 61.342(c) | Y | |
| 61.342(g) | Compliance determined by review of records, test results, and inspections | Y | |
| 61.355 | Test methods, procedures and compliance provisions | Y | |
| 61.355(a) | Determination of total annual benzene quantity from facility waste | Y | |
| 61.355(b) | Determination at point of waste generation | Y | |
| 61.355(c) | Determination of flow-weighted annual average benzene concentration | Y | |
| 61.356 | Recordkeeping requirements | Y | |
| 61.356(a) | recordkeeping and retention requirements | Y | |
| 61.356(b) | waste stream records | Y | |
| 61.356(b)(1) | Records for uncontrolled streams | Y | |
| 61.356(b)(5) | Records for turnaround waste | Y | |
| 61.357 | Reporting requirements | Y | |
| 61.357(a) | Reports after startup | Y | |
| 61.357(c) | reporting requirements for facilities with less than 10 Mg/yr total benzene in waste | Y | |
| **BAAQMD Regulation 11, Rule 12** | Incorporates by reference 40 CFR 61, Subpart FF | Y | |
| **40 CFR 63, Subpart A** | **National Emission Standards for Hazardous Air Pollutants for Source Categories** | Y | |
| 63.1 | Applicability | Y | |
| 63.2 | Definitions | Y | |
| 63.3 | Units and abbreviations | Y | |
| 63.4 | Prohibited activities | Y | |
| 63.5 | Construction and reconstruction | Y | |
| 63.5(d) | Application for approval of construction or reconstruction | Y | |
| 63.5(d)(1) | General Application Requirements | Y | |
| 63.5(d)(2) | Application for approval of construction | Y | |
| 63.5(d)(3) | Application for approval of reconstruction | Y | |
| 63.5(d)(4) | Additional information | Y | |
| 63.6 | Compliance with standards and maintenance | Y | |
| 63.7 | Performance testing requirements | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – All Sources
## Facility-Specific Generally Applicable Requirements

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| 63.8 | Monitoring requirements | Y | |
| 63.9 | Notification requirements | Y | |
| 63.10 | Recordkeeping and reporting requirements | Y | |
| 63.11 | Control device requirements | Y | |
| 63.12 | State authority and delegation | Y | |
| 63.13 | Addresses of State air pollution control agencies and EPA Regional Offices | Y | |
| 63.14 | Incorporation by references | Y | |
| 63.15 | Availability of Information & Confidentiality | Y | |
| **40 CFR 63, Subpart B** | **National Emission Standards for Hazardous Air Pollutants for Source Categories: General Provisions; and Requirements for Control Technology Determinations for Major Sources in Accordance with Clean Air Act Sections, Section 112(g) and 112(j); Final Rule** | | |
| 63.52 | Approved process for new and existing affected sources. | Y | |
| 63.52(a) | Sources subject to section 112(j) as of the section 112(j) deadline | Y | |
| 63.52(a)(1) | Submit an application for Title V permit revision | Y | |
| 63.52(e) | Permit application review | Y | |
| 63.52(e)(1) | Submit a Part 2 MACT application meeting the requirements of 63.53(b) for Combustion Turbines | Y | 12/29/03 |
| 63.52(e)(1) | Submit a Part 2 MACT application meeting the requirements of 63.53(b) for Site Remediation | Y | 12/29/03 |
| 63.52(e)(1) | Submit a Part 2 MACT application meeting the requirements of 63.53(b) for Boilers and Process Heaters | Y | 6/27/04 |
| 63.52(e)(1) | Submit a Part 2 MACT application meeting the requirements of 63.53(b) for Reciprocating Internal Combustion Engines | Y | 6/27/04 |
| 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 CC** | **National Emissions Standards for Hazardous Air Pollutants from Petroleum Refineries (8/18/95)** | | |

# IV. Source Specific Applicable Requirements

## Table IV – All Sources
## Facility-Specific Generally Applicable Requirements

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| 63.640(a) | applies to petroleum refining process units and to related emission points | Y | |
| 63.640(c)(3) | wastewater streams and treatment operations associated with petroleum refining process units meeting the criteria of section 63.640(a) | Y | |
| 63.640(d)(1) | Exclusion for stormwater from segregated stormwater sewers | Y | |
| 63.640(d)(5) | Exclusion for emission points routed to a fuel gas system | Y | |
| 63.640(f) | Applicability and Designation of Affected Sources | Y | |
| 63.640(g) | Applicability and Designation of Affected Sources-Exempt processes | Y | |
| 63.640(h) | Applicability and Designation of Affected Sources-Compliance dates | Y | |
| 63.640(i) | Applicability and Designation of Affected Sources-New petroleum refining processes | Y | |
| 63.640(j) | Applicability and Designation of Affected Sources-Changes to existing petroleum units | Y | |
| 63.640(k) | Applicability and Designation of Affected Sources-Changes to existing petroleum units | Y | |
| 63.640(l) | Applicability and Designation of Affected Sources-Additional requirements for new or changed sources | Y | |
| 63.640(l)(3) | owner/operator of a petroleum refining wastewater stream shall comply with the recordkeeping and reporting requirements including the reports of (l)(3)(i) through (l)(3)(vii) of this section | Y | |
| 63.640(p) | Overlap of Subpart CC with other regulations for equipment leaks | Y | |
| 63.642 | General Standards | | |
| 63.642(a) | apply for a Part 70 or Part 71 operating permit | 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) | keep copies of all applicable reports and records for at least 5 years, except as otherwise specified in this subpart. | Y | |
| 63.642(f) | all reports required by this subpart shall be sent to the Administrator | Y | |
| 63.642(g) | existing source owners/operators shall control emissions of organic HAPs to the level represented by the equation in this paragraph | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – All Sources
## Facility-Specific Generally Applicable Requirements

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| 63.642(h) | new source owner/operators shall control emissions of organic HAPs to the level represented by the equation in paragraph (g) of this section. | Y | |
| 63.642(i) | existing source owners/operators shall demonstrate compliance with (g) by following procedures in (k) for all emission points, or by following emission averaging compliance approach in (l) for specified emission points and the procedures in (k) for all other emission points within the source. | Y | |
| 63.642(j) | new source owner/operators shall demonstrate compliance with (h) by following procedures in (k). they may not use emission averaging compliance approach | Y | |
| 63.642(k) | existing source owners/operators may comply, and new sources owners/operators shall comply with the wastewater provisions in 63.647 and comply with 63.654 and is exempt from (g) | Y | |
| 63.642(l) | emission averaging compliance approach | Y | |
| 63.642(m) | States may restrict existing source owners/operators to only use the method in (k) to comply without allowance to use the emission averaging compliance approach | Y | |
| 63.647 | Wastewater provisions | Y | |
| 63.647(a) | 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 | |
| 63.647(c) | Owners/operators required under Subpart FF of 40 CFR Part 61 to perform periodic measurement of benzene concentration in wastewater, or to monitor process or control device operating parameters shall operate consistently with the permitted concentration or operating parameter values. | Y | |
| 63.648 | Equipment Leak Standards | Y | |
| 63.648(a) | Existing source owners/operators subject to this subpart shall comply with the provisions of 40 CFR Part 60 Subpart VV and paragraph (b) of this section except as provided in paragraphs (a)(1), (a)(2), and (c) through (i) of this section. New source owners/operators shall comply with Subpart H of this part except as provided in paragraphs (c) through (i) of this section. | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – All Sources
## Facility-Specific Generally Applicable Requirements

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| 63.648(b) | Monitoring data generated before 8/18/95 to qualify for less frequent monitoring of valves and pumps as provided in 40 CFR Part 60 Subpart VV or Subpart H of this part and paragraph (c) of this section is governed by paragraphs (b)(1) and (b)(2) of this section. | Y | |
| 63.648(c) | In lieu of complying with the existing source provisions of paragraph (a) an owner/operator may elect to comply with certain requirements of Subpart H of this part except as provided in paragraphs (c)(1) through (c)(10) and (e) through (i) of this section. | Y | |
| 63.648(d) | Upon startup of new sources, the owner/operator shall comply with section 63.163(a)(1)(ii) of Subpart H of this part for light liquid pumps and 63.168(a)(1)(ii) of Subpart H for gas/vapor and light liquid valves. | Y | |
| 63.648(e) | For reciprocating pumps in heavy liquid service and agitator in heavy liquid service and agitators in heavy liquid service, owners/operators are not required to comply with the requirements in section 63.169 of Subpart H of this part. | Y | |
| 63.648(f) | Reciprocating pumps in light liquid service are exempt from section 63.163 and 60.482 if recasting the distance piece or reciprocating pump replacement is required. | Y | |
| 63.648(h) | Owner/operators of sources subject to this subpart must maintain all records for a minimum of 5 years. | Y | |
| 63.654 | Reporting and recordkeeping requirements | 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 61, Subpart FF, unless they comply with those specified in paragraph (o)(2)(ii) of 63.640. Recordkeeping and reporting for wastewater streams included in emission averages are specified in 63.653 and in paragraphs (f)(5) and (g)(8) of this section. | Y | |
| 63.654(d) | Owner/operators subject to the equipment leaks standards in 63.648 shall comply with the recordkeeping and reporting provisions of paragraphs (d)(1) through (d)(6) of this section. | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – All Sources
## Facility-Specific Generally Applicable Requirements

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| **BAAQMD Condition 20989, Part B** | The owner/operator shall notify the District in writing by fax or email no less than three calendar days in advance of any scheduled startup or shutdown of any process unit and as soon as feasible for any unscheduled startup or shutdown of a process unit, but no later than 48 hours after the unscheduled startup/shutdown. [Basis: Regulation 2-1-403] | N | |

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

## Table IV – A.1
## Source-specific Applicable Requirements
## S2 – UNIT 229, B-301 HEATER

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| **BAAQMD Regulation 1** | **General Provisions and Definitions (7/17/06)** | | |
| 1-521 | Monitoring May Be Required | Y | |
| **BAAQMD Regulation 6** | **Particulate Matter and Visible Emissions (12/19/90)** | | |
| 6-301 | Ringelmann #1 Limitation | Y | |
| 6-305 | Visible Particles | Y | |
| 6-310.3 | Particulate Weight Limitation | Y | |
| **BAAQMD Regulation 9, Rule 10** | **Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon Monoxide from Boilers, Steam Generators, and Process Heaters in Petroleum Refineries (7/17/02)** | | |
| 9-10-301 | Emission Limit for Facility, NOx: 0.033 lb NOx/MMbtu | N | |
| 9-10-301.1 | ...Start-up/Shutdown Contribution | N | |
| 9-10-301.2 | ...Out-of-Service Units Contribution | N | |
| 9-10-301.3 | ...Test-firing on Non-gaseous fuel Contribution | N | |
| 9-10-303 | Federal Facility-wide NOx emission rate limit | Y | |
| 9-10-305 | CO emission limit | N | |
| 9-10-502 | Monitoring | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – A.1
## Source-specific Applicable Requirements
## S2 – UNIT 229, B-301 HEATER

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| 9-10-502.1 | CEMS for NOx, CO, and O2, or equivalent monitoring | N | |
| 9-10-502.2 | Fuel flowmeters | Y | |
| 9-10-504 | Recordkeeping | N | |
| 9-10-504.1 | Records | N | |
| 9-10-505 | Reporting | N | |
| 9-10-601 | Determination of NOx | N | |
| 9-10-602 | Determination of CO and Stack Gas O2 | N | |
| 9-10-603 | Compliance Determination | Y | |
| **40 CFR 60, Subpart A** | **General Provisions (2/12/98)** | | |
| 60.7(b) | Records | Y | |
| 60.7(c) | Notification and recordkeeping for continuous monitoring | Y | |
| 60.7(d) | Summary reports | Y | |
| 60.7(e) | Reduction of frequency of summary reports | Y | |
| 60.7(f) | Records | Y | |
| 60.7(g) | Alternative Notification | Y | |
| 60.7(h) | Specific Provisions | Y | |
| 60.8 | Performance Tests | Y | |
| 60.11 | Compliance with Standards and Maintenance Requirements | Y | |
| 60.11(a) | Compliance determined by performance tests | Y | |
| 60.11(d) | Control devices operated using good air pollution control practice | Y | |
| 60.13 | Monitoring requirements | Y | |
| 60.13(a) | Continuous monitoring systems subject to Appendix B, and Appendix F, (if used to demonstrate compliance with continuous emission limits), of Part 60 | Y | |
| 60.13(b) | Continuous monitoring systems and devices operational prior to performance tests required by 60.8 | Y | |
| 60.13(d)(1) | Continuous monitoring system zero and span calibration requirements | Y | |
| 60.13(e) | Continuous monitoring system minimum frequency of operation | Y | |
| 60.13(e)(2) | Continuous monitoring system minimum frequency of operation for non-opacity-measuring devices | Y | |
| 60.13(f) | Continuous monitoring system installation location requirement | Y | |
| **NSPS 40 CFR 60, Subpart J** | **Standards of Performance for Petroleum Refineries (7/1/00)** | | |

# IV. Source Specific Applicable Requirements

## Table IV – A.1
## Source-specific Applicable Requirements
## S2 – UNIT 229, B-301 HEATER

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| 60.100 | Applicability | Y | |
| 60.104 | Standards for Sulfur Oxides: Compliance Schedule | Y | |
| 60.104(a)(1) | fuel gas H2S concentration limited to 230 mg/dscm (0.10 gr/dscf) except for gas burned as a result of process upset or gas burned at flares from relief valve leaks or other emergency malfunctions | Y | |
| 60.105 | Monitoring of Emissions and Operations | Y | |
| 60.105(a)(4) | monitoring requirement for H2S (dry basis) in fuel gas prior to combustion (in lieu of separate combustion device exhaust SO2 monitors as required by 60.105(a)(3)) | Y | |
| 60.105(e)(3)(ii) | Excess H2S emission definitions for 60.7(c) | Y | |
| 60.106(a) | Test methods and procedures | Y | |
| 60.106(e)(1) | Method 11 shall be used to verify compliance with 60.104(a)(1) | Y | |
| **NSPS 40 CFR 60, Appendix A** | **Appendix A to Part 60 – Test Methods** | Y | |
| **NSPS 40 CFR 60 Appendix B** | **Performance Specifications** | | |
| Performance Specification 7 | H2S continuous emission monitoring systems | Y | |
| **BAAQMD Condition 1694** | | | |
| Part A.1b | Heat ratings, firing limits [Basis: Regulation 2-1-301] | Y | |
| Part A.2a | Fuel restrictions [Basis: Regulation 2, Rule 1] | Y | |
| Part A.3a | TRS testing requirement [Basis: SO2 Bubble] | Y | |
| Part A.3b | TRS reporting requirements [Basis: SO2 Bubble] | Y | |
| Part A.4 | SO2 emission limit [Basis: SO2 Bubble] | Y | |
| Part A.5 | Records [Basis: Regulation 2, Rule 1; SO2 Bubble; Regulation 2-6-409.2] | Y | |
| Part F.2 | Annual fuel firing limit at S2, S3, S4, S5, S7 [Basis: Cumulative Increase] | Y | |
| Part F.3 | Monthly fuel firing records [Basis: Recordkeeping] | Y | |
| **BAAQMD** | | | |

# IV. Source Specific Applicable Requirements

## Table IV – A.1
## Source-specific Applicable Requirements
## S2 – UNIT 229, B-301 HEATER

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| **Condition 21235** | | | |
| Part 1 | Sources subject to Regulation 9-10–301 and 9-10-305 [Basis: Regulation 9-10-301, 9-10-305] | N | |
| Part 2 | O2 CEM requirement [Basis: Regulation 9-10-502] | N | |
| Part 3 | "NOx Box" requirement for sources without NOx CEMs [Basis: Regulation 9-10-502] | N | |
| Part 4 | "NOx Box" development procedure [Basis: Regulation 9-10-502] | N | |
| Part 5 | "NOx Box" parameters [Basis: Regulation 9-10-502] | N | |
| Part 6a | Allowed "NOx Box" deviations [Basis: Regulation 9-10-502] | N | |
| Part 6b | "NOx Box" deviation reporting requirement [Basis: Regulation 9-10-502] | N | |
| Part 7 | NOx, CO, O2 source test requirement for sources without NOx CEMs [Basis: Regulation 9-10-502] | N | |
| Part 9 | CO, O2 CEM requirement [Basis: Regulation 9-10-502, 1-522] | N | |
| Part 10 | Recordkeeping requirement [Basis: Regulation 9-10-504] | N | |

## Table IV – A.2
## Source-specific Applicable Requirements
## S3 – UNIT 230, B-201 HEATER

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| **BAAQMD Regulation 1** | **General Provisions and Definitions (7/17/06)** | | |
| 1-521 | Monitoring May Be Required | Y | |
| **BAAQMD Regulation 6** | **Particulate Matter and Visible Emissions (12/19/90)** | | |
| 6-301 | Ringelmann #1 Limitation | Y | |
| 6-305 | Visible Particles | Y | |
| 6-310.3 | Particulate Weight Limitation | Y | |
| 6-401 | Appearance of Emissions | Y | |
| **BAAQMD Regulation 9,** | **Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon Monoxide from Boilers, Steam Generators, and Process Heaters** | | |

# IV. Source Specific Applicable Requirements

## Table IV – A.2
## Source-specific Applicable Requirements
## S3 – UNIT 230, B-201 HEATER

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| **Rule 10** | **in Petroleum Refineries (7/17/02)** | | |
| 9-10-110.5 | Exemptions: Fired on non-gaseous fuel when natural gas is unavailable for use | N | |
| 9-10-301 | Emission Limit for Facility, NOx: 0.033 lb NOx/MMbtu | N | |
| 9-10-301.1 | ...Start-up/Shutdown Contribution | N | |
| 9-10-301.2 | ...Out-of-Service Units Contribution | N | |
| 9-10-301.3 | ...Test-firing on Non-gaseous fuel Contribution | N | |
| 9-10-303 | Federal Facility-wide NOx emission rate limit | Y | |
| 9-10-305 | CO emission limit | N | |
| 9-10-502 | Monitoring | Y | |
| 9-10-502.1 | CEMS for NOx, CO, and O2, or equivalent monitoring | N | |
| 9-10-502.2 | Fuel flowmeters | Y | |
| 9-10-504 | Recordkeeping | N | |
| 9-10-504.1 | Records | N | |
| 9-10-505 | Reporting | N | |
| 9-10-601 | Determination of NOx | N | |
| 9-10-602 | Determination of CO and Stack Gas O2 | N | |
| 9-10-603 | Compliance Determination | Y | |
| **40 CFR 60, Subpart A** | **General Provisions (2/12/98)** | | |
| 60.7(b) | Records | Y | |
| 60.7(c) | Notification and recordkeeping for continuous monitoring | Y | |
| 60.7(d) | Summary reports | Y | |
| 60.7(e) | Reduction of frequency of summary reports | Y | |
| 60.7(f) | Records | Y | |
| 60.7(g) | Alternative Notification | Y | |
| 60.7(h) | Specific Provisions | Y | |
| 60.8 | Performance Tests | Y | |
| 60.11 | Compliance with Standards and Maintenance Requirements | Y | |
| 60.11(a) | Compliance determined by performance tests | Y | |
| 60.11(d) | Control devices operated using good air pollution control practice | Y | |
| 60.13 | Monitoring requirements | Y | |
| 60.13(a) | Continuous monitoring systems subject to Appendix B, and Appendix F, (if used to demonstrate compliance with continuous emission | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – A.2
## Source-specific Applicable Requirements
## S3 – UNIT 230, B-201 HEATER

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| | limits), of Part 60 | | |
| 60.13(b) | Continuous monitoring systems and devices operational prior to performance tests required by 60.8 | Y | |
| 60.13(d)(1) | Continuous monitoring system zero and span calibration requirements | Y | |
| 60.13(e) | Continuous monitoring system minimum frequency of operation | Y | |
| 60.13(e)(2) | Continuous monitoring system minimum frequency of operation for non-opacity-measuring devices | Y | |
| 60.13(f) | Continuous monitoring system installation location requirement | Y | |
| **NSPS 40 CFR 60, Subpart J** | **Standards of Performance for Petroleum Refineries (7/1/00)** | | |
| 60.100 | Applicability | Y | |
| 60.104 | Standards for Sulfur Oxides: Compliance Schedule | Y | |
| 60.104(a)(1) | fuel gas H2S concentration limited to 230 mg/dscm (0.10 gr/dscf) except for gas burned as a result of process upset or gas burned at flares from relief valve leaks or other emergency malfunctions | Y | |
| 60.105 | Monitoring of Emissions and Operations | Y | |
| 60.105(a)(4) | monitoring requirement for H2S (dry basis) in fuel gas prior to combustion (in lieu of separate combustion device exhaust SO2 monitors as required by 60.105(a)(3)) | Y | |
| 60.105(e)(3)(ii) | Excess H2S emission definitions for 60.7(c) | Y | |
| 60.106(a) | Test methods and procedures | Y | |
| 60.106(e)(1) | Method 11 shall be used to verify compliance with 60.104(a)(1) | Y | |
| **NSPS 40 CFR 60, Appendix A** | **Appendix A to Part 60 – Test Methods** | Y | |
| **NSPS 40 CFR 60 Appendix B** | **Performance Specifications** | | |
| Performance Specification 7 | H2S continuous emission monitoring systems | Y | |
| **BAAQMD Condition 1694** | | | |

# IV. Source Specific Applicable Requirements

## Table IV – A.2
## Source-specific Applicable Requirements
## S3 – UNIT 230, B-201 HEATER

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| Part A.1a | Heat ratings, firing limits [Basis: Regulation 2-1-234.3] | Y | |
| Part A.2a | Fuel restrictions [Basis: Regulation 2, Rule 1] | Y | |
| Part A.2b | Visible emission monitoring for liquid-fired sources during tube cleaning [Basis: Regulation 2-6-409.2] | Y | |
| Part A.2c | Visible emissions monitoring for liquid-fired sources [Basis: Regulation 2-6-409.2] | Y | |
| Part A.3a | TRS testing requirement [Basis: SO2 Bubble] | Y | |
| Part A.3b | TRS reporting requirements [Basis: SO2 Bubble] | Y | |
| Part A.4 | SO2 emission limit [Basis: SO2 Bubble] | Y | |
| Part A.5 | Records [Basis: Regulation 2, Rule 1; SO2 Bubble; Regulation 2-6-409.2] | Y | |
| Part F.2 | Annual fuel firing limit at S2, S3, S4, S5, S7 [Basis: Cumulative Increase] | Y | |
| Part F.3 | Monthly fuel firing records [Basis: Recordkeeping] | Y | |
| **BAAQMD Condition 21235** | | | |
| Part 1 | Sources subject to Regulation 9-10–301 and 9-10-305 [Basis: Regulation 9-10-301, 9-10-305] | N | |
| Part 2 | O2 CEM requirement [Basis: Regulation 9-10-502] | N | |
| Part 3 | "NOx Box" requirement for sources without NOx CEMs [Basis: Regulation 9-10-502] | N | |
| Part 4 | "NOx Box" development procedure [Basis: Regulation 9-10-502] | N | |
| Part 5 | "NOx Box" parameters [Basis: Regulation 9-10-502] | N | |
| Part 6a | Allowed "NOx Box" deviations [Basis: Regulation 9-10-502] | N | |
| Part 6b | "NOx Box" deviation reporting requirement [Basis: Regulation 9-10-502] | N | |
| Part 7 | NOx, CO, O2 source test requirement for sources without NOx CEMs [Basis: Regulation 9-10-502] | N | |
| Part 9 | CO, O2 CEM requirement [Basis: Regulation 9-10-502, 1-522] | N | |
| Part 10 | Recordkeeping requirement [Basis: Regulation 9-10-504] | N | |

# IV. Source Specific Applicable Requirements

## Table IV – A.3
## Source-specific Applicable Requirements
## S4 – UNIT 231, B-101 HEATER

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| **BAAQMD Regulation 1** | **General Provisions and Definitions (7/17/06)** | | |
| 1-521 | Monitoring May Be Required | Y | |
| **BAAQMD Regulation 6** | **Particulate Matter and Visible Emissions (12/19/90)** | | |
| 6-301 | Ringelmann #1 Limitation | Y | |
| 6-305 | Visible Particles | Y | |
| 6-310.3 | Particulate Weight Limitation | Y | |
| **BAAQMD Regulation 9, Rule 10** | **Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon Monoxide from Boilers, Steam Generators, and Process Heaters in Petroleum Refineries (7/17/02)** | | |
| 9-10-301 | Emission Limit for Facility, NOx: 0.033 lb NOx/MMbtu | N | |
| 9-10-301.1 | ...Start-up/Shutdown Contribution | N | |
| 9-10-301.2 | ...Out-of-Service Units Contribution | N | |
| 9-10-301.3 | ...Test-firing on Non-gaseous fuel Contribution | N | |
| 9-10-303 | Federal Facility-wide NOx emission rate limit | Y | |
| 9-10-305 | CO emission limit | N | |
| 9-10-502 | Monitoring | Y | |
| 9-10-502.1 | CEMS for NOx, CO, and O2, or equivalent monitoring | N | |
| 9-10-502.2 | Fuel flowmeters | Y | |
| 9-10-504 | Recordkeeping | N | |
| 9-10-504.1 | Records | N | |
| 9-10-505 | Reporting | N | |
| 9-10-601 | Determination of NOx | N | |
| 9-10-602 | Determination of CO and Stack Gas O2 | N | |
| 9-10-603 | Compliance Determination | Y | |
| **40 CFR 60, Subpart A** | **General Provisions (2/12/98)** | | |
| 60.7(b) | Records | Y | |
| 60.7(c) | Notification and recordkeeping for continuous monitoring | Y | |
| 60.7(d) | Summary reports | Y | |
| 60.7(e) | Reduction of frequency of summary reports | Y | |
| 60.7(f) | Records | Y | |
| 60.7(g) | Alternative Notification | Y | |
| 60.7(h) | Specific Provisions | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – A.3
## Source-specific Applicable Requirements
## S4 – UNIT 231, B-101 HEATER

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| 60.8 | Performance Tests | Y | |
| 60.11 | Compliance with Standards and Maintenance Requirements | Y | |
| 60.11(a) | Compliance determined by performance tests | Y | |
| 60.11(d) | Control devices operated using good air pollution control practice | Y | |
| 60.13 | Monitoring requirements | Y | |
| 60.13(a) | Continuous monitoring systems subject to Appendix B, and Appendix F, (if used to demonstrate compliance with continuous emission limits), of Part 60 | Y | |
| 60.13(b) | Continuous monitoring systems and devices operational prior to performance tests required by 60.8 | Y | |
| 60.13(d)(1) | Continuous monitoring system zero and span calibration requirements | Y | |
| 60.13(e) | Continuous monitoring system minimum frequency of operation | Y | |
| 60.13(e)(2) | Continuous monitoring system minimum frequency of operation for non-opacity-measuring devices | Y | |
| 60.13(f) | Continuous monitoring system installation location requirement | Y | |
| **NSPS 40 CFR 60, Subpart J** | **Standards of Performance for Petroleum Refineries (7/1/00)** | | |
| 60.100 | Applicability | Y | |
| 60.104 | Standards for Sulfur Oxides: Compliance Schedule | Y | |
| 60.104(a)(1) | fuel gas H2S concentration limited to 230 mg/dscm (0.10 gr/dscf) except for gas burned as a result of process upset or gas burned at flares from relief valve leaks or other emergency malfunctions | Y | |
| 60.105 | Monitoring of Emissions and Operations | Y | |
| 60.105(a)(4) | monitoring requirement for H2S (dry basis) in fuel gas prior to combustion (in lieu of separate combustion device exhaust SO2 monitors as required by 60.105(a)(3)) | Y | |
| 60.105(e)(3)(ii) | Excess H2S emission definitions for 60.7(c) | Y | |
| 60.106(a) | Test methods and procedures | Y | |
| 60.106(e)(1) | Method 11 shall be used to verify compliance with 60.104(a)(1) | Y | |
| **NSPS 40 CFR 60, Appendix A** | **Appendix A to Part 60 – Test Methods** | Y | |
| **NSPS** | **Performance Specifications** | | |

# IV. Source Specific Applicable Requirements

## Table IV – A.3
## Source-specific Applicable Requirements
## S4 – UNIT 231, B-101 HEATER

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| **40 CFR 60 Appendix B** | | | |
| Performance Specification 7 | H2S continuous emission monitoring systems | Y | |
| **BAAQMD Condition 1694** | | | |
| Part A.1b | Heat ratings, firing limits [Basis: Regulation 2-1-301] | Y | |
| Part A.2a | Fuel restrictions [Basis: Regulation 2, Rule 1] | Y | |
| Part A.3a | TRS testing requirement [Basis: SO2 Bubble] | Y | |
| Part A.3b | TRS reporting requirements [Basis: SO2 Bubble] | Y | |
| Part A.4 | SO2 emission limit [Basis: SO2 Bubble] | Y | |
| Part A.5 | Records [Basis: Regulation 2, Rule 1; SO2 Bubble; Regulation 2-6-409.2] | Y | |
| Part F.2 | Annual fuel firing limit at S2, S3, S4, S5, S7 [Basis: Cumulative Increase] | Y | |
| Part F.3 | Monthly fuel firing records [Basis: Recordkeeping] | Y | |
| **BAAQMD Condition 21235** | | | |
| Part 1 | Sources subject to Regulation 9-10–301 and 9-10-305 [Basis: Regulation 9-10-301, 9-10-305] | N | |
| Part 2 | O2 CEM requirement [Basis: Regulation 9-10-502] | N | |
| Part 3 | "NOx Box" requirement for sources without NOx CEMs [Basis: Regulation 9-10-502] | N | |
| Part 4 | "NOx Box" development procedure [Basis: Regulation 9-10-502] | N | |
| Part 5 | "NOx Box" parameters [Basis: Regulation 9-10-502] | N | |
| Part 6a | Allowed "NOx Box" deviations [Basis: Regulation 9-10-502] | N | |
| Part 6b | "NOx Box" deviation reporting requirement [Basis: Regulation 9-10-502] | N | |
| Part 7 | NOx, CO, O2 source test requirement for sources without NOx CEMs [Basis: Regulation 9-10-502] | N | |
| Part 9 | CO, O2 CEM requirement [Basis: Regulation 9-10-502, 1-522] | N | |
| Part 10 | Recordkeeping requirement [Basis: Regulation 9-10-504] | N | |

# IV. Source Specific Applicable Requirements

## Table IV – A.4
## Source-specific Applicable Requirements
## S5 – UNIT 231, B-102 HEATER

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| **BAAQMD Regulation 1** | **General Provisions and Definitions (7/17/06)** | | |
| 1-521 | Monitoring May Be Required | Y | |
| **BAAQMD Regulation 6** | **Particulate Matter and Visible Emissions (12/19/90)** | | |
| 6-301 | Ringelmann #1 Limitation | Y | |
| 6-305 | Visible Particles | Y | |
| 6-310.3 | Particulate Weight Limitation | Y | |
| **BAAQMD Regulation 9, Rule 10** | **Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon Monoxide from Boilers, Steam Generators, and Process Heaters in Petroleum Refineries (7/17/021/5/94)** | | |
| 9-10-301 | Emission Limit for Facility, NOx: 0.033 lb NOx/MMbtu | N | |
| 9-10-301.1 | ...Start-up/Shutdown Contribution | N | |
| 9-10-301.2 | ...Out-of-Service Units Contribution | N | |
| 9-10-301.3 | ...Test-firing on Non-gaseous fuel Contribution | N | |
| 9-10-303 | Federal Facility-wide NOx emission rate limit | Y | |
| 9-10-305 | CO emission limit | N | |
| 9-10-502 | Monitoring | Y | |
| 9-10-502.1 | CEMS for NOx, CO, and O2, or equivalent monitoring | N | |
| 9-10-502.2 | Fuel flowmeters | Y | |
| 9-10-504 | Recordkeeping | N | |
| 9-10-504.1 | Records | N | |
| 9-10-505 | Reporting | N | |
| 9-10-601 | Determination of NOx | N | |
| 9-10-602 | Determination of CO and Stack Gas O2 | N | |
| 9-10-603 | Compliance Determination | Y | |
| **40 CFR 60, Subpart A** | **General Provisions (2/12/98)** | | |
| 60.7(b) | Records | Y | |
| 60.7(c) | Notification and recordkeeping for continuous monitoring | Y | |
| 60.7(d) | Summary reports | Y | |
| 60.7(e) | Reduction of frequency of summary reports | Y | |
| 60.7(f) | Records | Y | |
| 60.7(g) | Alternative Notification | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – A.4
## Source-specific Applicable Requirements
## S5 – UNIT 231, B-102 HEATER

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| 60.7(h) | Specific Provisions | Y | |
| 60.8 | Performance Tests | Y | |
| 60.11 | Compliance with Standards and Maintenance Requirements | Y | |
| 60.11(a) | Compliance determined by performance tests | Y | |
| 60.11(d) | Control devices operated using good air pollution control practice | Y | |
| 60.13 | Monitoring requirements | Y | |
| 60.13(a) | Continuous monitoring systems subject to Appendix B, and Appendix F, (if used to demonstrate compliance with continuous emission limits), of Part 60 | Y | |
| 60.13(b) | Continuous monitoring systems and devices operational prior to performance tests required by 60.8 | Y | |
| 60.13(d)(1) | Continuous monitoring system zero and span calibration requirements | Y | |
| 60.13(e) | Continuous monitoring system minimum frequency of operation | Y | |
| 60.13(e)(2) | Continuous monitoring system minimum frequency of operation for non-opacity-measuring devices | Y | |
| 60.13(f) | Continuous monitoring system installation location requirement | Y | |
| **NSPS 40 CFR 60, Subpart J** | **Standards of Performance for Petroleum Refineries (7/1/00)** | | |
| 60.100 | Applicability | Y | |
| 60.104 | Standards for Sulfur Oxides: Compliance Schedule | Y | |
| 60.104(a)(1) | fuel gas H2S concentration limited to 230 mg/dscm (0.10 gr/dscf) except for gas burned as a result of process upset or gas burned at flares from relief valve leaks or other emergency malfunctions | Y | |
| 60.105 | Monitoring of Emissions and Operations | Y | |
| 60.105(a)(4) | monitoring requirement for H2S (dry basis) in fuel gas prior to combustion (in lieu of separate combustion device exhaust SO2 monitors as required by 60.105(a)(3)) | Y | |
| 60.105(e)(3)(ii) | Excess H2S emission definitions for 60.7(c) | Y | |
| 60.106(a) | Test methods and procedures | Y | |
| 60.106(e)(1) | Method 11 shall be used to verify compliance with 60.104(a)(1) | Y | |
| **NSPS 40 CFR 60, Appendix A** | **Appendix A to Part 60 – Test Methods** | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – A.4
## Source-specific Applicable Requirements
## S5 – UNIT 231, B-102 HEATER

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| **NSPS 40 CFR 60 Appendix B** | **Performance Specifications** | | |
| Performance Specification 7 | H2S continuous emission monitoring systems | Y | |
| **BAAQMD Condition 1694** | | | |
| Part A.1b | Heat ratings, firing limits [Basis: Regulation 2-1-301] | Y | |
| Part A.2a | Fuel restrictions [Basis: Regulation 2, Rule 1] | Y | |
| Part A.3a | TRS testing requirement [Basis: SO2 Bubble] | Y | |
| Part A.3b | TRS reporting requirements [Basis: SO2 Bubble] | Y | |
| Part A.4 | SO2 emission limit [Basis: SO2 Bubble] | Y | |
| Part A.5 | Records [Basis: Regulation 2, Rule 1; SO2 Bubble; Regulation 2-6-409.2] | Y | |
| Part F.2 | Annual fuel firing limit at S2, S3, S4, S5, S7 [Basis: Cumulative Increase] | Y | |
| Part F.3 | Monthly fuel firing records [Basis: Recordkeeping] | Y | |
| **BAAQMD Condition 21235** | | | |
| Part 1 | Sources subject to Regulation 9-10–301 and 9-10-305 [Basis: Regulation 9-10-301, 9-10-305] | N | |
| Part 2 | O2 CEM requirement [Basis: Regulation 9-10-502] | N | |
| Part 3 | "NOx Box" requirement for sources without NOx CEMs [Basis: Regulation 9-10-502] | N | |
| Part 4 | "NOx Box" development procedure [Basis: Regulation 9-10-502] | N | |
| Part 5 | "NOx Box" parameters [Basis: Regulation 9-10-502] | N | |
| Part 6a | Allowed "NOx Box" deviations [Basis: Regulation 9-10-502] | N | |
| Part 6b | "NOx Box" deviation reporting requirement [Basis: Regulation 9-10-502] | N | |
| Part 7 | NOx, CO, O2 source test requirement for sources without NOx CEMs [Basis: Regulation 9-10-502] | N | |
| Part 9 | CO, O2 CEM requirement [Basis: Regulation 9-10-502, 1-522] | N | |
| Part 10 | Recordkeeping requirement [Basis: Regulation 9-10-504] | N | |

# IV. Source Specific Applicable Requirements

## Table IV – A.5
## Source-specific Applicable Requirements
## S7 – UNIT 231, B-103 HEATER

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| **BAAQMD Regulation 1** | **General Provisions and Definitions (7/17/06)** | | |
| 1-521 | Monitoring May Be Required | Y | |
| **BAAQMD Regulation 6** | **Particulate Matter and Visible Emissions (12/19/90)** | | |
| 6-301 | Ringelmann #1 Limitation | Y | |
| 6-305 | Visible Particles | Y | |
| 6-310.3 | Particulate Weight Limitation | Y | |
| 6-401 | Appearance of Emissions | Y | |
| **BAAQMD Regulation 9, Rule 10** | **Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon Monoxide from Boilers, Steam Generators, and Process Heaters in Petroleum Refineries (7/17/02)** | | |
| 9-10-110.5 | Exemptions: Fired on non-gaseous fuel when natural gas is unavailable for use | N | |
| 9-10-301 | Emission Limit for Facility, NOx: 0.033 lb NOx/MMbtu | N | |
| 9-10-301.1 | ...Start-up/Shutdown Contribution | N | |
| 9-10-301.2 | ...Out-of-Service Units Contribution | N | |
| 9-10-301.3 | ...Test-firing on Non-gaseous fuel Contribution | N | |
| 9-10-303 | Federal Facility-wide NOx emission rate limit | Y | |
| 9-10-305 | CO emission limit | N | |
| 9-10-502 | Monitoring | Y | |
| 9-10-502.1 | CEMS for NOx, CO, and O2, or equivalent monitoring | N | |
| 9-10-502.2 | Fuel flowmeters | Y | |
| 9-10-504 | Recordkeeping | N | |
| 9-10-504.1 | Records | N | |
| 9-10-505 | Reporting | N | |
| 9-10-601 | Determination of NOx | N | |
| 9-10-602 | Determination of CO and Stack Gas O2 | N | |
| 9-10-603 | Compliance Determination | Y | |
| **40 CFR 60, Subpart A** | **General Provisions (2/12/98)** | | |
| 60.7(b) | Records | Y | |
| 60.7(c) | Notification and recordkeeping for continuous monitoring | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – A.5
## Source-specific Applicable Requirements
## S7 – UNIT 231, B-103 HEATER

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| 60.7(d) | Summary reports | Y | |
| 60.7(e) | Reduction of frequency of summary reports | Y | |
| 60.7(f) | Records | Y | |
| 60.7(g) | Alternative Notification | Y | |
| 60.7(h) | Specific Provisions | Y | |
| 60.8 | Performance Tests | Y | |
| 60.11 | Compliance with Standards and Maintenance Requirements | Y | |
| 60.11(a) | Compliance determined by performance tests | Y | |
| 60.11(d) | Control devices operated using good air pollution control practice | Y | |
| 60.13 | Monitoring requirements | Y | |
| 60.13(a) | Continuous monitoring systems subject to Appendix B, and Appendix F, (if used to demonstrate compliance with continuous emission limits), of Part 60 | Y | |
| 60.13(b) | Continuous monitoring systems and devices operational prior to performance tests required by 60.8 | Y | |
| 60.13(d)(1) | Continuous monitoring system zero and span calibration requirements | Y | |
| 60.13(e) | Continuous monitoring system minimum frequency of operation | Y | |
| 60.13(e)(2) | Continuous monitoring system minimum frequency of operation for non-opacity-measuring devices | Y | |
| 60.13(f) | Continuous monitoring system installation location requirement | Y | |
| **NSPS 40 CFR 60, Subpart J** | **Standards of Performance for Petroleum Refineries (7/1/00)** | | |
| 60.100 | Applicability | Y | |
| 60.104 | Standards for Sulfur Oxides: Compliance Schedule | Y | |
| 60.104(a)(1) | fuel gas H2S concentration limited to 230 mg/dscm (0.10 gr/dscf) except for gas burned as a result of process upset or gas burned at flares from relief valve leaks or other emergency malfunctions | Y | |
| 60.105 | Monitoring of Emissions and Operations | Y | |
| 60.105(a)(4) | monitoring requirement for H2S (dry basis) in fuel gas prior to combustion (in lieu of separate combustion device exhaust SO2 monitors as required by 60.105(a)(3)) | Y | |
| 60.105(e)(3)(ii) | Excess H2S emission definitions for 60.7(c) | Y | |
| 60.106(a) | Test methods and procedures | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – A.5
## Source-specific Applicable Requirements
## S7 – UNIT 231, B-103 HEATER

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| 60.106(e)(1) | Method 11 shall be used to verify compliance with 60.104(a)(1) | Y | |
| **NSPS 40 CFR 60, Appendix A** | **Appendix A to Part 60 – Test Methods** | Y | |
| **NSPS 40 CFR 60 Appendix B** | **Performance Specifications** | | |
| Performance Specification 7 | H2S continuous emission monitoring systems | Y | |
| **BAAQMD Condition 1694** | | | |
| Part A.1a | Heat ratings, firing limits [Basis: Regulation 2-1-234.3] | Y | |
| Part A.2a | Fuel restrictions [Basis: Regulation 2, Rule 1] | Y | |
| Part A.2b | Visible emission monitoring for liquid-fired sources during tube cleaning [Basis: Regulation 2-6-409.2] | Y | |
| Part A.2c | Visible emissions monitoring for liquid-fired sources [Basis: Regulation 2-6-409.2] | Y | |
| Part A.3a | TRS testing requirement [Basis: SO2 Bubble] | Y | |
| Part A.3b | TRS reporting requirements [Basis: SO2 Bubble] | Y | |
| Part A.4 | SO2 emission limit [Basis: SO2 Bubble] | Y | |
| Part A.5 | Records [Basis: Regulation 2, Rule 1; SO2 Bubble; Regulation 2-6-409.2] | Y | |
| Part F.2 | Annual fuel firing limit at S2, S3, S4, S5, S7 [Basis: Cumulative Increase] | Y | |
| Part F.3 | Monthly fuel firing records [Basis: Recordkeeping] | Y | |
| **BAAQMD Condition 21235** | | | |
| Part 1 | Sources subject to Regulation 9-10–301 and 9-10-305 [Basis: Regulation 9-10-301, 9-10-305] | N | |
| Part 2 | O2 CEM requirement [Basis: Regulation 9-10-502] | N | |
| Part 3 | "NOx Box" requirement for sources without NOx CEMs [Basis: Regulation 9-10-502] | N | |
| Part 4 | "NOx Box" development procedure [Basis: Regulation 9-10-502] | N | |

# IV. Source Specific Applicable Requirements

## Table IV – A.5
## Source-specific Applicable Requirements
## S7 – UNIT 231, B-103 HEATER

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| Part 5 | "NOx Box" parameters [Basis: Regulation 9-10-502] | N | |
| Part 6a | Allowed "NOx Box" deviations [Basis: Regulation 9-10-502] | N | |
| Part 6b | "NOx Box" deviation reporting requirement [Basis: Regulation 9-10-502] | N | |
| Part 7 | NOx, CO, O2 source test requirement for sources without NOx CEMs [Basis: Regulation 9-10-502] | N | |
| Part 9 | CO, O2 CEM requirement [Basis: Regulation 9-10-502, 1-522] | N | |
| Part 10 | Recordkeeping requirement [Basis: Regulation 9-10-504] | N | |

## Table IV – A.6
## Source-specific Applicable Requirements
## S8 – UNIT 240, B-1 BOILER

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| **BAAQMD Regulation 1** | **General Provisions and Definitions (7/17/06)** | | |
| 1-520 | Continuous Emission Monitoring | Y | |
| 1-520.1 | NOx, O2 monitors for steam generators with capacity of 250 MMbtu/hr or more | Y | |
| 1-521 | Monitoring May Be Required | Y | |
| 1-522 | Continuous Emission Monitoring and Recordkeeping Procedures | | |
| 1-522.4 | reporting of inoperative CEMs | Y | |
| 1-522.5 | CEM calibration requirements | Y | |
| 1-522.6 | CEM accuracy requirements | Y | |
| 1-522.7 | emission limit exceedance reporting requirements | N | |
| 1-522.8 | monitoring data submittal requirements | Y | |
| 1-522.9 | recordkeeping requirements | Y | |
| 1-522.10 | Regulation 1-521 monitors shall meet requirements specified by District | Y | |
| 1-602 | Area and Continuous Monitoring Requirements | N | |
| **SIP Regulation 1** | **PROVISIONS NO LONGER IN CURRENT RULE General Provisions and Definitions (6/28/99)** | | |

# IV. Source Specific Applicable Requirements

## Table IV – A.6
## Source-specific Applicable Requirements
## S8 – UNIT 240, B-1 BOILER

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| 1-522 | Continuous Emission Monitoring and Recordkeeping Procedures | Y – note 1 | |
| 1-522.7 | emission limit exceedance reporting requirements | Y - note 1 | |
| **BAAQMD Regulation 6** | **Particulate Matter and Visible Emissions (12/19/90)** | | |
| 6-301 | Ringelmann #1 Limitation | Y | |
| 6-304 | Tube Cleaning | Y | |
| 6-305 | Visible Particles | Y | |
| 6-310.3 | Particulate Weight Limitation | Y | |
| **BAAQMD Manual of Procedures, Volume V** | **Continuous Emission Monitoring Policy and Procedures (1/20/82)** | Y | |
| **BAAQMD Regulation 9, Rule 10** | **Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon Monoxide from Boilers, Steam Generators, and Process Heaters in Petroleum Refineries (7/17/02)** | | |
| 9-10-301 | Emission Limit for Facility, NOx: 0.033 lb NOx/MMbtu | N | |
| 9-10-301.1 | ...Start-up/Shutdown Contribution | N | |
| 9-10-301.2 | ...Out-of-Service Units Contribution | N | |
| 9-10-301.3 | ...Test-firing on Non-gaseous fuel Contribution | N | |
| 9-10-303 | Federal Facility-wide NOx emission rate limit | Y | |
| 9-10-305 | CO emission limit | N | |
| 9-10-502 | Monitoring | Y | |
| 9-10-502.1 | CEMS for NOx, CO, and O2 or equivalent monitoring | N | |
| 9-10-502.2 | Fuel flowmeters | Y | |
| 9-10-504 | Recordkeeping | N | |
| 9-10-504.1 | Records | N | |
| 9-10-505 | Reporting | N | |
| 9-10-601 | Determination of NOx | N | |
| 9-10-602 | Determination of CO and Stack Gas O2 | N | |
| 9-10-603 | Compliance Determination | Y | |
| **40 CFR 60, Subpart A** | **General Provisions (2/12/98)** | | |
| 60.7(b) | Records | Y | |
| 60.7(c) | Notification and recordkeeping for continuous monitoring | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – A.6
## Source-specific Applicable Requirements
## S8 – UNIT 240, B-1 BOILER

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| 60.7(d) | Summary reports | Y | |
| 60.7(e) | Reduction of frequency of summary reports | Y | |
| 60.7(f) | Records | Y | |
| 60.7(g) | Alternative Notification | Y | |
| 60.7(h) | Specific Provisions | Y | |
| 60.8 | Performance Tests | Y | |
| 60.11 | Compliance with Standards and Maintenance Requirements | Y | |
| 60.11(a) | Compliance determined by performance tests | Y | |
| 60.11(d) | Control devices operated using good air pollution control practice | Y | |
| 60.13 | Monitoring requirements | Y | |
| 60.13(a) | Continuous monitoring systems subject to Appendix B, and Appendix F, (if used to demonstrate compliance with continuous emission limits), of Part 60 | Y | |
| 60.13(b) | Continuous monitoring systems and devices operational prior to performance tests required by 60.8 | Y | |
| 60.13(d)(1) | Continuous monitoring system zero and span calibration requirements | Y | |
| 60.13(e) | Continuous monitoring system minimum frequency of operation | Y | |
| 60.13(e)(2) | Continuous monitoring system minimum frequency of operation for non-opacity-measuring devices | Y | |
| 60.13(f) | Continuous monitoring system installation location requirement | Y | |
| **NSPS 40 CFR 60, Subpart J** | **Standards of Performance for Petroleum Refineries (7/1/00)** | | |
| 60.100 | Applicability | Y | |
| 60.104 | Standards for Sulfur Oxides: Compliance Schedule | Y | |
| 60.104(a)(1) | fuel gas H2S concentration limited to 230 mg/dscm (0.10 gr/dscf) except for gas burned as a result of process upset or gas burned at flares from relief valve leaks or other emergency malfunctions | Y | |
| 60.105 | Monitoring of Emissions and Operations | Y | |
| 60.105(a)(4) | monitoring requirement for H2S (dry basis) in fuel gas prior to combustion (in lieu of separate combustion device exhaust SO2 monitors as required by 60.105(a)(3)) | Y | |
| 60.105(e)(3)(ii) | Excess H2S emission definitions for 60.7(c) | Y | |
| 60.106(a) | Test methods and procedures | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – A.6
## Source-specific Applicable Requirements
## S8 – UNIT 240, B-1 BOILER

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| 60.106(e)(1) | Method 11 shall be used to verify compliance with 60.104(a)(1) | Y | |
| **NSPS 40 CFR 60, Appendix A** | **Appendix A to Part 60 – Test Methods** | Y | |
| **NSPS 40 CFR 60 Appendix B** | **Performance Specifications** | | |
| Performance Specification 7 | H2S continuous emission monitoring systems | Y | |
| **BAAQMD Condition 1694** | | | |
| Part A.1b | Heat ratings, firing limits [Basis: Regulation 2-1-301] | Y | |
| Part A.2a | Fuel restrictions [Basis: Regulation 2, Rule 1] | Y | |
| Part A.3a | TRS testing requirement [Basis: SO2 Bubble] | Y | |
| Part A.3b | TRS reporting requirements [Basis: SO2 Bubble] | Y | |
| Part A.4 | SO2 emission limit [Basis: SO2 Bubble] | Y | |
| Part A.5 | Records [Basis: Regulation 2, Rule 1; SO2 Bubble; Regulation 2-6-409.2] | Y | |
| Part F.1 | Annual fuel firing limit at S8, S9, S10, S11, S12, S13, S14 [Basis: Cumulative Increase] | Y | |
| Part F.3 | Monthly fuel firing records [Basis: Recordkeeping] | Y | |
| **BAAQMD Condition 21235** | | | |
| Part 1 | Sources subject to Regulation 9-10–301 and 9-10-305 [Basis: Regulation 9-10-301, 9-10-305] | N | |
| Part 2 | O2 CEM requirement [Basis: Regulation 9-10-502] | N | |
| Part 8 | CO source test requirement for sources with NOx CEMs [Basis: Regulation 9-10-502] | N | |
| Part 9 | CO, O2 CEM requirement [Basis: Regulation 9-10-502, 1-522] | N | |
| Part 10 | Recordkeeping requirement [Basis: Regulation 9-10-504] | N | |

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

# IV. Source Specific Applicable Requirements

## Table IV – A.7
## Source-specific Applicable Requirements
## S9 – UNIT 240, B-2 BOILER

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| **BAAQMD Regulation 1** | **General Provisions and Definitions (7/17/06)** | | |
| 1-521 | Monitoring May Be Required | Y | |
| **BAAQMD Regulation 6** | **Particulate Matter and Visible Emissions (12/19/90)** | | |
| 6-301 | Ringelmann #1 Limitation | Y | |
| 6-305 | Visible Particles | Y | |
| 6-310.3 | Particulate Weight Limitation | Y | |
| **BAAQMD Regulation 9, Rule 10** | **Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon Monoxide from Boilers, Steam Generators, and Process Heaters in Petroleum Refineries (7/17/02)** | | |
| 9-10-301 | Emission Limit for Facility, NOx: 0.033 lb NOx/MMbtu | N | |
| 9-10-301.1 | ...Start-up/Shutdown Contribution | N | |
| 9-10-301.2 | ...Out-of-Service Units Contribution | N | |
| 9-10-301.3 | ...Test-firing on Non-gaseous fuel Contribution | N | |
| 9-10-303 | Federal Facility-wide NOx emission rate limit | Y | |
| 9-10-305 | CO emission limit | N | |
| 9-10-502 | Monitoring | Y | |
| 9-10-502.1 | CEMS for NOx, CO, and O2, or equivalent monitoring | N | |
| 9-10-502.2 | Fuel flowmeters | Y | |
| 9-10-504 | Recordkeeping | N | |
| 9-10-504.1 | Records | N | |
| 9-10-505 | Reporting | N | |
| 9-10-601 | Determination of NOx | N | |
| 9-10-602 | Determination of CO and Stack Gas O2 | N | |
| 9-10-603 | Compliance Determination | Y | |
| **40 CFR 60, Subpart A** | **General Provisions (2/12/98)** | | |
| 60.7(b) | Records | Y | |
| 60.7(c) | Notification and recordkeeping for continuous monitoring | Y | |
| 60.7(d) | Summary reports | Y | |
| 60.7(e) | Reduction of frequency of summary reports | Y | |
| 60.7(f) | Records | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – A.7
## Source-specific Applicable Requirements
## S9 – UNIT 240, B-2 BOILER

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| 60.7(g) | Alternative Notification | Y | |
| 60.7(h) | Specific Provisions | Y | |
| 60.8 | Performance Tests | Y | |
| 60.11 | Compliance with Standards and Maintenance Requirements | Y | |
| 60.11(a) | Compliance determined by performance tests | Y | |
| 60.11(d) | Control devices operated using good air pollution control practice | Y | |
| 60.13 | Monitoring requirements | Y | |
| 60.13(a) | Continuous monitoring systems subject to Appendix B, and Appendix F, (if used to demonstrate compliance with continuous emission limits), of Part 60 | Y | |
| 60.13(b) | Continuous monitoring systems and devices operational prior to performance tests required by 60.8 | Y | |
| 60.13(d)(1) | Continuous monitoring system zero and span calibration requirements | Y | |
| 60.13(e) | Continuous monitoring system minimum frequency of operation | Y | |
| 60.13(e)(2) | Continuous monitoring system minimum frequency of operation for non-opacity-measuring devices | Y | |
| 60.13(f) | Continuous monitoring system installation location requirement | Y | |
| **NSPS 40 CFR 60, Subpart J** | **Standards of Performance for Petroleum Refineries (7/1/00)** | | |
| 60.100 | Applicability | Y | |
| 60.104 | Standards for Sulfur Oxides: Compliance Schedule | Y | |
| 60.104(a)(1) | fuel gas H2S concentration limited to 230 mg/dscm (0.10 gr/dscf) except for gas burned as a result of process upset or gas burned at flares from relief valve leaks or other emergency malfunctions | Y | |
| 60.105 | Monitoring of Emissions and Operations | Y | |
| 60.105(a)(4) | monitoring requirement for H2S (dry basis) in fuel gas prior to combustion (in lieu of separate combustion device exhaust SO2 monitors as required by 60.105(a)(3)) | Y | |
| 60.105(e)(3)(ii) | Excess H2S emission definitions for 60.7(c) | Y | |
| 60.106(a) | Test methods and procedures | Y | |
| 60.106(e)(1) | Method 11 shall be used to verify compliance with 60.104(a)(1) | Y | |
| **NSPS 40 CFR 60,** | **Appendix A to Part 60 – Test Methods** | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – A.7
## Source-specific Applicable Requirements
## S9 – UNIT 240, B-2 BOILER

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| **Appendix A** | | | |
| **NSPS 40 CFR 60 Appendix B** | **Performance Specifications** | | |
| Performance Specification 7 | H2S continuous emission monitoring systems | Y | |
| **BAAQMD Condition 1694** | | | |
| Part A.1b | Heat ratings, firing limits [Basis: Regulation 2-1-301] | Y | |
| Part A.2a | Fuel restrictions [Basis: Regulation 2, Rule 1] | Y | |
| Part A.3a | TRS testing requirement [Basis: SO2 Bubble] | Y | |
| Part A.3b | TRS reporting requirements [Basis: SO2 Bubble] | Y | |
| Part A.4 | SO2 emission limit [Basis: SO2 Bubble] | Y | |
| Part A.5 | Records [Basis: Regulation 2, Rule 1; SO2 Bubble; Regulation 2-6-409.2] | Y | |
| Part F.1 | Annual fuel firing limit at S8, S9, S10, S11, S12, S13, S14 [Basis: Cumulative Increase] | Y | |
| Part F.3 | Monthly fuel firing records [Basis: Recordkeeping] | Y | |
| **BAAQMD Condition 21235** | | | |
| Part 1 | Sources subject to Regulation 9-10–301 and 9-10-305 [Basis: Regulation 9-10-301, 9-10-305] | N | |
| Part 2 | O2 CEM requirement [Basis: Regulation 9-10-502] | N | |
| Part 3 | "NOx Box" requirement for sources without NOx CEMs [Basis: Regulation 9-10-502] | N | |
| Part 4 | "NOx Box" development procedure [Basis: Regulation 9-10-502] | N | |
| Part 5 | "NOx Box" parameters [Basis: Regulation 9-10-502] | N | |
| Part 6a | Allowed "NOx Box" deviations [Basis: Regulation 9-10-502] | N | |
| Part 6b | "NOx Box" deviation reporting requirement [Basis: Regulation 9-10-502] | N | |
| Part 7 | NOx, CO, O2 source test requirement for sources without NOx CEMs [Basis: Regulation 9-10-502] | N | |
| Part 9 | CO, O2 CEM requirement [Basis: Regulation 9-10-502, 1-522] | N | |

# IV. Source Specific Applicable Requirements

## Table IV – A.7
## Source-specific Applicable Requirements
## S9 – UNIT 240, B-2 BOILER

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| Part 10 | Recordkeeping requirement [Basis: Regulation 9-10-504] | N | |

## Table IV – A.8
## Source-specific Applicable Requirements
## S10 – UNIT 240, B-101 HEATER

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| **BAAQMD Regulation 1** | **General Provisions and Definitions (7/17/06)** | | |
| 1-521 | Monitoring May Be Required | Y | |
| 1-522 | Continuous Emission Monitoring and Recordkeeping Procedures | | |
| 1-522.4 | reporting of inoperative CEMs | Y | |
| 1-522.5 | CEM calibration requirements | Y | |
| 1-522.6 | CEM accuracy requirements | Y | |
| 1-522.7 | emission limit exceedance reporting requirements | N | |
| 1-522.8 | monitoring data submittal requirements | Y | |
| 1-522.9 | recordkeeping requirements | Y | |
| 1-522.10 | Regulation 1-521 monitors shall meet requirements specified by District | Y | |
| 1-602 | Area and Continuous Monitoring Requirements | N | |
| **SIP Regulation 1** | **PROVISIONS NO LONGER IN CURRENT RULE General Provisions and Definitions (6/28/99)** | | |
| 1-522 | Continuous Emission Monitoring and Recordkeeping Procedures | Y – note 1 | |
| 1-522.7 | emission limit exceedance reporting requirements | Y - note 1 | |
| **BAAQMD Regulation 6** | **Particulate Matter and Visible Emissions (12/19/90)** | | |
| 6-301 | Ringelmann #1 Limitation | Y | |
| 6-304 | Tube Cleaning | Y | |
| 6-305 | Visible Particles | Y | |
| 6-310.3 | Particulate Weight Limitation | Y | |
| **BAAQMD Manual of Procedures,** | **Continuous Emission Monitoring Policy and Procedures (1/20/82)** | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – A.8
## Source-specific Applicable Requirements
## S10 – UNIT 240, B-101 HEATER

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| **Volume V** | | | |
| **BAAQMD Regulation 9, Rule 10** | **Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon Monoxide from Boilers, Steam Generators, and Process Heaters in Petroleum Refineries (7/17/02)** | | |
| 9-10-301 | Emission Limit for Facility, NOx: 0.033 lb NOx/MMbtu | N | |
| 9-10-301.1 | ...Start-up/Shutdown Contribution | N | |
| 9-10-301.2 | ...Out-of-Service Units Contribution | N | |
| 9-10-301.3 | ...Test-firing on Non-gaseous fuel Contribution | N | |
| 9-10-303 | Federal Facility-wide NOx emission rate limit | Y | |
| 9-10-305 | CO emission limit | N | |
| 9-10-502 | Monitoring | Y | |
| 9-10-502.1 | CEMS for NOx, CO, and O2 or equivalent monitoring | N | |
| 9-10-502.2 | Fuel flowmeters | Y | |
| 9-10-504 | Recordkeeping | N | |
| 9-10-504.1 | Records | N | |
| 9-10-505 | Reporting | N | |
| 9-10-601 | Determination of NOx | N | |
| 9-10-602 | Determination of CO and Stack Gas O2 | N | |
| 9-10-603 | Compliance Determination | Y | |
| **40 CFR 60, Subpart A** | **General Provisions (2/12/98)** | | |
| 60.7(b) | Records | Y | |
| 60.7(c) | Notification and recordkeeping for continuous monitoring | Y | |
| 60.7(d) | Summary reports | Y | |
| 60.7(e) | Reduction of frequency of summary reports | Y | |
| 60.7(f) | Records | Y | |
| 60.7(g) | Alternative Notification | Y | |
| 60.7(h) | Specific Provisions | Y | |
| 60.8 | Performance Tests | Y | |
| 60.11 | Compliance with Standards and Maintenance Requirements | Y | |
| 60.11(a) | Compliance determined by performance tests | Y | |
| 60.11(d) | Control devices operated using good air pollution control practice | Y | |
| 60.13 | Monitoring requirements | Y | |
| 60.13(a) | Continuous monitoring systems subject to Appendix B, and Appendix | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – A.8
## Source-specific Applicable Requirements
## S10 – UNIT 240, B-101 HEATER

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| | F, (if used to demonstrate compliance with continuous emission limits), of Part 60 | | |
| 60.13(b) | Continuous monitoring systems and devices operational prior to performance tests required by 60.8 | Y | |
| 60.13(d)(1) | Continuous monitoring system zero and span calibration requirements | Y | |
| 60.13(e) | Continuous monitoring system minimum frequency of operation | Y | |
| 60.13(e)(2) | Continuous monitoring system minimum frequency of operation for non-opacity-measuring devices | Y | |
| 60.13(f) | Continuous monitoring system installation location requirement | Y | |
| **NSPS 40 CFR 60, Subpart J** | **Standards of Performance for Petroleum Refineries (7/1/00)** | | |
| 60.100 | Applicability | Y | |
| 60.104 | Standards for Sulfur Oxides: Compliance Schedule | Y | |
| 60.104(a)(1) | fuel gas H2S concentration limited to 230 mg/dscm (0.10 gr/dscf) except for gas burned as a result of process upset or gas burned at flares from relief valve leaks or other emergency malfunctions | Y | |
| 60.105 | Monitoring of Emissions and Operations | Y | |
| 60.105(a)(4) | monitoring requirement for H2S (dry basis) in fuel gas prior to combustion (in lieu of separate combustion device exhaust SO2 monitors as required by 60.105(a)(3)) | Y | |
| 60.105(e)(3)(ii) | Excess H2S emission definitions for 60.7(c) | Y | |
| 60.106(a) | Test methods and procedures | Y | |
| 60.106(e)(1) | Method 11 shall be used to verify compliance with 60.104(a)(1) | Y | |
| **NSPS 40 CFR 60, Appendix A** | **Appendix A to Part 60 – Test Methods** | Y | |
| **NSPS 40 CFR 60 Appendix B** | **Performance Specifications** | | |
| Performance Specification 7 | H2S continuous emission monitoring systems | Y | |
| **BAAQMD Condition** | | | |

# IV. Source Specific Applicable Requirements

## Table IV – A.8
## Source-specific Applicable Requirements
## S10 – UNIT 240, B-101 HEATER

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| **1694** | | | |
| Part A.1b | Heat ratings, firing limits [Basis: Regulation 2-1-301] | Y | |
| Part A.2a | Fuel restrictions [Basis: Regulation 2, Rule 1] | Y | |
| Part A.3a | TRS testing requirement [Basis: SO2 Bubble] | Y | |
| Part A.3b | TRS reporting requirements [Basis: SO2 Bubble] | Y | |
| Part A.4 | SO2 emission limit [Basis: SO2 Bubble] | Y | |
| Part A.5 | Records [Basis: Regulation 2, Rule 1; SO2 Bubble; Regulation 2-6-409.2] | Y | |
| Part F.1 | Annual fuel firing limit at S8, S9, S10, S11, S12, S13, S14 [Basis: Cumulative Increase] | Y | |
| Part F.3 | Monthly fuel firing records [Basis: Recordkeeping] | Y | |
| **BAAQMD Condition 21235** | | | |
| Part 1 | Sources subject to Regulation 9-10–301 and 9-10-305 [Basis: Regulation 9-10-301, 9-10-305] | N | |
| Part 2 | O2 CEM requirement [Basis: Regulation 9-10-502] | N | |
| Part 8 | CO source test requirement for sources with NOx CEMs [Basis: Regulation 9-10-502] | N | |
| Part 9 | CO, O2 CEM requirement [Basis: Regulation 9-10-502, 1-522] | N | |
| Part 10 | Recordkeeping requirement [Basis: Regulation 9-10-504] | N | |

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

## Table IV – A.9
## Source-specific Applicable Requirements
## S11 – UNIT 240, B-201 HEATER

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| **BAAQMD Regulation 1** | **General Provisions and Definitions (7/17/06)** | | |
| 1-521 | Monitoring May Be Required | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – A.9
## Source-specific Applicable Requirements
## S11 – UNIT 240, B-201 HEATER

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| **BAAQMD Regulation 6** | **Particulate Matter and Visible Emissions (12/19/90)** | | |
| 6-301 | Ringelmann #1 Limitation | Y | |
| 6-305 | Visible Particles | Y | |
| 6-310.3 | Particulate Weight Limitation | Y | |
| **BAAQMD Regulation 9, Rule 10** | **Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon Monoxide from Boilers, Steam Generators, and Process Heaters in Petroleum Refineries (7/17/02)** | | |
| 9-10-301 | Emission Limit for Facility, NOx: 0.033 lb NOx/MMbtu | N | |
| 9-10-301.1 | ...Start-up/Shutdown Contribution | N | |
| 9-10-301.2 | ...Out-of-Service Units Contribution | N | |
| 9-10-301.3 | ...Test-firing on Non-gaseous fuel Contribution | N | |
| 9-10-303 | Federal Facility-wide NOx emission rate limit | Y | |
| 9-10-305 | CO emission limit | N | |
| 9-10-502 | Monitoring | Y | |
| 9-10-502.1 | CEMS for NOx, CO, and O2, or equivalent monitoring | N | |
| 9-10-502.2 | Fuel flowmeters | Y | |
| 9-10-504 | Recordkeeping | N | |
| 9-10-504.1 | Records | N | |
| 9-10-505 | Reporting | N | |
| 9-10-601 | Determination of NOx | N | |
| 9-10-602 | Determination of CO and Stack Gas O2 | N | |
| 9-10-603 | Compliance Determination | Y | |
| **40 CFR 60, Subpart A** | **General Provisions (2/12/98)** | | |
| 60.7(b) | Records | Y | |
| 60.7(c) | Notification and recordkeeping for continuous monitoring | Y | |
| 60.7(d) | Summary reports | Y | |
| 60.7(e) | Reduction of frequency of summary reports | Y | |
| 60.7(f) | Records | Y | |
| 60.7(g) | Alternative Notification | Y | |
| 60.7(h) | Specific Provisions | Y | |
| 60.8 | Performance Tests | Y | |
| 60.11 | Compliance with Standards and Maintenance Requirements | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – A.9
## Source-specific Applicable Requirements
## S11 – UNIT 240, B-201 HEATER

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| 60.11(a) | Compliance determined by performance tests | Y | |
| 60.11(d) | Control devices operated using good air pollution control practice | Y | |
| 60.13 | Monitoring requirements | Y | |
| 60.13(a) | Continuous monitoring systems subject to Appendix B, and Appendix F, (if used to demonstrate compliance with continuous emission limits), of Part 60 | Y | |
| 60.13(b) | Continuous monitoring systems and devices operational prior to performance tests required by 60.8 | Y | |
| 60.13(d)(1) | Continuous monitoring system zero and span calibration requirements | Y | |
| 60.13(e) | Continuous monitoring system minimum frequency of operation | Y | |
| 60.13(e)(2) | Continuous monitoring system minimum frequency of operation for non-opacity-measuring devices | Y | |
| 60.13(f) | Continuous monitoring system installation location requirement | Y | |
| **NSPS 40 CFR 60, Subpart J** | **Standards of Performance for Petroleum Refineries (7/1/00)** | | |
| 60.100 | Applicability | Y | |
| 60.104 | Standards for Sulfur Oxides: Compliance Schedule | Y | |
| 60.104(a)(1) | fuel gas H2S concentration limited to 230 mg/dscm (0.10 gr/dscf) except for gas burned as a result of process upset or gas burned at flares from relief valve leaks or other emergency malfunctions | Y | |
| 60.105 | Monitoring of Emissions and Operations | Y | |
| 60.105(a)(4) | monitoring requirement for H2S (dry basis) in fuel gas prior to combustion (in lieu of separate combustion device exhaust SO2 monitors as required by 60.105(a)(3)) | Y | |
| 60.105(e)(3)(ii) | Excess H2S emission definitions for 60.7(c) | Y | |
| 60.106(a) | Test methods and procedures | Y | |
| 60.106(e)(1) | Method 11 shall be used to verify compliance with 60.104(a)(1) | Y | |
| **NSPS 40 CFR 60, Appendix A** | **Appendix A to Part 60 – Test Methods** | Y | |
| **NSPS 40 CFR 60 Appendix B** | **Performance Specifications** | | |

# IV. Source Specific Applicable Requirements

## Table IV – A.9
## Source-specific Applicable Requirements
## S11 – UNIT 240, B-201 HEATER

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| Performance Specification 7 | H2S continuous emission monitoring systems | Y | |
| **BAAQMD Condition 1694** | | | |
| Part A.1b | Heat ratings, firing limits [Basis: Regulation 2-1-301] | Y | |
| Part A.2a | Fuel restrictions [Basis: Regulation 2, Rule 1] | Y | |
| Part A.3a | TRS testing requirement [Basis: SO2 Bubble] | Y | |
| Part A.3b | TRS reporting requirements [Basis: SO2 Bubble] | Y | |
| Part A.4 | SO2 emission limit [Basis: SO2 Bubble] | Y | |
| Part A.5 | Records [Basis: Regulation 2, Rule 1; SO2 Bubble; Regulation 2-6-409.2] | Y | |
| Part F.1 | Annual fuel firing limit at S8, S9, S10, S11, S12, S13, S14 [Basis: Cumulative Increase] | Y | |
| Part F.3 | Monthly fuel firing records [Basis: Recordkeeping] | Y | |
| **BAAQMD Condition 21235** | | | |
| Part 1 | Sources subject to Regulation 9-10–301 and 9-10-305 [Basis: Regulation 9-10-301, 9-10-305] | N | |
| Part 2 | O2 CEM requirement [Basis: Regulation 9-10-502] | N | |
| Part 3 | "NOx Box" requirement for sources without NOx CEMs [Basis: Regulation 9-10-502] | N | |
| Part 4 | "NOx Box" development procedure [Basis: Regulation 9-10-502] | N | |
| Part 5 | "NOx Box" parameters [Basis: Regulation 9-10-502] | N | |
| Part 6a | Allowed "NOx Box" deviations [Basis: Regulation 9-10-502] | N | |
| Part 6b | "NOx Box" deviation reporting requirement [Basis: Regulation 9-10-502] | N | |
| Part 7 | NOx, CO, O2 source test requirement for sources without NOx CEMs [Basis: Regulation 9-10-502] | N | |
| Part 9 | CO, O2 CEM requirement [Basis: Regulation 9-10-502, 1-522] | N | |
| Part 10 | Recordkeeping requirement [Basis: Regulation 9-10-504] | N | |

# IV. Source Specific Applicable Requirements

## Table IV – A.10
## Source-specific Applicable Requirements
## S12 – UNIT 240, B-202 HEATER

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| **BAAQMD Regulation 1** | **General Provisions and Definitions (7/17/06)** | | |
| 1-521 | Monitoring May Be Required | Y | |
| **BAAQMD Regulation 6** | **Particulate Matter and Visible Emissions (12/19/90)** | | |
| 6-301 | Ringelmann #1 Limitation | Y | |
| 6-305 | Visible Particles | Y | |
| 6-310.3 | Particulate Weight Limitation | Y | |
| **BAAQMD Regulation 9, Rule 10** | **Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon Monoxide from Boilers, Steam Generators, and Process Heaters in Petroleum Refineries (7/17/02)** | | |
| 9-10-301 | Emission Limit for Facility, NOx: 0.033 lb NOx/MMbtu | N | |
| 9-10-301.1 | ...Start-up/Shutdown Contribution | N | |
| 9-10-301.2 | ...Out-of-Service Units Contribution | N | |
| 9-10-301.3 | ...Test-firing on Non-gaseous fuel Contribution | N | |
| 9-10-303 | Federal Facility-wide NOx emission rate limit | Y | |
| 9-10-305 | CO emission limit | N | |
| 9-10-502 | Monitoring | Y | |
| 9-10-502.1 | CEMS for NOx, CO, and O2, or equivalent monitoring | N | |
| 9-10-502.2 | Fuel flowmeters | Y | |
| 9-10-504 | Recordkeeping | N | |
| 9-10-504.1 | Records | N | |
| 9-10-505 | Reporting | N | |
| 9-10-601 | Determination of NOx | N | |
| 9-10-602 | Determination of CO and Stack Gas O2 | N | |
| 9-10-603 | Compliance Determination | Y | |
| **40 CFR 60, Subpart A** | **General Provisions (2/12/98)** | | |
| 60.7(b) | Records | Y | |
| 60.7(c) | Notification and recordkeeping for continuous monitoring | Y | |
| 60.7(d) | Summary reports | Y | |
| 60.7(e) | Reduction of frequency of summary reports | Y | |
| 60.7(f) | Records | Y | |
| 60.7(g) | Alternative Notification | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – A.10
## Source-specific Applicable Requirements
## S12 – UNIT 240, B-202 HEATER

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| 60.7(h) | Specific Provisions | Y | |
| 60.8 | Performance Tests | Y | |
| 60.11 | Compliance with Standards and Maintenance Requirements | Y | |
| 60.11(a) | Compliance determined by performance tests | Y | |
| 60.11(d) | Control devices operated using good air pollution control practice | Y | |
| 60.13 | Monitoring requirements | Y | |
| 60.13(a) | Continuous monitoring systems subject to Appendix B, and Appendix F, (if used to demonstrate compliance with continuous emission limits), of Part 60 | Y | |
| 60.13(b) | Continuous monitoring systems and devices operational prior to performance tests required by 60.8 | Y | |
| 60.13(d)(1) | Continuous monitoring system zero and span calibration requirements | Y | |
| 60.13(e) | Continuous monitoring system minimum frequency of operation | Y | |
| 60.13(e)(2) | Continuous monitoring system minimum frequency of operation for non-opacity-measuring devices | Y | |
| 60.13(f) | Continuous monitoring system installation location requirement | Y | |
| **NSPS 40 CFR 60, Subpart J** | **Standards of Performance for Petroleum Refineries (7/1/00)** | | |
| 60.100 | Applicability | Y | |
| 60.104 | Standards for Sulfur Oxides: Compliance Schedule | Y | |
| 60.104(a)(1) | fuel gas H2S concentration limited to 230 mg/dscm (0.10 gr/dscf) except for gas burned as a result of process upset or gas burned at flares from relief valve leaks or other emergency malfunctions | Y | |
| 60.105 | Monitoring of Emissions and Operations | Y | |
| 60.105(a)(4) | monitoring requirement for H2S (dry basis) in fuel gas prior to combustion (in lieu of separate combustion device exhaust SO2 monitors as required by 60.105(a)(3)) | Y | |
| 60.105(e)(3)(ii) | Excess H2S emission definitions for 60.7(c) | Y | |
| 60.106(a) | Test methods and procedures | Y | |
| 60.106(e)(1) | Method 11 shall be used to verify compliance with 60.104(a)(1) | Y | |
| **NSPS 40 CFR 60, Appendix A** | **Appendix A to Part 60 – Test Methods** | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – A.10
## Source-specific Applicable Requirements
## S12 – UNIT 240, B-202 HEATER

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| **NSPS 40 CFR 60 Appendix B** | **Performance Specifications** | | |
| Performance Specification 7 | H2S continuous emission monitoring systems | Y | |
| **BAAQMD Condition 1694** | | | |
| Part A.1b | Heat ratings, firing limits [Basis: Regulation 2-1-301] | Y | |
| Part A.2a | Fuel restrictions [Basis: Regulation 2, Rule 1] | Y | |
| Part A.3a | TRS testing requirement [Basis: SO2 Bubble] | Y | |
| Part A.3b | TRS reporting requirements [Basis: SO2 Bubble] | Y | |
| Part A.4 | SO2 emission limit [Basis: SO2 Bubble] | Y | |
| Part A.5 | Records [Basis: Regulation 2, Rule 1; SO2 Bubble; Regulation 2-6-409.2] | Y | |
| Part F.1 | Annual fuel firing limit at S8, S9, S10, S11, S12, S13, S14 [Basis: Cumulative Increase] | Y | |
| Part F.3 | Monthly fuel firing records [Basis: Recordkeeping] | Y | |
| **BAAQMD Condition 21235** | | | |
| Part 1 | Sources subject to Regulation 9-10–301 and 9-10-305 [Basis: Regulation 9-10-301, 9-10-305] | N | |
| Part 2 | O2 CEM requirement [Basis: Regulation 9-10-502] | N | |
| Part 3 | "NOx Box" requirement for sources without NOx CEMs [Basis: Regulation 9-10-502] | N | |
| Part 4 | "NOx Box" development procedure [Basis: Regulation 9-10-502] | N | |
| Part 5 | "NOx Box" parameters [Basis: Regulation 9-10-502] | N | |
| Part 6a | Allowed "NOx Box" deviations [Basis: Regulation 9-10-502] | N | |
| Part 6b | "NOx Box" deviation reporting requirement [Basis: Regulation 9-10-502] | N | |
| Part 7 | NOx, CO, O2 source test requirement for sources without NOx CEMs [Basis: Regulation 9-10-502] | N | |
| Part 9 | CO, O2 CEM requirement [Basis: Regulation 9-10-502, 1-522] | N | |
| Part 10 | Recordkeeping requirement [Basis: Regulation 9-10-504] | N | |

# IV. Source Specific Applicable Requirements

## Table IV – A.11
## Source-specific Applicable Requirements
## S13 – UNIT 240, B-301 HEATER

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| **BAAQMD Regulation 1** | **General Provisions and Definitions (7/17/06)** | | |
| 1-521 | Monitoring May Be Required | Y | |
| 1-522 | Continuous Emission Monitoring and Recordkeeping Procedures | | |
| 1-522.4 | reporting of inoperative CEMs | Y | |
| 1-522.5 | CEM calibration requirements | Y | |
| 1-522.6 | CEM accuracy requirements | Y | |
| 1-522.7 | emission limit exceedance reporting requirements | N | |
| 1-522.8 | monitoring data submittal requirements | Y | |
| 1-522.9 | recordkeeping requirements | Y | |
| 1-522.10 | Regulation 1-521 monitors shall meet requirements specified by District | Y | |
| 1-602 | Area and Continuous Monitoring Requirements | N | |
| **SIP Regulation 1** | **PROVISIONS NO LONGER IN CURRENT RULE General Provisions and Definitions (6/28/99)** | | |
| 1-522 | Continuous Emission Monitoring and Recordkeeping Procedures | Y – note 1 | |
| 1-522.7 | emission limit exceedance reporting requirements | Y - note 1 | |
| **BAAQMD Regulation 6** | **Particulate Matter and Visible Emissions (12/19/90)** | | |
| 6-301 | Ringelmann #1 Limitation | Y | |
| 6-304 | Tube Cleaning | Y | |
| 6-305 | Visible Particles | Y | |
| 6-310.3 | Particulate Weight Limitation | Y | |
| **BAAQMD Manual of Procedures, Volume V** | **Continuous Emission Monitoring Policy and Procedures (1/20/82)** | Y | |
| **BAAQMD Regulation 9, Rule 10** | **Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon Monoxide from Boilers, Steam Generators, and Process Heaters in Petroleum Refineries (7/17/02)** | | |
| 9-10-301 | Emission Limit for Facility, NOx: 0.033 lb NOx/MMbtu | N | |
| 9-10-301.1 | ...Start-up/Shutdown Contribution | N | |
| 9-10-301.2 | ...Out-of-Service Units Contribution | N | |

# IV. Source Specific Applicable Requirements

## Table IV – A.11
## Source-specific Applicable Requirements
## S13 – UNIT 240, B-301 HEATER

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| 9-10-301.3 | ...Test-firing on Non-gaseous fuel Contribution | N | |
| 9-10-303 | Federal Facility-wide NOx emission rate limit | Y | |
| 9-10-305 | CO emission limit | N | |
| 9-10-502 | Monitoring | Y | |
| 9-10-502.1 | CEMS for NOx, CO, and O2 or equivalent monitoring | N | |
| 9-10-502.2 | Fuel flowmeters | Y | |
| 9-10-504 | Recordkeeping | N | |
| 9-10-504.1 | Records | N | |
| 9-10-505 | Reporting | N | |
| 9-10-601 | Determination of NOx | N | |
| 9-10-602 | Determination of CO and Stack Gas O2 | N | |
| 9-10-603 | Compliance Determination | Y | |
| **40 CFR 60, Subpart A** | **General Provisions (2/12/98)** | | |
| 60.7(b) | Records | Y | |
| 60.7(c) | Notification and recordkeeping for continuous monitoring | Y | |
| 60.7(d) | Summary reports | Y | |
| 60.7(e) | Reduction of frequency of summary reports | Y | |
| 60.7(f) | Records | Y | |
| 60.7(g) | Alternative Notification | Y | |
| 60.7(h) | Specific Provisions | Y | |
| 60.8 | Performance Tests | Y | |
| 60.11 | Compliance with Standards and Maintenance Requirements | Y | |
| 60.11(a) | Compliance determined by performance tests | Y | |
| 60.11(d) | Control devices operated using good air pollution control practice | Y | |
| 60.13 | Monitoring requirements | Y | |
| 60.13(a) | Continuous monitoring systems subject to Appendix B, and Appendix F, (if used to demonstrate compliance with continuous emission limits), of Part 60 | Y | |
| 60.13(b) | Continuous monitoring systems and devices operational prior to performance tests required by 60.8 | Y | |
| 60.13(d)(1) | Continuous monitoring system zero and span calibration requirements | Y | |
| 60.13(e) | Continuous monitoring system minimum frequency of operation | Y | |
| 60.13(e)(2) | Continuous monitoring system minimum frequency of operation for non-opacity-measuring devices | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – A.11
## Source-specific Applicable Requirements
## S13 – UNIT 240, B-301 HEATER

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| 60.13(f) | Continuous monitoring system installation location requirement | Y | |
| **NSPS 40 CFR 60, Subpart J** | **Standards of Performance for Petroleum Refineries (7/1/00)** | | |
| 60.100 | Applicability | Y | |
| 60.104 | Standards for Sulfur Oxides: Compliance Schedule | Y | |
| 60.104(a)(1) | fuel gas H2S concentration limited to 230 mg/dscm (0.10 gr/dscf) except for gas burned as a result of process upset or gas burned at flares from relief valve leaks or other emergency malfunctions | Y | |
| 60.105 | Monitoring of Emissions and Operations | Y | |
| 60.105(a)(4) | monitoring requirement for H2S (dry basis) in fuel gas prior to combustion (in lieu of separate combustion device exhaust SO2 monitors as required by 60.105(a)(3)) | Y | |
| 60.105(e)(3)(ii) | Excess H2S emission definitions for 60.7(c) | Y | |
| 60.106(a) | Test methods and procedures | Y | |
| 60.106(e)(1) | Method 11 shall be used to verify compliance with 60.104(a)(1) | Y | |
| **NSPS 40 CFR 60, Appendix A** | **Appendix A to Part 60 – Test Methods** | Y | |
| **NSPS 40 CFR 60 Appendix B** | **Performance Specifications** | | |
| Performance Specification 7 | H2S continuous emission monitoring systems | Y | |
| **BAAQMD Condition 1694** | | | |
| Part A.1b | Heat ratings, firing limits [Basis: Regulation 2-1-301] | Y | |
| Part A.2a | Fuel restrictions [Basis: Regulation 2, Rule 1] | Y | |
| Part A.3a | TRS testing requirement [Basis: SO2 Bubble] | Y | |
| Part A.3b | TRS reporting requirements [Basis: SO2 Bubble] | Y | |
| Part A.4 | SO2 emission limit [Basis: SO2 Bubble] | Y | |
| Part A.5 | Records [Basis: Regulation 2, Rule 1; SO2 Bubble; Regulation 2-6-409.2] | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – A.11
## Source-specific Applicable Requirements
## S13 – UNIT 240, B-301 HEATER

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| Part F.1 | Annual fuel firing limit at S8, S9, S10, S11, S12, S13, S14 [Basis: Cumulative Increase] | Y | |
| Part F.3 | Monthly fuel firing records [Basis: Recordkeeping] | Y | |
| **BAAQMD Condition 21235** | | | |
| Part 1 | Sources subject to Regulation 9-10–301 and 9-10-305 [Basis: Regulation 9-10-301, 9-10-305] | N | |
| Part 2 | O2 CEM requirement [Basis: Regulation 9-10-502] | N | |
| Part 8 | CO source test requirement for sources with NOx CEMs [Basis: Regulation 9-10-502] | N | |
| Part 9 | CO, O2 CEM requirement [Basis: Regulation 9-10-502, 1-522] | N | |
| Part 10 | Recordkeeping requirement [Basis: Regulation 9-10-504] | N | |

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

# IV. Source Specific Applicable Requirements

## Table IV – A.12
## Source-specific Applicable Requirements
## S14 – UNIT 240, B-401 HEATER

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| **BAAQMD Regulation 1** | **General Provisions and Definitions (7/17/06)** | | |
| 1-521 | Monitoring May Be Required | Y | |
| 1-522 | Continuous Emission Monitoring and Recordkeeping Procedures | | |
| 1-522.4 | reporting of inoperative CEMs | Y | |
| 1-522.5 | CEM calibration requirements | Y | |
| 1-522.6 | CEM accuracy requirements | Y | |
| 1-522.7 | emission limit exceedance reporting requirements | N | |
| 1-522.8 | monitoring data submittal requirements | Y | |
| 1-522.9 | recordkeeping requirements | Y | |
| 1-522.10 | Regulation 1-521 monitors shall meet requirements specified by District | Y | |
| 1-602 | Area and Continuous Monitoring Requirements | N | |
| **SIP Regulation 1** | **PROVISIONS NO LONGER IN CURRENT RULE General Provisions and Definitions (6/28/99)** | | |
| 1-522 | Continuous Emission Monitoring and Recordkeeping Procedures | Y – note 1 | |
| 1-522.7 | emission limit exceedance reporting requirements | Y - note 1 | |
| **BAAQMD Regulation 6** | **Particulate Matter and Visible Emissions (12/19/90)** | | |
| 6-301 | Ringelmann #1 Limitation | Y | |
| 6-304 | Tube Cleaning | Y | |
| 6-305 | Visible Particles | Y | |
| 6-310.3 | Particulate Weight Limitation | Y | |
| **BAAQMD Manual of Procedures, Volume V** | **Continuous Emission Monitoring Policy and Procedures (1/20/82)** | Y | |
| **BAAQMD Regulation 9, Rule 10** | **Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon Monoxide from Boilers, Steam Generators, and Process Heaters in Petroleum Refineries (7/17/02)** | | |
| 9-10-301 | Emission Limit for Facility, NOx: 0.033 lb NOx/MMbtu | N | |
| 9-10-301.1 | ...Start-up/Shutdown Contribution | N | |
| 9-10-301.2 | ...Out-of-Service Units Contribution | N | |
| 9-10-301.3 | ...Test-firing on Non-gaseous fuel Contribution | N | |

# IV. Source Specific Applicable Requirements

## Table IV – A.12
## Source-specific Applicable Requirements
## S14 – UNIT 240, B-401 HEATER

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| 9-10-303 | Federal Facility-wide NOx emission rate limit | Y | |
| 9-10-305 | CO emission limit | N | |
| 9-10-502 | Monitoring | Y | |
| 9-10-502.1 | CEMS for NOx, CO, and O2 or equivalent monitoring | N | |
| 9-10-502.2 | Fuel flowmeters | Y | |
| 9-10-504 | Recordkeeping | N | |
| 9-10-504.1 | Records | N | |
| 9-10-505 | Reporting | N | |
| 9-10-601 | Determination of NOx | N | |
| 9-10-602 | Determination of CO and Stack Gas O2 | N | |
| 9-10-603 | Compliance Determination | Y | |
| **40 CFR 60, Subpart A** | **General Provisions (2/12/98)** | | |
| 60.7(b) | Records | Y | |
| 60.7(c) | Notification and recordkeeping for continuous monitoring | Y | |
| 60.7(d) | Summary reports | Y | |
| 60.7(e) | Reduction of frequency of summary reports | Y | |
| 60.7(f) | Records | Y | |
| 60.7(g) | Alternative Notification | Y | |
| 60.7(h) | Specific Provisions | Y | |
| 60.8 | Performance Tests | Y | |
| 60.11 | Compliance with Standards and Maintenance Requirements | Y | |
| 60.11(a) | Compliance determined by performance tests | Y | |
| 60.11(d) | Control devices operated using good air pollution control practice | Y | |
| 60.13 | Monitoring requirements | Y | |
| 60.13(a) | Continuous monitoring systems subject to Appendix B, and Appendix F, (if used to demonstrate compliance with continuous emission limits), of Part 60 | Y | |
| 60.13(b) | Continuous monitoring systems and devices operational prior to performance tests required by 60.8 | Y | |
| 60.13(d)(1) | Continuous monitoring system zero and span calibration requirements | Y | |
| 60.13(e) | Continuous monitoring system minimum frequency of operation | Y | |
| 60.13(e)(2) | Continuous monitoring system minimum frequency of operation for non-opacity-measuring devices | Y | |
| 60.13(f) | Continuous monitoring system installation location requirement | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – A.12
## Source-specific Applicable Requirements
## S14 – UNIT 240, B-401 HEATER

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| **NSPS 40 CFR 60, Subpart J** | **Standards of Performance for Petroleum Refineries (7/1/00)** | | |
| 60.100 | Applicability | Y | |
| 60.104 | Standards for Sulfur Oxides: Compliance Schedule | Y | |
| 60.104(a)(1) | fuel gas H2S concentration limited to 230 mg/dscm (0.10 gr/dscf) except for gas burned as a result of process upset or gas burned at flares from relief valve leaks or other emergency malfunctions | Y | |
| 60.105 | Monitoring of Emissions and Operations | Y | |
| 60.105(a)(4) | monitoring requirement for H2S (dry basis) in fuel gas prior to combustion (in lieu of separate combustion device exhaust SO2 monitors as required by 60.105(a)(3)) | Y | |
| 60.105(e)(3)(ii) | Excess H2S emission definitions for 60.7(c) | Y | |
| 60.106(a) | Test methods and procedures | Y | |
| 60.106(e)(1) | Method 11 shall be used to verify compliance with 60.104(a)(1) | Y | |
| **NSPS 40 CFR 60, Appendix A** | **Appendix A to Part 60 – Test Methods** | Y | |
| **NSPS 40 CFR 60 Appendix B** | **Performance Specifications** | | |
| Performance Specification 7 | H2S continuous emission monitoring systems | Y | |
| **BAAQMD Condition 1694** | | | |
| Part A.1b | Heat ratings, firing limits [Basis: Regulation 2-1-301] | Y | |
| Part A.2a | Fuel restrictions [Basis: Regulation 2, Rule 1] | Y | |
| Part A.3a | TRS testing requirement [Basis: SO2 Bubble] | Y | |
| Part A.3b | TRS reporting requirements [Basis: SO2 Bubble] | Y | |
| Part A.4 | SO2 emission limit [Basis: SO2 Bubble] | Y | |
| Part A.5 | Records [Basis: Regulation 2, Rule 1; SO2 Bubble; Regulation 2-6-409.2] | Y | |
| Part F.1 | Annual fuel firing limit at S8, S9, S10, S11, S12, S13, S14 [Basis: | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – A.12
## Source-specific Applicable Requirements
## S14 – UNIT 240, B-401 HEATER

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| | Cumulative Increase] | | |
| Part F.3 | Monthly fuel firing records [Basis: Recordkeeping] | Y | |
| **BAAQMD Condition 21235** | | | |
| Part 1 | Sources subject to Regulation 9-10–301 and 9-10-305 [Basis: Regulation 9-10-301, 9-10-305] | N | |
| Part 2 | O2 CEM requirement [Basis: Regulation 9-10-502] | N | |
| Part 8 | CO source test requirement for sources with NOx CEMs [Basis: Regulation 9-10-502] | N | |
| Part 9 | CO, O2 CEM requirement [Basis: Regulation 9-10-502, 1-522] | N | |
| Part 10 | Recordkeeping requirement [Basis: Regulation 9-10-504] | N | |

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

## Table IV – A.13
## Source-specific Applicable Requirements
## S15 – UNIT 244, B-501 HEATER

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| **BAAQMD Regulation 1** | **General Provisions and Definitions (7/17/06)** | | |
| 1-107 | Combination of Emissions | Y | |
| 1-521 | Monitoring May Be Required | Y | |
| 1-522 | Continuous Emission Monitoring and Recordkeeping Procedures | | |
| 1-522.4 | reporting of inoperative CEMs | Y | |
| 1-522.5 | CEM calibration requirements | Y | |
| 1-522.6 | CEM accuracy requirements | Y | |
| 1-522.7 | emission limit exceedance reporting requirements | N | |
| 1-522.8 | monitoring data submittal requirements | Y | |
| 1-522.9 | recordkeeping requirements | Y | |
| 1-522.10 | Regulation 1-521 monitors shall meet requirements specified by | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – A.13
## Source-specific Applicable Requirements
## S15 – UNIT 244, B-501 HEATER

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| | District | | |
| 1-602 | Area and Continuous Monitoring Requirements | N | |
| **SIP Regulation 1** | **PROVISIONS NO LONGER IN CURRENT RULE General Provisions and Definitions (6/28/99)** | | |
| 1-522 | Continuous Emission Monitoring and Recordkeeping Procedures | Y – note 1 | |
| 1-522.7 | emission limit exceedance reporting requirements | Y - note 1 | |
| **BAAQMD Regulation 6** | **Particulate Matter and Visible Emissions (12/19/90)** | | |
| 6-301 | Ringelmann #1 Limitation | Y | |
| 6-305 | Visible Particles | Y | |
| 6-310.3 | Particulate Weight Limitation | Y | |
| **BAAQMD Manual of Procedures, Volume V** | **Continuous Emission Monitoring Policy and Procedures (1/20/82)** | Y | |
| **BAAQMD Regulation 9, Rule 10** | **Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon Monoxide from Boilers, Steam Generators, and Process Heaters in Petroleum Refineries (7/17/02)** | | |
| 9-10-301 | Emission Limit for Facility, NOx: 0.033 lb NOx/MMbtu | N | |
| 9-10-301.1 | ...Start-up/Shutdown Contribution | N | |
| 9-10-301.2 | ...Out-of-Service Units Contribution | N | |
| 9-10-301.3 | ...Test-firing on Non-gaseous fuel Contribution | N | |
| 9-10-303 | Federal Facility-wide NOx emission rate limit | Y | |
| 9-10-305 | CO emission limit | N | |
| 9-10-502 | Monitoring | Y | |
| 9-10-502.1 | CEMS for NOx, CO, and O2, or equivalent monitoring | N | |
| 9-10-502.2 | Fuel flowmeters | Y | |
| 9-10-504 | Recordkeeping | N | |
| 9-10-504.1 | Records | N | |
| 9-10-505 | Reporting | N | |
| 9-10-601 | Determination of NOx | N | |
| 9-10-602 | Determination of CO and Stack Gas O2 | N | |
| 9-10-603 | Compliance Determination | Y | |
| **40 CFR 60,** | **General Provisions (2/12/98)** | | |

# IV. Source Specific Applicable Requirements

## Table IV – A.13
## Source-specific Applicable Requirements
## S15 – UNIT 244, B-501 HEATER

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| **Subpart A** | | | |
| 60.7(b) | Records | Y | |
| 60.7(c) | Notification and recordkeeping for continuous monitoring | Y | |
| 60.7(d) | Summary reports | Y | |
| 60.7(e) | Reduction of frequency of summary reports | Y | |
| 60.7(f) | Records | Y | |
| 60.7(g) | Alternative Notification | Y | |
| 60.7(h) | Specific Provisions | Y | |
| 60.8 | Performance Tests | Y | |
| 60.11 | Compliance with Standards and Maintenance Requirements | Y | |
| 60.11(a) | Compliance determined by performance tests | Y | |
| 60.11(d) | Control devices operated using good air pollution control practice | Y | |
| 60.13 | Monitoring requirements | Y | |
| 60.13(a) | Continuous monitoring systems subject to Appendix B, and Appendix F, (if used to demonstrate compliance with continuous emission limits), of Part 60 | Y | |
| 60.13(b) | Continuous monitoring systems and devices operational prior to performance tests required by 60.8 | Y | |
| 60.13(d)(1) | Continuous monitoring system zero and span calibration requirements | Y | |
| 60.13(e) | Continuous monitoring system minimum frequency of operation | Y | |
| 60.13(e)(2) | Continuous monitoring system minimum frequency of operation for non-opacity-measuring devices | Y | |
| 60.13(f) | Continuous monitoring system installation location requirement | Y | |
| **NSPS 40 CFR 60, Subpart J** | **Standards of Performance for Petroleum Refineries (7/1/00)** | | |
| 60.100 | Applicability | Y | |
| 60.104 | Standards for Sulfur Oxides: Compliance Schedule | Y | |
| 60.104(a)(1) | fuel gas H2S concentration limited to 230 mg/dscm (0.10 gr/dscf) except for gas burned as a result of process upset or gas burned at flares from relief valve leaks or other emergency malfunctions | Y | |
| 60.105 | Monitoring of Emissions and Operations | Y | |
| 60.105(a)(4) | monitoring requirement for H2S (dry basis) in fuel gas prior to combustion (in lieu of separate combustion device exhaust SO2 monitors as required by 60.105(a)(3)) | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – A.13
## Source-specific Applicable Requirements
## S15 – UNIT 244, B-501 HEATER

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| 60.105(e)(3)(ii) | Excess H2S emission definitions for 60.7(c) | Y | |
| 60.106(a) | Test methods and procedures | Y | |
| 60.106(e)(1) | Method 11 shall be used to verify compliance with 60.104(a)(1) | Y | |
| **NSPS 40 CFR 60, Appendix A** | **Appendix A to Part 60 – Test Methods** | Y | |
| **NSPS 40 CFR 60 Appendix B** | **Performance Specifications** | | |
| Performance Specification 7 | H2S continuous emission monitoring systems | Y | |
| **BAAQMD Condition 1694** | | | |
| Part A.1b | Heat ratings, firing limits [Basis: Regulation 2-1-301] | Y | |
| Part A.2a | Fuel restrictions [Basis: Regulation 2, Rule 1] | Y | |
| Part A.3a | TRS testing requirement [Basis: SO2 Bubble] | Y | |
| Part A.3b | TRS reporting requirements [Basis: SO2 Bubble] | Y | |
| Part A.4 | SO2 emission limit [Basis: SO2 Bubble] | Y | |
| Part A.5 | Records [Basis: Regulation 2, Rule 1; SO2 Bubble; Regulation 2-6-409.2] | Y | |
| **BAAQMD Condition 20989, Part A** | Throughput limit for S15, S16, S17, S18 and S19 [Basis: 2-1-234.3] | Y | |
| **BAAQMD Condition 21235** | | | |
| Part 1 | Sources subject to Regulation 9-10–301 and 9-10-305 [Basis: Regulation 9-10-301, 9-10-305] | N | |
| Part 2 | O2 CEM requirement [Basis: Regulation 9-10-502] | N | |
| Part 8 | CO source test requirement for sources with NOx CEMs [Basis: Regulation 9-10-502] | N | |
| Part 9 | CO, O2 CEM requirement [Basis: Regulation 9-10-502, 1-522] | N | |
| Part 10 | Recordkeeping requirement [Basis: Regulation 9-10-504] | N | |

# IV. Source Specific Applicable Requirements

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

## Table IV – A.14
## Source-specific Applicable Requirements
## S16 – UNIT 244, B-502 HEATER

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| **BAAQMD Regulation 1** | **General Provisions and Definitions (7/17/06)** | | |
| 1-107 | Combination of Emissions | Y | |
| 1-521 | Monitoring May Be Required | Y | |
| 1-522 | Continuous Emission Monitoring and Recordkeeping Procedures | | |
| 1-522.4 | reporting of inoperative CEMs | Y | |
| 1-522.5 | CEM calibration requirements | Y | |
| 1-522.6 | CEM accuracy requirements | Y | |
| 1-522.7 | emission limit exceedance reporting requirements | N | |
| 1-522.8 | monitoring data submittal requirements | Y | |
| 1-522.9 | recordkeeping requirements | Y | |
| 1-522.10 | Regulation 1-521 monitors shall meet requirements specified by District | Y | |
| 1-602 | Area and Continuous Monitoring Requirements | N | |
| **SIP Regulation 1** | **PROVISIONS NO LONGER IN CURRENT RULE General Provisions and Definitions (6/28/99)** | | |
| 1-522 | Continuous Emission Monitoring and Recordkeeping Procedures | Y – note 1 | |
| 1-522.7 | emission limit exceedance reporting requirements | Y - note 1 | |
| **BAAQMD Regulation 6** | **Particulate Matter and Visible Emissions (12/19/90)** | | |
| 6-301 | Ringelmann #1 Limitation | Y | |
| 6-305 | Visible Particles | Y | |
| 6-310.3 | Particulate Weight Limitation | Y | |
| **BAAQMD Manual of Procedures, Volume V** | **Continuous Emission Monitoring Policy and Procedures (1/20/82)** | Y | |
| **BAAQMD Regulation 9, Rule 10** | **Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon Monoxide from Boilers, Steam Generators, and Process Heaters in Petroleum Refineries (7/17/02)** | | |

# IV. Source Specific Applicable Requirements

## Table IV – A.14
## Source-specific Applicable Requirements
## S16 – UNIT 244, B-502 HEATER

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| 9-10-301 | Emission Limit for Facility, NOx: 0.033 lb NOx/MMbtu | N | |
| 9-10-301.1 | ...Start-up/Shutdown Contribution | N | |
| 9-10-301.2 | ...Out-of-Service Units Contribution | N | |
| 9-10-301.3 | ...Test-firing on Non-gaseous fuel Contribution | N | |
| 9-10-303 | Federal Facility-wide NOx emission rate limit | Y | |
| 9-10-305 | CO emission limit | N | |
| 9-10-502 | Monitoring | Y | |
| 9-10-502.1 | CEMS for NOx, CO, and O2, or equivalent monitoring | N | |
| 9-10-502.2 | Fuel flowmeters | Y | |
| 9-10-504 | Recordkeeping | N | |
| 9-10-504.1 | Records | N | |
| 9-10-505 | Reporting | N | |
| 9-10-601 | Determination of NOx | N | |
| 9-10-602 | Determination of CO and Stack Gas O2 | N | |
| 9-10-603 | Compliance Determination | Y | |
| **40 CFR 60, Subpart A** | **General Provisions (2/12/98)** | | |
| 60.7(b) | Records | Y | |
| 60.7(c) | Notification and recordkeeping for continuous monitoring | Y | |
| 60.7(d) | Summary reports | Y | |
| 60.7(e) | Reduction of frequency of summary reports | Y | |
| 60.7(f) | Records | Y | |
| 60.7(g) | Alternative Notification | Y | |
| 60.7(h) | Specific Provisions | Y | |
| 60.8 | Performance Tests | Y | |
| 60.11 | Compliance with Standards and Maintenance Requirements | Y | |
| 60.11(a) | Compliance determined by performance tests | Y | |
| 60.11(d) | Control devices operated using good air pollution control practice | Y | |
| 60.13 | Monitoring requirements | Y | |
| 60.13(a) | Continuous monitoring systems subject to Appendix B, and Appendix F, (if used to demonstrate compliance with continuous emission limits), of Part 60 | Y | |
| 60.13(b) | Continuous monitoring systems and devices operational prior to performance tests required by 60.8 | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – A.14
## Source-specific Applicable Requirements
## S16 – UNIT 244, B-502 HEATER

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| 60.13(d)(1) | Continuous monitoring system zero and span calibration requirements | Y | |
| 60.13(e) | Continuous monitoring system minimum frequency of operation | Y | |
| 60.13(e)(2) | Continuous monitoring system minimum frequency of operation for non-opacity-measuring devices | Y | |
| 60.13(f) | Continuous monitoring system installation location requirement | Y | |
| **NSPS 40 CFR 60, Subpart J** | **Standards of Performance for Petroleum Refineries (7/1/00)** | | |
| 60.100 | Applicability | Y | |
| 60.104 | Standards for Sulfur Oxides: Compliance Schedule | Y | |
| 60.104(a)(1) | fuel gas H2S concentration limited to 230 mg/dscm (0.10 gr/dscf) except for gas burned as a result of process upset or gas burned at flares from relief valve leaks or other emergency malfunctions | Y | |
| 60.105 | Monitoring of Emissions and Operations | Y | |
| 60.105(a)(4) | monitoring requirement for H2S (dry basis) in fuel gas prior to combustion (in lieu of separate combustion device exhaust SO2 monitors as required by 60.105(a)(3)) | Y | |
| 60.105(e)(3)(ii) | Excess H2S emission definitions for 60.7(c) | Y | |
| 60.106(a) | Test methods and procedures | Y | |
| 60.106(e)(1) | Method 11 shall be used to verify compliance with 60.104(a)(1) | Y | |
| **NSPS 40 CFR 60, Appendix A** | **Appendix A to Part 60 – Test Methods** | Y | |
| **NSPS 40 CFR 60 Appendix B** | **Performance Specifications** | | |
| Performance Specification 7 | H2S continuous emission monitoring systems | Y | |
| **BAAQMD Condition 1694** | | | |
| Part A.1b | Heat ratings, firing limits [Basis: Regulation 2-1-301] | Y | |
| Part A.2a | Fuel restrictions [Basis: Regulation 2, Rule 1] | Y | |
| Part A.3a | TRS testing requirement [Basis: SO2 Bubble] | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – A.14
## Source-specific Applicable Requirements
## S16 – UNIT 244, B-502 HEATER

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| Part A.3b | TRS reporting requirements [Basis: SO2 Bubble] | Y | |
| Part A.4 | SO2 emission limit [Basis: SO2 Bubble] | Y | |
| Part A.5 | Records [Basis: Regulation 2, Rule 1; SO2 Bubble; Regulation 2-6-409.2] | Y | |
| **BAAQMD Condition 20989, Part A** | Throughput limits for S15, S16, S17, S18 and S19 [Basis: 2-1-234.3] | Y | |
| **BAAQMD Condition 21235** | | | |
| Part 1 | Sources subject to Regulation 9-10–301 and 9-10-305 [Basis: Regulation 9-10-301, 9-10-305] | N | |
| Part 2 | O2 CEM requirement [Basis: Regulation 9-10-502] | N | |
| Part 8 | CO source test requirement for sources with NOx CEMs [Basis: Regulation 9-10-502] | N | |
| Part 9 | CO, O2 CEM requirement [Basis: Regulation 9-10-502, 1-522] | N | |
| Part 10 | Recordkeeping requirement [Basis: Regulation 9-10-504] | N | |

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

## Table IV – A.15
## Source-specific Applicable Requirements
## S17 – UNIT 244, B-503 HEATER

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| **BAAQMD Regulation 1** | **General Provisions and Definitions (7/17/06)** | | |
| 1-107 | Combination of Emissions | Y | |
| 1-521 | Monitoring May Be Required | Y | |
| 1-522 | Continuous Emission Monitoring and Recordkeeping Procedures | | |
| 1-522.4 | reporting of inoperative CEMs | Y | |
| 1-522.5 | CEM calibration requirements | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – A.15
## Source-specific Applicable Requirements
## S17 – UNIT 244, B-503 HEATER

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| 1-522.6 | CEM accuracy requirements | Y | |
| 1-522.7 | emission limit exceedance reporting requirements | N | |
| 1-522.8 | monitoring data submittal requirements | Y | |
| 1-522.9 | recordkeeping requirements | Y | |
| 1-522.10 | Regulation 1-521 monitors shall meet requirements specified by District | Y | |
| 1-602 | Area and Continuous Monitoring Requirements | N | |
| **SIP Regulation 1** | **PROVISIONS NO LONGER IN CURRENT RULE General Provisions and Definitions (6/28/99)** | | |
| 1-522 | Continuous Emission Monitoring and Recordkeeping Procedures | Y – note 1 | |
| 1-522.7 | emission limit exceedance reporting requirements | Y - note 1 | |
| **BAAQMD Regulation 6** | **Particulate Matter and Visible Emissions (12/19/90)** | | |
| 6-301 | Ringelmann #1 Limitation | Y | |
| 6-305 | Visible Particles | Y | |
| 6-310.3 | Particulate Weight Limitation | Y | |
| **BAAQMD Manual of Procedures, Volume V** | **Continuous Emission Monitoring Policy and Procedures (1/20/82)** | Y | |
| **BAAQMD Regulation 9, Rule 10** | **Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon Monoxide from Boilers, Steam Generators, and Process Heaters in Petroleum Refineries (7/17/02)** | | |
| 9-10-301 | Emission Limit for Facility, NOx: 0.033 lb NOx/MMbtu | N | |
| 9-10-301.1 | ...Start-up/Shutdown Contribution | N | |
| 9-10-301.2 | ...Out-of-Service Units Contribution | N | |
| 9-10-301.3 | ...Test-firing on Non-gaseous fuel Contribution | N | |
| 9-10-303 | Federal Facility-wide NOx emission rate limit | Y | |
| 9-10-305 | CO emission limit | N | |
| 9-10-502 | Monitoring | Y | |
| 9-10-502.1 | CEMS for NOx, CO, and O2, or equivalent monitoring | N | |
| 9-10-502.2 | Fuel flowmeters | Y | |
| 9-10-504 | Recordkeeping | N | |
| 9-10-504.1 | Records | N | |

# IV. Source Specific Applicable Requirements

## Table IV – A.15
## Source-specific Applicable Requirements
## S17 – UNIT 244, B-503 HEATER

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| 9-10-505 | Reporting | N | |
| 9-10-601 | Determination of NOx | N | |
| 9-10-602 | Determination of CO and Stack Gas O2 | N | |
| 9-10-603 | Compliance Determination | Y | |
| **40 CFR 60, Subpart A** | **General Provisions (2/12/98)** | | |
| 60.7(b) | Records | Y | |
| 60.7(c) | Notification and recordkeeping for continuous monitoring | Y | |
| 60.7(d) | Summary reports | Y | |
| 60.7(e) | Reduction of frequency of summary reports | Y | |
| 60.7(f) | Records | Y | |
| 60.7(g) | Alternative Notification | Y | |
| 60.7(h) | Specific Provisions | Y | |
| 60.8 | Performance Tests | Y | |
| 60.11 | Compliance with Standards and Maintenance Requirements | Y | |
| 60.11(a) | Compliance determined by performance tests | Y | |
| 60.11(d) | Control devices operated using good air pollution control practice | Y | |
| 60.13 | Monitoring requirements | Y | |
| 60.13(a) | Continuous monitoring systems subject to Appendix B, and Appendix F, (if used to demonstrate compliance with continuous emission limits), of Part 60 | Y | |
| 60.13(b) | Continuous monitoring systems and devices operational prior to performance tests required by 60.8 | Y | |
| 60.13(d)(1) | Continuous monitoring system zero and span calibration requirements | Y | |
| 60.13(e) | Continuous monitoring system minimum frequency of operation | Y | |
| 60.13(e)(2) | Continuous monitoring system minimum frequency of operation for non-opacity-measuring devices | Y | |
| 60.13(f) | Continuous monitoring system installation location requirement | Y | |
| **NSPS 40 CFR 60, Subpart J** | **Standards of Performance for Petroleum Refineries (7/1/00)** | | |
| 60.100 | Applicability | Y | |
| 60.104 | Standards for Sulfur Oxides: Compliance Schedule | Y | |
| 60.104(a)(1) | fuel gas H2S concentration limited to 230 mg/dscm (0.10 gr/dscf) except for gas burned as a result of process upset or gas burned at | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – A.15
## Source-specific Applicable Requirements
## S17 – UNIT 244, B-503 HEATER

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| | flares from relief valve leaks or other emergency malfunctions | | |
| 60.105 | Monitoring of Emissions and Operations | Y | |
| 60.105(a)(4) | monitoring requirement for H2S (dry basis) in fuel gas prior to combustion (in lieu of separate combustion device exhaust SO2 monitors as required by 60.105(a)(3)) | Y | |
| 60.105(e)(3)(ii) | Excess H2S emission definitions for 60.7(c) | Y | |
| 60.106(a) | Test methods and procedures | Y | |
| 60.106(e)(1) | Method 11 shall be used to verify compliance with 60.104(a)(1) | Y | |
| **NSPS 40 CFR 60, Appendix A** | **Appendix A to Part 60 – Test Methods** | Y | |
| **NSPS 40 CFR 60 Appendix B** | **Performance Specifications** | | |
| Performance Specification 7 | H2S continuous emission monitoring systems | Y | |
| **BAAQMD Condition 1694** | | | |
| Part A.1b | Heat ratings, firing limits [Basis: Regulation 2-1-301] | Y | |
| Part A.2a | Fuel restrictions [Basis: Regulation 2, Rule 1] | Y | |
| Part A.3a | TRS testing requirement [Basis: SO2 Bubble] | Y | |
| Part A.3b | TRS reporting requirements [Basis: SO2 Bubble] | Y | |
| Part A.4 | SO2 emission limit [Basis: SO2 Bubble] | Y | |
| Part A.5 | Records [Basis: Regulation 2, Rule 1; SO2 Bubble; Regulation 2-6-409.2] | Y | |
| **BAAQMD Condition 20989, Part A** | Throughput limits for S15, S16, S17, S18 and S19 [Basis: 2-1-234.3] | Y | |
| **BAAQMD Condition 21235** | | | |
| Part 1 | Sources subject to Regulation 9-10–301 and 9-10-305 [Basis: Regulation 9-10-301, 9-10-305] | N | |

# IV. Source Specific Applicable Requirements

## Table IV – A.15
## Source-specific Applicable Requirements
## S17 – UNIT 244, B-503 HEATER

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| Part 2 | O2 CEM requirement [Basis: Regulation 9-10-502] | N | |
| Part 8 | CO source test requirement for sources with NOx CEMs [Basis: Regulation 9-10-502] | N | |
| Part 9 | CO, O2 CEM requirement [Basis: Regulation 9-10-502, 1-522] | N | |
| Part 10 | Recordkeeping requirement [Basis: Regulation 9-10-504] | N | |

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

## Table IV – A.16
## Source-specific Applicable Requirements
## S18 – UNIT 244, B-504 HEATER

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| **BAAQMD Regulation 1** | **General Provisions and Definitions (7/17/06)** | | |
| 1-107 | Combination of Emissions | Y | |
| 1-521 | Monitoring May Be Required | Y | |
| 1-522 | Continuous Emission Monitoring and Recordkeeping Procedures | | |
| 1-522.4 | reporting of inoperative CEMs | Y | |
| 1-522.5 | CEM calibration requirements | Y | |
| 1-522.6 | CEM accuracy requirements | Y | |
| 1-522.7 | emission limit exceedance reporting requirements | N | |
| 1-522.8 | monitoring data submittal requirements | Y | |
| 1-522.9 | recordkeeping requirements | Y | |
| 1-522.10 | Regulation 1-521 monitors shall meet requirements specified by District | Y | |
| 1-602 | Area and Continuous Monitoring Requirements | N | |
| **SIP Regulation 1** | **PROVISIONS NO LONGER IN CURRENT RULE General Provisions and Definitions (6/28/99)** | | |
| 1-522 | Continuous Emission Monitoring and Recordkeeping Procedures | Y – note 1 | |
| 1-522.7 | emission limit exceedance reporting requirements | Y - note 1 | |
| **BAAQMD** | **Particulate Matter and Visible Emissions (12/19/90)** | | |

# IV. Source Specific Applicable Requirements

## Table IV – A.16
## Source-specific Applicable Requirements
## S18 – UNIT 244, B-504 HEATER

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| **Regulation 6** | | | |
| 6-301 | Ringelmann #1 Limitation | Y | |
| 6-305 | Visible Particles | Y | |
| 6-310.3 | Particulate Weight Limitation | Y | |
| **BAAQMD Manual of Procedures, Volume V** | **Continuous Emission Monitoring Policy and Procedures (1/20/82)** | Y | |
| **BAAQMD Regulation 9, Rule 10** | **Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon Monoxide from Boilers, Steam Generators, and Process Heaters in Petroleum Refineries (7/17/02)** | | |
| 9-10-301 | Emission Limit for Facility, NOx: 0.033 lb NOx/MMbtu | N | |
| 9-10-301.1 | ...Start-up/Shutdown Contribution | N | |
| 9-10-301.2 | ...Out-of-Service Units Contribution | N | |
| 9-10-301.3 | ...Test-firing on Non-gaseous fuel Contribution | N | |
| 9-10-303 | Federal Facility-wide NOx emission rate limit | Y | |
| 9-10-305 | CO emission limit | N | |
| 9-10-502 | Monitoring | Y | |
| 9-10-502.1 | CEMS for NOx, CO, and O2, or equivalent monitoring | N | |
| 9-10-502.2 | Fuel flowmeters | Y | |
| 9-10-504 | Recordkeeping | N | |
| 9-10-504.1 | Records | N | |
| 9-10-505 | Reporting | N | |
| 9-10-601 | Determination of NOx | N | |
| 9-10-602 | Determination of CO and Stack Gas O2 | N | |
| 9-10-603 | Compliance Determination | Y | |
| **40 CFR 60, Subpart A** | **General Provisions (2/12/98)** | | |
| 60.7(b) | Records | Y | |
| 60.7(c) | Notification and recordkeeping for continuous monitoring | Y | |
| 60.7(d) | Summary reports | Y | |
| 60.7(e) | Reduction of frequency of summary reports | Y | |
| 60.7(f) | Records | Y | |
| 60.7(g) | Alternative Notification | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – A.16
## Source-specific Applicable Requirements
## S18 – UNIT 244, B-504 HEATER

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| 60.7(h) | Specific Provisions | Y | |
| 60.8 | Performance Tests | Y | |
| 60.11 | Compliance with Standards and Maintenance Requirements | Y | |
| 60.11(a) | Compliance determined by performance tests | Y | |
| 60.11(d) | Control devices operated using good air pollution control practice | Y | |
| 60.13 | Monitoring requirements | Y | |
| 60.13(a) | Continuous monitoring systems subject to Appendix B, and Appendix F, (if used to demonstrate compliance with continuous emission limits), of Part 60 | Y | |
| 60.13(b) | Continuous monitoring systems and devices operational prior to performance tests required by 60.8 | Y | |
| 60.13(d)(1) | Continuous monitoring system zero and span calibration requirements | Y | |
| 60.13(e) | Continuous monitoring system minimum frequency of operation | Y | |
| 60.13(e)(2) | Continuous monitoring system minimum frequency of operation for non-opacity-measuring devices | Y | |
| 60.13(f) | Continuous monitoring system installation location requirement | Y | |
| **NSPS 40 CFR 60, Subpart J** | **Standards of Performance for Petroleum Refineries (7/1/00)** | | |
| 60.100 | Applicability | Y | |
| 60.104 | Standards for Sulfur Oxides: Compliance Schedule | Y | |
| 60.104(a)(1) | fuel gas H2S concentration limited to 230 mg/dscm (0.10 gr/dscf) except for gas burned as a result of process upset or gas burned at flares from relief valve leaks or other emergency malfunctions | Y | |
| 60.105 | Monitoring of Emissions and Operations | Y | |
| 60.105(a)(4) | monitoring requirement for H2S (dry basis) in fuel gas prior to combustion (in lieu of separate combustion device exhaust SO2 monitors as required by 60.105(a)(3)) | Y | |
| 60.105(e)(3)(ii) | Excess H2S emission definitions for 60.7(c) | Y | |
| 60.106(a) | Test methods and procedures | Y | |
| 60.106(e)(1) | Method 11 shall be used to verify compliance with 60.104(a)(1) | Y | |
| **NSPS 40 CFR 60, Appendix A** | **Appendix A to Part 60 – Test Methods** | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – A.16
## Source-specific Applicable Requirements
## S18 – UNIT 244, B-504 HEATER

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| **NSPS 40 CFR 60 Appendix B** | **Performance Specifications** | | |
| Performance Specification 7 | H2S continuous emission monitoring systems | Y | |
| **BAAQMD Condition 1694** | | | |
| Part A.1b | Heat ratings, firing limits [Basis: Regulation 2-1-301] | Y | |
| Part A.2a | Fuel restrictions [Basis: Regulation 2, Rule 1] | Y | |
| Part A.3a | TRS testing requirement [Basis: SO2 Bubble] | Y | |
| Part A.3b | TRS reporting requirements [Basis: SO2 Bubble] | Y | |
| Part A.4 | SO2 emission limit [Basis: SO2 Bubble] | Y | |
| Part A.5 | Records [Basis: Regulation 2, Rule 1; SO2 Bubble; Regulation 2-6-409.2] | Y | |
| **BAAQMD Condition 20989, Part A** | Throughput limits for S15, S16, S17, S18 and S19 [Basis: 2-1-234.3] | Y | |
| **BAAQMD Condition 21235** | | | |
| Part 1 | Sources subject to Regulation 9-10–301 and 9-10-305 [Basis: Regulation 9-10-301, 9-10-305] | N | |
| Part 2 | O2 CEM requirement [Basis: Regulation 9-10-502] | N | |
| Part 8 | CO source test requirement for sources with NOx CEMs [Basis: Regulation 9-10-502] | N | |
| Part 9 | CO, O2 CEM requirement [Basis: Regulation 9-10-502, 1-522] | N | |
| Part 10 | Recordkeeping requirement [Basis: Regulation 9-10-504] | N | |

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

# IV. Source Specific Applicable Requirements

## Table IV – A.17
## Source-specific Applicable Requirements
## S19 – UNIT 244, B-505 HEATER

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| **BAAQMD Regulation 1** | **General Provisions and Definitions (7/17/06)** | | |
| 1-107 | Combination of Emissions | Y | |
| 1-521 | Monitoring May Be Required | Y | |
| 1-522 | Continuous Emission Monitoring and Recordkeeping Procedures | | |
| 1-522.4 | reporting of inoperative CEMs | Y | |
| 1-522.5 | CEM calibration requirements | Y | |
| 1-522.6 | CEM accuracy requirements | Y | |
| 1-522.7 | emission limit exceedance reporting requirements | N | |
| 1-522.8 | monitoring data submittal requirements | Y | |
| 1-522.9 | recordkeeping requirements | Y | |
| 1-522.10 | Regulation 1-521 monitors shall meet requirements specified by District | Y | |
| 1-602 | Area and Continuous Monitoring Requirements | N | |
| **SIP Regulation 1** | **PROVISIONS NO LONGER IN CURRENT RULE General Provisions and Definitions (6/28/99)** | | |
| 1-522 | Continuous Emission Monitoring and Recordkeeping Procedures | Y – note 1 | |
| 1-522.7 | emission limit exceedance reporting requirements | Y - note 1 | |
| **BAAQMD Regulation 6** | **Particulate Matter and Visible Emissions (12/19/90)** | | |
| 6-301 | Ringelmann #1 Limitation | Y | |
| 6-305 | Visible Particles | Y | |
| 6-310.3 | Particulate Weight Limitation | Y | |
| **BAAQMD Manual of Procedures, Volume V** | **Continuous Emission Monitoring Policy and Procedures (1/20/82)** | Y | |
| **BAAQMD Regulation 9, Rule 10** | **Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon Monoxide from Boilers, Steam Generators, and Process Heaters in Petroleum Refineries (7/17/02)** | | |
| 9-10-301 | Emission Limit for Facility, NOx: 0.033 lb NOx/MMbtu | N | |
| 9-10-301.1 | ...Start-up/Shutdown Contribution | N | |
| 9-10-301.2 | ...Out-of-Service Units Contribution | N | |
| 9-10-301.3 | ...Test-firing on Non-gaseous fuel Contribution | N | |

# IV. Source Specific Applicable Requirements

## Table IV – A.17
## Source-specific Applicable Requirements
## S19 – UNIT 244, B-505 HEATER

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| 9-10-303 | Federal Facility-wide NOx emission rate limit | Y | |
| 9-10-305 | CO emission limit | N | |
| 9-10-502 | Monitoring | Y | |
| 9-10-502.1 | CEMS for NOx, CO, and O2, or equivalent monitoring | N | |
| 9-10-502.2 | Fuel flowmeters | Y | |
| 9-10-504 | Recordkeeping | N | |
| 9-10-504.1 | Records | N | |
| 9-10-505 | Reporting | N | |
| 9-10-601 | Determination of NOx | N | |
| 9-10-602 | Determination of CO and Stack Gas O2 | N | |
| 9-10-603 | Compliance Determination | Y | |
| **40 CFR 60, Subpart A** | **General Provisions (2/12/98)** | | |
| 60.7(b) | Records | Y | |
| 60.7(c) | Notification and recordkeeping for continuous monitoring | Y | |
| 60.7(d) | Summary reports | Y | |
| 60.7(e) | Reduction of frequency of summary reports | Y | |
| 60.7(f) | Records | Y | |
| 60.7(g) | Alternative Notification | Y | |
| 60.7(h) | Specific Provisions | Y | |
| 60.8 | Performance Tests | Y | |
| 60.11 | Compliance with Standards and Maintenance Requirements | Y | |
| 60.11(a) | Compliance determined by performance tests | Y | |
| 60.11(d) | Control devices operated using good air pollution control practice | Y | |
| 60.13 | Monitoring requirements | Y | |
| 60.13(a) | Continuous monitoring systems subject to Appendix B, and Appendix F, (if used to demonstrate compliance with continuous emission limits), of Part 60 | Y | |
| 60.13(b) | Continuous monitoring systems and devices operational prior to performance tests required by 60.8 | Y | |
| 60.13(d)(1) | Continuous monitoring system zero and span calibration requirements | Y | |
| 60.13(e) | Continuous monitoring system minimum frequency of operation | Y | |
| 60.13(e)(2) | Continuous monitoring system minimum frequency of operation for non-opacity-measuring devices | Y | |
| 60.13(f) | Continuous monitoring system installation location requirement | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – A.17
## Source-specific Applicable Requirements
## S19 – UNIT 244, B-505 HEATER

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| **NSPS 40 CFR 60, Subpart J** | **Standards of Performance for Petroleum Refineries (7/1/00)** | | |
| 60.100 | Applicability | Y | |
| 60.104 | Standards for Sulfur Oxides: Compliance Schedule | Y | |
| 60.104(a)(1) | fuel gas H2S concentration limited to 230 mg/dscm (0.10 gr/dscf) except for gas burned as a result of process upset or gas burned at flares from relief valve leaks or other emergency malfunctions | Y | |
| 60.105 | Monitoring of Emissions and Operations | Y | |
| 60.105(a)(4) | monitoring requirement for H2S (dry basis) in fuel gas prior to combustion (in lieu of separate combustion device exhaust SO2 monitors as required by 60.105(a)(3)) | Y | |
| 60.105(e)(3)(ii) | Excess H2S emission definitions for 60.7(c) | Y | |
| 60.106(a) | Test methods and procedures | Y | |
| 60.106(e)(1) | Method 11 shall be used to verify compliance with 60.104(a)(1) | Y | |
| **NSPS 40 CFR 60, Appendix A** | **Appendix A to Part 60 – Test Methods** | Y | |
| **NSPS 40 CFR 60 Appendix B** | **Performance Specifications** | | |
| Performance Specification 7 | H2S continuous emission monitoring systems | Y | |
| **BAAQMD Condition 1694** | | | |
| Part A.1b | Heat ratings, firing limits [Basis: Regulation 2-1-301] | Y | |
| Part A.2a | Fuel restrictions [Basis: Regulation 2, Rule 1] | Y | |
| Part A.3a | TRS testing requirement [Basis: SO2 Bubble] | Y | |
| Part A.3b | TRS reporting requirements [Basis: SO2 Bubble] | Y | |
| Part A.4 | SO2 emission limit [Basis: SO2 Bubble] | Y | |
| Part A.5 | Records [Basis: Regulation 2, Rule 1; SO2 Bubble; Regulation 2-6-409.2] | Y | |
| **BAAQMD** | Throughput limits for S15, S16, S17, S18 and S19 [Basis: 2-1- | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – A.17
## Source-specific Applicable Requirements
## S19 – UNIT 244, B-505 HEATER

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| **Condition 20989, Part A** | 234.3] | | |
| **BAAQMD Condition 21235** | | | |
| Part 1 | Sources subject to Regulation 9-10–301 and 9-10-305 [Basis: Regulation 9-10-301, 9-10-305] | N | |
| Part 2 | O2 CEM requirement [Basis: Regulation 9-10-502] | N | |
| Part 8 | CO source test requirement for sources with NOx CEMs [Basis: Regulation 9-10-502] | N | |
| Part 9 | CO, O2 CEM requirement [Basis: Regulation 9-10-502, 1-522] | N | |
| Part 10 | Recordkeeping requirement [Basis: Regulation 9-10-504] | N | |

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

## Table IV – A.18
## Source-specific Applicable Requirements
## S20 – UNIT 244, B-506 HEATER

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| **BAAQMD Regulation 1** | **General Provisions and Definitions (7/17/06)** | | |
| 1-521 | Monitoring May Be Required | Y | |
| **BAAQMD Regulation 6** | **Particulate Matter and Visible Emissions (12/19/90)** | | |
| 6-301 | Ringelmann #1 Limitation | Y | |
| 6-305 | Visible Particles | Y | |
| 6-310.3 | Particulate Weight Limitation | Y | |
| **BAAQMD Regulation 9, Rule 10** | **Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon Monoxide from Boilers, Steam Generators, and Process Heaters in Petroleum Refineries (7/17/02)** | | |
| 9-10-301 | Emission Limit for Facility, NOx: 0.033 lb NOx/MMbtu | N | |

# IV. Source Specific Applicable Requirements

## Table IV – A.18
## Source-specific Applicable Requirements
## S20 – UNIT 244, B-506 HEATER

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| 9-10-301.1 | ...Start-up/Shutdown Contribution | N | |
| 9-10-301.2 | ...Out-of-Service Units Contribution | N | |
| 9-10-301.3 | ...Test-firing on Non-gaseous fuel Contribution | N | |
| 9-10-303 | Federal Facility-wide NOx emission rate limit | Y | |
| 9-10-305 | CO emission limit | N | |
| 9-10-502 | Monitoring | Y | |
| 9-10-502.1 | CEMS for NOx, CO, and O2, or equivalent monitoring | N | |
| 9-10-502.2 | Fuel flowmeters | Y | |
| 9-10-504 | Recordkeeping | N | |
| 9-10-504.1 | Records | N | |
| 9-10-505 | Reporting | N | |
| 9-10-601 | Determination of NOx | N | |
| 9-10-602 | Determination of CO and Stack Gas O2 | N | |
| 9-10-603 | Compliance Determination | Y | |
| **40 CFR 60, Subpart A** | **General Provisions (2/12/98)** | | |
| 60.7(b) | Records | Y | |
| 60.7(c) | Notification and recordkeeping for continuous monitoring | Y | |
| 60.7(d) | Summary reports | Y | |
| 60.7(e) | Reduction of frequency of summary reports | Y | |
| 60.7(f) | Records | Y | |
| 60.7(g) | Alternative Notification | Y | |
| 60.7(h) | Specific Provisions | Y | |
| 60.8 | Performance Tests | Y | |
| 60.11 | Compliance with Standards and Maintenance Requirements | Y | |
| 60.11(a) | Compliance determined by performance tests | Y | |
| 60.11(d) | Control devices operated using good air pollution control practice | Y | |
| 60.13 | Monitoring requirements | Y | |
| 60.13(a) | Continuous monitoring systems subject to Appendix B, and Appendix F, (if used to demonstrate compliance with continuous emission limits), of Part 60 | Y | |
| 60.13(b) | Continuous monitoring systems and devices operational prior to performance tests required by 60.8 | Y | |
| 60.13(d)(1) | Continuous monitoring system zero and span calibration requirements | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – A.18
## Source-specific Applicable Requirements
## S20 – UNIT 244, B-506 HEATER

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| 60.13(e) | Continuous monitoring system minimum frequency of operation | Y | |
| 60.13(e)(2) | Continuous monitoring system minimum frequency of operation for non-opacity-measuring devices | Y | |
| 60.13(f) | Continuous monitoring system installation location requirement | Y | |
| **NSPS 40 CFR 60, Subpart J** | **Standards of Performance for Petroleum Refineries (7/1/00)** | | |
| 60.100 | Applicability | Y | |
| 60.104 | Standards for Sulfur Oxides: Compliance Schedule | Y | |
| 60.104(a)(1) | fuel gas H2S concentration limited to 230 mg/dscm (0.10 gr/dscf) except for gas burned as a result of process upset or gas burned at flares from relief valve leaks or other emergency malfunctions | Y | |
| 60.105 | Monitoring of Emissions and Operations | Y | |
| 60.105(a)(4) | monitoring requirement for H2S (dry basis) in fuel gas prior to combustion (in lieu of separate combustion device exhaust SO2 monitors as required by 60.105(a)(3)) | Y | |
| 60.105(e)(3)(ii) | Excess H2S emission definitions for 60.7(c) | Y | |
| 60.106(a) | Test methods and procedures | Y | |
| 60.106(e)(1) | Method 11 shall be used to verify compliance with 60.104(a)(1) | Y | |
| **NSPS 40 CFR 60, Appendix A** | **Appendix A to Part 60 – Test Methods** | Y | |
| **NSPS 40 CFR 60 Appendix B** | **Performance Specifications** | | |
| Performance Specification 7 | H2S continuous emission monitoring systems | Y | |
| **BAAQMD Condition 1694** | | | |
| Part A.1b | Heat ratings, firing limits [Basis: Regulation 2-1-301] | Y | |
| Part A.2a | Fuel restrictions [Basis: Regulation 2, Rule 1] | Y | |
| Part A.3a | TRS testing requirement [Basis: SO2 Bubble] | Y | |
| Part A.3b | TRS reporting requirements [Basis: SO2 Bubble] | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – A.18
## Source-specific Applicable Requirements
## S20 – UNIT 244, B-506 HEATER

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| Part A.4 | SO2 emission limit [Basis: SO2 Bubble] | Y | |
| Part A.5 | Records [Basis: Regulation 2, Rule 1; SO2 Bubble; Regulation 2-6-409.2] | Y | |
| **BAAQMD Condition 20989, Part A** | Throughput limits for S20 [Basis: 2-1-234.3] | Y | |
| **BAAQMD Condition 21235** | | | |
| Part 1 | Sources subject to Regulation 9-10–301 and 9-10-305 [Basis: Regulation 9-10-301, 9-10-305] | N | |
| Part 2 | O2 CEM requirement [Basis: Regulation 9-10-502] | N | |
| Part 3 | "NOx Box" requirement for sources without NOx CEMs [Basis: Regulation 9-10-502] | N | |
| Part 4 | "NOx Box" development procedure [Basis: Regulation 9-10-502] | N | |
| Part 5 | "NOx Box" parameters [Basis: Regulation 9-10-502] | N | |
| Part 6a | Allowed "NOx Box" deviations [Basis: Regulation 9-10-502] | N | |
| Part 6b | "NOx Box" deviation reporting requirement [Basis: Regulation 9-10-502] | N | |
| Part 7 | NOx, CO, O2 source test requirement for sources without NOx CEMs [Basis: Regulation 9-10-502] | N | |
| Part 9 | CO, O2 CEM requirement [Basis: Regulation 9-10-502, 1-522] | N | |
| Part 10 | Recordkeeping requirement [Basis: Regulation 9-10-504] | N | |

# IV. Source Specific Applicable Requirements

## Table IV – A.19
## Source-specific Applicable Requirements
## S21 – UNIT 244, B-507 HEATER

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| **BAAQMD Regulation 1** | **General Provisions and Definitions (7/17/06)** | | |
| 1-521 | Monitoring May Be Required | Y | |
| **BAAQMD Regulation 6** | **Particulate Matter and Visible Emissions (12/19/90)** | | |
| 6-301 | Ringelmann #1 Limitation | Y | |
| 6-305 | Visible Particles | Y | |
| 6-310.3 | Particulate Weight Limitation | Y | |
| **BAAQMD Regulation 9, Rule 10** | **Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon Monoxide from Boilers, Steam Generators, and Process Heaters in Petroleum Refineries (7/17/02)** | | |
| 9-10-111 | Limited Exemption: Small Units: Between 1 and 10 MMbtu/hr and capable of firing fuel other than natural gas or LPG | Y | |
| 9-10-217 | Definition: Small Unit: Between 1 and 10 MMbtu/hr and capable of firing fuel other than natural gas or LPG | Y | |
| 9-10-306 | Small Unit Requirements | Y | |
| 9-10-306.2 | Small Unit Requirements: Tune-up at least every 12 months, or within two weeks of start-up if not operated in the last 12 months | Y | |
| 9-10-504 | Recordkeeping | N | |
| 9-10-504.2 | Records | N | |
| 9-10-505 | Reporting | N | |
| 9-10-605 | Tune-up Procedures | Y | |
| **40 CFR 60, Subpart A** | **General Provisions (2/12/98)** | | |
| 60.7(b) | Records | Y | |
| 60.7(c) | Notification and recordkeeping for continuous monitoring | Y | |
| 60.7(d) | Summary reports | Y | |
| 60.7(e) | Reduction of frequency of summary reports | Y | |
| 60.7(f) | Records | Y | |
| 60.7(g) | Alternative Notification | Y | |
| 60.7(h) | Specific Provisions | Y | |
| 60.8 | Performance Tests | Y | |
| 60.11 | Compliance with Standards and Maintenance Requirements | Y | |
| 60.11(a) | Compliance determined by performance tests | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – A.19
## Source-specific Applicable Requirements
## S21 – UNIT 244, B-507 HEATER

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| 60.11(d) | Control devices operated using good air pollution control practice | Y | |
| 60.13 | Monitoring requirements | Y | |
| 60.13(a) | Continuous monitoring systems subject to Appendix B, and Appendix F, (if used to demonstrate compliance with continuous emission limits), of Part 60 | Y | |
| 60.13(b) | Continuous monitoring systems and devices operational prior to performance tests required by 60.8 | Y | |
| 60.13(d)(1) | Continuous monitoring system zero and span calibration requirements | Y | |
| 60.13(e) | Continuous monitoring system minimum frequency of operation | Y | |
| 60.13(e)(2) | Continuous monitoring system minimum frequency of operation for non-opacity-measuring devices | Y | |
| 60.13(f) | Continuous monitoring system installation location requirement | Y | |
| **NSPS 40 CFR 60, Subpart J** | **Standards of Performance for Petroleum Refineries (7/1/00)** | | |
| 60.100 | Applicability | Y | |
| 60.104 | Standards for Sulfur Oxides: Compliance Schedule | Y | |
| 60.104(a)(1) | fuel gas H2S concentration limited to 230 mg/dscm (0.10 gr/dscf) except for gas burned as a result of process upset or gas burned at flares from relief valve leaks or other emergency malfunctions | Y | |
| 60.105 | Monitoring of Emissions and Operations | Y | |
| 60.105(a)(4) | monitoring requirement for H2S (dry basis) in fuel gas prior to combustion (in lieu of separate combustion device exhaust SO2 monitors as required by 60.105(a)(3)) | Y | |
| 60.105(e)(3)(ii) | Excess H2S emission definitions for 60.7(c) | Y | |
| 60.106(a) | Test methods and procedures | Y | |
| 60.106(e)(1) | Method 11 shall be used to verify compliance with 60.104(a)(1) | Y | |
| **NSPS 40 CFR 60, Appendix A** | **Appendix A to Part 60 – Test Methods** | Y | |
| **NSPS 40 CFR 60 Appendix B** | **Performance Specifications** | | |
| Performance | H2S continuous emission monitoring systems | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – A.19
## Source-specific Applicable Requirements
## S21 – UNIT 244, B-507 HEATER

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| Specification 7 | | | |
| **BAAQMD Condition 1694** | | | |
| Part A.1a | Heat ratings, firing limits [Basis: Regulation 2-1-234.3] | Y | |
| Part A.2a | Fuel restrictions [Basis: Regulation 2, Rule 1] | Y | |
| Part A.3a | TRS testing requirement [Basis: SO2 Bubble] | Y | |
| Part A.3b | TRS reporting requirements [Basis: SO2 Bubble] | Y | |
| Part A.4 | SO2 emission limit [Basis: SO2 Bubble] | Y | |
| Part A.5 | Records [Basis: Regulation 2, Rule 1; SO2 Bubble; Regulation 2-6-409.2] | Y | |
| **BAAQMD Condition 20989, Part A** | Throughput limits for S21 [Basis: 2-1-234.3] | Y | |

## Table IV – A.20
## Source-specific Applicable Requirements
## S22 – UNIT 248, B-606 HEATER

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| **BAAQMD Regulation 1** | **General Provisions and Definitions (7/17/06)** | | |
| 1-521 | Monitoring May Be Required | Y | |
| **BAAQMD Regulation 6** | **Particulate Matter and Visible Emissions (12/19/90)** | | |
| 6-301 | Ringelmann #1 Limitation | Y | |
| 6-305 | Visible Particles | Y | |
| 6-310.3 | Particulate Weight Limitation | Y | |
| **BAAQMD Regulation 9, Rule 10** | **Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon Monoxide from Boilers, Steam Generators, and Process Heaters in Petroleum Refineries (7/17/02)** | | |
| 9-10-301 | Emission Limit for Facility, NOx: 0.033 lb NOx/MMbtu | N | |
| 9-10-301.1 | ...Start-up/Shutdown Contribution | N | |

# IV. Source Specific Applicable Requirements

## Table IV – A.20
## Source-specific Applicable Requirements
## S22 – UNIT 248, B-606 HEATER

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| 9-10-301.2 | ...Out-of-Service Units Contribution | N | |
| 9-10-301.3 | ...Test-firing on Non-gaseous fuel Contribution | N | |
| 9-10-303 | Federal Facility-wide NOx emission rate limit | Y | |
| 9-10-305 | CO emission limit | N | |
| 9-10-502 | Monitoring | Y | |
| 9-10-502.1 | CEMS for NOx, CO, and O2, or equivalent monitoring | N | |
| 9-10-502.2 | Fuel flowmeters | Y | |
| 9-10-504 | Recordkeeping | N | |
| 9-10-504.1 | Records | N | |
| 9-10-505 | Reporting | N | |
| 9-10-601 | Determination of NOx | N | |
| 9-10-602 | Determination of CO and Stack Gas O2 | N | |
| 9-10-603 | Compliance Determination | Y | |
| **40 CFR 60, Subpart A** | **General Provisions (2/12/98)** | | |
| 60.7(b) | Records | Y | |
| 60.7(c) | Notification and recordkeeping for continuous monitoring | Y | |
| 60.7(d) | Summary reports | Y | |
| 60.7(e) | Reduction of frequency of summary reports | Y | |
| 60.7(f) | Records | Y | |
| 60.7(g) | Alternative Notification | Y | |
| 60.7(h) | Specific Provisions | Y | |
| 60.8 | Performance Tests | Y | |
| 60.11 | Compliance with Standards and Maintenance Requirements | Y | |
| 60.11(a) | Compliance determined by performance tests | Y | |
| 60.11(d) | Control devices operated using good air pollution control practice | Y | |
| 60.13 | Monitoring requirements | Y | |
| 60.13(a) | Continuous monitoring systems subject to Appendix B, and Appendix F, (if used to demonstrate compliance with continuous emission limits), of Part 60 | Y | |
| 60.13(b) | Continuous monitoring systems and devices operational prior to performance tests required by 60.8 | Y | |
| 60.13(d)(1) | Continuous monitoring system zero and span calibration requirements | Y | |
| 60.13(e) | Continuous monitoring system minimum frequency of operation | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – A.20
## Source-specific Applicable Requirements
## S22 – UNIT 248, B-606 HEATER

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| 60.13(e)(2) | Continuous monitoring system minimum frequency of operation for non-opacity-measuring devices | Y | |
| 60.13(f) | Continuous monitoring system installation location requirement | Y | |
| **NSPS 40 CFR 60, Subpart J** | **Standards of Performance for Petroleum Refineries (7/1/00)** | | |
| 60.100 | Applicability | Y | |
| 60.104 | Standards for Sulfur Oxides: Compliance Schedule | Y | |
| 60.104(a)(1) | fuel gas H2S concentration limited to 230 mg/dscm (0.10 gr/dscf) except for gas burned as a result of process upset or gas burned at flares from relief valve leaks or other emergency malfunctions | Y | |
| 60.105 | Monitoring of Emissions and Operations | Y | |
| 60.105(a)(4) | monitoring requirement for H2S (dry basis) in fuel gas prior to combustion (in lieu of separate combustion device exhaust SO2 monitors as required by 60.105(a)(3)) | Y | |
| 60.105(e)(3)(ii) | Excess H2S emission definitions for 60.7(c) | Y | |
| 60.106(a) | Test methods and procedures | Y | |
| 60.106(e)(1) | Method 11 shall be used to verify compliance with 60.104(a)(1) | Y | |
| **NSPS 40 CFR 60, Appendix A** | **Appendix A to Part 60 – Test Methods** | Y | |
| **NSPS 40 CFR 60 Appendix B** | **Performance Specifications** | | |
| Performance Specification 7 | H2S continuous emission monitoring systems | Y | |
| **BAAQMD Condition 1694** | | | |
| Part A.1b | Heat ratings, firing limits [Basis: Regulation 2-1-301] | Y | |
| Part A.2a | Fuel restrictions [Basis: Regulation 2, Rule 1] | Y | |
| Part A.3a | TRS testing requirement [Basis: SO2 Bubble] | Y | |
| Part A.3b | TRS reporting requirements [Basis: SO2 Bubble] | Y | |
| Part A.4 | SO2 emission limit [Basis: SO2 Bubble] | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – A.20
## Source-specific Applicable Requirements
## S22 – UNIT 248, B-606 HEATER

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| Part A.5 | Records [Basis: Regulation 2, Rule 1; SO2 Bubble; Regulation 2-6-409.2] | Y | |
| **BAAQMD Condition 20989, Part A** | Throughput limits for S22 [Basis: 2-1-234.3] | Y | |
| **BAAQMD Condition 21235** | | | |
| Part 1 | Sources subject to Regulation 9-10–301 and 9-10-305 [Basis: Regulation 9-10-301, 9-10-305] | N | |
| Part 2 | O2 CEM requirement [Basis: Regulation 9-10-502] | N | |
| Part 3 | "NOx Box" requirement for sources without NOx CEMs [Basis: Regulation 9-10-502] | N | |
| Part 4 | "NOx Box" development procedure [Basis: Regulation 9-10-502] | N | |
| Part 5 | "NOx Box" parameters [Basis: Regulation 9-10-502] | N | |
| Part 6a | Allowed "NOx Box" deviations [Basis: Regulation 9-10-502] | N | |
| Part 6b | "NOx Box" deviation reporting requirement [Basis: Regulation 9-10-502] | N | |
| Part 7 | NOx, CO, O2 source test requirement for sources without NOx CEMs [Basis: Regulation 9-10-502] | N | |
| Part 9 | CO, O2 CEM requirement [Basis: Regulation 9-10-502, 1-522] | N | |
| Part 10 | Recordkeeping requirement [Basis: Regulation 9-10-504] | N | |

# IV. Source Specific Applicable Requirements

## Table IV – A.21
## Source-specific Applicable Requirements
## S29 – UNIT 200, B-5 HEATER

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| **BAAQMD Regulation 1** | **General Provisions and Definitions (7/17/06)** | | |
| 1-521 | Monitoring May Be Required | Y | |
| **BAAQMD Regulation 6** | **Particulate Matter and Visible Emissions (12/19/90)** | | |
| 6-301 | Ringelmann #1 Limitation | Y | |
| 6-305 | Visible Particles | Y | |
| 6-310.3 | Particulate Weight Limitation | Y | |
| **BAAQMD Regulation 9, Rule 10** | **Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon Monoxide from Boilers, Steam Generators, and Process Heaters in Petroleum Refineries (7/17/02)** | | |
| 9-10-301 | Emission Limit for Facility, NOx: 0.033 lb NOx/MMbtu | N | |
| 9-10-301.1 | ...Start-up/Shutdown Contribution | N | |
| 9-10-301.2 | ...Out-of-Service Units Contribution | N | |
| 9-10-301.3 | ...Test-firing on Non-gaseous fuel Contribution | N | |
| 9-10-303 | Federal Facility-wide NOx emission rate limit | Y | |
| 9-10-305 | CO emission limit | N | |
| 9-10-502 | Monitoring | Y | |
| 9-10-502.1 | CEMS for NOx, CO, and O2, or equivalent monitoring | N | |
| 9-10-502.2 | Fuel flowmeters | Y | |
| 9-10-504 | Recordkeeping | N | |
| 9-10-504.1 | Records | N | |
| 9-10-505 | Reporting | N | |
| 9-10-601 | Determination of NOx | N | |
| 9-10-602 | Determination of CO and Stack Gas O2 | N | |
| 9-10-603 | Compliance Determination | Y | |
| **40 CFR 60, Subpart A** | **General Provisions (2/12/98)** | | |
| 60.7(b) | Records | Y | |
| 60.7(c) | Notification and recordkeeping for continuous monitoring | Y | |
| 60.7(d) | Summary reports | Y | |
| 60.7(e) | Reduction of frequency of summary reports | Y | |
| 60.7(f) | Records | Y | |
| 60.7(g) | Alternative Notification | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – A.21
## Source-specific Applicable Requirements
## S29 – UNIT 200, B-5 HEATER

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| 60.7(h) | Specific Provisions | Y | |
| 60.8 | Performance Tests | Y | |
| 60.11 | Compliance with Standards and Maintenance Requirements | Y | |
| 60.11(a) | Compliance determined by performance tests | Y | |
| 60.11(d) | Control devices operated using good air pollution control practice | Y | |
| 60.13 | Monitoring requirements | Y | |
| 60.13(a) | Continuous monitoring systems subject to Appendix B, and Appendix F, (if used to demonstrate compliance with continuous emission limits), of Part 60 | Y | |
| 60.13(b) | Continuous monitoring systems and devices operational prior to performance tests required by 60.8 | Y | |
| 60.13(d)(1) | Continuous monitoring system zero and span calibration requirements | Y | |
| 60.13(e) | Continuous monitoring system minimum frequency of operation | Y | |
| 60.13(e)(2) | Continuous monitoring system minimum frequency of operation for non-opacity-measuring devices | Y | |
| 60.13(f) | Continuous monitoring system installation location requirement | Y | |
| **NSPS 40 CFR 60, Subpart J** | **Standards of Performance for Petroleum Refineries (7/1/00)** | | |
| 60.100 | Applicability | Y | |
| 60.104 | Standards for Sulfur Oxides: Compliance Schedule | Y | |
| 60.104(a)(1) | fuel gas H2S concentration limited to 230 mg/dscm (0.10 gr/dscf) except for gas burned as a result of process upset or gas burned at flares from relief valve leaks or other emergency malfunctions | Y | |
| 60.105 | Monitoring of Emissions and Operations | Y | |
| 60.105(a)(4) | monitoring requirement for H2S (dry basis) in fuel gas prior to combustion (in lieu of separate combustion device exhaust SO2 monitors as required by 60.105(a)(3)) | Y | |
| 60.105(e)(3)(ii) | Excess H2S emission definitions for 60.7(c) | Y | |
| 60.106(a) | Test methods and procedures | Y | |
| 60.106(e)(1) | Method 11 shall be used to verify compliance with 60.104(a)(1) | Y | |
| **NSPS 40 CFR 60, Appendix A** | **Appendix A to Part 60 – Test Methods** | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – A.21
## Source-specific Applicable Requirements
## S29 – UNIT 200, B-5 HEATER

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| **NSPS 40 CFR 60 Appendix B** | **Performance Specifications** | | |
| Performance Specification 7 | H2S continuous emission monitoring systems | Y | |
| **BAAQMD Condition 1694** | | | |
| Part A.1b | Heat ratings, firing limits [Basis: Regulation 2-1-301] | Y | |
| Part A.2a | Fuel restrictions [Basis: Regulation 2, Rule 1] | Y | |
| Part A.3a | TRS testing requirement [Basis: SO2 Bubble] | Y | |
| Part A.3b | TRS reporting requirements [Basis: SO2 Bubble] | Y | |
| Part A.4 | SO2 emission limit [Basis: SO2 Bubble] | Y | |
| Part A.5 | Records [Basis: Regulation 2, Rule 1; SO2 Bubble; Regulation 2-6-409.2] | Y | |
| **BAAQMD Condition 20989, Part A** | Throughput limits for S29 [Basis: 2-1-234.3] | Y | |
| **BAAQMD Condition 21235** | | | |
| Part 1 | Sources subject to Regulation 9-10–301 and 9-10-305 [Basis: Regulation 9-10-301, 9-10-305] | N | |
| Part 2 | O2 CEM requirement [Basis: Regulation 9-10-502] | N | |
| Part 3 | "NOx Box" requirement for sources without NOx CEMs [Basis: Regulation 9-10-502] | N | |
| Part 4 | "NOx Box" development procedure [Basis: Regulation 9-10-502] | N | |
| Part 5 | "NOx Box" parameters [Basis: Regulation 9-10-502] | N | |
| Part 6a | Allowed "NOx Box" deviations [Basis: Regulation 9-10-502] | N | |
| Part 6b | "NOx Box" deviation reporting requirement [Basis: Regulation 9-10-502] | N | |
| Part 7 | NOx, CO, O2 source test requirement for sources without NOx CEMs [Basis: Regulation 9-10-502] | N | |
| Part 9 | CO, O2 CEM requirement [Basis: Regulation 9-10-502, 1-522] | N | |
| Part 10 | Recordkeeping requirement [Basis: Regulation 9-10-504] | N | |

# IV. Source Specific Applicable Requirements

## Table IV – A.22
## Source-specific Applicable Requirements
## S30 – UNIT 200, B-101 HEATER

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| **BAAQMD Regulation 1** | **General Provisions and Definitions (7/17/06)** | | |
| 1-521 | Monitoring May Be Required | Y | |
| **BAAQMD Regulation 6** | **Particulate Matter and Visible Emissions (12/19/90)** | | |
| 6-301 | Ringelmann #1 Limitation | Y | |
| 6-305 | Visible Particles | Y | |
| 6-310.3 | Particulate Weight Limitation | Y | |
| **BAAQMD Regulation 9, Rule 10** | **Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon Monoxide from Boilers, Steam Generators, and Process Heaters in Petroleum Refineries (7/17/02)** | | |
| 9-10-301 | Emission Limit for Facility, NOx: 0.033 lb NOx/MMbtu | N | |
| 9-10-301.1 | ...Start-up/Shutdown Contribution | N | |
| 9-10-301.2 | ...Out-of-Service Units Contribution | N | |
| 9-10-301.3 | ...Test-firing on Non-gaseous fuel Contribution | N | |
| 9-10-303 | Federal Facility-wide NOx emission rate limit | Y | |
| 9-10-305 | CO emission limit | N | |
| 9-10-502 | Monitoring | Y | |
| 9-10-502.1 | CEMS for NOx, CO, and O2, or equivalent monitoring | N | |
| 9-10-502.2 | Fuel flowmeters | Y | |
| 9-10-504 | Recordkeeping | N | |
| 9-10-504.1 | Records | N | |
| 9-10-505 | Reporting | N | |
| 9-10-601 | Determination of NOx | N | |
| 9-10-602 | Determination of CO and Stack Gas O2 | N | |
| 9-10-603 | Compliance Determination | Y | |
| **40 CFR 60, Subpart A** | **General Provisions (2/12/98)** | | |
| 60.7(b) | Records | Y | |
| 60.7(c) | Notification and recordkeeping for continuous monitoring | Y | |
| 60.7(d) | Summary reports | Y | |
| 60.7(e) | Reduction of frequency of summary reports | Y | |
| 60.7(f) | Records | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – A.22
## Source-specific Applicable Requirements
## S30 – UNIT 200, B-101 HEATER

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| 60.7(g) | Alternative Notification | Y | |
| 60.7(h) | Specific Provisions | Y | |
| 60.8 | Performance Tests | Y | |
| 60.11 | Compliance with Standards and Maintenance Requirements | Y | |
| 60.11(a) | Compliance determined by performance tests | Y | |
| 60.11(d) | Control devices operated using good air pollution control practice | Y | |
| 60.13 | Monitoring requirements | Y | |
| 60.13(a) | Continuous monitoring systems subject to Appendix B, and Appendix F, (if used to demonstrate compliance with continuous emission limits), of Part 60 | Y | |
| 60.13(b) | Continuous monitoring systems and devices operational prior to performance tests required by 60.8 | Y | |
| 60.13(d)(1) | Continuous monitoring system zero and span calibration requirements | Y | |
| 60.13(e) | Continuous monitoring system minimum frequency of operation | Y | |
| 60.13(e)(2) | Continuous monitoring system minimum frequency of operation for non-opacity-measuring devices | Y | |
| 60.13(f) | Continuous monitoring system installation location requirement | Y | |
| **NSPS 40 CFR 60, Subpart J** | **Standards of Performance for Petroleum Refineries (7/1/00)** | | |
| 60.100 | Applicability | Y | |
| 60.104 | Standards for Sulfur Oxides: Compliance Schedule | Y | |
| 60.104(a)(1) | fuel gas H2S concentration limited to 230 mg/dscm (0.10 gr/dscf) except for gas burned as a result of process upset or gas burned at flares from relief valve leaks or other emergency malfunctions | Y | |
| 60.105 | Monitoring of Emissions and Operations | Y | |
| 60.105(a)(4) | monitoring requirement for H2S (dry basis) in fuel gas prior to combustion (in lieu of separate combustion device exhaust SO2 monitors as required by 60.105(a)(3)) | Y | |
| 60.105(e)(3)(ii) | Excess H2S emission definitions for 60.7(c) | Y | |
| 60.106(a) | Test methods and procedures | Y | |
| 60.106(e)(1) | Method 11 shall be used to verify compliance with 60.104(a)(1) | Y | |
| **NSPS 40 CFR 60,** | **Appendix A to Part 60 – Test Methods** | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – A.22
## Source-specific Applicable Requirements
## S30 – UNIT 200, B-101 HEATER

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| **Appendix A** | | | |
| **NSPS 40 CFR 60 Appendix B** | **Performance Specifications** | | |
| Performance Specification 7 | H2S continuous emission monitoring systems | Y | |
| **BAAQMD Condition 1694** | | | |
| Part A.1b | Heat ratings, firing limits [Basis: Regulation 2-1-301] | Y | |
| Part A.2a | Fuel restrictions [Basis: Regulation 2, Rule 1] | Y | |
| Part A.3a | TRS testing requirement [Basis: SO2 Bubble] | Y | |
| Part A.3b | TRS reporting requirements [Basis: SO2 Bubble] | Y | |
| Part A.4 | SO2 emission limit [Basis: SO2 Bubble] | Y | |
| Part A.5 | Records [Basis: Regulation 2, Rule 1; SO2 Bubble; Regulation 2-6-409.2] | Y | |
| **BAAQMD Condition 20989, Part A** | Throughput limits for S30 [Basis: 2-1-234.3] | Y | |
| **BAAQMD Condition 21235** | | | |
| Part 1 | Sources subject to Regulation 9-10–301 and 9-10-305 [Basis: Regulation 9-10-301, 9-10-305] | N | |
| Part 2 | O2 CEM requirement [Basis: Regulation 9-10-502] | N | |
| Part 3 | "NOx Box" requirement for sources without NOx CEMs [Basis: Regulation 9-10-502] | N | |
| Part 4 | "NOx Box" development procedure [Basis: Regulation 9-10-502] | N | |
| Part 5 | "NOx Box" parameters [Basis: Regulation 9-10-502] | N | |
| Part 6a | Allowed "NOx Box" deviations [Basis: Regulation 9-10-502] | N | |
| Part 6b | "NOx Box" deviation reporting requirement [Basis: Regulation 9-10-502] | N | |
| Part 7 | NOx, CO, O2 source test requirement for sources without NOx CEMs [Basis: Regulation 9-10-502] | N | |
| Part 9 | CO, O2 CEM requirement [Basis: Regulation 9-10-502, 1-522] | N | |

# IV. Source Specific Applicable Requirements

## Table IV – A.22
## Source-specific Applicable Requirements
## S30 – UNIT 200, B-101 HEATER

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| Part 10 | Recordkeeping requirement [Basis: Regulation 9-10-504] | N | |

## Table IV – A.23
## Source-specific Applicable Requirements
## S31 – UNIT 200, B-501 HEATER

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| **BAAQMD Regulation 1** | **General Provisions and Definitions (7/17/06)** | | |
| 1-521 | Monitoring May Be Required | Y | |
| **BAAQMD Regulation 6** | **Particulate Matter and Visible Emissions (12/19/90)** | | |
| 6-301 | Ringelmann #1 Limitation | Y | |
| 6-305 | Visible Particles | Y | |
| 6-310.3 | Particulate Weight Limitation | Y | |
| **BAAQMD Regulation 9, Rule 10** | **Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon Monoxide from Boilers, Steam Generators, and Process Heaters in Petroleum Refineries (7/17/02)** | | |
| 9-10-301 | Emission Limit for Facility, NOx: 0.033 lb NOx/MMbtu | N | |
| 9-10-301.1 | ...Start-up/Shutdown Contribution | N | |
| 9-10-301.2 | ...Out-of-Service Units Contribution | N | |
| 9-10-301.3 | ...Test-firing on Non-gaseous fuel Contribution | N | |
| 9-10-303 | Federal Facility-wide NOx emission rate limit | Y | |
| 9-10-305 | CO emission limit | N | |
| 9-10-502 | Monitoring | Y | |
| 9-10-502.1 | CEMS for NOx, CO, and O2, or equivalent monitoring | N | |
| 9-10-502.2 | Fuel flowmeters | Y | |
| 9-10-504 | Recordkeeping | N | |
| 9-10-504.1 | Records | N | |
| 9-10-505 | Reporting | N | |
| 9-10-601 | Determination of NOx | N | |
| 9-10-602 | Determination of CO and Stack Gas O2 | N | |
| 9-10-603 | Compliance Determination | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – A.23
## Source-specific Applicable Requirements
## S31 – UNIT 200, B-501 HEATER

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| **40 CFR 60, Subpart A** | **General Provisions (2/12/98)** | | |
| 60.7(b) | Records | Y | |
| 60.7(c) | Notification and recordkeeping for continuous monitoring | Y | |
| 60.7(d) | Summary reports | Y | |
| 60.7(e) | Reduction of frequency of summary reports | Y | |
| 60.7(f) | Records | Y | |
| 60.7(g) | Alternative Notification | Y | |
| 60.7(h) | Specific Provisions | Y | |
| 60.8 | Performance Tests | Y | |
| 60.11 | Compliance with Standards and Maintenance Requirements | Y | |
| 60.11(a) | Compliance determined by performance tests | Y | |
| 60.11(d) | Control devices operated using good air pollution control practice | Y | |
| 60.13 | Monitoring requirements | Y | |
| 60.13(a) | Continuous monitoring systems subject to Appendix B, and Appendix F, (if used to demonstrate compliance with continuous emission limits), of Part 60 | Y | |
| 60.13(b) | Continuous monitoring systems and devices operational prior to performance tests required by 60.8 | Y | |
| 60.13(d)(1) | Continuous monitoring system zero and span calibration requirements | Y | |
| 60.13(e) | Continuous monitoring system minimum frequency of operation | Y | |
| 60.13(e)(2) | Continuous monitoring system minimum frequency of operation for non-opacity-measuring devices | Y | |
| 60.13(f) | Continuous monitoring system installation location requirement | Y | |
| **NSPS 40 CFR 60, Subpart J** | **Standards of Performance for Petroleum Refineries (7/1/00)** | | |
| 60.100 | Applicability | Y | |
| 60.104 | Standards for Sulfur Oxides: Compliance Schedule | Y | |
| 60.104(a)(1) | fuel gas H2S concentration limited to 230 mg/dscm (0.10 gr/dscf) except for gas burned as a result of process upset or gas burned at flares from relief valve leaks or other emergency malfunctions | Y | |
| 60.105 | Monitoring of Emissions and Operations | Y | |
| 60.105(a)(4) | monitoring requirement for H2S (dry basis) in fuel gas prior to combustion (in lieu of separate combustion device exhaust SO2 | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – A.23
## Source-specific Applicable Requirements
## S31 – UNIT 200, B-501 HEATER

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| | monitors as required by 60.105(a)(3)) | | |
| 60.105(e)(3)(ii) | Excess H2S emission definitions for 60.7(c) | Y | |
| 60.106(a) | Test methods and procedures | Y | |
| 60.106(e)(1) | Method 11 shall be used to verify compliance with 60.104(a)(1) | Y | |
| **NSPS 40 CFR 60, Appendix A** | **Appendix A to Part 60 – Test Methods** | Y | |
| **NSPS 40 CFR 60 Appendix B** | **Performance Specifications** | | |
| Performance Specification 7 | H2S continuous emission monitoring systems | Y | |
| **BAAQMD Condition 1694** | | | |
| Part A.1b | Heat ratings, firing limits [Basis: Regulation 2-1-301] | Y | |
| Part A.2a | Fuel restrictions [Basis: Regulation 2, Rule 1] | Y | |
| Part A.3a | TRS testing requirement [Basis: SO2 Bubble] | Y | |
| Part A.3b | TRS reporting requirements [Basis: SO2 Bubble] | Y | |
| Part A.4 | SO2 emission limit [Basis: SO2 Bubble] | Y | |
| Part A.5 | Records [Basis: Regulation 2, Rule 1; SO2 Bubble; Regulation 2-6-409.2] | Y | |
| **BAAQMD Condition 20989, Part A** | Throughput limits for S31 [Basis: 2-1-234.3] | Y | |
| **BAAQMD Condition 21235** | | | |
| Part 1 | Sources subject to Regulation 9-10–301 and 9-10-305 [Basis: Regulation 9-10-301, 9-10-305] | N | |
| Part 2 | O2 CEM requirement [Basis: Regulation 9-10-502] | N | |
| Part 3 | "NOx Box" requirement for sources without NOx CEMs [Basis: Regulation 9-10-502] | N | |
| Part 4 | "NOx Box" development procedure [Basis: Regulation 9-10-502] | N | |

# IV. Source Specific Applicable Requirements

## Table IV – A.23
## Source-specific Applicable Requirements
## S31 – UNIT 200, B-501 HEATER

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| Part 5 | "NOx Box" parameters [Basis: Regulation 9-10-502] | N | |
| Part 6a | Allowed "NOx Box" deviations [Basis: Regulation 9-10-502] | N | |
| Part 6b | "NOx Box" deviation reporting requirement [Basis: Regulation 9-10-502] | N | |
| Part 7 | NOx, CO, O2 source test requirement for sources without NOx CEMs [Basis: Regulation 9-10-502] | N | |
| Part 9 | CO, O2 CEM requirement [Basis: Regulation 9-10-502, 1-522] | N | |
| Part 10 | Recordkeeping requirement [Basis: Regulation 9-10-504] | N | |

## Table IV – A.24
## Source-specific Applicable Requirements
## S36 – UNIT 200, B-102 HEATER

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| **BAAQMD Regulation 1** | **General Provisions and Definitions (7/17/06)** | | |
| 1-520 | Continuous Emission Monitoring | Y | |
| 1-520.8 | Monitors pursuant to Regulation 2-1-403 | Y | |
| 1-521 | Monitoring May Be Required | Y | |
| 1-522 | Continuous Emission Monitoring and Recordkeeping Procedures | | |
| 1-522.4 | reporting of inoperative CEMs | Y | |
| 1-522.5 | CEM calibration requirements | Y | |
| 1-522.6 | CEM accuracy requirements | Y | |
| 1-522.7 | emission limit exceedance reporting requirements | N | |
| 1-522.8 | monitoring data submittal requirements | Y | |
| 1-522.9 | recordkeeping requirements | Y | |
| 1-522.10 | Regulation 1-521 monitors shall meet requirements specified by District | Y | |
| 1-602 | Area and Continuous Monitoring Requirements | N | |
| **SIP Regulation 1** | **PROVISIONS NO LONGER IN CURRENT RULE General Provisions and Definitions (6/28/99)** | | |
| 1-522 | Continuous Emission Monitoring and Recordkeeping Procedures | Y – note 1 | |
| 1-522.7 | emission limit exceedance reporting requirements | Y - note 1 | |

# IV. Source Specific Applicable Requirements

## Table IV – A.24
## Source-specific Applicable Requirements
## S36 – UNIT 200, B-102 HEATER

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| **BAAQMD Regulation 2, Rule 1** | **Permits, General Requirements (7/19/06)** | | |
| 2-1-403 | Permit conditions requiring measurement of emissions | N | |
| 2-1-501 | Monitors shall comply with Volume V of the Manual of Procedures | Y | |
| **SIP Regulation 2, Rule 1** | **PROVISIONS NO LONGER IN CURRENT RULE Permits, General Requirements (1/26/99)** | | |
| 2-1-403 | Permit conditions requiring measurement of emissions | Y – note 1 | |
| **BAAQMD Regulation 6** | **Particulate Matter and Visible Emissions (12/19/90)** | | |
| 6-301 | Ringelmann #1 Limitation | Y | |
| 6-305 | Visible Particles | Y | |
| 6-310.3 | Particulate Weight Limitation | Y | |
| **BAAQMD Manual of Procedures, Volume V** | **Continuous Emission Monitoring Policy and Procedures (1/20/82)** | Y | |
| **40 CFR 60, Subpart A** | **General Provisions (03/16/1994)** | | |
| 60.13 | Monitoring Requirements | Y | |
| 60.13(i) | Approval of Alternative Monitoring | Y | |
| **40 CFR 60, Subpart J** | **Standards of Performance for Petroleum Refineries (7/1/00)** | | |
| 60.100 | Applicability | Y | |
| 60.104 | Standards for Sulfur Oxides: Compliance Schedule | Y | |
| 60.104(a)(1) | fuel gas H2S concentration limited to 230 mg/dscm (0.10 gr/dscf) except for gas burned as a result of process upset or gas burned at flares from relief valve leaks or other emergency malfunctions | Y | |
| 60.105 | Monitoring of Emissions and Operations | Y | |
| 60.105(e)(3)(ii) | Excess H2S emission definitions for 60.7(c) | Y | |
| 60.106(a) | Test methods and procedures | Y | |
| 60.106(e)(1) | Method 11 shall be used to verify compliance with 60.104(a)(1) | Y | |
| **40 CFR 60,** | **Appendix A to Part 60 – Test Methods** | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – A.24
## Source-specific Applicable Requirements
## S36 – UNIT 200, B-102 HEATER

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| **Appendix A** | | | |
| **BAAQMD Condition 1694** | | | |
| Part A.2a | Fuel restrictions [Basis: Regulation 2, Rule 1] | Y | |
| Part A.4 | SO2 emission limit [Basis: SO2 Bubble] | Y | |
| Part A.5c | Records of SO2 emissions [Basis: Regulation 2, Rule 1; SO2 Bubble; Regulation 2-6-409.2] | Y | |
| **BAAQMD Condition 21097** | | | |
| Part 1 | Fuel restrictions [Basis: BACT, Cumulative Increase] | Y | |
| Part 2 | Heat ratings, annual firing limits [Basis: Cumulative Increase] | Y | |
| Part 3a | Abatement requirement [Basis: BACT, Cumulative Increase] | Y | |
| Part 3b | Emission rate limits [Basis: BACT, Cumulative Increase] | Y | |
| Part 3c | Ammonia limit [Basis: Toxic Management] | N | |
| Part 4 | Continuous fuel monitor requirement [Basis: Cumulative Increase] | Y | |
| Part 5a | NOx, O2 CEM requirement [Basis: BACT, Cumulative Increase] | Y | |
| Part 5b | Annual CO source test requirement [Basis: BACT, Cumulative Increase] | Y | |
| Part 6 | Fuel gas TRS concentration limit [Basis: BACT, Cumulative Increase, SO2 bubble] | Y | |
| Part 7a | TRS testing requirement [Basis: BACT, Cumulative Increase, SO2 Bubble] | Y | |
| Part 7b | TRS records requirement [Basis: BACT, Cumulative Increase, SO2 Bubble] | Y | |
| Part 7c | Alternative monitoring for compliance with 40 CFR 60.104(a)(1) H2S limit | Y | |
| Part 10 | Recordkeeping [2-6-503] | Y | |
| **BAAQMD Condition 21099** | | | |
| Part 1 | Light hydrocarbon control valve requirements [Basis: BACT] | Y | |
| Part 2 | Light hydrocarbon flange/connector requirements [Basis: BACT] | Y | |
| Part 3 | Centrifugal compressor requirements [Basis: BACT] | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – A.24
## Source-specific Applicable Requirements
## S36 – UNIT 200, B-102 HEATER

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| Part 4 | Light hydrocarbon centrifugal pump requirements [Basis: BACT] | Y | |
| Part 5 | Monitoring and repair program requirement [Basis: BACT] | Y | |
| Part 6 | ULSD project component count report requirement [Basis: BACT, Cumulative Increase, Toxic Management Policy] | Y | |

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

## Table IV – A.25
## Source-specific Applicable Requirements
## S43 – UNIT 200, B-202 HEATER

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| **BAAQMD Regulation 1** | **General Provisions and Definitions (7/17/06)** | | |
| 1-520 | Continuous Emission Monitoring | Y | |
| 1-520.8 | Monitors pursuant to Regulation 2-1-403 | Y | |
| 1-521 | Monitoring May Be Required | Y | |
| 1-522 | Continuous Emission Monitoring and Recordkeeping Procedures | | |
| 1-522.4 | reporting of inoperative CEMs | Y | |
| 1-522.5 | CEM calibration requirements | Y | |
| 1-522.6 | CEM accuracy requirements | Y | |
| 1-522.7 | emission limit exceedance reporting requirements | N | |
| 1-522.8 | monitoring data submittal requirements | Y | |
| 1-522.9 | recordkeeping requirements | Y | |
| 1-522.10 | Regulation 1-521 monitors shall meet requirements specified by District | Y | |
| 1-602 | Area and Continuous Monitoring Requirements | N | |
| **SIP Regulation 1** | **PROVISIONS NO LONGER IN CURRENT RULE General Provisions and Definitions (6/28/99)** | | |
| 1-522 | Continuous Emission Monitoring and Recordkeeping Procedures | Y – note 1 | |
| 1-522.7 | emission limit exceedance reporting requirements | Y - note 1 | |
| **BAAQMD** | **Regulation 2, Rule 1 - Permits, General Requirements (7/19/06)** | | |

# IV. Source Specific Applicable Requirements

## Table IV – A.25
## Source-specific Applicable Requirements
## S43 – UNIT 200, B-202 HEATER

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| **Regulation 2, Rule 1** | | | |
| 2-1-403 | Permit conditions requiring measurement of emissions | N | |
| 2-1-501 | Monitors shall comply with Volume V of the Manual of Procedures | Y | |
| **SIP Regulation 2, Rule 1** | **PROVISIONS NO LONGER IN CURRENT RULE Permits, General Requirements (1/26/99)** | | |
| 2-1-403 | Permit conditions requiring measurement of emissions | Y – note 1 | |
| **BAAQMD Regulation 6** | **Particulate Matter and Visible Emissions (12/19/90)** | | |
| 6-301 | Ringelmann #1 Limitation | Y | |
| 6-304 | Tube Cleaning | Y | |
| 6-305 | Visible Particles | Y | |
| 6-310.3 | Particulate Weight Limitation | Y | |
| **BAAQMD Manual of Procedures, Volume V** | **Continuous Emission Monitoring Policy and Procedures (1/20/82)** | Y | |
| **BAAQMD Regulation 9, Rule 10** | **Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon Monoxide from Boilers, Steam Generators, and Process Heaters in Petroleum Refineries (7/17/02)** | | |
| 9-10-301 | Emission Limit for Facility, NOx: 0.033 lb NOx/MMbtu | N | |
| 9-10-301.1 | ...Start-up/Shutdown Contribution | N | |
| 9-10-301.2 | ...Out-of-Service Units Contribution | N | |
| 9-10-301.3 | ...Test-firing on Non-gaseous fuel Contribution | N | |
| 9-10-303 | Federal Facility-wide NOx emission rate limit | Y | |
| 9-10-305 | CO emission limit | N | |
| 9-10-502 | Monitoring | Y | |
| 9-10-502.1 | CEMS for NOx, CO, and O2, or equivalent monitoring | N | |
| 9-10-502.2 | Fuel flowmeters | Y | |
| 9-10-504 | Recordkeeping | N | |
| 9-10-504.1 | Records | N | |
| 9-10-505 | Reporting | N | |
| 9-10-601 | Determination of NOx | N | |

# IV. Source Specific Applicable Requirements

## Table IV – A.25
## Source-specific Applicable Requirements
## S43 – UNIT 200, B-202 HEATER

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| 9-10-602 | Determination of CO and Stack Gas O2 | N | |
| 9-10-603 | Compliance Determination | Y | |
| **40 CFR 60, Subpart J** | **Standards of Performance for Petroleum Refineries (7/1/00)** | | |
| 60.100 | Applicability | Y | |
| 60.104 | Standards for Sulfur Oxides: Compliance Schedule | Y | |
| 60.104(a)(1) | fuel gas H2S concentration limited to 230 mg/dscm (0.10 gr/dscf) except for gas burned as a result of process upset or gas burned at flares from relief valve leaks or other emergency malfunctions | Y | |
| 60.105 | Monitoring of Emissions and Operations | Y | |
| 60.105(a)(4) | monitoring requirement for H2S (dry basis) in fuel gas prior to combustion (in lieu of separate combustion device exhaust SO2 monitors as required by 60.105(a)(3)) | Y | |
| 60.105(e)(3)(ii) | Excess H2S emission definitions for 60.7(c) | Y | |
| 60.106(a) | Test methods and procedures | Y | |
| 60.106(e)(1) | Method 11 shall be used to verify compliance with 60.104(a)(1) | Y | |
| **40 CFR 60, Appendix A** | **Appendix A to Part 60 – Test Methods** | Y | |
| **40 CFR 60, Appendix B** | **Performance Specifications** | | |
| Performance Specification 7 | H2S continuous emission monitoring systems | Y | |
| **BAAQMD Condition 1694** | | | |
| Part A.1b | Heat ratings, firing limits [Basis: Regulation 2-1-301] | Y | |
| Part A.2a | Fuel restrictions [Basis: Regulation 2, Rule 1] | Y | |
| Part A.3a | TRS testing requirement [Basis: SO2 Bubble] | Y | |
| Part A.3b | TRS reporting requirements [Basis: SO2 Bubble] | Y | |
| Part A.4 | SO2 emission limit [Basis: SO2 Bubble] | Y | |
| Part A.5 | Records [Basis: Regulation 2, Rule 1; SO2 Bubble; Regulation 2-6-409.2] | Y | |
| Part D.1 | S43 abatement requirement [Basis: BACT, Cumulative Increase] | Y | |
| Part D.2 | S43, S44 NOx emission limits [Basis: BACT, Cumulative Increase] | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – A.25
## Source-specific Applicable Requirements
## S43 – UNIT 200, B-202 HEATER

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| Part D.3 | S43, S44 CO emission limits [Basis: BACT, Cumulative Increase] | Y | |
| Part D.4 | S43, S44 NOx, O2 CEM requirement [Basis: BACT, Cumulative Increase] | Y | |
| **BAAQMD Condition 20989, Part A** | Throughput limits for source S43 [Basis: 2-1-234.3] | Y | |
| **BAAQMD Condition 21235** | | | |
| Part 1 | Sources subject to Regulation 9-10–301 and 9-10-305 [Basis: Regulation 9-10-301, 9-10-305] | N | |
| Part 2 | O2 CEM requirement [Basis: Regulation 9-10-502] | N | |
| Part 8 | CO source test requirement for sources with NOx CEMs [Basis: Regulation 9-10-502] | N | |
| Part 9 | CO, O2 CEM requirement [Basis: Regulation 9-10-502, 1-522] | N | |
| Part 10 | Recordkeeping requirement [Basis: Regulation 9-10-504] | N | |

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

# IV. Source Specific Applicable Requirements

## Table IV – A.26
## Source-specific Applicable Requirements
## S44 – UNIT 200, B-201 HEATER

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| **BAAQMD Regulation 1** | **General Provisions and Definitions (7/17/06)** | | |
| 1-520 | Continuous Emission Monitoring | Y | |
| 1-520.8 | Monitors pursuant to Regulation 2-1-403 | Y | |
| 1-521 | Monitoring May Be Required | Y | |
| 1-522 | Continuous Emission Monitoring and Recordkeeping Procedures | | |
| 1-522.4 | reporting of inoperative CEMs | Y | |
| 1-522.5 | CEM calibration requirements | Y | |
| 1-522.6 | CEM accuracy requirements | Y | |
| 1-522.7 | emission limit exceedance reporting requirements | N | |
| 1-522.8 | monitoring data submittal requirements | Y | |
| 1-522.9 | recordkeeping requirements | Y | |
| 1-522.10 | Regulation 1-521 monitors shall meet requirements specified by District | Y | |
| 1-602 | Area and Continuous Monitoring Requirements | N | |
| **SIP Regulation 1** | **PROVISIONS NO LONGER IN CURRENT RULE General Provisions and Definitions (6/28/99)** | | |
| 1-522 | Continuous Emission Monitoring and Recordkeeping Procedures | Y – note 1 | |
| 1-522.7 | emission limit exceedance reporting requirements | Y - note 1 | |
| **BAAQMD Regulation 2, Rule 1** | **Regulation 2, Rule 1 - Permits, General Requirements (7/19/06)** | | |
| 2-1-403 | Permit conditions requiring measurement of emissions | N | |
| 2-1-501 | Monitors shall comply with Volume V of the Manual of Procedures | Y | |
| **SIP Regulation 2, Rule 1** | **PROVISIONS NO LONGER IN CURRENT RULE Permits, General Requirements (1/26/99)** | | |
| 2-1-403 | Permit conditions requiring measurement of emissions | Y – note 1 | |
| **BAAQMD Regulation 6** | **Particulate Matter and Visible Emissions (12/19/90)** | | |
| 6-301 | Ringelmann #1 Limitation | Y | |
| 6-305 | Visible Particles | Y | |
| 6-310.3 | Particulate Weight Limitation | Y | |
| **BAAQMD** | **Continuous Emission Monitoring Policy and Procedures (1/20/82)** | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – A.26
## Source-specific Applicable Requirements
## S44 – UNIT 200, B-201 HEATER

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| **Manual of Procedures, Volume V** | | | |
| **BAAQMD Regulation 9, Rule 10** | **Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon Monoxide from Boilers, Steam Generators, and Process Heaters in Petroleum Refineries (7/17/02)** | | |
| 9-10-301 | Emission Limit for Facility, NOx: 0.033 lb NOx/MMbtu | N | |
| 9-10-301.1 | ...Start-up/Shutdown Contribution | N | |
| 9-10-301.2 | ...Out-of-Service Units Contribution | N | |
| 9-10-301.3 | ...Test-firing on Non-gaseous fuel Contribution | N | |
| 9-10-303 | Federal Facility-wide NOx emission rate limit | Y | |
| 9-10-305 | CO emission limit | N | |
| 9-10-502 | Monitoring | Y | |
| 9-10-502.1 | CEMS for NOx, CO, and O2, or equivalent monitoring | N | |
| 9-10-502.2 | Fuel flowmeters | Y | |
| 9-10-504 | Recordkeeping | N | |
| 9-10-504.1 | Records | N | |
| 9-10-505 | Reporting | N | |
| 9-10-601 | Determination of NOx | N | |
| 9-10-602 | Determination of CO and Stack Gas O2 | N | |
| 9-10-603 | Compliance Determination | Y | |
| **40 CFR 60, Subpart J** | **Standards of Performance for Petroleum Refineries (7/1/00)** | | |
| 60.100 | Applicability | Y | |
| 60.104 | Standards for Sulfur Oxides: Compliance Schedule | Y | |
| 60.104(a)(1) | fuel gas H2S concentration limited to 230 mg/dscm (0.10 gr/dscf) except for gas burned as a result of process upset or gas burned at flares from relief valve leaks or other emergency malfunctions | Y | |
| 60.105 | Monitoring of Emissions and Operations | Y | |
| 60.105(a)(4) | monitoring requirement for H2S (dry basis) in fuel gas prior to combustion (in lieu of separate combustion device exhaust SO2 monitors as required by 60.105(a)(3)) | Y | |
| 60.105(e)(3)(ii) | Excess H2S emission definitions for 60.7(c) | Y | |
| 60.106(a) | Test methods and procedures | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – A.26
## Source-specific Applicable Requirements
## S44 – UNIT 200, B-201 HEATER

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| 60.106(e)(1) | Method 11 shall be used to verify compliance with 60.104(a)(1) | Y | |
| **40 CFR 60, Appendix A** | **Appendix A to Part 60 – Test Methods** | Y | |
| **40 CFR 60, Appendix B** | **Performance Specifications** | | |
| Performance Specification 7 | H2S continuous emission monitoring systems | Y | |
| **BAAQMD Condition 1694** | | | |
| Part A.1b | Heat ratings, firing limits [Basis: Regulation 2-1-301] | Y | |
| Part A.2a | Fuel restrictions [Basis: Regulation 2, Rule 1] | Y | |
| Part A.3a | TRS testing requirement [Basis: SO2 Bubble] | Y | |
| Part A.3b | TRS reporting requirements [Basis: SO2 Bubble] | Y | |
| Part A.4 | SO2 emission limit [Basis: SO2 Bubble] | Y | |
| Part A.5 | Records [Basis: Regulation 2, Rule 1; SO2 Bubble; Regulation 2-6-409.2] | Y | |
| Part D.2 | S43, S44 NOx emission limits [Basis: BACT, Cumulative Increase] | Y | |
| Part D.3 | S43, S44 CO emission limits [Basis: BACT, Cumulative Increase] | Y | |
| Part D.4 | S43, S44 NOx, O2 CEM requirement [Basis: BACT, Cumulative Increase] | Y | |
| **BAAQMD Condition 20989, Part A** | Throughput limits for source S44 [Basis: 2-1-234.3] | Y | |
| **BAAQMD Condition 21235** | | | |
| Part 1 | Sources subject to Regulation 9-10–301 and 9-10-305 [Basis: Regulation 9-10-301, 9-10-305] | N | |
| Part 2 | O2 CEM requirement [Basis: Regulation 9-10-502] | N | |
| Part 8 | CO source test requirement for sources with NOx CEMs [Basis: Regulation 9-10-502] | N | |
| Part 9 | CO, O2 CEM requirement [Basis: Regulation 9-10-502, 1-522] | N | |
| Part 10 | Recordkeeping requirement [Basis: Regulation 9-10-504] | N | |

# IV. Source Specific Applicable Requirements

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

## Table IV – A.27
## Source-specific Applicable Requirements
## S50, S51, S52 – TURBINE STARTUP ENGINES

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| **BAAQMD Regulation 6** | **Particulate Matter and Visible Emissions (12/19/90)** | | |
| 6-303.1 | Ringelmann #2 Limitation | Y | |
| 6-305 | Visible Particles | Y | |
| 6-310 | Particulate Weight Limitation | Y | |
| 6-401 | Appearance of Emissions | Y | |
| **BAAQMD Regulation 9, Rule 1** | **Inorganic Gaseous Pollutants, Sulfur Dioxide Emissions Limitations (3/15/95)** | | |
| 9-1-304 | Fuel Burning (Liquid and Solid fuels) | Y | |
| **BAAQMD Regulation 9, Rule 8** | **Nitrogen Oxides And Carbon Monoxide From Stationary Internal Combustion Engines (8/1/01)** | | |
| 9-8-111.1 | Exemptions: Engines rated at or below 1000 brake horsepower which operate less than 200 hours in any 12-consecutive month period are only subject to recordkeeping | Y | |
| 9-8-502 | Recordkeeping | Y | |
| **BAAQMD Condition 19488** | | | |
| Part 1 | 100 hr/yr operating limit per engine [Basis: Cumulative increase] | Y | |
| Part 2 | Operating hour records [Basis: Regulation 9-8-502] | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – A.28
## Source-specific Applicable Requirements
## S53, S54, S55, S56, S57, S58, S59 – EMERGENCY DIESEL ENGINES

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| **BAAQMD Regulation 6** | **Particulate Matter and Visible Emissions (12/19/90)** | | |
| 6-303.1 | Ringelmann #2 Limitation | Y | |
| 6-305 | Visible Particles | Y | |
| 6-310 | Particulate Weight Limitation | Y | |
| 6-401 | Appearance of Emissions | Y | |
| **BAAQMD Regulation 9, Rule 1** | **Inorganic Gaseous Pollutants, Sulfur Dioxide Emissions Limitations (3/15/95)** | | |
| 9-1-304 | Fuel Burning (Liquid and Solid fuels) | Y | |
| **BAAQMD Regulation 9, Rule 8** | **Nitrogen Oxides And Carbon Monoxide From Stationary Internal Combustion Engines (8/1/01)** | | |
| 9-8-330 | Emergency Standby Engines, Hours of Operation | N | |
| 9-8-530 | Emergency standby engines, monitoring and recordkeeping | N | |
| **BAAQMD Condition 19488** | | | |
| Part 3 | 100 hr/yr operating limit per engine (non-emergency) [Basis: Regulation 9-8-330] | Y | |
| Part 6 | Monitoring [Basis: Regulation 9-8-530] | Y | |
| Part 7 | Operating hour records [Basis: Regulation 9-8-530] | Y | |

## Table IV – A.29
## Source-specific Applicable Requirements
## S336 – UNIT 231, B-104 HEATER

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| **BAAQMD Regulation 1** | **General Provisions and Definitions (7/17/06)]** | | |
| 1-521 | Monitoring May Be Required | Y | |
| **BAAQMD** | **Particulate Matter and Visible Emissions (12/19/90)** | | |

# IV. Source Specific Applicable Requirements

## Table IV – A.29
## Source-specific Applicable Requirements
## S336 – UNIT 231, B-104 HEATER

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| **Regulation 6** | | | |
| 6-301 | Ringelmann #1 Limitation | Y | |
| 6-305 | Visible Particles | Y | |
| 6-310.3 | Particulate Weight Limitation | Y | |
| **BAAQMD Regulation 9, Rule 10** | **Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon Monoxide from Boilers, Steam Generators, and Process Heaters in Petroleum Refineries (7/17/02)** | | |
| 9-10-301 | Emission Limit for Facility, NOx: 0.033 lb NOx/MMbtu | N | |
| 9-10-301.1 | ...Start-up/Shutdown Contribution | N | |
| 9-10-301.2 | ...Out-of-Service Units Contribution | N | |
| 9-10-301.3 | ...Test-firing on Non-gaseous fuel Contribution | N | |
| 9-10-303 | Federal Facility-wide NOx emission rate limit | Y | |
| 9-10-305 | CO emission limit | N | |
| 9-10-502 | Monitoring | Y | |
| 9-10-502.1 | CEMS for NOx, CO, and O2, or equivalent monitoring | N | |
| 9-10-502.2 | Fuel flowmeters | Y | |
| 9-10-504 | Recordkeeping | N | |
| 9-10-504.1 | Records | N | |
| 9-10-505 | Reporting | N | |
| 9-10-601 | Determination of NOx | N | |
| 9-10-602 | Determination of CO and Stack Gas O2 | N | |
| 9-10-603 | Compliance Determination | Y | |
| **40 CFR 60, Subpart J** | **Standards of Performance for Petroleum Refineries (7/1/00)** | | |
| 60.100 | Applicability | Y | |
| 60.104 | Standards for Sulfur Oxides: Compliance Schedule | Y | |
| 60.104(a)(1) | fuel gas H2S concentration limited to 230 mg/dscm (0.10 gr/dscf) except for gas burned as a result of process upset or gas burned at flares from relief valve leaks or other emergency malfunctions | Y | |
| 60.105 | Monitoring of Emissions and Operations | Y | |
| 60.105(a)(4) | monitoring requirement for H2S (dry basis) in fuel gas prior to combustion (in lieu of separate combustion device exhaust SO2 monitors as required by 60.105(a)(3)) | Y | |
| 60.105(e)(3)(ii) | Excess H2S emission definitions for 60.7(c) | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – A.29
## Source-specific Applicable Requirements
## S336 – UNIT 231, B-104 HEATER

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| 60.106(a) | Test methods and procedures | Y | |
| 60.106(e)(1) | Method 11 shall be used to verify compliance with 60.104(a)(1) | Y | |
| **40 CFR 60, Appendix A** | **Appendix A to Part 60 – Test Methods** | Y | |
| **NSPS 40 CFR 60 Appendix B** | **Performance Specifications** | | |
| Performance Specification 7 | H2S continuous emission monitoring systems | Y | |
| **BAAQMD Condition 1694** | | | |
| Part A.1a | Heat ratings, firing limits [Basis: Regulation 2-1-234.3] | Y | |
| Part A.2a | Fuel restrictions [Basis: Regulation 2, Rule 1] | Y | |
| Part A.3a | TRS testing requirement [Basis: SO2 Bubble] | Y | |
| Part A.3b | TRS reporting requirements [Basis: SO2 Bubble] | Y | |
| Part A.4 | SO2 emission limit [Basis: SO2 Bubble] | Y | |
| Part A.5 | Records [Basis: Regulation 2, Rule 1; SO2 Bubble; Regulation 2-6-409.2] | Y | |
| **BAAQMD Condition 20989, Part A** | Throughput limits for source S336 [Basis: 2-1-234.3] | Y | |
| **BAAQMD Condition 21235** | | | |
| Part 1 | Sources subject to Regulation 9-10–301 and 9-10-305 [Basis: Regulation 9-10-301, 9-10-305] | N | |
| Part 2 | O2 CEM requirement [Basis: Regulation 9-10-502] | N | |
| Part 3 | "NOx Box" requirement for sources without NOx CEMs [Basis: Regulation 9-10-502] | N | |
| Part 4 | "NOx Box" development procedure [Basis: Regulation 9-10-502] | N | |
| Part 5 | "NOx Box" parameters [Basis: Regulation 9-10-502] | N | |
| Part 6a | Allowed "NOx Box" deviations [Basis: Regulation 9-10-502] | N | |
| Part 6b | "NOx Box" deviation reporting requirement [Basis: Regulation 9-10-502] | N | |

# IV. Source Specific Applicable Requirements

## Table IV – A.29
## Source-specific Applicable Requirements
## S336 – UNIT 231, B-104 HEATER

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| Part 7 | NOx, CO, O2 source test requirement for sources without NOx CEMs [Basis: Regulation 9-10-502] | N | |
| Part 9 | CO, O2 CEM requirement [Basis: Regulation 9-10-502, 1-522] | N | |
| Part 10 | Recordkeeping requirement [Basis: Regulation 9-10-504] | N | |

## Table IV – A.30
## Source-specific Applicable Requirements
## S337 – UNIT 231, B-105 HEATER

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| **BAAQMD Regulation 1** | **General Provisions and Definitions (7/17/06)]** | | |
| 1-521 | Monitoring May Be Required | Y | |
| **BAAQMD Regulation 6** | **Particulate Matter and Visible Emissions (12/19/90)** | | |
| 6-301 | Ringelmann #1 Limitation | Y | |
| 6-305 | Visible Particles | Y | |
| 6-310.3 | Particulate Weight Limitation | Y | |
| **BAAQMD Regulation 9, Rule 10** | **Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon Monoxide from Boilers, Steam Generators, and Process Heaters in Petroleum Refineries (7/17/02)** | | |
| 9-10-301 | Emission Limit for Facility, NOx: 0.033 lb NOx/MMbtu | N | |
| 9-10-301.1 | ...Start-up/Shutdown Contribution | N | |
| 9-10-301.2 | ...Out-of-Service Units Contribution | N | |
| 9-10-301.3 | ...Test-firing on Non-gaseous fuel Contribution | N | |
| 9-10-303 | Federal Facility-wide NOx emission rate limit | Y | |
| 9-10-305 | CO emission limit | N | |
| 9-10-502 | Monitoring | Y | |
| 9-10-502.1 | CEMS for NOx, CO, and O2, or equivalent monitoring | N | |
| 9-10-502.2 | Fuel flowmeters | Y | |
| 9-10-504 | Recordkeeping | N | |
| 9-10-504.1 | Records | N | |
| 9-10-505 | Reporting | N | |

# IV. Source Specific Applicable Requirements

## Table IV – A.30
## Source-specific Applicable Requirements
## S337 – UNIT 231, B-105 HEATER

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| 9-10-601 | Determination of NOx | N | |
| 9-10-602 | Determination of CO and Stack Gas O2 | N | |
| 9-10-603 | Compliance Determination | Y | |
| **40 CFR 60, Subpart J** | **Standards of Performance for Petroleum Refineries (7/1/00)** | | |
| 60.100 | Applicability | Y | |
| 60.104 | Standards for Sulfur Oxides: Compliance Schedule | Y | |
| 60.104(a)(1) | fuel gas H2S concentration limited to 230 mg/dscm (0.10 gr/dscf) except for gas burned as a result of process upset or gas burned at flares from relief valve leaks or other emergency malfunctions | Y | |
| 60.105 | Monitoring of Emissions and Operations | Y | |
| 60.105(a)(4) | monitoring requirement for H2S (dry basis) in fuel gas prior to combustion (in lieu of separate combustion device exhaust SO2 monitors as required by 60.105(a)(3)) | Y | |
| 60.105(e)(3)(ii) | Excess H2S emission definitions for 60.7(c) | Y | |
| 60.106(a) | Test methods and procedures | Y | |
| 60.106(e)(1) | Method 11 shall be used to verify compliance with 60.104(a)(1) | Y | |
| **40 CFR 60, Appendix A** | **Appendix A to Part 60 – Test Methods** | Y | |
| **NSPS 40 CFR 60 Appendix B** | **Performance Specifications** | | |
| Performance Specification 7 | H2S continuous emission monitoring systems | Y | |
| **BAAQMD Condition 1694** | | | |
| Part A.1a | Heat ratings, firing limits [Basis: Regulation 2-1-234.3] | Y | |
| Part A.2a | Fuel restrictions [Basis: Regulation 2, Rule 1] | Y | |
| Part A.3a | TRS testing requirement [Basis: SO2 Bubble] | Y | |
| Part A.3b | TRS reporting requirements [Basis: SO2 Bubble] | Y | |
| Part A.4 | SO2 emission limit [Basis: SO2 Bubble] | Y | |
| Part A.5 | Records [Basis: Regulation 2, Rule 1; SO2 Bubble; Regulation 2-6-409.2] | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – A.30
## Source-specific Applicable Requirements
## S337 – UNIT 231, B-105 HEATER

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| **BAAQMD Condition 20989, Part A** | Throughput limits for source S337 [Basis: 2-1-234.3] | Y | |
| **BAAQMD Condition 21235** | | | |
| Part 1 | Sources subject to Regulation 9-10–301 and 9-10-305 [Basis: Regulation 9-10-301, 9-10-305] | N | |
| Part 2 | O2 CEM requirement [Basis: Regulation 9-10-502] | N | |
| Part 3 | "NOx Box" requirement for sources without NOx CEMs [Basis: Regulation 9-10-502] | N | |
| Part 4 | "NOx Box" development procedure [Basis: Regulation 9-10-502] | N | |
| Part 5 | "NOx Box" parameters [Basis: Regulation 9-10-502] | N | |
| Part 6a | Allowed "NOx Box" deviations [Basis: Regulation 9-10-502] | N | |
| Part 6b | "NOx Box" deviation reporting requirement [Basis: Regulation 9-10-502] | N | |
| Part 7 | NOx, CO, O2 source test requirement for sources without NOx CEMs [Basis: Regulation 9-10-502] | N | |
| Part 9 | CO, O2 CEM requirement [Basis: Regulation 9-10-502, 1-522] | N | |
| Part 10 | Recordkeeping requirement [Basis: Regulation 9-10-504] | N | |

## Table IV – A.31
## Source-specific Applicable Requirements
## S351 – UNIT 267, B-601/602 HEATERS

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| **BAAQMD Regulation 1** | **General Provisions and Definitions (7/17/06)** | | |
| 1-107 | Combination of Emissions | Y | |
| 1-520 | Continuous Emission Monitoring | Y | |
| 1-520.8 | Monitors pursuant to Regulation 2-1-403 | Y | |
| 1-521 | Monitoring May Be Required | Y | |
| 1-522 | Continuous Emission Monitoring and Recordkeeping Procedures | | |

# IV. Source Specific Applicable Requirements

## Table IV – A.31
## Source-specific Applicable Requirements
## S351 – UNIT 267, B-601/602 HEATERS

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| 1-522.4 | reporting of inoperative CEMs | Y | |
| 1-522.5 | CEM calibration requirements | Y | |
| 1-522.6 | CEM accuracy requirements | Y | |
| 1-522.7 | emission limit exceedance reporting requirements | N | |
| 1-522.8 | monitoring data submittal requirements | Y | |
| 1-522.9 | recordkeeping requirements | Y | |
| 1-522.10 | Regulation 1-521 monitors shall meet requirements specified by District | Y | |
| 1-602 | Area and Continuous Monitoring Requirements | N | |
| **SIP Regulation 1** | **PROVISIONS NO LONGER IN CURRENT RULE General Provisions and Definitions (6/28/99)** | | |
| 1-522 | Continuous Emission Monitoring and Recordkeeping Procedures | Y – note 1 | |
| 1-522.7 | emission limit exceedance reporting requirements | Y - note 1 | |
| **BAAQMD Regulation 2, Rule 1** | **Regulation 2, Rule 1 - Permits, General Requirements (7/19/06)** | | |
| 2-1-403 | Permit conditions requiring measurement of emissions | N | |
| 2-1-501 | Monitors shall comply with Volume V of the Manual of Procedures | Y | |
| **SIP Regulation 2, Rule 1** | **PROVISIONS NO LONGER IN CURRENT RULE Permits, General Requirements (1/26/99)** | | |
| 2-1-403 | Permit conditions requiring measurement of emissions | Y – note 1 | |
| **BAAQMD Regulation 6** | **Particulate Matter and Visible Emissions (12/19/90)** | | |
| 6-301 | Ringelmann #1 Limitation | Y | |
| 6-305 | Visible Particles | Y | |
| 6-310.3 | Particulate Weight Limitation | Y | |
| **BAAQMD Manual of Procedures, Volume V** | **Continuous Emission Monitoring Policy and Procedures (1/20/82)** | Y | |
| **BAAQMD Regulation 9, Rule 10** | **Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon Monoxide from Boilers, Steam Generators, and Process Heaters in Petroleum Refineries (7/17/02)** | | |
| 9-10-301 | Emission Limit for Facility, NOx: 0.033 lb NOx/MMbtu | N | |

# IV. Source Specific Applicable Requirements

## Table IV – A.31
## Source-specific Applicable Requirements
## S351 – UNIT 267, B-601/602 HEATERS

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| 9-10-301.1 | ...Start-up/Shutdown Contribution | N | |
| 9-10-301.2 | ...Out-of-Service Units Contribution | N | |
| 9-10-301.3 | ...Test-firing on Non-gaseous fuel Contribution | N | |
| 9-10-303 | Federal Facility-wide NOx emission rate limit | Y | |
| 9-10-305 | CO emission limit | N | |
| 9-10-502 | Monitoring | Y | |
| 9-10-502.1 | CEMS for NOx, CO, and O2, or equivalent monitoring | N | |
| 9-10-502.2 | Fuel flowmeters | Y | |
| 9-10-504 | Recordkeeping | N | |
| 9-10-504.1 | Records | N | |
| 9-10-505 | Reporting | N | |
| 9-10-601 | Determination of NOx | N | |
| 9-10-602 | Determination of CO and Stack Gas O2 | N | |
| 9-10-603 | Compliance Determination | Y | |
| **40 CFR 60, Subpart J** | **Standards of Performance for Petroleum Refineries (7/1/00)** | | |
| 60.100 | Applicability | Y | |
| 60.104 | Standards for Sulfur Oxides: Compliance Schedule | Y | |
| 60.104(a)(1) | fuel gas H2S concentration limited to 230 mg/dscm (0.10 gr/dscf) except for gas burned as a result of process upset or gas burned at flares from relief valve leaks or other emergency malfunctions | Y | |
| 60.105 | Monitoring of Emissions and Operations | Y | |
| 60.105(a)(4) | monitoring requirement for H2S (dry basis) in fuel gas prior to combustion (in lieu of separate combustion device exhaust SO2 monitors as required by 60.105(a)(3)) | Y | |
| 60.105(e)(3)(ii) | Excess H2S emission definitions for 60.7(c) | Y | |
| 60.106(a) | Test methods and procedures | Y | |
| 60.106(e)(1) | Method 11 shall be used to verify compliance with 60.104(a)(1) | Y | |
| **40 CFR 60, Appendix A** | **Appendix A to Part 60 – Test Methods** | Y | |
| **40 CFR 60, Appendix B** | **Performance Specifications** | | |
| Performance Specification 7 | H2S continuous emission monitoring systems | Y | |
| **BAAQMD** | | | |

# IV. Source Specific Applicable Requirements

## Table IV – A.31
## Source-specific Applicable Requirements
## S351 – UNIT 267, B-601/602 HEATERS

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| **Condition 1694** | | | |
| Part A.1b | Heat ratings, firing limits [Basis: Regulation 2-1-301] | Y | |
| Part A.2a | Fuel restrictions [Basis: Regulation 2, Rule 1] | Y | |
| Part A.3a | TRS testing requirement [Basis: SO2 Bubble] | Y | |
| Part A.3b | TRS reporting requirements [Basis: SO2 Bubble] | Y | |
| Part A.4 | SO2 emission limit [Basis: SO2 Bubble] | Y | |
| Part A.5 | Records [Basis: Regulation 2, Rule 1; SO2 Bubble; Regulation 2-6-409.2] | Y | |
| Part B.1 | S351 abatement requirement [Basis: BACT, Cumulative Increase] | Y | |
| Part B.2 | S351 NOx emission limit [Basis: BACT, Cumulative Increase] | Y | |
| Part B.3 | S351 NOx, O2 CEM requirement [Basis: BACT, Cumulative Increase] | Y | |
| **BAAQMD Condition 20989, Part A** | Throughput limits for source S351 [Basis: 2-1-234.3] | Y | |
| **BAAQMD Condition 21235** | | | |
| Part 1 | Sources subject to Regulation 9-10–301 and 9-10-305 [Basis: Regulation 9-10-301, 9-10-305] | N | |
| Part 2 | O2 CEM requirement [Basis: Regulation 9-10-502] | N | |
| Part 8 | CO source test requirement for sources with NOx CEMs [Basis: Regulation 9-10-502] | N | |
| Part 9 | CO, O2 CEM requirement [Basis: Regulation 9-10-502, 1-522] | N | |
| Part 10 | Recordkeeping requirement [Basis: Regulation 9-10-504] | N | |

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

# IV. Source Specific Applicable Requirements

## Table IV – A.32
## Source-specific Applicable Requirements
## S371 – UNIT 228, B-520 FURNACE

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| **BAAQMD Regulation 1** | **General Provisions and Definitions (7/17/06)** | | |
| 1-107 | Combination of Emissions | Y | |
| 1-521 | Monitoring May Be Required | Y | |
| 1-522 | Continuous Emission Monitoring and Recordkeeping Procedures | | |
| 1-522.4 | reporting of inoperative CEMs | Y | |
| 1-522.5 | CEM calibration requirements | Y | |
| 1-522.6 | CEM accuracy requirements | Y | |
| 1-522.7 | emission limit exceedance reporting requirements | N | |
| 1-522.8 | monitoring data submittal requirements | Y | |
| 1-522.9 | recordkeeping requirements | Y | |
| 1-522.10 | Regulation 1-521 monitors shall meet requirements specified by District | Y | |
| 1-602 | Area and Continuous Monitoring Requirements | N | |
| **SIP Regulation 1** | **PROVISIONS NO LONGER IN CURRENT RULE General Provisions and Definitions (6/28/99)** | | |
| 1-522 | Continuous Emission Monitoring and Recordkeeping Procedures | Y – note 1 | |
| 1-522.7 | emission limit exceedance reporting requirements | Y - note 1 | |
| **BAAQMD Regulation 6** | **Particulate Matter and Visible Emissions (12/19/90)** | | |
| 6-301 | Ringelmann #1 Limitation | Y | |
| 6-305 | Visible Particles | Y | |
| 6-310.3 | Particulate Weight Limitation | Y | |
| **BAAQMD Manual of Procedures, Volume V** | **Continuous Emission Monitoring Policy and Procedures (1/20/82)** | Y | |
| **BAAQMD Regulation 9, Rule 10** | **Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon Monoxide from Boilers, Steam Generators, and Process Heaters in Petroleum Refineries (7/17/02)** | | |
| 9-10-301 | Emission Limit for Facility, NOx: 0.033 lb NOx/MMbtu | N | |
| 9-10-301.1 | ...Start-up/Shutdown Contribution | N | |
| 9-10-301.2 | ...Out-of-Service Units Contribution | N | |

# IV. Source Specific Applicable Requirements

## Table IV – A.32
## Source-specific Applicable Requirements
## S371 – UNIT 228, B-520 FURNACE

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| 9-10-301.3 | ...Test-firing on Non-gaseous fuel Contribution | N | |
| 9-10-303 | Federal Facility-wide NOx emission rate limit | Y | |
| 9-10-305 | CO emission limit | N | |
| 9-10-502 | Monitoring | Y | |
| 9-10-502.1 | CEMS for NOx, CO, and O2, or equivalent monitoring | N | |
| 9-10-502.2 | Fuel flowmeters | Y | |
| 9-10-504 | Recordkeeping | N | |
| 9-10-504.1 | Records | N | |
| 9-10-505 | Reporting | N | |
| 9-10-601 | Determination of NOx | N | |
| 9-10-602 | Determination of CO and Stack Gas O2 | N | |
| 9-10-603 | Compliance Determination | Y | |
| **40 CFR 60, Subpart J** | **Standards of Performance for Petroleum Refineries (7/1/00)** | | |
| 60.100 | Applicability | Y | |
| 60.104 | Standards for Sulfur Oxides: Compliance Schedule | Y | |
| 60.104(a)(1) | fuel gas H2S concentration limited to 230 mg/dscm (0.10 gr/dscf) except for gas burned as a result of process upset or gas burned at flares from relief valve leaks or other emergency malfunctions | Y | |
| 60.105 | Monitoring of Emissions and Operations | Y | |
| 60.105(a)(4) | monitoring requirement for H2S (dry basis) in fuel gas prior to combustion (in lieu of separate combustion device exhaust SO2 monitors as required by 60.105(a)(3)) | Y | |
| 60.105(e)(3)(ii) | Excess H2S emission definitions for 60.7(c) | Y | |
| 60.106(a) | Test methods and procedures | Y | |
| 60.106(e)(1) | Method 11 shall be used to verify compliance with 60.104(a)(1) | Y | |
| **40 CFR 60, Appendix A** | **Appendix A to Part 60 – Test Methods** | Y | |
| **40 CFR 60, Appendix B** | **Performance Specifications** | | |
| Performance Specification 7 | H2S continuous emission monitoring systems | Y | |
| **BAAQMD Condition** | | | |

# IV. Source Specific Applicable Requirements

## Table IV – A.32
## Source-specific Applicable Requirements
## S371 – UNIT 228, B-520 FURNACE

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| **1694** | | | |
| Part A.1b | Heat ratings, firing limits [Basis: Regulation 2-1-301] | Y | |
| Part A.2a | Fuel restrictions [Basis: Regulation 2, Rule 1] | Y | |
| Part A.3a | TRS testing requirement [Basis: SO2 Bubble] | Y | |
| Part A.3b | TRS reporting requirements [Basis: SO2 Bubble] | Y | |
| Part A.4 | SO2 emission limit [Basis: SO2 Bubble] | Y | |
| Part A.5 | Records [Basis: Regulation 2, Rule 1; SO2 Bubble; Regulation 2-6-409.2] | Y | |
| Part C.1 | S371, S372 abatement requirement [Basis: BACT, Cumulative Increase] | Y | |
| Part C.2 | S371, S372 NOx emission limits [Basis: BACT, Cumulative Increase] | Y | |
| Part C.3 | S371, S372 CO emission limits [Basis: BACT, Cumulative Increase] | Y | |
| **BAAQMD Condition 20989, Part A** | Throughput limits for source S371 [Basis: 2-1-234.3] | Y | |
| **BAAQMD Condition 21235** | | | |
| Part 1 | Sources subject to Regulation 9-10–301 and 9-10-305 [Basis: Regulation 9-10-301, 9-10-305] | N | |
| Part 2 | O2 CEM requirement [Basis: Regulation 9-10-502] | N | |
| Part 8 | CO source test requirement for sources with NOx CEMs [Basis: Regulation 9-10-502] | N | |
| Part 9 | CO, O2 CEM requirement [Basis: Regulation 9-10-502, 1-522] | N | |
| Part 10 | Recordkeeping requirement [Basis: Regulation 9-10-504] | N | |

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

# IV. Source Specific Applicable Requirements

## Table IV – A.33
## Source-specific Applicable Requirements
## S372 – UNIT 228, B-521 FURNACE

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| **BAAQMD Regulation 1** | **General Provisions and Definitions (7/17/06)** | | |
| 1-107 | Combination of Emissions | Y | |
| 1-521 | Monitoring May Be Required | Y | |
| 1-522 | Continuous Emission Monitoring and Recordkeeping Procedures | | |
| 1-522.4 | reporting of inoperative CEMs | Y | |
| 1-522.5 | CEM calibration requirements | Y | |
| 1-522.6 | CEM accuracy requirements | Y | |
| 1-522.7 | emission limit exceedance reporting requirements | N | |
| 1-522.8 | monitoring data submittal requirements | Y | |
| 1-522.9 | recordkeeping requirements | Y | |
| 1-522.10 | Regulation 1-521 monitors shall meet requirements specified by District | Y | |
| 1-602 | Area and Continuous Monitoring Requirements | N | |
| **SIP Regulation 1** | **PROVISIONS NO LONGER IN CURRENT RULE General Provisions and Definitions (6/28/99)** | | |
| 1-522 | Continuous Emission Monitoring and Recordkeeping Procedures | Y – note 1 | |
| 1-522.7 | emission limit exceedance reporting requirements | Y - note 1 | |
| **BAAQMD Regulation 6** | **Particulate Matter and Visible Emissions (12/19/90)** | | |
| 6-301 | Ringelmann #1 Limitation | Y | |
| 6-305 | Visible Particles | Y | |
| 6-310.3 | Particulate Weight Limitation | Y | |
| **BAAQMD Manual of Procedures, Volume V** | **Continuous Emission Monitoring Policy and Procedures (1/20/82)** | Y | |
| **BAAQMD Regulation 9, Rule 10** | **Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon Monoxide from Boilers, Steam Generators, and Process Heaters in Petroleum Refineries (7/17/02)** | | |
| 9-10-301 | Emission Limit for Facility, NOx: 0.033 lb NOx/MMbtu | N | |
| 9-10-301.1 | ...Start-up/Shutdown Contribution | N | |
| 9-10-301.2 | ...Out-of-Service Units Contribution | N | |
| 9-10-301.3 | ...Test-firing on Non-gaseous fuel Contribution | N | |

# IV. Source Specific Applicable Requirements

## Table IV – A.33
## Source-specific Applicable Requirements
## S372 – UNIT 228, B-521 FURNACE

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| 9-10-303 | Federal Facility-wide NOx emission rate limit | Y | |
| 9-10-305 | CO emission limit | N | |
| 9-10-502 | Monitoring | Y | |
| 9-10-502.1 | CEMS for NOx, CO, and O2, or equivalent monitoring | N | |
| 9-10-502.2 | Fuel flowmeters | Y | |
| 9-10-504 | Recordkeeping | N | |
| 9-10-504.1 | Records | N | |
| 9-10-505 | Reporting | N | |
| 9-10-601 | Determination of NOx | N | |
| 9-10-602 | Determination of CO and Stack Gas O2 | N | |
| 9-10-603 | Compliance Determination | Y | |
| **40 CFR 60, Subpart J** | **Standards of Performance for Petroleum Refineries (7/1/00)** | | |
| 60.100 | Applicability | Y | |
| 60.104 | Standards for Sulfur Oxides: Compliance Schedule | Y | |
| 60.104(a)(1) | fuel gas H2S concentration limited to 230 mg/dscm (0.10 gr/dscf) except for gas burned as a result of process upset or gas burned at flares from relief valve leaks or other emergency malfunctions | Y | |
| 60.105 | Monitoring of Emissions and Operations | Y | |
| 60.105(a)(4) | monitoring requirement for H2S (dry basis) in fuel gas prior to combustion (in lieu of separate combustion device exhaust SO2 monitors as required by 60.105(a)(3)) | Y | |
| 60.105(e)(3)(ii) | Excess H2S emission definitions for 60.7(c) | Y | |
| 60.106(a) | Test methods and procedures | Y | |
| 60.106(e)(1) | Method 11 shall be used to verify compliance with 60.104(a)(1) | Y | |
| **40 CFR 60, Appendix A** | **Appendix A to Part 60 – Test Methods** | Y | |
| **40 CFR 60, Appendix B** | **Performance Specifications** | | |
| Performance Specification 7 | H2S continuous emission monitoring systems | Y | |
| **BAAQMD Condition 1694** | | | |

# IV. Source Specific Applicable Requirements

## Table IV – A.33
## Source-specific Applicable Requirements
## S372 – UNIT 228, B-521 FURNACE

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| Part A.1b | Heat ratings, firing limits [Basis: Regulation 2-1-301] | Y | |
| Part A.2a | Fuel restrictions [Basis: Regulation 2, Rule 1] | Y | |
| Part A.3a | TRS testing requirement [Basis: SO2 Bubble] | Y | |
| Part A.3b | TRS reporting requirements [Basis: SO2 Bubble] | Y | |
| Part A.4 | SO2 emission limit [Basis: SO2 Bubble] | Y | |
| Part A.5 | Records [Basis: Regulation 2, Rule 1; SO2 Bubble; Regulation 2-6-409.2] | Y | |
| Part C.1 | S371, S372 abatement requirement [Basis: BACT, Cumulative Increase] | Y | |
| Part C.2 | S371, S372 NOx emission limits [Basis: BACT, Cumulative Increase] | Y | |
| Part C.3 | S371, S372 CO emission limits [Basis: BACT, Cumulative Increase] | Y | |
| **BAAQMD Condition 20989, Part A** | Throughput limits for source S372 [Basis: 2-1-234.3] | Y | |
| **BAAQMD Condition 21235** | | | |
| Part 1 | Sources subject to Regulation 9-10–301 and 9-10-305 [Basis: Regulation 9-10-301, 9-10-305] | N | |
| Part 2 | O2 CEM requirement [Basis: Regulation 9-10-502] | N | |
| Part 8 | CO source test requirement for sources with NOx CEMs [Basis: Regulation 9-10-502] | N | |
| Part 9 | CO, O2 CEM requirement [Basis: Regulation 9-10-502, 1-522] | N | |
| Part 10 | Recordkeeping requirement [Basis: Regulation 9-10-504] | N | |

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

# IV. Source Specific Applicable Requirements

## Table IV – A.34
## Source-specific Applicable Requirements
## S438 – UNIT 110, H-1 FURNACE

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| **BAAQMD Regulation 1** | **General Provisions and Definitions (7/17/06)** | | |
| 1-521 | Monitoring May Be Required | Y | |
| 1-522 | Continuous Emission Monitoring and Recordkeeping Procedures | | |
| 1-522.4 | reporting of inoperative CEMs | Y | |
| 1-522.5 | CEM calibration requirements | Y | |
| 1-522.6 | CEM accuracy requirements | Y | |
| 1-522.7 | emission limit exceedance reporting requirements | N | |
| 1-522.8 | monitoring data submittal requirements | Y | |
| 1-522.9 | recordkeeping requirements | Y | |
| 1-522.10 | Regulation 1-521 monitors shall meet requirements specified by District | Y | |
| 1-602 | Area and Continuous Monitoring Requirements | N | |
| **SIP Regulation 1** | **PROVISIONS NO LONGER IN CURRENT RULE General Provisions and Definitions (6/28/99)** | | |
| 1-522 | Continuous Emission Monitoring and Recordkeeping Procedures | Y – note 1 | |
| 1-522.7 | emission limit exceedance reporting requirements | Y - note 1 | |
| **BAAQMD Regulation 6** | **Particulate Matter and Visible Emissions (12/19/90)** | | |
| 6-301 | Ringelmann #1 Limitation | Y | |
| 6-304 | Tube Cleaning | Y | |
| 6-305 | Visible Particles | Y | |
| 6-310.3 | Particulate Weight Limitation | Y | |
| **BAAQMD Manual of Procedures, Volume V** | **Continuous Emission Monitoring Policy and Procedures (1/20/82)** | Y | |
| **40 CFR 60, Subpart J** | **Standards of Performance for Petroleum Refineries (7/1/00)** | | |
| 60.100 | Applicability | Y | |
| 60.104 | Standards for Sulfur Oxides: Compliance Schedule | Y | |
| 60.104(a)(1) | fuel gas H2S concentration limited to 230 mg/dscm (0.10 gr/dscf) except for gas burned as a result of process upset or gas burned at flares from relief valve leaks or other emergency malfunctions | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – A.34
## Source-specific Applicable Requirements
## S438 – UNIT 110, H-1 FURNACE

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| 60.105 | Monitoring of Emissions and Operations | Y | |
| 60.105(a)(4) | monitoring requirement for H2S (dry basis) in fuel gas prior to combustion (in lieu of separate combustion device exhaust SO2 monitors as required by 60.105(a)(3)) | Y | |
| 60.105(e)(3)(ii) | Excess H2S emission definitions for 60.7(c) | Y | |
| 60.106(a) | Test methods and procedures | Y | |
| 60.106(e)(1) | Method 11 shall be used to verify compliance with 60.104(a)(1) | Y | |
| **40 CFR 60, Appendix A** | **Appendix A to Part 60 – Test Methods** | Y | |
| **40 CFR 60, Appendix B** | **Performance Specifications** | | |
| Performance Specification 7 | H2S continuous emission monitoring systems | Y | |
| **BAAQMD Condition 1694** | | | |
| Part A.1c | Heat ratings, firing limits [Basis: Regulation 2-1-234.3] | Y | |
| Part A.2a | Fuel restrictions [Basis: Regulation 2, Rule 1] | Y | |
| Part A.3a | TRS testing requirement [Basis: SO2 Bubble] | Y | |
| Part A.3b | TRS reporting requirements [Basis: SO2 Bubble] | Y | |
| Part A.4 | SO2 emission limit [Basis: SO2 Bubble] | Y | |
| Part A.5 | Records [Basis: Regulation 2, Rule 1; SO2 Bubble; Regulation 2-6-409.2] | Y | |
| Part E.1 | S438 abatement requirement [Basis: BACT, Cumulative Increase] | Y | |
| Part E.2 | S438 annual firing limit [Basis: Cumulative Increase] | Y | |
| Part E.3 | S438 PSA offgas fuel TRS limit [Basis: BACT, Cumulative Increase] | Y | |
| Part E.4 | S438 NOx, CO and POC emission limits [Basis: BACT, Cumulative Increase] | Y | |
| Part E.5 | S438 fuel gas TRS limit [Basis: BACT, Cumulative Increase] | Y | |
| Part E.6 | S438 Records [Basis: Cumulative Increase] | Y | |
| Part E.7 | S438 modification startup source test requirement [Basis: BACT, Cumulative Increase] | Y | |
| Part E.8 | S438 modification startup source test requirement [Basis: BACT, | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – A.34
## Source-specific Applicable Requirements
## S438 – UNIT 110, H-1 FURNACE

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| | Cumulative Increase] | | |

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

## Table IV – A.35
## Source-specific Applicable Requirements
## S461 – UNIT 250, B-701 HEATER

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| **BAAQMD Regulation 1** | **General Provisions and Definitions (7/17/06)** | | |
| 1-520 | Continuous Emission Monitoring | Y | |
| 1-520.8 | Monitors pursuant to Regulation 2-1-403 | Y | |
| 1-521 | Monitoring May Be Required | Y | |
| 1-522 | Continuous Emission Monitoring and Recordkeeping Procedures | | |
| 1-522.4 | reporting of inoperative CEMs | Y | |
| 1-522.5 | CEM calibration requirements | Y | |
| 1-522.6 | CEM accuracy requirements | Y | |
| 1-522.7 | emission limit exceedance reporting requirements | N | |
| 1-522.8 | monitoring data submittal requirements | Y | |
| 1-522.9 | recordkeeping requirements | Y | |
| 1-522.10 | Regulation 1-521 monitors shall meet requirements specified by District | Y | |
| 1-602 | Area and Continuous Monitoring Requirements | N | |
| **SIP Regulation 1** | **PROVISIONS NO LONGER IN CURRENT RULE General Provisions and Definitions (6/28/99)** | | |
| 1-522 | Continuous Emission Monitoring and Recordkeeping Procedures | Y – note 1 | |
| 1-522.7 | emission limit exceedance reporting requirements | Y - note 1 | |
| **BAAQMD Regulation 2, Rule 1** | **Regulation 2, Rule 1 - Permits, General Requirements (7/19/06)** | | |
| 2-1-403 | Permit conditions requiring measurement of emissions | N | |

# IV. Source Specific Applicable Requirements

## Table IV – A.35
## Source-specific Applicable Requirements
## S461 – UNIT 250, B-701 HEATER

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| 2-1-501 | Monitors shall comply with Volume V of the Manual of Procedures | Y | |
| **SIP Regulation 2, Rule 1** | **PROVISIONS NO LONGER IN CURRENT RULE Permits, General Requirements (1/26/99)** | | |
| 2-1-403 | Permit conditions requiring measurement of emissions | Y – note 1 | |
| **BAAQMD Regulation 6** | **Particulate Matter and Visible Emissions (12/19/90)** | | |
| 6-301 | Ringelmann #1 Limitation | Y | |
| 6-305 | Visible Particles | Y | |
| 6-310.3 | Particulate Weight Limitation | Y | |
| **BAAQMD Manual of Procedures, Volume V** | **Continuous Emission Monitoring Policy and Procedures (1/20/82)** | Y | |
| **40 CFR 60, Subpart A** | **General Provisions (03/16/1994)** | | |
| 60.13 | Monitoring Requirements | Y | |
| 60.13(i) | Approval of Alternative Monitoring | Y | |
| **40 CFR 60, Subpart J** | **Standards of Performance for Petroleum Refineries (7/1/00)** | | |
| 60.100 | Applicability | Y | |
| 60.104 | Standards for Sulfur Oxides: Compliance Schedule | Y | |
| 60.104(a)(1) | fuel gas H2S concentration limited to 230 mg/dscm (0.10 gr/dscf) except for gas burned as a result of process upset or gas burned at flares from relief valve leaks or other emergency malfunctions | Y | |
| 60.105 | Monitoring of Emissions and Operations | Y | |
| 60.105(e)(3)(ii) | Excess H2S emission definitions for 60.7(c) | Y | |
| 60.106(a) | Test methods and procedures | Y | |
| 60.106(e)(1) | Method 11 shall be used to verify compliance with 60.104(a)(1) | Y | |
| **40 CFR 60, Appendix A** | **Appendix A to Part 60 – Test Methods** | Y | |
| **NSPS 40 CFR 60 Appendix B** | **Performance Specifications** | | |

# IV. Source Specific Applicable Requirements

## Table IV – A.35
## Source-specific Applicable Requirements
## S461 – UNIT 250, B-701 HEATER

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| Performance Specification 7 | H2S continuous emission monitoring systems | Y | |
| **BAAQMD Condition 1694** | | | |
| Part A.2a | Fuel restrictions [Basis: Regulation 2, Rule 1] | Y | |
| Part A.4 | SO2 emission limit [Basis: SO2 Bubble] | Y | |
| Part A.5c | Records of SO2 emissions [Basis: Regulation 2, Rule 1; SO2 Bubble; Regulation 2-6-409.2] | Y | |
| **BAAQMD Condition 21096** | | | |
| Part 1 | Fuel restrictions [Basis: BACT, Cumulative Increase] | Y | |
| Part 2 | Heat ratings, annual firing limits [Basis: Cumulative Increase] | Y | |
| Part 3a | Abatement requirement [Basis: BACT, Cumulative Increase] | Y | |
| Part 3b | Emission rate limits [Basis: BACT, Cumulative Increase] | Y | |
| Part 3c | Ammonia limit [Basis: Toxic Management] | N | |
| Part 4 | Continuous fuel monitor requirement [Basis: Cumulative Increase] | Y | |
| Part 5a | NOx, O2 CEM requirement [Basis: BACT, Cumulative Increase] | Y | |
| Part 5b | Annual CO source test requirement [Basis: BACT, Cumulative Increase] | Y | |
| Part 6 | Fuel gas TRS concentration limit [Basis: BACT, Cumulative Increase, SO2 bubble] | Y | |
| Part 7a | TRS testing requirement [Basis: BACT, Cumulative Increase, SO2 Bubble] | Y | |
| Part 7b | TRS records requirement [Basis: BACT, Cumulative Increase, SO2 Bubble] | Y | |
| Part 10 | Recordkeeping [Basis: 2-6-503] | Y | |
| **BAAQMD Condition 21099** | | | |
| Part 1 | Light hydrocarbon control valve requirements [Basis: BACT] | Y | |
| Part 2 | Light hydrocarbon flange/connector requirements [Basis: BACT] | Y | |
| Part 3 | Centrifugal compressor requirements [Basis: BACT] | Y | |
| Part 4 | Light hydrocarbon centrifugal pump requirements [Basis: BACT] | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – A.35
## Source-specific Applicable Requirements
## S461 – UNIT 250, B-701 HEATER

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| Part 5 | Monitoring and repair program requirement [Basis: BACT] | Y | |
| Part 6 | ULSD project component count report requirement [Basis: BACT, Cumulative Increase, Toxic Management Policy] | Y | |

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

## Table IV – B
## Source-specific Applicable Requirements
## S400 WET WEATHER WASTEWATER SUMP
## S401 DRY WEATHER WASTEWATER SUMP

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| **40 CFR 60, Subpart QQQ** | **Standards of Performance for VOC Emissions from Petroleum Refinery Wastewater Systems (8/18/95)** | | |
| 60.690(a)(1) | Applicability: Subpart QQQ applies to affected facilities constructed, modified, or reconstructed after May 4, 1987 | Y | |
| 60.690(a)(2) | Wastewater sumps are considered part of an individual drain system which is a separate affected facility | Y | |
| 60.692-1(a) | The provisions of Subpart QQQ apply except during periods of startup, shutdown, or malfunction | Y | |
| 60.692-1(b) | Determine compliance through review of records and reports, performance test results, and inspections | Y | |
| 60.692-2 (c)(1) | Wastewater sumps in the wastewater process sewer line shall not be open to the atmosphere and shall be covered or enclosed in a manner with no visible gaps or cracks in joints, seals. | Y | |
| 60.692-2 (c)(2) | The portion of each unburied wastewater sump in the wastewater process sewer line shall be visually inspected semiannually for indication of cracks, gaps, or other problems that could result in VOC emissions | Y | |
| 60.692-2 (c)(3) | Whenever cracks, gaps, or other problems are detected, repairs shall be made as soon as practicable, but not later than 15 calendar days after identification, except as provided in 60.692-6. | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – B
## Source-specific Applicable Requirements
## S400 WET WEATHER WASTEWATER SUMP
## S401 DRY WEATHER WASTEWATER SUMP

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| 60.692-6(a) | Delays of repairs are allowed if the repair is technically impossible without a complete or partial refinery or process unit shutdown. | Y | |
| 60.692-6(b) | Delayed repairs shall be completed before the end of the next refinery or process unit shutdown. | Y | |
| 60.697(a) | Each owner or operator shall comply with the recordkeeping provisions of Subpart QQQ. | Y | |
| 60.697(b)(3) | Record the location, date, and corrective action for inspections required by 60.692-2(c) when a problem is identified that could result in VOC emissions. | Y | |
| 60.697(e)(1) | If an emission point cannot be repaired or corrected without a process unit shutdown, record the expected date of a successful repair. | Y | |
| 60.697(e)(2) | The reason for the delay as specified in 60.692-6 shall be recorded if an emission point or equipment problem is not repaired or corrected in the specified amount of time. | Y | |
| 60.697(e)(3) | The signature of the owner or operator whose decision it was that repair could not be effected without refinery or process shutdown shall be recorded. | Y | |
| 60.697(e)(4) | The date of successful repair or corrective action shall be recorded. | Y | |
| 60.697(f)(1) | A copy of the design specifications for all equipment used to comply with the provisions of this subpart shall be kept for the life of the source in a readily accessible location. | Y | |
| 60.697(f)(2) | Detailed information pertaining to the design specifications shall be kept. | Y | |
| 60.698(b)(1) | Submit semiannually to the Administrator a certification that all of the required inspections have been carried out in accordance with Subpart QQQ standards. | Y | |
| 60.698(c) | Submit semiannually to the Administrator a report that summarizes all inspections when cracks, gaps, or other problems that could result in VOC emissions are identified, including information about the repairs or corrective actions taken | Y | |
| **BAAQMD Condition 1440** | | | |
| Part 4b | No detectable VOC from equipment [Basis: Cumulative Increase] | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – B
## Source-specific Applicable Requirements
## S400 WET WEATHER WASTEWATER SUMP
## S401 DRY WEATHER WASTEWATER SUMP

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| Part 5 | Semiannual VOC monitoring and records [Basis: Cumulative Increase] | Y | |
| **BAAQMD Condition 20989, Part A** | Throughput limits for sources S400, S401 [Basis: 2-1-234.3] | Y | |

## Table IV - C
## Source-specific Applicable Requirements
## S324 API OIL/WASTEWATER SEPARATOR

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| **BAAQMD Regulation 8, Rule 8** | **Wastewater (Oil-Water) Separator (6/15/94)** | **N** | |
| 8-8-113 | Exemption, secondary wastewater treatment processes and storm water sewer systems | Y | |
| 8-8-114 | Exemption, bypassed oil-water separator or air flotation influent | Y | |
| 8-8-302 | Wastewater separators rated capacity larger than or equal to 18.9 liters per seconds (300 gal/min), must be equipped with one of the following: | Y | |
| 8-8-302.1 | a solid, vapor-tight, full contact fixed cover which totally encloses the separator tank, chamber, or basin liquid contents, with all cover openings closed and sealed, except when the opening is being used for inspection, maintenance, or wastewater sampling. | Y | |
| 8-8-306 | Wastewater separator **effluent channels** rated capacity larger than or equal to 25.2 liters per second (400 gal/min) must be equipped with one of the following: | Y | |
| 8-8-306.1 | a solid, gasketed, fixed cover total enclosing the oil-water separator **effluent channel** liquid contents, with all cover openings closed, except when being used for inspection, maintenance, or wastewater sampling. | Y | |
| 8-8-501 | Maintain records when wastewater bypasses the API Separator or the | Y | |

# IV. Source Specific Applicable Requirements

## Table IV - C
## Source-specific Applicable Requirements
## S324 API OIL/WASTEWATER SEPARATOR

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| | Air Floatation Unit | | |
| 8-8-503 | Maintain records for semiannual gap inspections, closure requirements, and repairs for oil-water separator **effluent channel** fixed roof seals, access doors, and other openings. | Y | |
| **40 CFR 60, Subpart QQQ** | **Standards of Performance for VOC Emissions from Petroleum Refinery Wastewater Systems (8/18/95)** | **N** | |
| 60.690(a)(1) | Applicability: Subpart QQQ applies to affected facilities constructed, modified, or reconstructed after May 4, 1987 | Y | |
| 60.690(a)(3) | An oil-water separator is a separate affected facility | Y | |
| 60.692-1(a) | The provisions of Subpart QQQ apply except during periods of startup, shutdown, or malfunction | Y | |
| 60.692-1(b) | Determine compliance through review of records and reports, performance test results, and inspections | Y | |
| | | | |
| 60.692-3 (a) | Each oil-water separator tank, slop oil tank, storage vessel, or other auxiliary equipment shall be equipped and operated with a fixed roof which meets the following specifications: | Y | |
| 60.692-3 (a)(1) | The fixed roof shall completely cover the separator tank, slop oil tank, storage vessel or other auxiliary equipment. | Y | |
| 60.692-3 (a)(2) | The vapor space under a fixed roof shall not be purged unless the vapor is directed to a control device. | Y | |
| 60.692-3 (a)(3) | Roof access doors or openings shall be gasketed, latched, and kept closed during operation, except during inspection and maintenance. | Y | |
| 60.692-3 (a)(4) | Roof seals, access doors, and other openings shall be checked by visual inspection initially and semiannually thereafter. | Y | |
| 60.692-3 (a)(5) | When a broken seal or gasket or other problem is identified repairs shall be attempted as soon as practicable, but no later than 15 days later. | Y | |
| 60.692-3 (e) | Slop oil from an oil-water separator and oily wastewater from slop oil handling equipment shall be collected, stored, transported, recycled, reused, or disposed of in an enclosed system. | Y | |
| 60.692-6(a) | Delays of repairs are allowed if the repair is technically impossible without a complete or partial refinery or process unit shutdown. | Y | |
| 60.692-6(b) | Delayed repairs shall be completed before the end of the next refinery or process unit shutdown. | Y | |

# IV. Source Specific Applicable Requirements

## Table IV - C
## Source-specific Applicable Requirements
## S324 API OIL/WASTEWATER SEPARATOR

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| 60.697(a) | Each owner or operator shall comply with the recordkeeping provisions of Subpart QQQ. | Y | |
| 60.697(c) | Record the location, date, and corrective action for inspections required by 60.692-3(a) when a problem is identified that could result in VOC emissions. | Y | |
| 60.697(e)(1) | If an emission point cannot be repaired or corrected without a process unit shutdown, record the expected date of a successful repair. | Y | |
| 60.697(e)(2) | The reason for the delay as specified in 60.692-6 shall be recorded if an emission point or equipment problem is not repaired or corrected in the specified amount of time. | Y | |
| 60.697(e)(3) | The signature of the owner or operator whose decision it was that repair could not be effected without refinery or process shutdown shall be recorded. | Y | |
| 60.697(e)(4) | The date of successful repair or corrective action shall be recorded. | Y | |
| 60.697(f)(1) | A copy of the design specifications for all equipment used to comply with the provisions of this subpart shall be kept for the life of the source in a readily accessible location. | Y | |
| 60.697(f)(2) | Detailed information pertaining to the design specifications shall be kept. | Y | |
| 60.698(b)(1) | Submit semiannually to the Administrator a certification that all of the required inspection have been carried out in accordance with Subpart QQQ standards. | Y | |
| 60.698(c) | Submit semiannually to the Administrator a report that summarizes all inspections when cracks, gaps, or other problems that could result in VOC emissions are identified, including information about the repairs or corrective actions taken | Y | |
| **BAAQMD Condition 1440** | | | |
| Part 1 | No vapor space in separator [Basis: Cumulative Increase] | Y | |
| Part 4a | No detectable VOC from doors, hatches, covers or other openings [Basis: Cumulative Increase] | Y | |
| Part 5 | Semiannual VOC monitoring and records [Basis: Cumulative Increase] | Y | |
| Part 6 | Maximum wastewater throughput [Basis: Cumulative Increase] | Y | |
| **BAAQMD** | Throughput limit for source S324 [Basis: 2-1-234.3] | Y | |

# IV. Source Specific Applicable Requirements

## Table IV - C
## Source-specific Applicable Requirements
## S324 API OIL/WASTEWATER SEPARATOR

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| **Condition 20989, Part A** | | | |

# IV. Source Specific Applicable Requirements

## Table IV – D
## Source-specific Applicable Requirements
## S1007 DISSOLVED AIR FLOTATION UNIT

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| **BAAQMD Regulation 8, Rule 8** | **Wastewater (Oil-Water) Separator** | **N** | |
| 8-8-307 | Air Flotation Unit: any air flotation unit and/or pre-air flotation unit flocculation sump, basin, chamber or tank with a maximum allowable capacity greater than 400 gals/min unless is equipped with one of the following: | Y | |
| 8-8-307.1 | a solid, gasketed, fixed cover totally enclosing the vessel liquid contents, with all cover openings closed, except for inspection, maintenance, or wastewater sampling. The cover may include an atmospheric vent or a pressure/vacuum valve. Also includes gap inspection frequency and limits. | Y | |
| 8-8-503 | Maintain records for semiannual gap inspections, closure requirements, and repairs for oil-water separator **effluent channel** fixed roof seals, access doors, and other openings. | Y | |
| **BAAQMD Condition 1440** | | | |
| Part 4b | No detectable VOC from equipment [Basis: Cumulative Increase] | Y | |
| Part 5 | Semiannual VOC monitoring and records [Basis: Cumulative Increase] | Y | |
| Part 6 | Maximum wastewater throughput [Basis: Cumulative Increase] | Y | |
| **BAAQMD Condition 20989, Part A** | Throughput limit for S1007 [Basis: 2-1-234.3] | Y | |

# IV. Source Specific Applicable Requirements

## Table IV - E
## Source-specific Applicable Requirements – Wastewater
## PONDS/BIOTREATERS/SURFACE IMPOUNDMENTS
## S381 AERATION TANK F-201; S382 AERATION TANK F-202; S383 CLARIFIER F-203; S384 CLARIFIER F-204

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| **BAAQMD Condition 1440** | | | |
| Part 4c | No detectable VOC from equipment [Basis: Cumulative Increase] | Y | |
| Part 5 | Semiannual VOC monitoring and records [Basis: Cumulative Increase] | Y | |
| **BAAQMD Condition 20989, Part A** | Throughput limits for sources S381, S382, S383, S384 [Basis: 2-1-234.3] | Y | |

# IV. Source Specific Applicable Requirements

## Table IV - F
## Source-specific Applicable Requirements – Wastewater
## PONDS/BIOTREATERS/SURFACE IMPOUNDMENTS
## S1008 PRIMARY STORMWATER BASIN
## S1009 MAIN STORMWATER BASIN

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| **BAAQMD Regulation 8, Rule 8** | **Wastewater (Oil-Water) Separator (6/15/94)** | **N** | |
| 8-8-114 | Exemption, bypassed oil-water separator or air flotation influent | Y | |
| 8-8-501 | API Separator or Air Flotation Bypassed Wastewater Records: record requirements for water which bypasses normal treatment and is diverted to S1008, S1009 | Y | |
| **BAAQMD Condition 1440** | | | |
| Part 2 | Minimize diversion of wastewater to S1008, S1009 [Basis: Cumulative Increase] | Y | |
| Part 3 | Records of wastewater diversions to S1008, S1009 [Basis: Cumulative Increase] | Y | |

## Table IV – G
## Source-specific Applicable Requirements – Miscellaneous Wastewater Sources Subject to Condition 1440
## S385 – WASTEWATER EFFLUENT MEDIA FILTER F271-F278
## S386 – PAC REGENERATION SLUDGE THICKENER F-211
## S387 – WET AIR REGENERATION SYSTEM P-202
## S390 – THICKENED SLUDGE STORAGE F-106
## S392 – REGENERATED PAC SLURRY STORAGE F-266

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| **BAAQMD Condition 1440** | | | |
| Part 4c | No detectable VOC from equipment [Basis: Cumulative Increase] | Y | |
| Part 5 | Semiannual VOC monitoring and records [Basis: Cumulative Increase] | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – G
## Source-specific Applicable Requirements – Miscellaneous Wastewater Sources Subject to Condition 1440
## S385 – WASTEWATER EFFLUENT MEDIA FILTER F271-F278
## S386 – PAC REGENERATION SLUDGE THICKENER F-211
## S387 – WET AIR REGENERATION SYSTEM P-202
## S390 – THICKENED SLUDGE STORAGE F-106
## S392 – REGENERATED PAC SLURRY STORAGE F-266

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| **BAAQMD Condition 20989, Part A** | Throughput limits for sources S385, S386, S387, S390, S392 [Basis: 2-1-234.3] | Y | |

## Table IV - H
## Source-specific Applicable Requirements
### WASTEWATER JUNCTION BOXES

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| **BAAQMD Regulation 8, Rule 8** | **Wastewater (Oil-Water) Separator (6/15/94)** | **N** | |
| 8-8-308 | Junction Box: equipped with either a solid, gasketed, fixed cover totally enclosing the junction box or a solid manhole cover. May include openings in the covers and vent pipes if the total open area of the junction box does not exceed 12.6 square inches and all vent pipes are at least 3 feet in length. | Y | |
| **40 CFR 60, Subpart QQQ** | **Standards of Performance for VOC Emissions from Petroleum Refinery Wastewater Systems (8/18/95) [APPLIES ONLY TO J-BOXES DOWNSTREAM OF S400, S401 SUMPS]** | **N** | |
| 60.690(a)(1) | Applicability: Subpart QQQ applies to affected facilities constructed, modified, or reconstructed after May 4, 1987 | Y | |
| 60.690(a)(2) | Wastewater junction boxes are considered part of an individual drain system which is a separate affected facility | Y | |
| 60.692-1(a) | The provisions of Subpart QQQ apply except during periods of startup, shutdown, or malfunction | Y | |
| 60.692-1(b) | Determine compliance through review of records and reports, | Y | |

# IV. Source Specific Applicable Requirements

## Table IV - H
## Source-specific Applicable Requirements
### WASTEWATER JUNCTION BOXES

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| | performance test results, and inspections | | |
| 60.692-2 (b)(1) | Junction boxes shall be equipped with a cover and may have an open vent pipe which is at least 3 feet in length and does not exceed 4 inches in diameter. | Y | |
| 60.692-2 (b)(2) | Junction box covers shall have a tight seal around the edge and shall be kept in place at all times, except during inspection and maintenance. | Y | |
| 60.692-2 (b)(3) | Junction box shall be visually inspected semiannually to ensure that the cover is in place and to ensure that the cover has a tight seal around the edge. | Y | |
| 60.692-2 (b)(4) | If a broken seal or gap is identified, first effort at repair shall be made as soon as practicable, but not later than 15 calendar days after the broken seal or gap is identified, except as provided in 60.692-6. | Y | |
| 60.692-2 (e) | Refinery wastewater routed through new process drains and a new first common downstream junction box, shall not be routed through a downstream catch basin. | Y | |
| 60.692-6(a) | Delays of repairs are allowed if the repair is technically impossible without a complete or partial refinery or process unit shutdown. | Y | |
| 60.692-6(b) | Delayed repairs shall be completed before the end of the next refinery or process unit shutdown. | Y | |
| 60.697(a) | Each owner or operator shall comply with the recordkeeping provisions of Subpart QQQ. | Y | |
| 60.697(b)(2) | Record the location, date, and corrective action for inspections required by 60.692-2(b) when a broken seal, gap or other problem is identified that could result in VOC emissions. | Y | |
| 60.697(e)(1) | If an emission point cannot be repaired or corrected without a process unit shutdown, record the expected date of a successful repair. | Y | |
| 60.697(e)(2) | The reason for the delay as specified in 60.692-6 shall be recorded if an emission point or equipment problem is not repaired or corrected in the specified amount of time. | Y | |
| 60.697(e)(3) | The signature of the owner or operator whose decision it was that repair could not be effected without refinery or process shutdown shall be recorded. | Y | |
| 60.697(e)(4) | The date of successful repair or corrective action shall be recorded. | Y | |
| 60.697(f)(1) | A copy of the design specifications for all equipment used to comply | Y | |

# IV. Source Specific Applicable Requirements

## Table IV - H
## Source-specific Applicable Requirements
### WASTEWATER JUNCTION BOXES

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| | with the provisions of this subpart shall be kept for the life of the source in a readily accessible location. | | |
| 60.697(f)(2) | Detailed information pertaining to the design specifications shall be kept. | Y | |
| 60.698(b)(1) | Submit semiannually to the Administrator a certification that all of the required inspections have been carried out in accordance with Subpart QQQ standards. | Y | |
| 60.698(c) | Submit semiannually to the Administrator a report that summarizes all inspections when cracks, gaps, or other problems that could result in VOC emissions are identified, including information about the repairs or corrective actions taken | Y | |

## Table IV – I
## Source-specific Applicable Requirements
### WASTEWATER PROCESS SEWERS/SEWER LINES – S324 OIL/WATER SEPARATOR ONLY

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| **40 CFR 60, Subpart QQQ** | **Standards of Performance for VOC Emissions from Petroleum Refinery Wastewater Systems (8/18/95)** | | |
| 60.690(a)(1) | Applicability: Subpart QQQ applies to affected facilities constructed, modified, or reconstructed after May 4, 1987 | Y | |
| 60.690(a)(2) | Wastewater process sewer lines are considered part of an individual drain system which is a separate affected facility | Y | |
| 60.692-1(a) | The provisions of Subpart QQQ apply except during periods of startup, shutdown, or malfunction | Y | |
| 60.692-1(b) | Determine compliance through review of records and reports, performance test results, and inspections | Y | |
| 60.692-2 (c)(1) | Sewer lines shall not be open to the atmosphere and shall be covered or enclosed in a manner with no visible gaps or cracks in joints, seals. | Y | |
| 60.692-2 (c)(2) | The portion of each unburied sewer line shall be visually inspected semiannually for indication of cracks, gaps, or other problems that could result in VOC emissions | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – I
## Source-specific Applicable Requirements
### WASTEWATER PROCESS SEWERS/SEWER LINES – S324 OIL/WATER SEPARATOR ONLY

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| 60.692-2 (c)(3) | Whenever cracks, gaps, or other problems are detected, repairs shall be made as soon as practicable, but not later than 15 calendar days after identification, except as provided in 60.692-6. | Y | |
| 60.692-6(a) | Delay of repairs are allowed if the repair is technically impossible without a complete or partial refinery or process unit shutdown. | Y | |
| 60.692-6(b) | Delayed repairs shall be completed before the end of the next refinery or process unit shutdown. | Y | |
| 60.697(a) | Each owner or operator shall comply with the recordkeeping provisions of Subpart QQQ. | Y | |
| 60.697(b)(3) | Record the location, date, and corrective action for inspections required by 60.692-2(c) when a problem is identified that could result in VOC emissions. | Y | |
| 60.697(e)(1) | If an emission point cannot be repaired or corrected without a process unit shutdown, record the expected date of a successful repair. | Y | |
| 60.697(e)(2) | The reason for the delay as specified in 60.692-6 shall be recorded if an emission point or equipment problem is not repaired or corrected in the specified amount of time. | Y | |
| 60.697(e)(3) | The signature of the owner or operator whose decision it was that repair could not be effected without refinery or process shutdown shall be recorded. | Y | |
| 60.697(e)(4) | The date of successful repair or corrective action shall be recorded. | Y | |
| 60.697(f)(1) | A copy of the design specifications for all equipment used to comply with the provisions of this subpart shall be kept for the life of the source in a readily accessible location. | Y | |
| 60.697(f)(2) | Detailed information pertaining to the design specifications shall be kept. | Y | |
| 60.698(b)(1) | Submit semiannually to the Administrator a certification that all of the required inspections have been carried out in accordance with Subpart QQQ standards. | Y | |
| 60.698(c) | Submit semiannually to the Administrator a report that summarizes all inspections when cracks, gaps, or other problems that could result in VOC emissions are identified, including information about the repairs or corrective actions taken | Y | |

# IV. Source Specific Applicable Requirements

## Table IV - J
## Source-specific Applicable Requirements
### WASTEWATER GAUGING AND SAMPLING DEVICES

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| **BAAQMD Regulation 8, Rule 8** | **Wastewater (Oil-Water) Separator (6/15/94)** | | |
| 8-8-303 | Gauging and Sampling Devices: Any compartment or access hatch shall have a vapor tight cover, seal, or lid that is closed, except for inspection, maintenance, or wastewater sampling. | Y | |
| 8-8-603 | Vapor tight inspections shall be conducted using a portable gas detector as prescribed in EPA Reference Method 21 (40 CFR 60, Appendix A). | Y | |

## Table IV - K
## Source-specific Applicable Requirements
### S294 – NON-RETAIL GASOLINE DISPENSING FACILITY

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| **BAAQMD Regulation 8, Rule 7** | **Organic Compounds - Gasoline Dispensing Facilities (11/6/02)** | | |
| 8-7-113 | Tank Gauging and Inspection Exemption | Y | |
| 8-7-301 | Phase I Requirements | Y | |
| 8-7-301.1 | Requirement for CARB Phase I System | Y | |
| 8-7-301.2 | Installation of Phase I Equipment per CARB Requirements | Y | |
| 8-7-301.3 | Submerged Fill Pipes | Y | |
| 8-7-301.5 | Maintenance of Phase I Equipment per Manufacturers Guidelines or CARB Executive Order | Y | |
| 8-7-301.6 | Leak-Free, Vapor-Tight | Y | |
| 8-7-301.7 | Poppetted Drybreaks | Y | |
| 8-7-301.8 | No Coaxial Phase 1 Systems on New and Modified Tanks | Y | |
| 8-7-301.9 | CARB-Certified Anti-Rotational Coupler or Swivel Adapter | Y | |
| 8-7-301.10 | System Vapor Recovery Rate | Y | |
| 8-7-301.11 | CARB-Certified Spill Box | Y | |
| 8-7-301.12 | Drain Valve Permanently Plugged | Y | |
| 8-7-301.13 | Annual Phase I testing | Y | |

# IV. Source Specific Applicable Requirements

## Table IV - K
## Source-specific Applicable Requirements
## S294 – NON-RETAIL GASOLINE DISPENSING FACILITY

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| 8-7-302 | Phase II Requirements | Y | |
| 8-7-302.1 | Requirement for CARB Certified Phase II System | Y | |
| 8-7-302.2 | Maintenance of Phase II System per CARB Requirements | Y | |
| 8-7-302.3 | Maintenance of All Equipment as Specified by Manufacturer | Y | |
| 8-7-302.4 | Repair of Defective Parts Within 7 Days | Y | |
| 8-7-302.5 | Leak-Free, Vapor-Tight | Y | |
| 8-7-302.6 | Insertion Interlocks | Y | |
| 8-7-302.7 | Built-In Vapor Check Valve | Y | |
| 8-7-302.8 | Minimum Liquid Removal Rate | Y | |
| 8-7-302.9 | Coaxial Hose | Y | |
| 8-7-302.10 | Galvanized Piping or Flexible Tubing | Y | |
| 8-7-302.12 | Liquid Retainment Limit | Y | |
| 8-7-302.13 | Spitting Limit | YN | |
| 8-7-302.14 | Annual balance Phase II backpressure test | Y | |
| 8-7-302.15 | Annual vacuum assist Phase II test | N | |
| 8-7-303 | Topping Off | Y | |
| 8-7-304 | Certification Requirements | Y | |
| 8-7-306 | Prohibition of Use | Y | |
| 8-7-307 | Posting of Operating Instructions | Y | |
| 8-7-308 | Operating Practices | Y | |
| 8-7-309 | Contingent Vapor Recovery Requirements | Y | |
| 8-7-313 | Requirements for New or Modified Phase II Installations | Y | |
| 8-7-315 | Pressure Vacuum Valve Requirement, Underground Storage Tank | Y | |
| 8-7-401 | Permit Requirements, New and Modified Installations | Y | |
| 8-7-406 | Testing Requirements, New and Modified Installations | Y | |
| 8-7-407 | Periodic Testing | Y | |
| 8-7-408 | Periodic Testing Notification | Y | |
| 8-7-501 | Burden of Proof | Y | |
| 8-7-502 | Right of Access | Y | |
| 8-7-503 | Record Keeping Requirements | Y | |
| 8-7-503.1 | Gasoline Dispensed Records | Y | |
| 8-7-503.2 | Dispensing Facility Maintenance Records | Y | |
| 8-7-503.3 | Dispensing Records Retention | Y | |
| **BAAQMD** | Gasoline throughput shall not exceed 400,000 gallons in any | N | |

# IV. Source Specific Applicable Requirements

## Table IV - K
## Source-specific Applicable Requirements
## S294 – NON-RETAIL GASOLINE DISPENSING FACILITY

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| **Condition 7523** | consecutive 12-month period. [Basis: Toxic Risk Policy] | | |
| **BAAQMD Condition 18680** | | | |
| Part 1 | Operation and maintenance standards for vapor recovery system (CARB Executive Order VR-101) | N | |
| Part 2 | 36-month testing requirement | N | |
| **BAAQMD Condition 20989, Part A** | Throughput limits for S294 [Basis: 2-1-234.3] | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – L.1
## Source-specific Applicable Requirements
## S296 – C-1 FLARE

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| **District Regulation 6** | **Particulate Matter and Visible Emissions (12/19/90)** | | |
| 6-301 | Ringelmann Number 1 Limitation | Y | |
| 6-305 | Visible Particles | Y | |
| 6-310 | Particulate Weight Limitation | Y | |
| **BAAQMD Regulation 12, -Rule 11** | **Flare Monitoring at Petroleum Refineries (06/04/03)** | | |
| 12-11-401 | Flare Data Reporting Requirements | N | |
| 12-11-402 | Flow Verification Report | N | |
| 12-11-501 | Vent Gas Flow Monitoring | N | |
| 12-11-502 | Vent Gas Composition Monitoring | N | |
| 12-11-502.3 | Vent Gas Composition Monitoring | N | |
| 12-11-503 | Pilot Monitoring | N | |
| 12-11-504 | Pilot and Purge Gas Monitoring | N | |
| 12-11-505 | Recordkeeping Requirements | N | |
| 12-11-506 | General Monitoring Requirements | N | |
| 12-11-506.1 | Periods of Inoperation of Vent Gas Monitoring | N | |
| 12-11-507 | Video Monitoring | N | |
| **BAAQMD Regulation 12, Rule 12** | **Flares at Petroleum Refineries (07/20/05)** | | |
| 12-12-301 | Flare Minimization | N | |
| 12-12-401 | Flare Minimization Plan Requirements | N | |
| 12-12-402 | Submission of Flare Minimization Plans | N | |
| 12-12-403 | Review and Approval of Flare Minimization Plans | N | |
| 12-12-404 | Update of Flare Minimization Plans | N | |
| 12-12-405 | Notification of Flaring | N | |
| 12-12-406 | Determination and Reporting of Cause | N | |
| 12-12-407 | Annual Reports | N | |
| 12-12-408 | Designation of Confidential Information | N | |
| 12-12-501 | Water Seal Integrity Monitoring | N | |

# IV. Source Specific Applicable Requirements

## Table IV – L.1
## Source-specific Applicable Requirements
## S296 – C-1 FLARE

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| **40 CFR Part 60 Subpart A** | **New Source Performance Standards – General Provisions (12/23/71)** | **Y** | |
| 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 record keeping | Y | |
| 60.8 | Performance tests | Y | |
| 60.9 | Availability of information | Y | |
| 60.10 | State authority | Y | |
| 60.11 | Compliance with standards and maintenance requirements | Y | |
| 60.11(a) | Compliance determined by performance tests | Y | |
| 60.11(d) | Control devices operated using good air pollution control practice | Y | |
| 60.12 | Circumstances | Y | |
| 60.14 | Modifications | Y | |
| 60.15 | Reconstruction | Y | |
| 60.16 | Priority list | Y | |
| 60.17 | Incorporation by reference | Y | |
| 60.19 | General notification and reporting requirements | Y | |
| **NSPS 40 CFR 60 Subpart J** | **Standards of Performance for Petroleum Refineries (7/1/00)** | | |
| 60.104 | Standards for Sulfur Oxides: Compliance Schedule | Y | |
| 60.104(a)(1) | Exempt from fuel gas H2S limit if the flare is used only for startup, shutdown, upset, or emergency malfunction gas | Y | |
| **40 CFR 63, Subpart A** | **General Provisions (3/16/94)** | | |
| 63.11 | Control device requirements | Y | |
| 63.11(a) | Applicability | Y | |
| 63.11(b) | Flares | Y | |
| 63.11(b)(1) | Monitoring of flares | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – L.1
## Source-specific Applicable Requirements
## S296 – C-1 FLARE

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| 63.11(b)(2) | Types of flares | Y | |
| 63.11(b)(3) | Operation whenever emissions from S306 or S308 regeneration vented to flare | Y | |
| 63.11(b)(4) | Limit on visible emissions whenever emissions from S306 or S308 regeneration vented to flare | Y | |
| 63.11(b)(5) | Flame present at all times | Y | |
| 63.11(b)(6)(ii) | Net heating value of 300 btu/scf or greater whenever emissions from S306 or S308 regeneration vented to flare | Y | |
| 63.11(b)(7)(i) | Exit velocity less than 60 ft/sec whenever emissions from S306 or S308 regeneration vented to flare | Y | |
| **40 CFR 63 Subpart UUU** | **National Emission Standards for Hazardous Pollutants for Petroleum Refineries: Catalytic Cracking Units, Catalytic Reforming Units, and Sulfur Recovery Units (4/11/02)** | Y | |
| 63.1566(b)(2) | Conduct each performance test required by Table 18: 2-hr observation for visible emissions; determination of net heating value of gas (applies to regeneration emissions from S306 or S308 | Y | 1st Regen after 4/11/2005 |
| **Table 18** | **Requirements for Performance Tests for Organic HAP Emissions From Catalytic Reforming Units** | | |
| **BAAQMD Condition 18255** | | | |
| Part 3 | Flaring event definition [Basis: 2-6-409.2] | Y | |
| Part 4 | Flaring event inspection procedure [Basis: 6-301, 2-1-403] | Y | |
| Part 5 | Flaring event compliance criteria [Basis: 2-6-403] | Y | |
| Part 6 | Flaring event records [Basis: 2-6-501, 2-6-409.2] | Y | |

## Table IV – L.2
## Source-specific Applicable Requirements
## S398 – MP-30 FLARE

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

# IV. Source Specific Applicable Requirements

## Table IV – L.2
## Source-specific Applicable Requirements
## S398 – MP-30 FLARE

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| **District Regulation 6** | **Particulate Matter and Visible Emissions (12/19/90)** | | |
| 6-301 | Ringelmann Number 1 Limitation | Y | |
| 6-305 | Visible Particles | Y | |
| 6-310 | Particulate Weight Limitation | Y | |
| **BAAQMD Regulation 12, -Rule 11** | **Flare Monitoring at Petroleum Refineries (06/04/03)** | | |
| 12-11-401 | Flare Data Reporting Requirements | N | |
| 12-11-402 | Flow Verification Report | N | |
| 12-11-501 | Vent Gas Flow Monitoring | N | |
| 12-11-502 | Vent Gas Composition Monitoring | N | |
| 12-11-502.3 | Vent Gas Composition Monitoring | N | |
| 12-11-503 | Pilot Monitoring | N | |
| 12-11-504 | Pilot and Purge Gas Monitoring | N | |
| 12-11-505 | Recordkeeping Requirements | N | |
| 12-11-506 | General Monitoring Requirements | N | |
| 12-11-506.1 | Periods of Inoperation of Vent Gas Monitoring | N | |
| 12-11-507 | Video Monitoring | N | |
| **BAAQMD Regulation 12, Rule 12** | **Flares at Petroleum Refineries (07/20/05)** | | |
| 12-12-301 | Flare Minimization | N | |
| 12-12-401 | Flare Minimization Plan Requirements | N | |
| 12-12-402 | Submission of Flare Minimization Plans | N | |
| 12-12-403 | Review and Approval of Flare Minimization Plans | N | |
| 12-12-404 | Update of Flare Minimization Plans | N | |
| 12-12-405 | Notification of Flaring | N | |
| 12-12-406 | Determination and Reporting of Cause | N | |
| 12-12-407 | Annual Reports | N | |
| 12-12-408 | Designation of Confidential Information | N | |
| 12-12-501 | Water Seal Integrity Monitoring | N | |
| **40 CFR Part 60 Subpart A** | **New Source Performance Standards – General Provisions (12/23/71)** | **Y** | |

# IV. Source Specific Applicable Requirements

## Table IV – L.2
## Source-specific Applicable Requirements
## S398 – MP-30 FLARE

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| 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 record keeping | Y | |
| 60.8 | Performance tests | Y | |
| 60.9 | Availability of information | Y | |
| 60.10 | State authority | Y | |
| 60.11 | Compliance with standards and maintenance requirements | Y | |
| 60.11(a) | Compliance determined by performance tests | Y | |
| 60.11(d) | Control devices operated using good air pollution control practice | Y | |
| 60.12 | Circumstances | Y | |
| 60.14 | Modifications | Y | |
| 60.15 | Reconstruction | Y | |
| 60.16 | Priority list | Y | |
| 60.17 | Incorporation by reference | Y | |
| 60.19 | General notification and reporting requirements | Y | |
| **NSPS 40 CFR 60 Subpart J** | **Standards of Performance for Petroleum Refineries (7/1/00)** | | |
| 60.104 | Standards for Sulfur Oxides: Compliance Schedule | Y | |
| 60.104(a)(1) | Exempt from fuel gas H2S limit if the flare is used only for startup, shutdown, upset, or emergency malfunction gas | Y | |
| **40 CFR 63, Subpart A** | **General Provisions (3/16/94)** | | |
| 63.11 | Control device requirements | Y | |
| 63.11(a) | Applicability | Y | |
| 63.11(b) | Flares | Y | |
| 63.11(b)(1) | Monitoring of flares | Y | |
| 63.11(b)(2) | Types of flares | Y | |
| 63.11(b)(3) | Operation whenever emissions from S306 or S308 regeneration vented to flare | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – L.2
## Source-specific Applicable Requirements
## S398 – MP-30 FLARE

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| 63.11(b)(4) | Limit on visible emissions whenever emissions from S306 or S308 regeneration vented to flare | Y | |
| 63.11(b)(5) | Flame present at all times | Y | |
| 63.11(b)(6)(ii) | Net heating value of 300 btu/scf or greater whenever emissions from S306 or S308 regeneration vented to flare | Y | |
| 63.11(b)(7)(i) | Exit velocity less than 60 ft/sec whenever emissions from S306 or S308 regeneration vented to flare | Y | |
| **40 CFR 63 Subpart UUU** | **National Emission Standards for Hazardous Pollutants for Petroleum Refineries: Catalytic Cracking Units, Catalytic Reforming Units, and Sulfur Recovery Units (4/11/02)** | Y | |
| 63.1566(b)(2) | Conduct each performance test required by Table 18: 2-hr observation for visible emissions; determination of net heating value of gas (applies to regeneration emissions from S306 or S308 | Y | 1st Regen after 4/11/2005 |
| **BAAQMD Condition 18255** | | | |
| Part 3 | Flaring event definition [Basis: 2-6-409.2] | Y | |
| Part 4 | Flaring event inspection procedure [Basis: 6-301, 2-1-403] | Y | |
| Part 5 | Flaring event compliance criteria [Basis: 2-6-403] | Y | |
| Part 6 | Flaring event records [Basis: 2-6-501, 2-6-409.2] | Y | |

# IV. Source Specific Applicable Requirements

## Table IV - M
## Source-specific Applicable Requirements
## S300 – U-200 DELAYED COKER

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| **BAAQMD Regulation 8, Rule 10** | **Organic Compounds – Process Vessel Depressurization (1/21/2004)** | | |
| 8-10-301 | Depressurization Control Options | N | |
| 8-10-302 | Opening of Process Vessels | N | |
| 8-10-302.1 | organic compounds cannot exceed 10,000 ppm (methane) prior to release to atmosphere | N | |
| 8-10-302.2 | Organic compound concentration of a refinery process vessel may exceed 10,000 ppm prior to release to atmosphere provided total number of such vessels during 5-year period does not exceed 10% | N | |
| 8-10-401 | Turnaround Records. Annual report due February 1 of each year with initial report of process vessels due 4/1/2004. | N | |
| 8-10-501 | Monitoring prior to and during process vessel opening | Y | |
| 8-10-502 | Concentration measurement using EPA Method 21 | Y | |
| 8-10-503 | Recordkeeping | N | |
| 8-10-601 | Monitoring Procedures | N | |
| **SIP Regulation 8, Rule 10** | **Organic Compounds – Process Vessel Depressurization (7/20/83)** | | |
| 8-10-301 | Process Vessel Depressurizing. POC emissions shall be vented through a knock-out pot and then abated in one of the following ways, to as low a vessel pressure as possible, but at least until pressure is reduced to less than 1000 mm Hg (4.6 psig) | Y | |
| 8-10-301.1 | recovery to the fuel gas system | Y | |
| 8-10-301.2 | combustion at a firebox or incinerator | Y | |
| 8-10-301.3 | combustion at a flare | Y | |
| 8-10-301.4 | containment such that emissions to atmosphere do not occur | Y | |
| 8-10-401 | Turnaround Records. The following records shall be kept for each process unit turnaround, and retained for at least 2 years and made available to the District on demand during inspections: | Y | |
| 8-10-401.1 | date of depressurization event | Y | |
| 8-10-401.2 | approximate vessel hydrocarbon concentration when emissions to atmosphere begin | Y | |
| 8-10-401.3 | approximate quantity of POC emissions to atmosphere | Y | |
| **BAAQMD** | | | |

# IV. Source Specific Applicable Requirements

## Table IV - M
## Source-specific Applicable Requirements
## S300 – U-200 DELAYED COKER

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| **Condition 21092** | | | |
| Part 1 | Throughput limit [Basis: Cumulative Increase] | Y | |
| Part 2 | Recordkeeping requirements [Basis: Cumulative Increase] | Y | |
| Part 3 | Reporting requirement [Basis: Cumulative Increase] | Y | |
| **BAAQMD Condition 21099** | | | |
| Part 1 | Light hydrocarbon control valve requirements [Basis: BACT] | Y | |
| Part 2 | Light hydrocarbon flange/connector requirements [Basis: BACT] | Y | |
| Part 3 | Centrifugal compressor requirements [Basis: BACT] | Y | |
| Part 4 | Light hydrocarbon centrifugal pump requirements [Basis: BACT] | Y | |
| Part 5 | Monitoring and repair program requirement [Basis: BACT] | Y | |
| Part 6 | ULSD project component count report requirement [Basis: BACT, Cumulative Increase, Toxic Management Policy] | Y | |

## Table IV – Na
## Source-specific Applicable Requirements – Process Vessels
## S304 –U-229 LIGHT NAPHTHA HYDROTREATER;
## S305 – U-230 PREFRACTIONATOR / NAPHTHA HYDROTREATER;
## S307 – U-240 UNICRACKING UNIT; S309 – U-248 UNISAR UNIT;
## S318 – U-76 GASOLINE / MID-BARREL BLENDING UNIT;
## S319 – U-215 GASOLINE FRACTIONATING UNIT;
## S322 – U-40 RAW MATERIALS RECEIVING; S435 – REFORMATE SPLITTER;
## S436 – DEISOPENTANIZER; S437 – HYDROGEN PLANT;
## S460 – U-250 ULSD HYDROTREATER

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| **BAAQMD Regulation 8, Rule 2** | **Organic Compounds – Miscellaneous Operations (6/15/94)**<br><br>**APPLICABLE TO S307 ONLY** | | |
| 8-2-301 | Miscellaneous Operations: emissions shall not exceed 15 lb/day and 300 ppm carbon on a dry basis | Y | |
| **BAAQMD** | **Organic Compounds – Process Vessel Depressurization** | | |

# IV. Source Specific Applicable Requirements

## Table IV – Na
## Source-specific Applicable Requirements – Process Vessels
## S304 –U-229 LIGHT NAPHTHA HYDROTREATER;
## S305 – U-230 PREFRACTIONATOR / NAPHTHA HYDROTREATER;
## S307 – U-240 UNICRACKING UNIT; S309 – U-248 UNISAR UNIT;
## S318 – U-76 GASOLINE / MID-BARREL BLENDING UNIT;
## S319 – U-215 GASOLINE FRACTIONATING UNIT;
## S322 – U-40 RAW MATERIALS RECEIVING; S435 – REFORMATE SPLITTER;
## S436 – DEISOPENTANIZER; S437 – HYDROGEN PLANT;
## S460 – U-250 ULSD HYDROTREATER

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| **Regulation 8, Rule 10** | **(1/21/2004)** | | |
| 8-10-301 | Depressurization Control Options | N | |
| 8-10-302 | Opening of Process Vessels | N | |
| 8-10-302.1 | organic compounds cannot exceed 10,000 ppm (methane) prior to release to atmosphere | N | |
| 8-10-302.2 | Organic compound concentration of a refinery process vessel may exceed 10,000 ppm prior to release to atmosphere provided total number of such vessels during 5-year period does not exceed 10% | N | |
| 8-10-401 | Turnaround Records. Annual report due February 1 of each year with initial report of process vessels due 4/1/2004. | N | |
| 8-10-501 | Monitoring prior to and during process vessel opening | Y | |
| 8-10-502 | Concentration measurement using EPA Method 21 | Y | |
| 8-10-503 | Recordkeeping | N | |
| 8-10-601 | Monitoring Procedures | N | |
| **SIP Regulation 8, Rule 10** | **Organic Compounds – Process Vessel Depressurization (7/20/83)** | | |
| 8-10-301 | Process Vessel Depressurizing. POC emissions shall be vented through a knock-out pot and then abated in one of the following ways, to as low a vessel pressure as possible, but at least until pressure is reduced to less than 1000 mm Hg (4.6 psig) | Y | |
| 8-10-301.1 | recovery to the fuel gas system | Y | |
| 8-10-301.2 | combustion at a firebox or incinerator | Y | |
| 8-10-301.3 | combustion at a flare | Y | |
| 8-10-301.4 | containment such that emissions to atmosphere do not occur | Y | |
| 8-10-401 | Turnaround Records. The following records shall be kept for each process unit turnaround, and retained for at least 2 years and made available to the District on demand during inspections: | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – Na
## Source-specific Applicable Requirements – Process Vessels
## S304 –U-229 LIGHT NAPHTHA HYDROTREATER;
## S305 – U-230 PREFRACTIONATOR / NAPHTHA HYDROTREATER;
## S307 – U-240 UNICRACKING UNIT; S309 – U-248 UNISAR UNIT;
## S318 – U-76 GASOLINE / MID-BARREL BLENDING UNIT;
## S319 – U-215 GASOLINE FRACTIONATING UNIT;
## S322 – U-40 RAW MATERIALS RECEIVING; S435 – REFORMATE SPLITTER;
## S436 – DEISOPENTANIZER; S437 – HYDROGEN PLANT;
## S460 – U-250 ULSD HYDROTREATER

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| 8-10-401.1 | date of depressurization event | Y | |
| 8-10-401.2 | approximate vessel hydrocarbon concentration when emissions to atmosphere begin | Y | |
| 8-10-401.3 | approximate quantity of POC emissions to atmosphere | Y | |
| **BAAQMD Condition 6671** | **APPLICABLE TO S307 ONLY** | | |
| Part 1 | Abatement requirement for E-421 condenser vent at A50 scrubber [Basis: Regulation 8-2-301] | Y | |
| Part 2 | Efficiency requirement for A50 scrubber raw material throughput [Basis: Regulation 8-2-301] | Y | |
| Part 3 | Requirement to treat A50 blowdown at wastewater treatment plant [Basis: Cumulative Increase] | Y | |
| Part 4 | Daily A50 monitoring requirement [Basis: Cumulative Increase] | Y | |
| Part 5 | Monitoring record requirement [Basis: Cumulative Increase] | Y | |
| Part 6 | Annual source test requirement [Basis: Regulation 2-6-409.2] | | |
| **BAAQMD Condition 20989, Part A** | Throughput limits for S305, S307, S435, S436, S437 [Basis: 2-1-234.3] | Y | |
| **BAAQMD Condition 20989, Part A** | Throughput limits for S309, S318, S319 [Basis: 2-1-234.3] | N | |
| **BAAQMD Condition 21094** | **APPLICABLE TO S460 ONLY** | | |
| Part 1 | Daily throughput limit [Basis: Regulation 2-1-234] | Y | |
| Part 2 | Throughput records [Basis: Regulation 2-1-234] | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – Na
## Source-specific Applicable Requirements – Process Vessels
## S304 –U-229 LIGHT NAPHTHA HYDROTREATER;
## S305 – U-230 PREFRACTIONATOR / NAPHTHA HYDROTREATER;
## S307 – U-240 UNICRACKING UNIT; S309 – U-248 UNISAR UNIT;
## S318 – U-76 GASOLINE / MID-BARREL BLENDING UNIT;
## S319 – U-215 GASOLINE FRACTIONATING UNIT;
## S322 – U-40 RAW MATERIALS RECEIVING; S435 – REFORMATE SPLITTER;
## S436 – DEISOPENTANIZER; S437 – HYDROGEN PLANT;
## S460 – U-250 ULSD HYDROTREATER

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| **BAAQMD Condition 21095** | **APPLICABLE TO S304 ONLY** | | |
| Part 1 | Daily throughput limit [Basis: 2-1-234] | Y | |
| Part 2 | Daily throughput records [Basis: 2-1-234] | Y | |
| **BAAQMD Condition 21099** | **APPLICABLE TO S304, S460 ONLY** | | |
| Part 1 | Light hydrocarbon control valve requirements [Basis: BACT] | Y | |
| Part 2 | Light hydrocarbon flange/connector requirements [Basis: BACT] | Y | |
| Part 3 | Centrifugal compressor requirements [Basis: BACT] | Y | |
| Part 4 | Light hydrocarbon centrifugal pump requirements [Basis: BACT] | Y | |
| Part 5 | Monitoring and repair program requirement [Basis: BACT] | Y | |
| Part 6 | ULSD project component count report requirement [Basis: BACT, Cumulative Increase, Toxic Management Policy] | Y | |
| **BAAQMD Condition 22549** | **[APPLICABLE TO S318 ONLY]** | | |
| Part 1 | Daily petroleum liquid throughput limit excluding diesel [Cumulative Increase] | Y | |
| Part 2 | Daily records of petroleum liquid throughput limit [Cumulative Increase] | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – Nb
## Source-specific Applicable Requirements – Process Vessels
## S306 – U-231 PLATFORMING UNIT; S308 – U-244 REFORMING UNIT

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| **BAAQMD Regulation 8, Rule 10** | **Organic Compounds – Process Vessel Depressurization (1/21/2004)** | | |
| 8-10-301 | Depressurization Control Options | N | |
| 8-10-302 | Opening of Process Vessels | N | |
| 8-10-302.1 | organic compounds cannot exceed 10,000 ppm (methane) prior to release to atmosphere | N | |
| 8-10-302.2 | Organic compound concentration of a refinery process vessel may exceed 10,000 ppm prior to release to atmosphere provided total number of such vessels during 5-year period does not exceed 10% | N | |
| 8-10-401 | Turnaround Records. Annual report due February 1 of each year with initial report of process vessels due 4/1/2004. | N | |
| 8-10-501 | Monitoring prior to and during process vessel opening | Y | |
| 8-10-502 | Concentration measurement using EPA Method 21 | Y | |
| 8-10-503 | Recordkeeping | N | |
| 8-10-601 | Monitoring Procedures | N | |
| **SIP Regulation 8, Rule 10** | **Organic Compounds – Process Vessel Depressurization (7/20/83)** | | |
| 8-10-301 | Process Vessel Depressurizing. POC emissions shall be vented through a knock-out pot and then abated in one of the following ways, to as low a vessel pressure as possible, but at least until pressure is reduced to less than 1000 mm Hg (4.6 psig) | Y | |
| 8-10-301.1 | recovery to the fuel gas system | Y | |
| 8-10-301.2 | combustion at a firebox or incinerator | Y | |
| 8-10-301.3 | combustion at a flare | Y | |
| 8-10-301.4 | containment such that emissions to atmosphere do not occur | Y | |
| 8-10-401 | Turnaround Records. The following records shall be kept for each process unit turnaround, and retained for at least 2 years and made available to the District on demand during inspections: | Y | |
| 8-10-401.1 | date of depressurization event | Y | |
| 8-10-401.2 | approximate vessel hydrocarbon concentration when emissions to atmosphere begin | Y | |
| 8-10-401.3 | approximate quantity of POC emissions to atmosphere | Y | |
| **40 CFR 63,** | **General Provisions (3/16/94)** | | |

# IV. Source Specific Applicable Requirements

## Table IV – Nb
## Source-specific Applicable Requirements – Process Vessels
## S306 – U-231 PLATFORMING UNIT; S308 – U-244 REFORMING UNIT

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| **Subpart A** | | | |
| 63.1 | Applicability (except that Subpart UUU specifies calendar or operating day) | Y | |
| 63.2 | Definitions | Y | |
| 63.3 | Units and Abbreviations | Y | |
| 63.4 | Prohibited Activities | Y | |
| 63.5 | Construction and Reconstruction | Y | |
| 63.5(a) | Applicability | Y | |
| 63.5(b) | Requirements for existing, newly constructed, and reconstructed sources (replace reference to Section 63.9 with Sections 63.9(b)(4) and (5)) | Y | |
| 63.5(c) | [reserved] | Y | |
| 63.5(d) | Application for approval of construction or reconstruction | Y | |
| 63.5(d)(1) | General application requirements | Y | |
| 63.5(d)(1)(i) | Application for approval (except that Subpart UUU specifies the application is submitted as soon as practicable before startup but not later than 90 days (rather then 60) after the promulgation date where construction or reconstruction had commenced and initial startup had not occurred before promulgation.) | Y | |
| 63.5(d)(1)(ii) | Separate application for each construction or deconstruction (Except that emission estimates specified in §63.5(d)(1)(ii)(H) are not required.) | Y | |
| 63.5(d)(3) | Application for approval of reconstruction (Except that §63.5(d)(3)(ii) does not apply.) | Y | |
| 63.5(d)(3)(i) | A brief description of the affected source, etc. | Y | |
| 63.5(d)(3)(iii) | An estimate of the fixed capital cost of the replacements and of constructing a comparable entirely new source | Y | |
| 63.5(d)(3)(iv) | The estimated life of the affected source after the replacements | Y | |
| 63.5(d)(3)(v) | A discussion of any economic or technical limitations | Y | |
| 63.5(d)(3)(vi) | Designation of reconstructed source | Y | |
| 63.5(d)(4) | Additional information | Y | |
| 63.5(e) | Approval of construction or reconstruction | Y | |
| 63.5(f) | Approval of construction or reconstruction based on prior State preconstruction review | Y | |
| 63.5(f)(1) | Preconstruction review procedures that a State utilizes for other | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – Nb
## Source-specific Applicable Requirements – Process Vessels
## S306 – U-231 PLATFORMING UNIT; S308 – U-244 REFORMING UNIT

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| | purposes, etc. | | |
| 63.5(f)(2) | Deadline for request of approval of construction or reconstruction (Except that 60 days is changed to 90 days and cross-reference to 53.9(B)(2) does not apply.) | Y | |
| 63.6 | Compliance with standards and maintenance requirements | Y | |
| 63.6(a) | Applicability | Y | |
| 63.6(b) | Compliance dates for new and reconstructed sources | Y | |
| 63.6(b)(1) | Compliance at standard's effective date | Y | |
| 63.6(b)(2) | Compliance upon startup | Y | |
| 63.6(b)(3) | Compliance within 3 years of effective date | Y | |
| 63.6(b)(4) | Compliance within 10 years of effective date | Y | |
| 63.6(b)(5) | Notification to administrator of later compliance date (Except that subpart UUU specifies different compliance dates for sources) | Y | |
| 63.6(c) | Compliance dates for existing sources | Y | |
| 63.6(c)(1) | Compliance with standards by the compliance date established by the Administrator | Y | |
| 63.6(c)(2) | Compliance with standards by date established by Section 112(f) of the act | Y | |
| 63.6(e) | Operation and maintenance requirements | Y | |
| 63.6(e)(1) | Operation in a manner consistent with safety and good air pollution control practices | Y | |
| 63.6(e)(2) | Reserved | Y | |
| 63.6(e)(3) | Startup, shutdown, and malfunction plan | Y | |
| 63.6(e)(3)(i) | Development and implementation of a written startup, shutdown, and malfunction plan | Y | |
| 63.6(e)(3)(ii) | Periods of startup, shutdown, and malfunction | Y | |
| 63.6(e)(3)(iii) | Operation consistent with procedures | Y | |
| 63.6(e)(3)(iv) | Operation not consistent with procedures (Except that reports of actions not consistent with plan are not required within 2 and 7 days of action but rather must be included in next periodic report) | Y | |
| 63.6(e)(3)(v) | Maintenance of the plan at the affected source (The owner or operator is only required to keep the latest version of the plan) | Y | |
| 63.6(e)(3)(vi) | Alternative plans | Y | |
| 63.6(e)(3)(vii) | Administrator may require changes to plan | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – Nb
## Source-specific Applicable Requirements – Process Vessels
## S306 – U-231 PLATFORMING UNIT; S308 – U-244 REFORMING UNIT

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| 63.6(e)(3)(viii) | The owner or operator may periodically revise the startup, shutdown, and malfunction plan | Y | |
| 63.6(f) | Compliance with non-opacity emission standards | Y | |
| 63.6(f)(1) | Applicability (standards apply at all times except startup, shutdown, and malfunction) | Y | |
| 63.6(f)(2) | Methods for determining compliance | Y | |
| 63.6(f)(2)(i) | Based on performance tests | Y | |
| 63.6(f)(2)(ii) | Evaluation of an owner or operator's conformance with operation and maintenance requirements | Y | |
| 63.6(f)(2)(iii) | Conditions under which performance testing for state requirements shows compliance | Y | |
| 63.6(f)(2)(iii)(A) | Performance test conducted within a reasonable amount of time | Y | |
| 63.6(f)(2)(iii)(B) | Performance test conducted under representative operating conditions | Y | |
| 63.6(f)(2)(iii)(c) | EPA-approved test methods and procedures | Y | |
| 63.6(f)(2)(iv) | Determination of compliance | Y | |
| 63.6(f)(2)(v) | Conformance with operation and maintenance requirements | Y | |
| 63.6(f)(3) | Finding of compliance | Y | |
| 63.6(g) | Use of an alternative non-opacity emission standard | Y | |
| 63.6(i) | Extension of compliance with emission standards (Parts 1-14 and part 16. Part 15 is reserved. | Y | |
| 63.7 | Performance testing requirements | Y | |
| 63.7(a) | Applicability and performance test dates | Y | |
| 63.7(a)(1) | Performance test requirements Applicability (Except that subpart UUU specifies the applicable test and demonstration procedures.) | Y | |
| 63.7(a)(3) | The Administrator may require performance tests at any time when action is authorized by section 114 of the Act (Except that subpart UUU specifies notification at least 30 days prior to the scheduled test date rather than 60 days.) | Y | |
| 63.7(b) | Notification of performance test | Y | |
| 63.7(c) | Quality assurance program | Y | |
| 63.7(d) | Performance testing facilities | Y | |
| 63.7(e) | Conduct of performance tests | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – Nb
## Source-specific Applicable Requirements – Process Vessels
## S306 – U-231 PLATFORMING UNIT; S308 – U-244 REFORMING UNIT

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| 63.7(f) | Use of an alternative test method | Y | |
| 63.7(g) | Data analysis, recordkeeping, and reporting (Except performance test reports must be submitted with notification of compliance status due 150 days after the compliance date.) | Y | |
| 63.7(h) | Waiver of performance tests | Y | |
| 63.8 | Monitoring requirements | Y | |
| 63.8(a) | Applicability | Y | |
| 63.8(a)(1) | Applicability | Y | |
| 63.8(a)(2) | Performance Specifications | Y | |
| 63.8(a)(4) | Additional monitoring requirements for control devices | Y | |
| 63.8(b) | Conduct of monitoring | Y | |
| 63.8(b)(1) | Conduct of monitoring | Y | |
| 63.8(b)(2) | Combination of the emissions from two or more affected sources (Subpart UUU specifies the required monitoring locations.) | Y | |
| 63.8(b)(3) | More than one CMS (Subpart UUU specifies the required monitoring locations.) | Y | |
| 63.8(c) | Operation and maintenance of continuous monitoring systems | Y | |
| 63.8(c)(1) | Good air pollution control practices | Y | |
| 63.8(c)(1)(i) | Maintenance and operation of each CMS | Y | |
| 63.8(c)(1)(ii) | Parts for routine repairs readily available (Except that subpart UUU specifies that reports are not required if actions are consistent with the SSM plan, unless requested by the permitting authority. If actions are not consistent, actions must be described in next compliance report.) | Y | |
| 63.8(c)(1)(iii) | Compliance with Operation and Maintenance Requirements (Except that subpart UUU specifies that reports are not required if actions are consistent with the SSM plan, unless requested by the permitting authority. If actions are not consistent, actions must be described in next compliance report.) | Y | |
| 63.8(c)(2) | Monitoring system installation | Y | |
| 63.8(c)(3) | Monitoring system installation | Y | |
| 63.8(c)(4)(ii) | One cycle of operation for each 15-minute period ( | Y | |
| 63.8(c)(6) | CMS Requirements | Y | |
| 63.8(c)(7) | Out-of-control CMS | Y | |
| 63.8(c)(8) | Submittal of all information concerning out-of-control periods | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – Nb
## Source-specific Applicable Requirements – Process Vessels
## S306 – U-231 PLATFORMING UNIT; S308 – U-244 REFORMING UNIT

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| 63.8(d) | Quality Control Program | Y | |
| 63.8(e) | Performance evaluation of continuous monitoring systems ( | Y | |
| 63.8(f) | Use of an alternative monitoring method | Y | |
| 63.8(g) | Reduction of monitoring data | Y | |
| 63.8(g)(1) | Reduction of monitoring data | Y | |
| 63.8(g)(2) | 1-hour averages | Y | |
| 63.8(g)(3) | Records in reduced or non-reduced form | Y | |
| 63.8(g)(4) | Units of the relevant standard | Y | |
| 63.9 | Notification requirements | Y | |
| 63.9(a) | Applicability and general information | Y | |
| 63.9(b) | Initial notifications (Sections 1, 2, 4, and 5. Section 3 is reserved.) Notification of construction or reconstruction is to be submitted as soon as practicable before startup.) | Y | |
| 63.9(c) | Request for extension of compliance | Y | |
| 63.9(d) | Notification that source is subject to special compliance requirements | Y | |
| 63.9(e) | Notification of performance test (Except that notification is required at least 30 days before test.) | Y | |
| 63.9(g) | Additional notification requirements for sources with continuous monitoring systems (Applicable since facility has chosen to comply with NSPS SO2 standard) | Y | |
| 63.9(h) | Notification of compliance status (Except that subpart UUU specifies the notification is due no later than 150 days after compliance date.) | Y | |
| 63.9(i) | Adjustment to time periods or postmark deadlines | Y | |
| 63.9(j) | Change in information already provided | Y | |
| 63.10 | Recordkeeping and reporting requirements | Y | |
| 63.10(a) | Applicability and general information | Y | |
| 63.10(b) | General recordkeeping requirements | Y | |
| 63.10(c) | Additional recordkeeping requirements for sources with continuous monitoring systems | Y | |
| 63.10(c)(1) | All required CMS measurements | Y | |
| 63.10(c)(2) | [reserved] | Y | |
| 63.10(c)(3) | [reserved] | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – Nb
## Source-specific Applicable Requirements – Process Vessels
## S306 – U-231 PLATFORMING UNIT; S308 – U-244 REFORMING UNIT

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| 63.10(c)(4) | [reserved] | Y | |
| 63.10(c)(5) | Date and time when CMS was inoperative | Y | |
| 63.10(c)(6) | Date and time when CMS was out-of-control | Y | |
| 63.10(c)(9) | [reserved] | Y | |
| 63.10(c)(10) | The nature and cause of any malfunction | Y | |
| 63.10(c)(11) | Corrective action or preventive measures | Y | |
| 63.10(c)(12) | Nature of repairs or adjustments | Y | |
| 63.10(c)(13) | Process operating time | Y | |
| 63.10(c)(14) | Procedures in quality control program | Y | |
| 63.10(c)(15) | Use of startup, shutdown, and malfunction plan | Y | |
| 63.10(d) | General reporting requirements | Y | |
| 63.10(d)(1) | Reports to the Administrator | Y | |
| 63.10(d)(4) | Progress reports | Y | |
| 63.10(d)(5)(i) | Periodic startup, shutdown, and malfunction reports | Y | |
| 63.10(d)(5)(ii) | Immediate startup, shutdown, and malfunction reports (reports not required if actions consistent with the SSM plan, unless requested by permitting authority) | Y | |
| 63.10(e) | Additional reporting requirements for sources with continuous monitoring systems | Y | |
| 63.10(e)(1) | General (Applicable since facility has chosen to comply with NSPS SO2 standard) | Y | |
| 63.10(e)(2) | Reporting results of continuous monitoring system performance evaluations (Applicable since facility has chosen to comply with NSPS SO2 standard) | Y | |
| 63.10(f) | Waiver of recordkeeping or reporting requirements | Y | |
| 63.11 | Control device requirements (Applicable to flares) | Y | |
| 63.15 | Availability of information and confidentiality | Y | |
| **40 CFR 63 Subpart UUU** | **National Emission Standards for Hazardous Pollutants for Petroleum Refineries: Catalytic Cracking Units, Catalytic Reforming Units, and Sulfur Recovery Units (4/11/02)** | Y | |
| 63.1561 | Am I subject to this subpart? | Y | |
| 63.1562(a) | New, reconstructed, or existing affected sources | Y | |
| 63.1562(b)(2) | Catalytic reforming units | Y | |
| 63.1562(f)(5) | | | |

# IV. Source Specific Applicable Requirements

## Table IV – Nb
## Source-specific Applicable Requirements – Process Vessels
## S306 – U-231 PLATFORMING UNIT; S308 – U-244 REFORMING UNIT

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| 63.1563 | When do I have to comply with this subpart? | Y | |
| 63.1563(b) | Deadline for existing sources-4/11/05 | Y | |
| 63.1563(e) | Notification requirements | Y | |
| 63.1566 | What are my requirements for organic HAP emissions from catalytic reforming units? | Y | |
| 63.1566(a) | Emission Limitations and Work Practice Standards | Y | |
| 63.1566(a)(1) | Meet each emission limitation in Table 15 that applies | Y | |
| 63.1566(a)(1)(i) | Vent TOC emissions to flare or comply with 63.1566(a)(1)(ii) | Y | |
| 63.1566(a)(1)(ii) | TOC or non-methane TOC percent reduction standard or concentration limit, whichever is less stringent or comply with 63.1566(a)(1)(i) | Y | |
| 63.1566(a)(2) | Comply with option 1 in Table 16: flare pilot light must be on and flare must be operating at all times that emissions from S306 or S308 regeneration vented to flare | Y | 150 days after 1st regeneration after 4/11/05 |
| 63.1566(a)(3) | Applicability of emission limitations-emissions from catalytic reforming unit process vents associated with initial catalyst depressuring and catalyst purging operations that occur prior to the coke burn-off cycle. The emission limitations in Tables 15 and 16 of this subpart do not apply to the coke burn-off, catalyst rejuvenation, reduction or activation vents, or to the control systems used for these vents. | Y | 150 days after 1st regeneration after 4/11/05 |
| 63.1566(a)(4) | Emission limitations do not apply when the vessel is below 5 psig | Y | 150 days after 1st regeneration after 4/11/05 |
| 63.1566(a)(5) | Prepare an Operation, Maintenance and Monitoring Plan and operate in compliance with the plan | Y | 150 days after 1st regeneration after 4/11/05 |
| 63.1566(b) | How do I demonstrate initial compliance with the emission limitations and work practice standard? | Y | |
| 63.1566(b)(1) | Install, operate, and maintain a continuous monitoring system(s) | Y | |
| 63.1566(b)(2) | Conduct each performance test required by Table 18: Option 1 or Option 2 | Y | 1st Regen after |

# IV. Source Specific Applicable Requirements

## Table IV – Nb
## Source-specific Applicable Requirements – Process Vessels
## S306 – U-231 PLATFORMING UNIT; S308 – U-244 REFORMING UNIT

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| | | | 4/11/2005 |
| 63.1566(b)(3) | Establish each site-specific operating limit in Table 16 that applies | Y | 1st Regen after 4/11/05 |
| 63.1566(b)(4) | Determine initial compliance with emission limitations | Y | 1st Regen after 4/11/2005 |
| 63.1566(b)(5)(i) | No requirement to perform TOC performance test if emissions are vented to a flare as provided in Option 1 of Table 15 | Y | |
| 63.1566(b)(6) | Demonstrate initial compliance with each emission limitation that applies according to Table 19 | Y | 1st Regen after 4/11/05 |
| 63.1566(b)(7) | Demonstrate Initial Compliance with Work Practice Standard by submitting Operation, Maintenance, and Monitoring Plan | Y | 150 days after 1st Regen after 4/11/05 |
| 63.1566(b)(8) | Submit the Notification of Compliance Status per §63.1574 | Y | 150 days after 1st Regen after 4/11/05 |
| 63.1566(c) | How do I demonstrate continuous compliance with the emission limitations and work practice standards? | Y | 150 days after 1st Regen after 4/11/05 |
| 63.1566(c)(1) | Demonstrate continuous compliance with emission limitations in Table 15 and Table 16 | Y | 150 days after 1st Regen after 4/11/05 |
| 63.1566(c)(2) | Demonstrate continuous compliance with work practice standards by complying with the procedures in the operation, maintenance, and monitoring plan | Y | 150 days after 1st Regen after 4/11/05 |
| 63.1567 | Requirements for Inorganic HAP Emissions from Catalytic Reforming Units | Y | |
| 63.1567(a) | Emission Limitations and Work Practice Standards | Y | |
| 63.1567(a)(1) | Emission Limitations for Hydrogen Chloride (HCl) during coke burn-off and catalyst rejuvenation using internal scrubbing system: Reduce uncontrolled HCl emissions by 92% or to a concentration of | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – Nb
## Source-specific Applicable Requirements – Process Vessels
## S306 – U-231 PLATFORMING UNIT; S308 – U-244 REFORMING UNIT

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| | 30 ppmvd corrected to 3%O2 (Table 22, Item 1) | | |
| 63.1567(a)(2) | The HCl concentration in the catalyst regenerator exhaust gas must not exceed the limit established during the performance test. (Table 2, Item 1.b) | Y | 150 days after 1st regeneration after 4/11/05 |
| 63.1567(a)(3) | Prepare Operation, Maintenance, and Monitoring Plan and operate in compliance with the plan | Y | 150 days after 1st regeneration after 4/11/05 |
| 63.1567(b) | How do I demonstrate initial compliance with the emission limitations and work practice standard? | Y | |
| 63.1567(b)(1) | Install, operate, and maintain a continuous monitoring system(s) according to the requirements in §63.1572 and Table 24 of this subpart. | ~~Y~~ | |
| 63.1567(b)(2) | Performance Test: measure HCl concentration at the outlet (for the concentration standard) or at the inlet and outlet (for the percent reduction standard) of the scrubber (Table 25, Item 4.ii)<br>Conduct each performance test for a catalytic reforming unit according to the requirements in §63.1571 and the conditions specified in Table 25 of this subpart. | Y | 1st regeneration after 4/11/05 |
| 63.1567(b)(3) | Establish each site-specific operating limit in Table 23 of this subpart that applies to you according to the procedures in Table 25 of this subpart. | Y | |
| 63.1567(b)(4) | Demonstrate Initial Compliance with Emission Limitations: reduce HCl concentration by 92% or to 30 ppmv (Table 26, Item 1)<br>Use the equations in paragraphs (b)(4)(i) through (iv) of this section to determine initial compliance with the emission limitations. | Y | 1st regeneration after 4/11/05 |
| 63.1567(b)(5) | Demonstrate Initial Compliance with Work Practice Standard by submitting Operation, Maintenance, and Monitoring Plan<br>Demonstrate initial compliance with each emission limitation that applies to you according to Table 26 of this subpart. | Y | 150 days after 1st regeneration |
| 63.1567(b)(6) | Submit Notice of Initial Compliance Status<br>Demonstrate initial compliance with the work practice standard in paragraph (a)(3) of this section by submitting the operation, maintenance, and monitoring plan to your permitting authority as part of your Notification of Compliance Status. | Y | 150 days after 1st regeneration |

# IV. Source Specific Applicable Requirements

## Table IV – Nb
## Source-specific Applicable Requirements – Process Vessels
## S306 – U-231 PLATFORMING UNIT; S308 – U-244 REFORMING UNIT

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| 63.1567(b)(7) | Submit the Notification of Compliance Status containing the results of the initial compliance demonstration according to the requirements in §63.1574. | | |
| 63.1567(c) | Continuous Compliance Demonstration<br>How do I demonstrate continuous compliance with the emission limitations and work practice standard? | Y | |
| 63.1567(c)(1) | Demonstrate Continuous Compliance with Emission Limitation: maintain 92% control efficiency or 30 ppmv HCl concentration Table 28, Item 1.c. | Y | 1st regeneration after 4/11/05 |
| 63.1567(c)(2) | Demonstrate Continuous Compliance with Work Practice Standard through maintaining records to document conformance with the Operation, Maintenance, and Monitoring Plan | Y | 150 days after 1st regeneration after 4/11/2005 |
| 63.1570 | What are my general requirements for complying with this subpart? | Y | |
| 63.1570(a) | Operate in compliance with non-opacity standards at all times except during periods of startup, shutdown, and malfunction, as specified in 63.6(f)(1) | Y | |
| 63.1570(c) | Operate and maintain source including pollution control and monitoring equipment in accordance with 63.6(e)(1). Between 4/11/05 and the date continuous monitoring systems are installed and validated and operating limits have been set, maintain a log detailing operation and maintenance of process and equipment. | Y | |
| 63.1570(d) | Develop and implement startup, shutdown, and malfunction plan (SSMP) in accordance with 63.6(e)(3) | Y | |
| 63.1570(e) | Operate in accordance with SSMP during periods of startup, shutdown, and malfunction | Y | |
| 63.1570(f) | Report deviations from compliance with this subpart according to the requirements of 63.1575 | Y | |
| 63.1570(g) | Deviations that occur during startup, shutdown, or malfunction are not violations if operating in accordance with SSMP | Y | |
| 63.1571 | How and when do I conduct a performance test or other initial compliance demonstration? | Y | |
| 63.1571(a)(1) | For emission limitation or work practice standard where compliance not demonstrated using performance test, opacity observation, or visible emission observation, conduct initial compliance | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – Nb
## Source-specific Applicable Requirements – Process Vessels
## S306 – U-231 PLATFORMING UNIT; S308 – U-244 REFORMING UNIT

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| | demonstration within 30 days after compliance date | | |
| 63.1571(b) | Requirements for Performance Tests | Y | |
| 63.1571(b)(1) | Conduct performance tests in accordance with the requirements of 63.7(e)(1) | Y | |
| 63.1571(b)(2) | Conduct three separate test runs of at least an hour for each performance test | Y | |
| 63.1571(b)(3) | Conduct each performance evaluation in accordance with the requirements of 63.8(e) | Y | |
| 63.1571(b)(4) | Performance tests not conducted during periods of startup, shutdown, or malfunction | Y | |
| 63.1571(b)(5) | Arithmetic average of emission rates | Y | |
| 63.1571(c) | What procedures must I use for an engineering assessment? | | |
| 63.1571(d) | Can I adjust the process or control device measured values when establishing an operating limit? | | |
| 63.1571(d)(4) | Adjust process or control device measured values when establishing operating limit (optional) | Y | |
| 63.1571(e) | Changes to Operating limits | Y | |
| 63.1572 | What are my monitoring installation, operation, and maintenance requirements? | Y | |
| 63.1572(c)(1) | Use a colormetric tube sampling system with a printed numerical scale in ppmv, a standard measurement range of 1 to 10 ppmv (or 1 to 30 ppmv if applicable), and a standard deviation for measured values of no more than +/- 15 percent. System must include a gas detection pump and hot air probe if needed for the measurement range. Table 41, Item 6. | Y | |
| 63.1572(c)(2) | One cycle every 15 minutes | Y | |
| 63.1572(c)(3) | Valid hourly average data from at least 75% of hours operated | Y | |
| 63.1572(c)(4) | Hourly and daily averages | Y | |
| 63.1572(c)(5) | Records of results of inspections, calibrations, and validation checks | Y | |
| 63.1572(d) | Data monitoring and collection requirements | Y | |
| 63.1572(d)(1) | Conduct monitoring at all times source is operating except for monitoring malfunctions, repairs, and QA/QC activities | Y | |
| 63.1572(d)(2) | Not use data recorded during monitoring malfunctions, repairs, and QA/QC activities | Y | |
| 63.1573 | What are my monitoring alternatives? | Y | |
| 63.1573(c) | Can I use another type of monitoring system? (Note: another type of monitoring system may not be used without prior approval) | Y | |
| 63.1573(d) | Can I monitor other process or control device operating parameters? | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – Nb
## Source-specific Applicable Requirements – Process Vessels
## S306 – U-231 PLATFORMING UNIT; S308 – U-244 REFORMING UNIT

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| | (Note: Facility may not other process or control device operating parameters without prior approval) | | |
| 63.1573(e) | How do I request to monitor alternative parameters? | Y | |
| 63.1574 | What notifications must I submit and when? | Y | |
| 63.1574(a) | Notifications Required by Subpart A | Y | |
| 63.1574(a)(2) | Submit notification of intent to conduct performance test 30 days before scheduled (instead of 60 days) | Y | |
| 63.1574(a)(3) | Notification of Compliance Status | Y | |
| 63.1574(a)(3)(ii) | Submit Notification of Compliance Status for initial compliance demonstration that includes a performance test, no later than 150 days after source compliance date | Y | |
| 63.1574(d) | Information to be Submitted in Notice of Compliance Status (Table 42): identification of affected sources and emission points (Item 1); initial compliance demonstration (Item 2); continuous compliance (Item 3) | Y | |
| 63.1574(f) | Requirement to prepare Operation, Maintenance, and Monitoring Plan | Y | |
| 63.1574(f)(1) | Submit plan to permitting authority for review and approval along with NOCS. Include duty to prepare and implement plan into Part 70 or 71 permit. | Y | |
| 63.1574(f)(2) | Minimum contents of Operation, Maintenance, and Monitoring Plan | Y | |
| 63.1575 | What reports must I submit and when? | Y | |
| 63.1575(a) | Required reports: Statement that there were no deviations or report including information in 1575(d) or (e) (Table 43, Item 1) | Y | |
| 63.1575(b) | Specified semiannual report submittal dates | Y | |
| 63.1575(c) | Information required in compliance report | Y | |
| 63.1575(d) | Information required for deviations from emission limitations and work practice standards where CEMS or COMS is not used to comply with emission limitation or work practice standard | Y | |
| 63.1575(f) | Additional information for compliance reports | Y | |
| 63.1575(f)(1) | Requirement to submit performance test reports | Y | |
| 63.1575(f)(2) | Submittal of requested change in the applicability of an emission standard | Y | |
| 63.1575(g) | Submittal of reports required by other regulations in place of or as part of compliance report if they contain the required information | Y | |
| 63.1575(h) | Reporting requirements for startups, shutdowns, and malfunctions | Y | |
| 63.1576 | What records must I keep, in what form, and for how long? | Y | |
| 63.1576(a) | Required Records – General | Y | |
| 63.1576(d) | Records required by Tables 20, 21, 27, and 28 of Subpart UUU | Y | |
| 63.1576(e) | Maintain copy of Operation, Maintenance, and Monitoring Plan | Y | |
| 63.1576(f) | Records of changes that affect emission control system performance | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – Nb
## Source-specific Applicable Requirements – Process Vessels
## S306 – U-231 PLATFORMING UNIT; S308 – U-244 REFORMING UNIT

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| 63.1576(g) | Records in a form suitable and readily available for review | Y | |
| 63.1576(h) | Maintain records for 5 years | Y | |
| 63.1576(i) | Records onsite for two years; may be maintained offsite for remaining 3 years | Y | |
| **BAAQMD Condition 20989, Part A** | Throughput limit for S306 [Basis: 2-1-234.3] | Y | |
| **BAAQMD Condition 20989, Part A** | Throughput limits for S308 [Basis: 2-1-234.3] | N | |

## Table IV - O
## Source-specific Applicable Requirements
## S350 – U-267 CRUDE DISTILLATION UNIT

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| **BAAQMD Regulation 8, Rule 9** | **Organic Compounds – Vacuum Producing Systems (7/20/83)** | | |
| 8-9-301 | Vacuum Producing System POC emissions must be controlled by combustion or venting to fuel gas systems | Y | |
| 8-9-601 | Determination of Emissions | Y | |
| **BAAQMD Regulation 8, Rule 10** | **Organic Compounds – Process Vessel Depressurization (1/21/2004)** | | |
| 8-10-301 | Depressurization Control Options | N | |
| 8-10-302 | Opening of Process Vessels | N | |
| 8-10-302.1 | organic compounds cannot exceed 10,000 ppm (methane) prior to release to atmosphere | N | |

# IV. Source Specific Applicable Requirements

## Table IV - O
## Source-specific Applicable Requirements
## S350 – U-267 CRUDE DISTILLATION UNIT

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| 8-10-302.2 | Organic compound concentration of a refinery process vessel may exceed 10,000 ppm prior to release to atmosphere provided total number of such vessels during 5-year period does not exceed 10% | N | |
| 8-10-401 | Turnaround Records. Annual report due February 1 of each year with initial report of process vessels due 4/1/2004. | N | |
| 8-10-501 | Monitoring prior to and during process vessel opening | Y | |
| 8-10-502 | Concentration measurement using EPA Method 21 | Y | |
| 8-10-503 | Recordkeeping | N | |
| 8-10-601 | Monitoring Procedures | N | |
| **SIP Regulation 8, Rule 10** | **Organic Compounds – Process Vessel Depressurization (7/20/83)** | | |
| 8-10-301 | Process Vessel Depressurizing. POC emissions shall be vented through a knock-out pot and then abated in one of the following ways, to as low a vessel pressure as possible, but at least until pressure is reduced to less than 1000 mm Hg (4.6 psig) | Y | |
| 8-10-301.1 | recovery to the fuel gas system | Y | |
| 8-10-301.2 | combustion at a firebox or incinerator | Y | |
| 8-10-301.3 | combustion at a flare | Y | |
| 8-10-301.4 | containment such that emissions to atmosphere do not occur | Y | |
| 8-10-401 | Turnaround Records. The following records shall be kept for each process unit turnaround, and retained for at least 2 years and made available to the District on demand during inspections: | Y | |
| 8-10-401.1 | date of depressurization event | Y | |
| 8-10-401.2 | approximate vessel hydrocarbon concentration when emissions to atmosphere begin | Y | |
| 8-10-401.3 | approximate quantity of POC emissions to atmosphere | Y | |
| **BAAQMD Condition 383** | | | |
| Part 1a | Sulfur content limit in crude [Basis: Cumulative Increase] | Y | |
| Part 1b | Crude analysis requirement [Basis: Cumulative Increase] | Y | |
| Part 2 | Daily crude feed limits [Basis: Cumulative Increase] | Y | |
| Part 3a | Daily recordkeeping requirements [Basis: Cumulative Increase] | Y | |
| Part 3b | Records of sulfur content of crude feed [Basis: Cumulative Increase] | Y | |

# IV. Source Specific Applicable Requirements

## Table IV - O
## Source-specific Applicable Requirements
## S350 – U-267 CRUDE DISTILLATION UNIT

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| Part 4 | Requirement for water seals [Basis: toxics, cumulative increase] | Y | |
| **BAAQMD Condition 21099** | | | |
| Part 1 | Light hydrocarbon control valve requirements [Basis: BACT] | Y | |
| Part 2 | Light hydrocarbon flange/connector requirements [Basis: BACT] | Y | |
| Part 3 | Centrifugal compressor requirements [Basis: BACT] | Y | |
| Part 4 | Light hydrocarbon centrifugal pump requirements [Basis: BACT] | Y | |
| Part 5 | Monitoring and repair program requirement [Basis: BACT] | Y | |
| Part 6 | ULSD project component count report requirement [Basis: BACT, Cumulative Increase, Toxic Management Policy] | Y | |

# IV. Source Specific Applicable Requirements

## Table IV - P
## Source-specific Applicable Requirements
## S432 – U-215 DEISOBUTANIZER

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| **BAAQMD Regulation 8, Rule 10** | **Organic Compounds – Process Vessel Depressurization (1/21/2004)** | | |
| 8-10-301 | Depressurization Control Options | N | |
| 8-10-302 | Opening of Process Vessels | N | |
| 8-10-302.1 | organic compounds cannot exceed 10,000 ppm (methane) prior to release to atmosphere | N | |
| 8-10-302.2 | Organic compound concentration of a refinery process vessel may exceed 10,000 ppm prior to release to atmosphere provided total number of such vessels during 5-year period does not exceed 10% | N | |
| 8-10-401 | Turnaround Records. Annual report due February 1 of each year with initial report of process vessels due 4/1/2004. | N | |
| 8-10-501 | Monitoring prior to and during process vessel opening | Y | |
| 8-10-502 | Concentration measurement using EPA Method 21 | Y | |
| 8-10-503 | Recordkeeping | N | |
| 8-10-601 | Monitoring Procedures | N | |
| **SIP Regulation 8, Rule 10** | **Organic Compounds – Process Vessel Depressurization (7/20/83)** | | |
| 8-10-301 | Process Vessel Depressurizing. POC emissions shall be vented through a knock-out pot and then abated in one of the following ways, to as low a vessel pressure as possible, but at least until pressure is reduced to less than 1000 mm Hg (4.6 psig) | Y | |
| 8-10-301.1 | recovery to the fuel gas system | Y | |
| 8-10-301.2 | combustion at a firebox or incinerator | Y | |
| 8-10-301.3 | combustion at a flare | Y | |
| 8-10-301.4 | containment such that emissions to atmosphere do not occur | Y | |
| 8-10-401 | Turnaround Records. The following records shall be kept for each process unit turnaround, and retained for at least 2 years and made available to the District on demand during inspections: | Y | |
| 8-10-401.1 | date of depressurization event | Y | |
| 8-10-401.2 | approximate vessel hydrocarbon concentration when emissions to atmosphere begin | Y | |
| 8-10-401.3 | approximate quantity of POC emissions to atmosphere | Y | |
| **BAAQMD** | | | |

# IV. Source Specific Applicable Requirements

## Table IV - P
## Source-specific Applicable Requirements
## S432 – U-215 DEISOBUTANIZER

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| **Condition 6725** | | | |
| Part 1 | Flange, valve design requirements [Basis: Cumulative Increase] | Y | |
| Part 2 | Vent collection requirement for relief valves [Basis: Cumulative Increase] | Y | |
| Part 3 | Pump, compressor design requirements [Basis: Cumulative Increase] | Y | |
| **BAAQMD Condition 20989, Part A** | Throughput limits for S432 [Basis: 2-1-234.3] | Y | |

## Table IV – Q.1
## Source-specific Applicable Requirements
## S352 - COMBUSTION TURBINE
## S353 - COMBUSTION TURBINE
## S354 - COMBUSTION TURBINE

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| **BAAQMD Regulation 1** | **General Provisions and Definitions (7/17/06)** | | |
| 1-107 | Combination of Emissions | Y | |
| 1-520 | Continuous Emission Monitoring | Y | |
| 1-520.8 | Monitors pursuant to Regulation 2-1-403 | Y | |
| 1-521 | Monitoring May Be Required | Y | |
| 1-522 | Continuous Emission Monitoring and Recordkeeping Procedures | | |
| 1-522.4 | reporting of inoperative CEMs | Y | |
| 1-522.5 | CEM calibration requirements | Y | |
| 1-522.6 | CEM accuracy requirements | Y | |
| 1-522.7 | emission limit exceedance reporting requirements | N | |
| 1-522.8 | monitoring data submittal requirements | Y | |
| 1-522.9 | recordkeeping requirements | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – Q.1
## Source-specific Applicable Requirements
## S352 - COMBUSTION TURBINE
## S353 - COMBUSTION TURBINE
## S354 - COMBUSTION TURBINE

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| 1-522.10 | Regulation 1-521 monitors shall meet requirements specified by District | Y | |
| 1-602 | Area and Continuous Monitoring Requirements | N | |
| **SIP Regulation 1** | **PROVISIONS NO LONGER IN CURRENT RULE General Provisions and Definitions (6/28/99)** | | |
| 1-522 | Continuous Emission Monitoring and Recordkeeping Procedures | Y – note 1 | |
| 1-522.7 | emission limit exceedance reporting requirements | Y - note 1 | |
| **BAAQMD Regulation 6** | **Particulate Matter and Visible Emissions (12/19/90)** | | |
| 6-301 | Ringelmann #1 Limitation | Y | |
| 6-305 | Visible Particles | Y | |
| 6-310.3 | Particulate Weight Limitation | Y | |
| **BAAQMD Regulation 2, Rule 1** | **Regulation 2, Rule 1 - Permits, General Requirements (7/19/06)** | | |
| 2-1-403 | Permit conditions-measurement of emissions | N | |
| 2-1-501 | Monitors | Y | |
| **SIP Regulation 2, Rule 1** | PROVISIONS NO LONGER IN CURRENT RULE **Permits, General Requirements (1/26/99 {adopted 11/01/89})** | | |
| 2-1-403 | Permit conditions-measurement of emissions | Y-note 1 | |
| **BAAQMD Manual of Procedures, Volume V** | **Continuous Emission Monitoring Policy and Procedures (1/20/82)** | Y | |
| **BAAQMD Regulation 9, Rule 9** | **Inorganic Gaseous Pollutants - Nitrogen Oxides from Stationary Gas Turbines (9/21/94)** | | |
| 9-9-113 | Exemption - Inspection/Maintenance | Y | |
| 9-9-114 | Exemption - Startup/Shutdown | Y | |
| 9-9-301 | Emission Limits – General | Y | |
| 9-9-301.3 | Emission Limits | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – Q.1
## Source-specific Applicable Requirements
## S352 - COMBUSTION TURBINE
## S353 - COMBUSTION TURBINE
## S354 - COMBUSTION TURBINE

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| 9-9-401 | Efficiency Certification | Y | |
| 9-9-501 | Continuous Emission Monitoring (CEM) | Y | |
| 9-9-600 | Manual of Procedures | Y | |
| 9-9-601 | NOx emissions: Manual of Procedures, Vol. IV, ST-13A or B | Y | |
| 9-9-602 | Oxygen emissions: Manual of Procedures, Vol. IV, ST-14 | Y | |
| 9-9-603 | CEM: Manual of Procedures, Volume V | Y | |
| 9-9-604 | Determination of HHV and LHV | Y | |
| **40 CFR 60, Subpart J** | **Standards of Performance for Petroleum Refineries (10/2/90)** | | |
| 60.100 | Applicability | Y | |
| 60.104 | Standards for Sulfur Oxides: Compliance Schedule | Y | |
| 60.104(a)(1) | fuel gas H2S concentration limited to 230 mg/dscm (0.10 gr/dscf) except for gas burned as a result of process upset or gas burned at flares from relief valve leaks or other emergency malfunctions | Y | |
| 60.105 | Monitoring of Emissions and Operations | Y | |
| 60.105(a)(4) | monitoring requirement for H2S (dry basis) in fuel gas prior to combustion | Y | |
| 60.105(e)(3)(ii) | Excess H2S emission definitions for 60.7(c) | Y | |
| 60.106(a) | Test methods and procedures | Y | |
| 60.106(e)(1) | Method 11 shall be used to verify compliance with 60.104(a)(1) | Y | |
| **40 CFR 60, Subpart GG** | **Standards of Performance for Stationary Gas Turbines (1/27/82)** | | |
| 60.330 | Applicability | Y | |
| 60.332(a)(2) | Alternate Standard, NOx (except when ice fog deemed a traffic hazard per 60.332(f) | Y | |
| 60.332(d) | Compliance with 60.332(a)(2) required | Y | |
| 60.332(f) | Exemption from 60.332(a)(2) when steam injection would result in ice fog which is deemed a traffic hazard | Y | |
| 60.332(k) | Exemption: Natural gas turbines >10 MMbtu/hr when firing emergency fuel | Y | |
| 60.333 | Performance Standards, SO2 | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – Q.1
## Source-specific Applicable Requirements
## S352 - COMBUSTION TURBINE
## S353 - COMBUSTION TURBINE
## S354 - COMBUSTION TURBINE

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| 60.333(b) | Fuel Sulfur Limit (in lieu of SO2 concentration emission limit – 150 ppmv @ 15% O2 - in 60.333(a)) | Y | |
| 60.334 | Monitoring Requirements | Y | |
| 60.334(b) | Fuel Sulfur Content | Y | |
| 60.334(c)(2) | Excess Emissions – SO2 | Y | |
| 60.335 | Test Methods and Procedures | Y | |
| **BAAQMD Condition 12122** | | | |
| Part 1 | Restriction to natural gas and refinery fuel gas [Basis: Cumulative Increase] | Y | |
| Part 2 | Restriction on duct burner operation to times when associated turbine is also operated [Basis: BACT, Cumulative Increase] | Y | |
| Part 3 | Abatement requirement for S352 and S355 at A13 [Basis: BACT, Cumulative Increase] | Y | |
| Part 4 | Abatement requirement for S353 and S356 at A14 [Basis: BACT, Cumulative Increase] | Y | |
| Part 5 | Abatement requirement for S354 and S357 at A15 [Basis: BACT, Cumulative Increase] | Y | |
| Part 7 | CO exhaust concentration limit [Basis: BACT, Cumulative Increase] | Y | |
| Part 8 | POC exhaust concentration limit [Basis: BACT, Cumulative Increase] | Y | |
| Part 9a | NOx hourly, daily and annual emission limits [Basis: BACT, Cumulative Increase] | Y | |
| Part 9b | NOx CEM requirement [Basis: BACT, Cumulative Increase] | Y | |
| Part 10a | CO annual emission limits [Basis: BACT, Cumulative Increase] | Y | |
| Part 10b | CO CEM requirement [Basis: BACT, Cumulative Increase] | Y | |
| Part 11 | POC hourly and annual emission limits [Basis: BACT, Cumulative Increase] | Y | |
| Part 12 | Refinery fuel gas testing requirement for total reduced sulfur [Basis: Cumulative Increase] | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – Q.1
## Source-specific Applicable Requirements
## S352 - COMBUSTION TURBINE
## S353 - COMBUSTION TURBINE
## S354 - COMBUSTION TURBINE

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| Part 13 | Reporting requirement for refinery fuel gas total reduced sulfur measurements [Basis: Cumulative Increase] | Y | |
| Part 14 | Annual POC source test [Basis: Regulation 2-6-409.2] | Y | |
| Part 15 | Recordkeeping requirement [Basis: BACT, Cumulative Increase] | Y | |
| **BAAQMD Condition 18629** | PSD Approval to Construct / Modify issued 3/3/86, modified 5/26/89. The basis for each section is PSD. | | |
| Part III | Facilities Operation | Y | |
| Part IV | Malfunction | Y | |
| Part V | Right to Entry | Y | |
| Part V.A | entry to premises | Y | |
| Part V.B | access to records | Y | |
| Part V.C | right to inspection of equipment and operations | Y | |
| Part V.D | right to sample emissions | Y | |
| Part VI | Transfer of Ownership | Y | |
| Part VII | Severability | Y | |
| Part VIII | Other Applicable Regulations | Y | |
| Part IX | Special Conditions | Y | |
| Part IX.B | Air Pollution Control Equipment | Y | |
| Part IX.B.1 | Requirement for steam injection | Y | |
| Part IX.B.2 | Requirement for SCR | Y | |
| Part IX.D.1 | restriction to refinery fuel gas and natural gas | Y | |
| Part IX.D.2 | 466 MMbtu/hr firing rate limit for each of 3 turbine/duct burner sets | Y | |
| Part IX.D.3 | 1048 MMbtu/hr total firing rate limit | Y | |
| Part IX.D.4 | fuel usage and related records | Y | |
| Part IX.E | Emission Limits for NOx | Y | |
| Part IX.F | Emission Limits for SO2 | Y | |
| Part IX.G | Continuous Emission Monitoring | Y | |
| Part IX.G.1.a | Requirement for NOx CEM and fuel gas H2S sampling | Y | |
| Part IX.G.1.b | parametric monitoring of stack flowrates | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – Q.1
## Source-specific Applicable Requirements
## S352 - COMBUSTION TURBINE
## S353 - COMBUSTION TURBINE
## S354 - COMBUSTION TURBINE

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| Part IX.G.2 | Requirement to maintain records (2 years) | Y | |
| Part IX.G.3 | quarterly report of SO2 emissions and excess emissions | Y | |
| Part IX.G.3.a.(1) | total sulfur concentration in each fuel gas sample | Y | |
| Part IX.G.3.a.(2) | daily average sulfur content in fuel gas, daily average SO2 mass emission rate, total ton/yr of SO2 | Y | |
| Part IX.G.3.b | excess SO2 emissions | Y | |
| Part IX.G.3.c | excess SO2 emissions during startups, shutdowns and malfunctions | Y | |
| Part IX.G.3.d | time and date of CEM failures | Y | |
| Part IX.G.3.e | affirmative statement of CEM operation when no failures occur | Y | |
| Part IX.G.3.f | definition of excess SO2 emissions | Y | |
| Part IX.G.3.g | excess SO2 emissions indicated by CEM is a violation | Y | |
| Part IX.H | New Source Performance Standards (Subparts A and GG) | Y | |
| Part X | Agency Notifications | Y | |

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

## Table IV – Q.2
## Source-specific Applicable Requirements
## S355 – SUPPLEMENTAL DUCT BURNERS FOR S352
## S356 – SUPPLEMENTAL DUCT BURNERS FOR S353
## S357 – SUPPLEMENTAL DUCT BURNERS FOR S354

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| **BAAQMD Regulation 1** | **General Provisions and Definitions (7/17/06)** | | |
| 1-107 | Combination of Emissions | Y | |
| 1-520 | Continuous Emission Monitoring | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – Q.2
## Source-specific Applicable Requirements
## S355 – SUPPLEMENTAL DUCT BURNERS FOR S352
## S356 – SUPPLEMENTAL DUCT BURNERS FOR S353
## S357 – SUPPLEMENTAL DUCT BURNERS FOR S354

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| 1-520.8 | Monitors pursuant to Regulation 2-1-403 | Y | |
| 1-521 | Monitoring May Be Required | Y | |
| 1-522 | Continuous Emission Monitoring and Recordkeeping Procedures | | |
| 1-522.4 | reporting of inoperative CEMs | Y | |
| 1-522.5 | CEM calibration requirements | Y | |
| 1-522.6 | CEM accuracy requirements | Y | |
| 1-522.7 | emission limit exceedance reporting requirements | N | |
| 1-522.8 | monitoring data submittal requirements | Y | |
| 1-522.9 | recordkeeping requirements | Y | |
| 1-522.10 | Regulation 1-521 monitors shall meet requirements specified by District | Y | |
| 1-602 | Area and Continuous Monitoring Requirements | N | |
| **SIP Regulation 1** | **PROVISIONS NO LONGER IN CURRENT RULE General Provisions and Definitions (6/28/99)** | | |
| 1-522 | Continuous Emission Monitoring and Recordkeeping Procedures | Y – note 1 | |
| 1-522.7 | emission limit exceedance reporting requirements | Y - note 1 | |
| **BAAQMD Regulation 6** | **Particulate Matter and Visible Emissions (12/19/90)** | | |
| 6-301 | Ringelmann #1 Limitation | Y | |
| 6-305 | Visible Particles | Y | |
| 6-310.3 | Particulate Weight Limitation | Y | |
| **BAAQMD Regulation 2, Rule 1** | **Regulation 2, Rule 1 - Permits, General Requirements (7/19/06)** | | |
| 2-1-403 | Permit conditions-measurement of emissions | N | |
| 2-1-501 | Monitors | Y | |
| **SIP Regulation 2, Rule 1** | PROVISIONS NO LONGER IN CURRENT RULE **Permits, General Requirements (1/26/99 {adopted 11/01/89})** | | |
| 2-1-403 | Permit conditions-measurement of emissions | Y-note 1 | |
| **BAAQMD Manual of Procedures,** | **Continuous Emission Monitoring Policy and Procedures (1/20/82)** | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – Q.2
## Source-specific Applicable Requirements
## S355 – SUPPLEMENTAL DUCT BURNERS FOR S352
## S356 – SUPPLEMENTAL DUCT BURNERS FOR S353
## S357 – SUPPLEMENTAL DUCT BURNERS FOR S354

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| **Volume V** | | | |
| **BAAQMD Regulation 9, Rule 10** | **Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon Monoxide from Boilers, Steam Generators, and Process Heaters in Petroleum Refineries (7/17/02)** | | |
| 9-10-110.3 | Exemption: Waste heat recovery boilers associated with gas turbines | Y | |
| **40 CFR 60, Subpart Db** | **Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units (3/13/00)** | | |
| 60.40b(a) | Applicability | Y | |
| 60.40b(c) | Affected facilities subject to Subpart J are subject to PM and NOx standards in Subpart Db and SO2 standards in Subpart J | Y | |
| 60.40b(f) | Modification for the sole purpose of combusting gases containing TRS is not a modification | Y | |
| 60.40b(j) | Units subject to Subpart Db are not subject to Subpart D | Y | |
| 60.44b(a) | NOx Standard | Y | |
| 60.44b(a)(4)(i) | NOx standard for duct burner used in combined cycle system for natural gas-firing only conditions | Y | |
| 60.44b(e) | NOx standard for refinery-produced byproduct (i.e., fuel gas) with oil or natural gas combustion. | Y | |
| 60.44b(f) | NOx standard for refinery-produced byproduct with oil or natural gas combustion may be determined on a case-by-case basis (based on 25 ppmv NOx standard for PSD Permit Condition 18629, Part IX.E). | Y | |
| 60.44b(h) | NOx standard applicable at all times | Y | |
| 60.44b(i) | 30-day rolling average | Y | |
| 60.46b | Compliance/Performance test Methods for NOx | Y | |
| 60.46b(b) | NOx standard applicable at all times | | |
| 60.48b | Emission Monitoring for NOx | | |
| 60.48b(b)(1) | Install, calibrate, and operate CEM and record output for measuring NOx discharges | Y | |
| 60.48b(c) | Record data during all periods of operation of CEM except during breakdown and repairs | Y | |
| 60.48b(d) | Continuous NOx monitors measure 1-hr average emission rates | Y | |
| 60.48b(e) | Complies with 60.13 | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – Q.2
## Source-specific Applicable Requirements
## S355 – SUPPLEMENTAL DUCT BURNERS FOR S352
## S356 – SUPPLEMENTAL DUCT BURNERS FOR S353
## S357 – SUPPLEMENTAL DUCT BURNERS FOR S354

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| 60.48b(e)(2) | Span values for NOx | Y | |
| 60.48b(e)(3) | Span values for NOx rounded to nearest 500 ppm | Y | |
| 60.48b(f) | Standby monitoring system and test methods | Y | |
| 60.48b(g) | NOx CEM requirements for units with 250 MMbtu/hr heat input capacity or less | Y | |
| 60.48b(g)(1) | NOx CEM requirements for units with 250 MMbtu/hr heat input capacity or less | Y | |
| 60.48b(h) | NOx CEM not required if subject to §60.44b(a)(4) for natural gas firing-only conditions | Y | |
| 60.49b | Reporting and Recordkeeping | Y | |
| 60.49b(d) | Record amounts of each fuel combusted/day and calculate annual capacity factors at a 12-month rolling average | Y | |
| 60.49b(g) | Recordkeeping – NOx data | Y | |
| 60.49b(h) | Excess emission reports | Y | |
| 60.49b(h)(2)(i) | Combusts natural gas, distillate oil, or residual oil with nitrogen content of 0.3 weight percent or less – for natural gas firing-only conditions | Y | |
| 60.49b(h)(2)(ii) | Heat input capacity of affected units is 250 MMbtu/hr or less and NOx CEM is required under 60.48b(g)(1) | Y | |
| 60.49b(h)(4) | Excess emission definition | Y | |
| 60.49b(i) | Reports of 60.49b(g) data | Y | |
| 60.49b(o) | Records retained for 2 years | Y | |
| 60.49b(v) | Electronic quarterly reports | Y | |
| 60.49b(w) | Semi-annual reports | Y | |
| **40 CFR 60, Subpart J** | **Standards of Performance for Petroleum Refineries (10/2/90)** | | |
| 60.100 | Applicability | Y | |
| 60.104 | Standards for Sulfur Oxides: Compliance Schedule | Y | |
| 60.104(a)(1) | fuel gas H2S concentration limited to 230 mg/dscm (0.10 gr/dscf) except for gas burned as a result of process upset or gas burned at flares from relief valve leaks or other emergency malfunctions | Y | |
| 60.105 | Monitoring of Emissions and Operations | Y | |
| 60.105(a)(4) | monitoring requirement for H2S (dry basis) in fuel gas prior to | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – Q.2
## Source-specific Applicable Requirements
## S355 – SUPPLEMENTAL DUCT BURNERS FOR S352
## S356 – SUPPLEMENTAL DUCT BURNERS FOR S353
## S357 – SUPPLEMENTAL DUCT BURNERS FOR S354

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| | combustion | | |
| 60.105(e)(3)(ii) | Excess H2S emission definitions for 60.7(c) | Y | |
| 60.106(a) | Test methods and procedures | Y | |
| 60.106(e)(1) | Method 11 shall be used to verify compliance with 60.104(a)(1) | Y | |
| **BAAQMD Condition 12122** | | | |
| Part 1 | Restriction to natural gas and refinery fuel gas [Basis: Cumulative Increase] | Y | |
| Part 2 | Restriction on duct burner operation to times when associated turbine is also operated [Basis: BACT, Cumulative Increase] | Y | |
| Part 3 | Abatement requirement for S352 and S355 at A13 [Basis: BACT, Cumulative Increase] | Y | |
| Part 4 | Abatement requirement for S353 and S356 at A14 [Basis: BACT, Cumulative Increase] | Y | |
| Part 5 | Abatement requirement for S354 and S357 at A15 [Basis: BACT, Cumulative Increase] | Y | |
| Part 6 | Duct burner annual firing limit [Basis: Cumulative Increase] | Y | |
| Part 7 | CO exhaust concentration limit [Basis: BACT, Cumulative Increase] | Y | |
| Part 8 | POC exhaust concentration limit [Basis: BACT, Cumulative Increase] | Y | |
| Part 9a | NOx hourly, daily and annual emission limits [Basis: BACT, Cumulative Increase] | Y | |
| Part 9b | NOx CEM requirement [Basis: BACT, Cumulative Increase] | Y | |
| Part 10a | CO annual emission limits [Basis: BACT, Cumulative Increase] | Y | |
| Part 10b | CO CEM requirement [Basis: BACT, Cumulative Increase] | Y | |
| Part 11 | POC hourly and annual emission limits [Basis: BACT, Cumulative Increase] | Y | |
| Part 12 | Refinery fuel gas testing requirement for total reduced sulfur [Basis: Cumulative Increase] | Y | |
| Part 13 | Reporting requirement for refinery fuel gas total reduced sulfur measurements [Basis: Cumulative Increase] | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – Q.2
## Source-specific Applicable Requirements
## S355 – SUPPLEMENTAL DUCT BURNERS FOR S352
## S356 – SUPPLEMENTAL DUCT BURNERS FOR S353
## S357 – SUPPLEMENTAL DUCT BURNERS FOR S354

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| Part 14 | Annual POC source test [Basis: Regulation 2-6-409.2] | Y | |
| Part 15 | Recordkeeping requirement [Basis: BACT, Cumulative Increase] | Y | |
| **BAAQMD Condition 18629** | PSD Approval to Construct / Modify issued 3/3/86, modified 5/26/89. The basis for each section is PSD. | | |
| Part III | Facilities Operation | Y | |
| Part IV | Malfunction | Y | |
| Part V | Right to Entry | Y | |
| Part V.A | entry to premises | Y | |
| Part V.B | access to records | Y | |
| Part V.C | right to inspection of equipment and operations | Y | |
| Part V.D | right to sample emissions | Y | |
| Part VI | Transfer of Ownership | Y | |
| Part VII | Severability | Y | |
| Part VIII | Other Applicable Regulations | Y | |
| Part IX | Special Conditions | Y | |
| Part IX.B | Air Pollution Control Equipment | Y | |
| Part IX.B.1 | Requirement for steam injection | Y | |
| Part IX.B.2 | Requirement for SCR | Y | |
| Part IX.D.1 | restriction to refinery fuel gas and natural gas | Y | |
| Part IX.D.2 | 466 MMbtu/hr firing rate limit for each of 3 turbine/duct burner sets | Y | |
| Part IX.D.3 | 1048 MMbtu/hr total firing rate limit | Y | |
| Part IX.D.4 | fuel usage and related records | Y | |
| Part IX.E | Emission Limits for NOx | Y | |
| Part IX.F | Emission Limits for SO2 | Y | |
| Part IX.G | Continuous Emission Monitoring | Y | |
| Part IX.G.1.a | Requirement for NOx CEM and fuel gas H2S sampling | Y | |
| Part IX.G.1.b | parametric monitoring of stack flowrates | Y | |
| Part IX.G.2 | Requirement to maintain records (2 years) | Y | |
| Part IX.G.3 | quarterly report of SO2 emissions and excess emissions | Y | |
| Part | total sulfur concentration in each fuel gas sample | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – Q.2
## Source-specific Applicable Requirements
## S355 – SUPPLEMENTAL DUCT BURNERS FOR S352
## S356 – SUPPLEMENTAL DUCT BURNERS FOR S353
## S357 – SUPPLEMENTAL DUCT BURNERS FOR S354

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| IX.G.3.a.(1) | | | |
| Part IX.G.3.a.(2) | daily average sulfur content in fuel gas, daily average SO2 mass emission rate, total ton/yr of SO2 | Y | |
| Part IX.G.3.b | excess SO2 emissions | Y | |
| Part IX.G.3.c | excess SO2 emissions during startups, shutdowns and malfunctions | Y | |
| Part IX.G.3.d | time and date of CEM failures | Y | |
| Part IX.G.3.e | affirmative statement of CEM operation when no failures occur | Y | |
| Part IX.G.3.f | definition of excess SO2 emissions | Y | |
| Part IX.G.3.g | excess SO2 emissions indicated by CEM is a violation | Y | |
| Part IX.H | New Source Performance Standards (Subparts A and GG) | Y | |
| Part X | Agency Notifications | Y | |

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

## Table IV - R
## Source-specific Applicable Requirements
## S376 - TOOL ROOM COLD CLEANER
## S377 – MACHINE SHOP COLD CLEANER
## S378 – AUTO SHOP COLD CLEANER

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| **BAAQMD Regulation 8, Rule 16** | **Organic Compounds – Solvent Cleaning Operations (10/16/02)** | | |
| 8-16-201 | Definitions | Y | |
| 8-16-303 | Cold Cleaner Requirements | N | |
| 8-16-303.1 | General Operating Requirements | N | |
| 8-16-303.3.1 | Operate and maintain in proper working order | Y | |
| 8-16-303.1.2 | Leak Repair Requirement | Y | |

# IV. Source Specific Applicable Requirements

## Table IV - R
## Source-specific Applicable Requirements
## S376 - TOOL ROOM COLD CLEANER
## S377 – MACHINE SHOP COLD CLEANER
## S378 – AUTO SHOP COLD CLEANER

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| 8-16-303.1.3 | Solvent Storage or Disposal – Evaporation Prevention | Y | |
| 8-16-303.1.4 | Waste Solvent Disposal | Y | |
| 8-16-303.1.4(a) | Covered Containers for Waste Solvent Awaiting Pick-up | Y | |
| 8-16-303.1.5 | Solvent Evaporation Minimization Devices shall not be Removed | N | |
| 8-16-303.1.6 | Solvent Spray Requirements | N | |
| 8-16-303.2 | Cold Cleaner Operating Requirements | Y | |
| 8-16-303.2.1 | Solvent shall be Drained from Cleaned Parts | Y | |
| 8-16-303.2.2 | Solvent Agitation | Y | |
| 8-16-303.2.3 | Solvent Cleaning of Porous or Absorbent Materials is Prohibited | N | |
| 8-16-303.3 | Cold Cleaner General Equipment Requirements | N | |
| 8-16-303.3.1 | Container | Y | |
| 8-16-303.3.2 | Solvent Evaporation Reduction for Idle Equipment | N | |
| 8-16-303.3.3 | Used Solvent Returned to Container | N | |
| 8-16-303.3.4 | Label Stating Operating Requirements | N | |
| 8-16-303.5 | Cold Cleaner Requirements for Repair and Maintenance Cleaning | N | |
| 8-16-303.5.2 | Cleaning solution shall be branched, cyclic, or linear completely methylated siloxane (VMS) | N | |
| 8-16-501 | Solvent Records | N | |
| 8-16-501.2 | Facility-wide Annual Solvent Usage Records | N | |
| 8-16-501.3 | Annual Records of Type and Amount of Solvent Used for Wipe Cleaning | N | |
| 8-16-501.5 | Records Retained for Previous 24 Month Period | N | |
| **SIP Regulation 8, Rule 16** | **Organic Compounds – Solvent Cleaning Operations (6/15/94)** | | |
| 8-16-303 | Cold Cleaner Requirements | Y – note 1 | |
| 8-16-303.1 | General Operating Requirements | Y – note 1 | |
| 8-16-303.1.4 | Waste Solvent Disposal | Y – note 1 | |
| 8-16-303.1.4(a) | Covered Containers for Waste Solvent Awaiting Pick-up | Y – note 1 | |

# IV. Source Specific Applicable Requirements

## Table IV - R
## Source-specific Applicable Requirements
## S376 - TOOL ROOM COLD CLEANER
## S377 – MACHINE SHOP COLD CLEANER
## S378 – AUTO SHOP COLD CLEANER

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| 8-16-303.1.5 | Solvent Evaporation Minimization Devices shall not be Removed | Y – note 1 | |
| 8-16-303.1.6 | Solvent Spray Requirements | Y – note 1 | |
| 8-16-303.3 | Cold Cleaner General Equipment Requirements | Y – note 1 | |
| 8-16-303.3.2 | Solvent Evaporation Reduction for Idle Equipment | Y – note 1 | |
| 8-16-303.3.3 | Used Solvent Returned to Container | Y – note 1 | |
| 8-16-303.3.4 | Label Stating Operating Requirements | Y – note 1 | |
| 8-16-501 | Solvent Records | Y – note 1 | |
| 8-16-501.2 | Facility-wide Quarterly Solvent Usage Records | Y – note 1 | |
| **BAAQMD Condition 16677** | | | |
| Part 1 | Net usage of citrus-based solvent at S376, S377 and S378 shall not exceed 150 gallons each in any consecutive 12-month period. [Basis: Cumulative Increase] | Y | |
| Part 2 | Criteria for using solvents other than based solvents. [Basis: Cumulative Increase and Toxic Risk Screen] | Y | |
| Part 3a, 3b, 3c | Recordkeeping requirements. [Basis: Cumulative Increase and Toxic Risk Screen] | Y | |

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

# IV. Source Specific Applicable Requirements

## Table IV - S
## Source-specific Applicable Requirements
## S425 – MARINE LOADING BERTH M1
## S426 – MARINE LOADING BERTH M2

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| **BAAQMD Regulation 8, Rule 44** | **Organic Compounds-Marine Tank Vessel Operations (12/7/05)** | | |
| 8-44-110 | Exemption: loading events | N | |
| 8-44-111 | Exemption: marine vessel fueling | N | |
| 8-44-115 | Exemption, Safety/Emergency Operations | N | |
| 8-44-116 | Limited Exemption, Equipment Leaks | N | |
| 8-44-301 | Limitations on Marine Tank Vessel Loading and Lightering (until 1/1/07, applies to all gasoline, gasoline blending stocks, aviation gas, JP-4 fuel and crude oil) | N | |
| 8-44-301 | Limitations on Marine Tank Vessel Loading and Lightering (after 1/1/07, applies to all gasoline, gasoline blending stocks, aviation gas, JP-4 fuel and crude oil and any other organic compound or mixture of organic compounds that exists as a liquid at actual conditions of use or storage that has a flash point less than 100 degrees F) | N | 1/1/07 |
| 8-44-302 | Limitations on Marine Tank Vessel Ballasting (until 1/1/07, applies to all gasoline, gasoline blending stocks, aviation gas, JP-4 fuel and crude oil) | N | |
| 8-44-302 | Limitations on Marine Tank Vessel Ballasting (after 1/1/07, applies to all gasoline, gasoline blending stocks, aviation gas, JP-4 fuel and crude oil and any other organic compound or mixture of organic compounds that exists as a liquid at actual conditions of use or storage that has a flash point less than 100 degrees F) | N | 1/1/07 |
| 8-44-303 | Limitations on Marine Tank Vessel Venting (until 1/1/07, applies to all gasoline, gasoline blending stocks, aviation gas, JP-4 fuel and crude oil) | N | |
| 8-44-303 | Limitations on Marine Tank Vessel Venting (after 1/1/07, applies to all gasoline, gasoline blending stocks, aviation gas, JP-4 fuel and crude oil and any other organic compound or mixture of organic compounds that exists as a liquid at actual conditions of use or storage that has a flash point less than 100 degrees F) | N | 1/1/07 |
| 8-44-304 | Emission Control Requirements | N | |
| 8-44-305 | Equipment Leaks | N | |
| 8-44-305.2 | Leak requirements for marine vessels | N | |
| 8-44-305.3 | Inspection requirements during operation | N | 1/1/07 |

# IV. Source Specific Applicable Requirements

## Table IV - S
## Source-specific Applicable Requirements
## S425 – MARINE LOADING BERTH M1
## S426 – MARINE LOADING BERTH M2

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| 8-44-305.4 | Tagging, minimization, and repair requirements | N | |
| 8-44-403 | Notifications Regarding Safety/Emergency Exemption | N | |
| 8-44-404 | Notifications for Operations Conducted Other Than at Marine Terminals | N | |
| 8-44-501 | Recordkeeping | N | |
| 8-44-501.1 | Records for loading events | N | |
| 8-44-501.1.1 | Name of vessel | N | |
| 8-44-501.1.2 | Owner, country, operator, and agent | N | |
| 8-44-501.1.3 | Arrival and departure | N | |
| 8-44-501.1.4 | Tank identifying designation, type, and amount | N | |
| 8-44-501.1.5 | Flash point and temperature | N | 1/1/07 |
| 8-44-501.1.6 | Prior cargo | N | |
| 8-44-501.1.7 | Source of flash point data and copy of source document or analysis | N | |
| 8-44-501.1.8 | Condition of each tank | N | |
| 8-44-501.1.9 | Means used to comply with 8-44-304 | N | |
| 8-44-501.1.10 | Date and time of inspections, identification equipment | N | 1/1/07 |
| 8-44-501.2 | Records for ballasting operations | N | |
| 8-44-501.2.1. | Information in 8-44-501.1.1 through 8-44-501.1.3 | N | |
| 8-44-501.2.2 | Tank identifying designation, amount of ballast water | N | |
| 8-44-501.2.3 | Prior cargo | N | |
| 8-44-501.2.4 | Means used to comply with 8-44-302 | N | |
| 8-44-501.2.5 | Date and time of inspections, identification equipment | N | 1/1/07 |
| 8-44-501.3 | Records for venting operations | N | |
| 8-44-501.3.1 | Information in 8-44-501.1.1 through 8-44-501.1.3 | N | |
| 8-44-501.3.2 | Tank identifying designation, prior cargo | N | |
| 8-44-501.3.3 | Activity leading to venting | N | |
| 8-44-501.3.4 | Means used to comply with 8-44-303 | N | |
| 8-44-501.3.5 | Date and time of inspections, identification equipment | N | 1/1/07 |
| 8-44-502 | Record Keeping – Marine Tank Vessels | N | 1/1/07 |
| 8-44-503 | Record Keeping – Exemptions | N | |
| 8-44-504 | Burden of Proof | N | |
| 8-44-603 | Leak Determinations | N | |
| 8-44-604 | Flash Point Determinations | N | |

# IV. Source Specific Applicable Requirements

## Table IV - S
## Source-specific Applicable Requirements
## S425 – MARINE LOADING BERTH M1
## S426 – MARINE LOADING BERTH M2

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| **SIP Regulation 8, Rule 44** | **Organic Compounds-Marine Vessel Loading Terminals (8/30/93)** | **Y** | |
| 8-44-110 | Exemption: loading events | Y | |
| 8-44-111 | Exemption: marine vessel fueling | Y | |
| 8-44-301 | Marine Terminal Loading Limit | Y | |
| 8-44-301.1 | Limited to 5.7 gram per cubic meter (2 lb per 1000 bbl) of organic liquid loaded, or | Y | |
| 8-44-301.2 | POC emissions reduced 95% by weight from uncontrolled conditions | Y | |
| 8-44-302 | Emission control equipment | Y | |
| 8-44-303 | Operating practice | Y | |
| 8-44-304 | Equipment Maintenance | Y | |
| 8-44-304.1 | Certified leak free, gas tight and in good working order | Y | |
| 8-44-304.2 | Loading ceases any time gas or liquid leaks are discovered | Y | |
| 8-44-402 | Safety/Emergency Operations | Y | |
| 8-44-402.1 | Rule does not require act/omission in violation of Coast Guard/other rules | Y | |
| 8-44-402.2 | Rule does not prevent act/omission for vessel safety or saving life at sea | Y | |
| 8-44-305 | Ozone excess day prohibition | Y | |
| 8-44-501 | Record keeping | Y | |
| 8-44-501.1 | Name and location | Y | |
| 8-44-501.2 | Responsible company | Y | |
| 8-44-501.3 | Dates and times | Y | |
| 8-44-501.4 | Name, registry of the vessel loaded and legal owner | Y | |
| 8-44-501.5 | Prior cargo carried | Y | |
| 8-44-501.6 | Type, amount of liquid cargo loaded | Y | |
| 8-44-501.7 | Condition of tanks | Y | |
| 8-44-502 | Burden of proof | Y | |
| **40 CFR 60 Subpart A** | **General Provisions (03/16/1994)** | | |
| 60.13 | Monitoring Requirements | Y | |
| 60.13(i) | Approval of Alternative Monitoring | Y | |
| **NSPS** | **Standards of Performance for Petroleum Refineries (7/1/00)** | | |

# IV. Source Specific Applicable Requirements

## Table IV - S
## Source-specific Applicable Requirements
## S425 – MARINE LOADING BERTH M1
## S426 – MARINE LOADING BERTH M2

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| **40 CFR 60 Subpart J** | | | |
| 60.100 | Applicability | Y | |
| 60.104 | Standards for Sulfur Oxides: Compliance Schedule | Y | |
| 60.104(a)(1) | fuel gas H2S concentration limited to 230 mg/dscm (0.10 gr/dscf) except for gas burned as a result of process upset or gas burned at flares from relief valve leaks or other emergency malfunctions | Y | |
| 60.105(e)(3)(ii) | Excess H2S emission definitions for 60.7(c) | Y | |
| 60.106(a) | Test methods and procedures | Y | |
| 60.106(e)(1) | Method 11 shall be used to verify compliance with 60.104(a)(1) | Y | |
| **NSPS 40 CFR 60 Appendix A** | **Appendix A to Part 60 – Test Methods** | Y | |
| **40 CFR 63** | **National Emission Standards for Hazardous Air Pollutants for Source Categories** | Y | |
| **NESHAPS Part 63 Subpart Y** | **National Emission Standards for Marine Tank Vessel Loading Operations** | | |
| 63.560(a) | Maximum Achievable Control Technology (MACT) applicability | Y | |
| 63.560(a)(2) | MACT does not apply to existing sources with emissions < 10 or 25 tons | Y | |
| 63.560(a)(3) | Record keeping in 63.567(j)(4) and emission estimation in 63.565(l) apply to existing sources < 10 and 25 tons | Y | |
| 63.565(l) | Emission estimation procedures | Y | |
| 63.567(j)(4) | Retain records of emission estimates per 63.565(l), and actual throughputs, by commodity, for 5 years | Y | |
| **BAAQMD Condition 4336** | | | |
| Part 1 | A420 oxidizer temperature requirements [Basis: Cumulative Increase] | Y | |
| Part 2 | Monitoring requirements [Basis: Cumulative Increase] | Y | |
| Part 3 | Prohibition against loading without A420 in service [Basis: Cumulative Increase] | Y | |
| Part 4 | Leak test requirement [Basis: Cumulative Increase] | Y | |

# IV. Source Specific Applicable Requirements

## Table IV - S
## Source-specific Applicable Requirements
## S425 – MARINE LOADING BERTH M1
## S426 – MARINE LOADING BERTH M2

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| Part 5 | Maximum loading pressure relative to relief valve setpoint [Basis: Cumulative Increase] | Y | |
| Part 6a | Throughput limit for regulated materials [Basis: Cumulative Increase] | Y | |
| Part 6b | Maximum loading rate [Basis: Cumulative Increase] | Y | |
| Part 7 | Limit on receipts of crude oil via tanker (ship) [Cumulative increase] | Y | |
| Part 8 | Recordkeeping requirement [Basis: Cumulative Increase] | Y | |
| Part 9 | Destruction efficiency [Basis: BACT] | Y | |
| Part 10 | Alternative monitoring for compliance with 40 CFR 60.104(a)(1) H2S limit [40 CFR 60.13(i), BAAQMD Regulation 2-6-501] | Y | |

## Table IV - T
## Source-specific Applicable Requirements
## S450 – GROUNDWATER EXTRACTION TRENCHES

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| **BAAQMD Condition 12245** | | | |
| Part 1 | Extracted water to be treated at wastewater treatment plant [Basis: Cumulative Increase] | Y | |
| Part 2 | Covers required on all pump vaults and piping access boxes [Basis: Cumulative Increase] | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – U
## Source-specific Applicable Requirements
## S1001 – SULFUR PLANT UNIT 234 , S1002 – SULFUR PLANT UNIT 236
## S1003 – SULFUR PLANT UNIT 238, S301 – MOLTEN SULFUR PIT 234
## S302 – MOLTEN SULFUR PIT 236 AND S303 – MOLTEN SULFUR PIT 238

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| **BAAQMD Regulation 6** | **Particulate Matter and Visible Emissions (12/19/90)** | | |
| 6-301 | Ringelmann #1 Limitation | Y | |
| 6-305 | Visible Particles | Y | |
| 6-310 | Particulate Weight Limitation | Y | |
| 6-311 | General Operations | Y | |
| 6-330 | Sulfur Recovery Units (SO3, H2SO4 emission limitations) | Y | |
| 6-401 | Appearance of Emissions | Y | |
| **BAAQMD Regulation 9, Rule 1** | **Inorganic Gaseous Pollutants – Sulfur Dioxide (3/15/95)** | | |
| 9-1-313 | Sulfur Removal Operations at Petroleum Refineries (processing more than 20,000 bbl/day of crude oil) | N | |
| 9-1-313.2 | operation of a sulfur removal and recovery system that removes and recovers: 95% of H2S from refinery fuel gas, 95% of H2S and ammonia from process water streams | N | |
| **SIP Regulation 9, Rule 1** | **Inorganic Gaseous Pollutants – Sulfur Dioxide (6/8/99)** | | |
| 9-1-313 | Sulfur Removal Operations at Petroleum Refineries (processing more than 20,000 bbl/day of crude oil) | Y | |
| 9-1-313.2 | operation of a sulfur removal and recovery system that removes and recovers: 95% of H2S from refinery fuel gas, 95% of H2S and ammonia from process water streams | Y – note 1 | |
| **40 CFR 60 Subpart A** | **General Provisions (03/16/1994)** | | |
| 60.7 | Notification and record keeping | Y | |
| 60.7(a)(5) | Notification of beginning of demonstration of continuous monitoring system | Y | |
| 60.7(b) | Records of startup, shutdown, or malfunction, malfunction of control equipment; or periods when CEM is inoperative | Y | |
| 60.7(c) | Excess emissions and monitoring systems reports | Y | |
| 60.7(d) | Format of summary report forms | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – U
## Source-specific Applicable Requirements
## S1001 – SULFUR PLANT UNIT 234 , S1002 – SULFUR PLANT UNIT 236
## S1003 – SULFUR PLANT UNIT 238, S301 – MOLTEN SULFUR PIT 234
## S302 – MOLTEN SULFUR PIT 236 AND S303 – MOLTEN SULFUR PIT 238

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| 60.7(f) | Records | Y | |
| 60.8 | Performance tests | Y | |
| 60.11 | Compliance with standards and maintenance requirements | Y | |
| 60.11(a) | Compliance determined by performance tests and CEM | Y | |
| 60.11(d) | Good air pollution control practice | Y | |
| 60.11(f) | applicable subpart shall supersede any conflicting provisions in paragraphs (a) through (e) | Y | |
| 60.11(g) | Credible evidence | Y | |
| 60.12 | Circumvention | Y | |
| 60.13 | Monitoring requirements | Y | |
| 60.13(a) | CEMs subject to Appendices B and F | Y | |
| 60.13(b) | Installation of CEMs before performance tests | Y | |
| 60.13(d)(1) | Zero and span calibration drifts | Y | |
| 60.13(e) | Continuous operation; minimum frequency of operation | Y | |
| 60.13(e)(2) | Monitoring cycle every 15 minutes | Y | |
| 60.13(f) | Representative measurements | Y | |
| 60.19 | General notification and reporting requirements | Y | |
| **NSPS 40 CFR 60 Subpart J** | **Standards of Performance for Petroleum Refineries (7/1/00)** | | |
| 60.104 | Standards for Sulfur Oxides | Y | |
| 60.104(a)(2)(i) | Sulfur dioxide (SO2) less than 250 ppm at 0% excess air | Y | |
| 60.105 | Monitoring of Emissions and Operations | Y | |
| 60.105(a) | Continuous Monitoring systems | Y | |
| 60.105(a)(5) | SO2 and O2 monitors | Y | |
| 60.105(a)(5)(i) | Span values: 500 ppm SO2 and 25% O2 | Y | |
| 60.105(a)(5)(ii) | The performance evaluations for this SO2 monitor under §60.13(c) shall use Performance Specification 2. Methods 6 or 6C and 3 or 3A shall be used for conducting the relative accuracy evaluations | Y | |
| 60.105(e)(4) | Periods of excess emissions | Y | |
| 60.105(e)(4) | 12-hour periods where concentration exceeds average of 250 ppm, | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – U
## Source-specific Applicable Requirements
## S1001 – SULFUR PLANT UNIT 234 , S1002 – SULFUR PLANT UNIT 236
## S1003 – SULFUR PLANT UNIT 238, S301 – MOLTEN SULFUR PIT 234
## S302 – MOLTEN SULFUR PIT 236 AND S303 – MOLTEN SULFUR PIT 238

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| (i) | dry, at 0% O2 | | |
| 60.106 | Test methods and procedures | Y | |
| 60.106(a) | Methods in Appendix A | Y | |
| 60.106(f) | Determination of compliance with SO2 limit | Y | |
| 60.106(f)(1) | Methods to determine SO2 concentration | Y | |
| 60.106(f)(3) | Methods to determine O2 concentration | Y | |
| 60.107 | Reporting and recordkeeping requirements | Y | |
| 60.107(d) | Data availability | Y | |
| 60.107(e) | Semi-annual reports | Y | |
| 60.107(f) | Signed certifications | Y | |
| **NSPS 40 CFR 60 Appendix B** | **Performance Specifications** | | |
| Performance Specification 2 | Specifications and Test Procedures for SO2 and NOX Continuous Emission Monitoring Systems in Stationary Sources | Y | |
| **NSPS 40 CFR 60 Appendix F** | **Quality Assurance Procedures** | | |
| **40 CFR 63, Subpart A** | **General Provisions (3/16/94)** | | |
| 63.1 | Applicability (except that Subpart UUU specifies calendar or operating day) | Y | |
| 63.2 | Definitions | Y | |
| 63.3 | Units and Abbreviations | Y | |
| 63.4 | Prohibited Activities | Y | |
| 63.5 | Construction and Reconstruction | Y | |
| 63.5(a) | Applicability | Y | |
| 63.5(b) | Requirements for existing, newly constructed, and reconstructed sources (replace reference to Section 63.9 with Sections 63.9(b)(4) and (5)) | Y | |
| 63.5(c) | [reserved] | Y | |
| 63.5(d) | Application for approval of construction or reconstruction | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – U
## Source-specific Applicable Requirements
## S1001 – SULFUR PLANT UNIT 234 , S1002 – SULFUR PLANT UNIT 236
## S1003 – SULFUR PLANT UNIT 238, S301 – MOLTEN SULFUR PIT 234
## S302 – MOLTEN SULFUR PIT 236 AND S303 – MOLTEN SULFUR PIT 238

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| 63.5(d)(1) | General application requirements | Y | |
| 63.5(d)(1)(i) | Application for approval (except that Subpart UUU specifies the application is submitted as soon as practicable before startup but not later than 90 days (rather then 60) after the promulgation date where construction or reconstruction had commenced and initial startup had not occurred before promulgation.) | Y | |
| 63.5(d)(1)(ii) | Separate application for each construction or deconstruction (Except that emission estimates specified in §63.5(d)(1)(ii)(H) are not required.) | Y | |
| 63.5(d)(3) | Application for approval of reconstruction (Except that §63.5(d)(3)(ii) does not apply.) | Y | |
| 63.5(d)(3)(i) | A brief description of the affected source, etc. | Y | |
| 63.5(d)(3)(iii) | An estimate of the fixed capital cost of the replacements and of constructing a comparable entirely new source | Y | |
| 63.5(d)(3)(iv) | The estimated life of the affected source after the replacements | Y | |
| 63.5(d)(3)(v) | A discussion of any economic or technical limitations | Y | |
| 63.5(d)(3)(vi) | Designation of reconstructed source | Y | |
| 63.5(d)(4) | Additional information | Y | |
| 63.5(e) | Approval of construction or reconstruction | Y | |
| 63.5(f) | Approval of construction or reconstruction based on prior State preconstruction review | Y | |
| 63.5(f)(1) | Preconstruction review procedures that a State utilizes for other purposes, etc. | Y | |
| 63.5(f)(2) | Deadline for request of approval of construction or reconstruction (Except that 60 days is changed to 90 days and cross-reference to 53.9(B)(2) does not apply.) | Y | |
| 63.6 | Compliance with standards and maintenance requirements | Y | |
| 63.6(a) | Applicability | Y | |
| 63.6(b) | Compliance dates for new and reconstructed sources | Y | |
| 63.6(b)(1) | Compliance at standard's effective date | Y | |
| 63.6(b)(2) | Compliance upon startup | Y | |
| 63.6(b)(3) | Compliance within 3 years of effective date | Y | |
| 63.6(b)(4) | Compliance within 10 years of effective date | Y | |
| 63.6(b)(5) | Notification to administrator of later compliance date (Except that | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – U
## Source-specific Applicable Requirements
## S1001 – SULFUR PLANT UNIT 234 , S1002 – SULFUR PLANT UNIT 236
## S1003 – SULFUR PLANT UNIT 238, S301 – MOLTEN SULFUR PIT 234
## S302 – MOLTEN SULFUR PIT 236 AND S303 – MOLTEN SULFUR PIT 238

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| | subpart UUU specifies different compliance dates for sources) | | |
| 63.6(c) | Compliance dates for existing sources | Y | |
| 63.6(c)(1) | Compliance with standards by the compliance date established by the Administrator | Y | |
| 63.6(c)(2) | Compliance with standards by date established by Section 112(f) of the act | Y | |
| 63.6(e) | Operation and maintenance requirements | Y | |
| 63.6(e)(1) | Operation in a manner consistent with safety and good air pollution control practices | Y | |
| 63.6(e)(2) | Reserved | Y | |
| 63.6(e)(3) | Startup, shutdown, and malfunction plan | Y | |
| 63.6(e)(3)(i) | Development and implementation of a written startup, shutdown, and malfunction plan | Y | |
| 63.6(e)(3)(ii) | Periods of startup, shutdown, and malfunction | Y | |
| 63.6(e)(3)(iii) | Operation consistent with procedures | Y | |
| 63.6(e)(3)(iv) | Operation not consistent with procedures (Except that reports of actions not consistent with plan are not required within 2 and 7 days of action but rather must be included in next periodic report) | Y | |
| 63.6(e)(3)(v) | Maintenance of the plan at the affected source (The owner or operator is only required to keep the latest version of the plan) | Y | |
| 63.6(e)(3)(vi) | Alternative plans | Y | |
| 63.6(e)(3)(vii) | Administrator may require changes to plan | Y | |
| 63.6(e)(3)(viii) | The owner or operator may periodically revise the startup, shutdown, and malfunction plan | Y | |
| 63.6(f) | Compliance with non-opacity emission standards | Y | |
| 63.6(f)(1) | Applicability (standards apply at all times except startup, shutdown, and malfunction) | Y | |
| 63.6(f)(2) | Methods for determining compliance | Y | |
| 63.6(f)(2)(i) | Based on performance tests | Y | |
| 63.6(f)(2)(ii) | Evaluation of an owner or operator's conformance with operation and maintenance requirements | Y | |
| 63.6(f)(2)(iii) | Conditions under which performance testing for state requirements shows compliance | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – U
## Source-specific Applicable Requirements
## S1001 – SULFUR PLANT UNIT 234 , S1002 – SULFUR PLANT UNIT 236
## S1003 – SULFUR PLANT UNIT 238, S301 – MOLTEN SULFUR PIT 234
## S302 – MOLTEN SULFUR PIT 236 AND S303 – MOLTEN SULFUR PIT 238

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| 63.6(f)(2)(iii)(A) | Performance test conducted within a reasonable amount of time | Y | |
| 63.6(f)(2)(iii)(B) | Performance test conducted under representative operating conditions | Y | |
| 63.6(f)(2)(iii)(c) | EPA-approved test methods and procedures | Y | |
| 63.6(f)(2)(iv) | Determination of compliance | Y | |
| 63.6(f)(2)(v) | Conformance with operation and maintenance requirements | Y | |
| 63.6(f)(3) | Finding of compliance | Y | |
| 63.6(g) | Use of an alternative non-opacity emission standard | Y | |
| 63.6(i) | Extension of compliance with emission standards (Parts 1-14 and part 16. Part 15 is reserved. | Y | |
| 63.7 | Performance testing requirements | Y | |
| 63.7(a) | Applicability and performance test dates | Y | |
| 63.7(a)(1) | Performance test requirements Applicability (Except that subpart UUU specifies the applicable test and demonstration procedures.) | Y | |
| 63.7(a)(3) | The Administrator may require performance tests at any time when action is authorized by section 114 of the Act (Except that subpart UUU specifies notification at least 30 days prior to the scheduled test date rather than 60 days.) | Y | |
| 63.7(b) | Notification of performance test | Y | |
| 63.7(c) | Quality assurance program | Y | |
| 63.7(d) | Performance testing facilities | Y | |
| 63.7(e) | Conduct of performance tests | Y | |
| 63.7(f) | Use of an alternative test method | Y | |
| 63.7(g) | Data analysis, recordkeeping, and reporting (Except performance test reports must be submitted with notification of compliance status due 150 days after the compliance date.) | Y | |
| 63.7(h) | Waiver of performance tests | Y | |
| 63.8 | Monitoring requirements | Y | |
| 63.8(a) | Applicability | Y | |
| 63.8(a)(1) | Applicability | Y | |
| 63.8(a)(2) | Performance Specifications | Y | |
| 63.8(a)(4) | Additional monitoring requirements for control devices | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – U
## Source-specific Applicable Requirements
## S1001 – SULFUR PLANT UNIT 234 , S1002 – SULFUR PLANT UNIT 236
## S1003 – SULFUR PLANT UNIT 238, S301 – MOLTEN SULFUR PIT 234
## S302 – MOLTEN SULFUR PIT 236 AND S303 – MOLTEN SULFUR PIT 238

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| 63.8(b) | Conduct of monitoring | Y | |
| 63.8(b)(1) | Conduct of monitoring | Y | |
| 63.8(b)(2) | Combination of the emissions from two or more affected sources (Subpart UUU specifies the required monitoring locations.) | Y | |
| 63.8(b)(3) | More than one CMS (Subpart UUU specifies the required monitoring locations.) | Y | |
| 63.8(c) | Operation and maintenance of continuous monitoring systems | Y | |
| 63.8(c)(1) | Good air pollution control practices | Y | |
| 63.8(c)(1)(i) | Maintenance and operation of each CMS | Y | |
| 63.8(c)(1)(ii) | Parts for routine repairs readily available (Except that subpart UUU specifies that reports are not required if actions are consistent with the SSM plan, unless requested by the permitting authority. If actions are not consistent, actions must be described in next compliance report.) | Y | |
| 63.8(c)(1)(iii) | Compliance with Operation and Maintenance Requirements (Except that subpart UUU specifies that reports are not required if actions are consistent with the SSM plan, unless requested by the permitting authority. If actions are not consistent, actions must be described in next compliance report.) | Y | |
| 63.8(c)(2) | Monitoring system installation | Y | |
| 63.8(c)(3) | Monitoring system installation | Y | |
| 63.8(c)(4)(ii) | One cycle of operation for each 15-minute period (Applicable since facility has chosen to comply with NSPS SO2 standard) | Y | |
| 63.8(c)(6) | CMS Requirements (Applicable since facility has chosen to comply with NSPS SO2 standard) | Y | |
| 63.8(c)(7) | Out-of-control CMS | Y | |
| 63.8(c)(8) | Submittal of all information concerning out-of-control periods | Y | |
| 63.8(d) | Quality Control Program (Applicable since facility has chosen to comply with NSPS SO2 standard) | Y | |
| 63.8(e) | Performance evaluation of continuous monitoring systems (Applicable since facility has chosen to comply with NSPS SO2 standard. Results to be submitted by part of Notification Compliance Status due 150 days after the compliance date) | Y | |
| 63.8(f) | Use of an alternative monitoring method | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – U
## Source-specific Applicable Requirements
## S1001 – SULFUR PLANT UNIT 234 , S1002 – SULFUR PLANT UNIT 236
## S1003 – SULFUR PLANT UNIT 238, S301 – MOLTEN SULFUR PIT 234
## S302 – MOLTEN SULFUR PIT 236 AND S303 – MOLTEN SULFUR PIT 238

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| 63.8(g) | Reduction of monitoring data | Y | |
| 63.8(g)(1) | Reduction of monitoring data | Y | |
| 63.8(g)(2) | 1-hour averages | Y | |
| 63.8(g)(3) | Records in reduced or non-reduced form | Y | |
| 63.8(g)(4) | Units of the relevant standard | Y | |
| 63.9 | Notification requirements | Y | |
| 63.9(a) | Applicability and general information | Y | |
| 63.9(b) | Initial notifications (Sections 1, 2, 4, and 5. Section 3 is reserved.) Notification of construction or reconstruction is to be submitted as soon as practicable before startup.) | Y | |
| 63.9(c) | Request for extension of compliance | Y | |
| 63.9(d) | Notification that source is subject to special compliance requirements | Y | |
| 63.9(e) | Notification of performance test (Except that notification is required at least 30 days before test.) | Y | |
| 63.9(g) | Additional notification requirements for sources with continuous monitoring systems (Applicable since facility has chosen to comply with NSPS SO2 standard) | Y | |
| 63.9(h) | Notification of compliance status (Except that subpart UUU specifies the notification is due no later than 150 days after compliance date.) | Y | |
| 63.9(i) | Adjustment to time periods or postmark deadlines | Y | |
| 63.9(j) | Change in information already provided | Y | |
| 63.10 | Recordkeeping and reporting requirements | Y | |
| 63.10(a) | Applicability and general information | Y | |
| 63.10(b) | General recordkeeping requirements | Y | |
| 63.10(c) | Additional recordkeeping requirements for sources with continuous monitoring systems | Y | |
| 63.10(c)(1) | All required CMS measurements | Y | |
| 63.10(c)(2) | [reserved] | Y | |
| 63.10(c)(3) | [reserved] | Y | |
| 63.10(c)(4) | [reserved] | Y | |
| 63.10(c)(5) | Date and time when CMS was inoperative | Y | |
| 63.10(c)(6) | Date and time when CMS was out-of-control | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – U
## Source-specific Applicable Requirements
## S1001 – SULFUR PLANT UNIT 234 , S1002 – SULFUR PLANT UNIT 236
## S1003 – SULFUR PLANT UNIT 238, S301 – MOLTEN SULFUR PIT 234
## S302 – MOLTEN SULFUR PIT 236 AND S303 – MOLTEN SULFUR PIT 238

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| 63.10(c)(9) | [reserved] | Y | |
| 63.10(c)(10) | The nature and cause of any malfunction | Y | |
| 63.10(c)(11) | Corrective action or preventive measures | Y | |
| 63.10(c)(12) | Nature of repairs or adjustments | Y | |
| 63.10(c)(13) | Process operating time | Y | |
| 63.10(c)(14) | Procedures in quality control program | Y | |
| 63.10(c)(15) | Use of startup, shutdown, and malfunction plan | Y | |
| 63.10(d) | General reporting requirements | Y | |
| 63.10(d)(1) | Reports to the Administrator | Y | |
| 63.10(d)(4) | Progress reports | Y | |
| 63.10(d)(5)(i) | Periodic startup, shutdown, and malfunction reports | Y | |
| 63.10(d)(5)(ii) | Immediate startup, shutdown, and malfunction reports (reports not required if actions consistent with the SSM plan, unless requested by permitting authority) | Y | |
| 63.10(e) | Additional reporting requirements for sources with continuous monitoring systems | Y | |
| 63.10(e)(1) | General (Applicable since facility has chosen to comply with NSPS SO2 standard) | Y | |
| 63.10(e)(2) | Reporting results of continuous monitoring system performance evaluations (Applicable since facility has chosen to comply with NSPS SO2 standard) | Y | |
| 63.10(f) | Waiver of recordkeeping or reporting requirements | Y | |
| 63.11 | Control device requirements (Applicable to flares) | Y | |
| 63.15 | Availability of information and confidentiality | Y | |
| **40 CFR 63 Subpart UUU** | **National Emission Standards for Hazardous Pollutants for Petroleum Refineries: Catalytic Cracking Units, Catalytic Reforming Units, and Sulfur Recovery Units (4/11/02)** | **Y** | |
| 63.1561 | Am I subject to this subpart? | Y | |
| 63.1562(a) | New, reconstructed, or existing affected sources | Y | |
| 63.1562(b)(3) | Sulfur recovery units and tail gas treatment units | Y | |
| 63.1563 | When do I have to comply with this subpart? | Y | |
| 63.1563(b) | Deadline for existing sources-4/11/05 | Y | |
| 63.1563(e) | Notification requirements | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – U
## Source-specific Applicable Requirements
## S1001 – SULFUR PLANT UNIT 234 , S1002 – SULFUR PLANT UNIT 236
## S1003 – SULFUR PLANT UNIT 238, S301 – MOLTEN SULFUR PIT 234
## S302 – MOLTEN SULFUR PIT 236 AND S303 – MOLTEN SULFUR PIT 238

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| 63.1568 | What are my requirements for HAP emissions from sulfur recovery units? | Y | |
| 63.1568(a) | Emission limitations and work practice standards | Y | |
| 63.1568(a)(1)(i) | Sulfur Emission Limitation from Claus sulfur recovery units electing to meet NSPS Limits: 250 ppmvd SO2 at 0% excess air. (Table 29, Item 2.a) | Y | |
| 63.1568(a)(3) | Prepare Operation, Maintenance, and Monitoring Plan and operate at all times according to the procedures in the plan | Y | |
| 63.1568(b) | Demonstrate Initial Compliance with Emission Limitation and Work Practice Standard | Y | |
| 63.1568(b)(1) | Continuous Emission Monitoring System to measure and record hourly average SO2 concentration, with O2 monitor to correct excess air concentration (Table 31, Item 2.a) | Y | |
| 63.1568(b)(2) | Performance Test: measure SO2 concentration using CEMS every 15 minutes for 24 hours and reduce the data to 1-hr averages (Table 32, Item 1) | Y | |
| 63.1568(b)(5) | Demonstrate Initial Compliance with Emission Limitation: Average SO2 emissions measured by CEMS in initial performance test not greater than 250 ppmvd at 0% excess O2, and monitoring system meets applicable requirements (Table 33, Item 2.a) | Y | |
| 63.1568(b)(6) | Demonstrate initial compliance by submitting Operation, Maintenance, and Monitoring Plan | Y | |
| 63.1568(b)(7) | Submit Notice of Compliance Status | Y | |
| 63.1568(c) | Demonstrate Continuous Compliance with Emission Limitation and Work Practice Standards | Y | |
| 63.1568(c)(1) | Demonstrate Continuous Compliance with Emission Limitation: collect hourly average SO2 monitoring data; maintain hourly average below applicable limit; determine and record each 12-hour concentration; report 12-hour concentration greater than applicable limitation (Table 34, Item 2.a) | Y | |
| 63.1568(c)(2) | Demonstrate Continuous Compliance with Work Practice Standards by complying with the procedures in Operation, Maintenance, and Monitoring Plan. | Y | |
| 63.1570 | What are my general requirements for complying with this subpart? | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – U
## Source-specific Applicable Requirements
## S1001 – SULFUR PLANT UNIT 234 , S1002 – SULFUR PLANT UNIT 236
## S1003 – SULFUR PLANT UNIT 238, S301 – MOLTEN SULFUR PIT 234
## S302 – MOLTEN SULFUR PIT 236 AND S303 – MOLTEN SULFUR PIT 238

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| 63.1570(a) | Operate in compliance with non-opacity standards at all times except during periods of startup, shutdown, and malfunction, as specified in 63.6(f)(1) | Y | |
| 63.1570(c) | Operate and maintain source including pollution control and monitoring equipment in accordance with 63.6(e)(1). Between 4/11/05 and the date continuous monitoring systems are installed and validated and operating limits have been set, maintain a log detailing operation and maintenance of process and equipment. | Y | |
| 63.1570(d) | Develop and implement startup, shutdown, and malfunction plan (SSMP) in accordance with 63.6(e)(3) | Y | |
| 63.1570(e) | Operate in accordance with SSMPP during periods of startup, shutdown, and malfunction | Y | |
| 63.1570(f) | Report deviations from compliance with this subpart according to the requirements of 63.1575 | Y | |
| 63.1570(g) | Deviations that occur during startup, shutdown, or malfunction are not violations if operating in accordance with SSMP | Y | |
| 63.1571 | How and when do I conduct a performance test or other initial compliance demonstration? | Y | |
| 63.1571(a) | Conduct Performance Test and submit results no later than 150 days after compliance date | Y | |
| 63.1571(a)(1) | For emission limitation or work practice standard where compliance not demonstrated using performance test, opacity observation, or visible emission observation, conduct initial compliance demonstration within 30 days after compliance date | Y | |
| 63.1571(b) | Requirements for Performance Tests | Y | |
| 63.1571(b)(1) | Conduct performance tests in accordance with the requirements of 63.7(e)(1) | Y | |
| 63.1571(b)(2) | Conduct three separate test runs of at least an hour for each performance test | Y | |
| 63.1571(b)(3 | Conduct each performance evaluation in accordance with the requirements of 63.8(e) | Y | |
| 63.1571(b)(4) | Performance tests not conducted during periods of startup, shutdown, or malfunction | Y | |
| 63.1571(b)(5) | Arithmetic average of emission rates | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – U
## Source-specific Applicable Requirements
## S1001 – SULFUR PLANT UNIT 234 , S1002 – SULFUR PLANT UNIT 236
## S1003 – SULFUR PLANT UNIT 238, S301 – MOLTEN SULFUR PIT 234
## S302 – MOLTEN SULFUR PIT 236 AND S303 – MOLTEN SULFUR PIT 238

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| 63.1572 | What are my monitoring installation, operation, and maintenance requirements? | Y | |
| 63.1572(a) | Requirements for installation, operation, and maintenance of continuous emission monitoring system | Y | |
| 63.1572(a)(1) | SO2 CEMS must meet requirements of Performance Specification 2 (40 CFR Part 60, App B) (Table 40, Item 4) | Y | |
| 63.1572(a)(2) | Conduct performance evaluation for SO2 CEMS according to Performance Specification 2 (Table 40, Item 4) | Y | |
| 63.1572(a)(3) | CEMS must complete one cycle of operation for each 15-minute period | Y | |
| 63.1572(a)(4) | Data reduction per 63.8(g)(2) | Y | |
| 63.1572(d) | Data monitoring and collection requirements | Y | |
| 63.1572(d)(1) | Conduct monitoring at all times, except for monitoring malfunctions, repairs, and QA/QC activities | Y | |
| 63.1572(d)(2) | Data recorded during monitoring malfunctions, repairs, and QA/QC activities not used for compliance purposes | Y | |
| 63.1573 | What are my monitoring alternatives? | Y | |
| 63.1573(d) | Monitoring for alternative parameters (optional) | Y | |
| 63.1573(e) | Alternative Monitoring Requests (optional) | Y | |
| 63.1574 | What notifications must I submit and when? | Y | |
| 63.1574(a) | Notifications Required by Subpart A | Y | |
| 63.1574(a)(1) | Notifications of reconstruction | Y | |
| 63.1574(a)(2) | Submit notification of intent to conduct performance test 30 days before scheduled (instead of 60 days) | Y | |
| 63.1574(a)(3) | Notification of Compliance Status | Y | |
| 63.1574(a)(3)(ii) | Submit Notification of Compliance Status for initial compliance demonstration that includes a performance test, no later than 150 days after source compliance date | Y | |
| 63.1574(d) | Information to be Submitted in Notice of Compliance Status (Table 42): identification of affected sources and emission points (Item 1); initial compliance demonstration (Item 2); continuous compliance (Item 3) | Y | |
| 63.1574(f) | Requirement to prepare Operation, Maintenance, and Monitoring Plan | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – U
## Source-specific Applicable Requirements
## S1001 – SULFUR PLANT UNIT 234 , S1002 – SULFUR PLANT UNIT 236
## S1003 – SULFUR PLANT UNIT 238, S301 – MOLTEN SULFUR PIT 234
## S302 – MOLTEN SULFUR PIT 236 AND S303 – MOLTEN SULFUR PIT 238

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| 63.1574(f)(1) | Submit plan to permitting authority for review and approval along with notification of compliance status. Include duty to prepare and implement plan into Part 70 or 71 permit. | Y | |
| 63.1574(f)(2) | Minimum contents of Operation, Maintenance, and Monitoring Plan | Y | |
| 63.1574(f)(2)(ii) | Procedures for monitoring emissions and process and control device operating parameters for each affected source. | Y | |
| 63.1574(f)(2)(vii) | Monitoring schedule | Y | |
| 63.1574(f)(2)(ix) | Quality control plan for continuous emission monitor | Y | |
| 63.1574(f)(2)(x) | Maintenance schedule for monitoring systems and control devices | Y | |
| 63.1575 | What reports must I submit and when? | Y | |
| 63.1575(a) | Required reports: Statement that there were no deviations or report including information in 1575(d) or (e) (Table 43, Item 1) on a semi-annual basis | Y | |
| 63.1575(b) | Specified semiannual report submittal dates | Y | |
| 63.1575(c) | Information required in compliance report | Y | |
| 63.1575(d) | Information required for deviations from emission limitations and work practice standards where CEMS or COMS is not used to comply with emission limitation or work practice standard | Y | |
| 63.1575(e) | Information required for deviations from emission limitations and work practice standards where CEMS or COMS is used to comply with emission limitation or work practice standard | Y | |
| 63.1575(f) | Additional information for compliance reports | Y | |
| 63.1575(f)(1) | Requirement to submit performance test reports | Y | |
| 63.1575(f)(2) | Submittal of requested change in the applicability of an emission standard | Y | |
| 63.1575(g) | Submittal of reports required by other regulations in place of or as part of compliance report if they contain the required information | Y | |
| 63.1575(h) | Reporting requirements for startups, shutdowns, and malfunctions | Y | |
| 63.1576 | What records must I keep, in what form, and for how long? | Y | |
| 63.1576(a) | Required Records – General | Y | |
| 63.1576(b) | Records for CEMs | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – U
## Source-specific Applicable Requirements
## S1001 – SULFUR PLANT UNIT 234 , S1002 – SULFUR PLANT UNIT 236
## S1003 – SULFUR PLANT UNIT 238, S301 – MOLTEN SULFUR PIT 234
## S302 – MOLTEN SULFUR PIT 236 AND S303 – MOLTEN SULFUR PIT 238

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| 63.1576(b)(1) | Records described in §63.10(b)(2)(vi) through (xi). | Y | |
| 63.1576(b)(3) | Previous (i.e., superceded) versions of the performance evaluation plan as required in §63.8(d)(3). | Y | |
| 63.1576(b)(4) | Requests for alternatives to the relative accuracy test for continuous emission monitoring systems as required in §63.8(f)(6)(i). | Y | |
| 63.1576(b)(5) | Records of the date and time that each deviation started and stopped, and whether the deviation occurred during a period of startup, shutdown, or malfunction or during another period. | Y | |
| 63.1576(d) | Records required by Tables 34 and 35 of Subpart UUU | Y | |
| 63.1576(e) | Maintain copy of operation, maintenance, and monitoring plan | Y | |
| 63.1576(f) | Records of changes that affect emission control system performance | Y | |
| 63.1576(g) | Records in a form suitable and readily available for review | Y | |
| 63.1576(h) | Maintain records for 5 years | Y | |
| 63.1576(i) | Records onsite for 2 years; may be maintained offsite for remaining 3 years | Y | |
| **BAAQMD Condition 19278** | | | |
| Part 3 | Annual source test to verify SO3 and H2SO4 exhaust concentrations. [Basis: Regulation 6-330] | Y | |
| Part 4 | Visible emissions monitoring for particulate [Basis: Regulation 2-6-503] | Y | |
| Part 5 | Installation of ports for particulate testing and source test within 90 days of next turnaround [2-6-503] | Y | After turn-around |
| Part 6 | Throughput limits [Cumulative Increase] | Y | |
| **BAAQMD Condition 21099** | **APPLIES TO S1002, S1003 ONLY** | | |
| Part 1 | Light hydrocarbon control valve requirements [Basis: BACT] | Y | |
| Part 2 | Light hydrocarbon flange/connector requirements [Basis: BACT] | Y | |
| Part 3 | Centrifugal compressor requirements [Basis: BACT] | Y | |
| Part 4 | Light hydrocarbon centrifugal pump requirements [Basis: BACT] | Y | |
| Part 5 | Monitoring and repair program requirement [Basis: BACT] | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – U
## Source-specific Applicable Requirements
## S1001 – SULFUR PLANT UNIT 234 , S1002 – SULFUR PLANT UNIT 236
## S1003 – SULFUR PLANT UNIT 238, S301 – MOLTEN SULFUR PIT 234
## S302 – MOLTEN SULFUR PIT 236 AND S303 – MOLTEN SULFUR PIT 238

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| Part 6 | ULSD project component count report requirement [Basis: BACT, Cumulative Increase, Toxic Management Policy] | Y | |
| | | | |
| **BAAQMD Condition 22964** | **APPLIES TO S301, S302, S303** | | |
| Part 1 | Throughput limit for S301, S302, S303 [Cumulative Increase] | Y | |
| Part 4 | Abatement requirement for S301 [Consent Decree Case No. 05-0258, paragraph 123, DATE: 1/27/05; Consent Decree Case No. 05-0258 amendment, paragraph 123, DATE: 5/1/07; 40 CFR 60.104(a)(2)(i)] | Y | |
| Part 5 | Abatement requirement for S302 [Consent Decree Case No. 05-0258, paragraph 123, DATE: 1/27/05; Consent Decree Case No. 05-0258 amendment, paragraph 123, DATE: 5/1/07; 40 CFR 60.104(a)(2)(i)] | Y | |
| Part 6 | Abatement requirement for S303 [Consent Decree Case No. 05-0258, paragraph 123, DATE: 1/27/05; Consent Decree Case No. 05-0258 amendment, paragraph 123, DATE: 5/1/07; 40 CFR 60.104(a)(2)(i)] | Y | |
| Part 7 | Maintenance allowance for sulfur pits [Consent Decree Case No. 05-0258 amendment, paragraph 123, DATE: 5/1/07] | Y | |

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

# IV. Source Specific Applicable Requirements

## Table IV – V
## Source-specific Applicable Requirements
## S370 – ISOMERIZATION UNIT 228

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| **BAAQMD Regulation 8, Rule 10** | **Organic Compounds – Process Vessel Depressurization (1/21/2004)** | | |
| 8-10-301 | Depressurization Control Options | N | |
| 8-10-302 | Opening of Process Vessels | N | |
| 8-10-302.1 | organic compounds cannot exceed 10,000 ppm (methane) prior to release to atmosphere | N | |
| 8-10-302.2 | Organic compound concentration of a refinery process vessel may exceed 10,000 ppm prior to release to atmosphere provided total number of such vessels during 5-year period does not exceed 10% | N | |
| 8-10-401 | Turnaround Records. Annual report due February 1 of each year with initial report of process vessels due 4/1/2004. | N | |
| 8-10-501 | Monitoring prior to and during process vessel opening | Y | |
| 8-10-502 | Concentration measurement using EPA Method 21 | Y | |
| 8-10-503 | Recordkeeping | N | |
| 8-10-601 | Monitoring Procedures | N | |
| **SIP Regulation 8, Rule 10** | **Organic Compounds – Process Vessel Depressurization (7/20/83)** | | |
| 8-10-301 | Process Vessel Depressurizing. POC emissions shall be vented through a knock-out pot and then abated in one of the following ways, to as low a vessel pressure as possible, but at least until pressure is reduced to less than 1000 mm Hg: | Y | |
| 8-10-301.1 | recovery to the fuel gas system | Y | |
| 8-10-301.2 | combustion at a firebox or incinerator | Y | |
| 8-10-301.3 | combustion at a flare | Y | |
| 8-10-301.4 | containment such that emissions to atmosphere do not occur | Y | |
| 8-10-401 | Turnaround Records. The following records shall be kept for each process unit turnaround, and retained for at least 2 years and made available to the District on demand during inspections: | Y | |
| 8-10-401.1 | date of depressurization event | Y | |
| 8-10-401.2 | approximate vessel hydrocarbon concentration when emissions to atmosphere begin | Y | |
| 8-10-401.3 | approximate quantity of POC emissions to atmosphere | Y | |
| **BAAQMD** | | | |

# IV. Source Specific Applicable Requirements

## Table IV – V
## Source-specific Applicable Requirements
## S370 – ISOMERIZATION UNIT 228

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| **Condition 12121** | | | |
| Part 1 | Daily feed rate limit [Basis: Cumulative Increase] | Y | |
| Part 2 | Daily feed rate records [Basis: Cumulative Increase] | Y | |
| **BAAQMD Condition 20989, Part A** | Throughput limits for S370 [Basis: 2-1-234.3] | Y | |

## Table IV – W
## Source-specific Applicable Requirements
## S380 – ACTIVATED CARBON SILO (P-204)

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| **District Regulation 6** | **Particulate Matter and Visible Emissions (12/19/90)** | | |
| 6-301 | Ringelmann Number 1 Limitation | Y | |
| 6-305 | Visible Particles | Y | |
| 6-310 | Particulate Weight Limitation | Y | |
| 6-311 | General Operations (process weight rate limitation) | Y | |
| 6-401 | Appearance of Emissions | Y | |
| **BAAQMD Condition 18251** | | | |
| Part 1a | Abatement requirement [Basis: Regulation 2-1-234] | Y | |
| Part 2a | Differential pressure monitor requirement [Basis: Regulation 1-441] | Y | |
| Part 2b | Baghouse differential pressure monitoring requirement [Basis: Regulation 1-441] | Y | |
| Part 3 | Differential pressure recordkeeping requirement [Basis: Regulation 1-441] | Y | |
| **BAAQMD Condition 20989, Part** | Throughput limits for S380 [Basis: 2-1-234.3] | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – W
## Source-specific Applicable Requirements
## S380 – ACTIVATED CARBON SILO (P-204)

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

## Table IV – X
## Source-specific Applicable Requirements
## S389 – DIATOMACEOUS EARTH SILO (F-214)

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| **District Regulation 6** | **Particulate Matter and Visible Emissions (12/19/90)** | | |
| 6-301 | Ringelmann Number 1 Limitation | Y | |
| 6-305 | Visible Particles | Y | |
| 6-310 | Particulate Weight Limitation | Y | |
| 6-311 | General Operations (process weight rate limitation) | Y | |
| 6-401 | Appearance of Emissions | Y | |
| **BAAQMD Condition 18251** | | | |
| Part 1b | Abatement requirement [Basis: Regulation 2-1-234] | Y | |
| Part 2a | Differential pressure monitor requirement [Basis: Regulation 1-441] | Y | |
| Part 2c | Baghouse differential pressure monitoring requirement [Basis: Regulation 1-441] | Y | |
| Part 3 | Differential pressure recordkeeping requirement [Basis: Regulation 1-441] | Y | |
| **BAAQMD Condition 20989, Part A** | Throughput limits for S389 [Basis: 2-1-234.3] | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – Y
## Source-specific Applicable Requirements
## S462 – U-215 FUEL GAS CAUSTIC TREATMENT SYSTEM
## S463 – U-215 BUTANE CAUSTIC TREATMENT SYSTEM

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| **BAAQMD Condition 20989, Part A** | Throughput limits for S462, S463 [Basis: 2-1-234.3] | Y | startup date |
| **BAAQMD Condition 21099** | | | |
| Part 1 | Light hydrocarbon control valve requirements [Basis: BACT] | Y | startup date |
| Part 2 | Light hydrocarbon flange/connector requirements [Basis: BACT] | Y | startup date |
| Part 3 | Centrifugal compressor requirements [Basis: BACT] | Y | startup date |
| Part 4 | Light hydrocarbon centrifugal pump requirements [Basis: BACT] | Y | startup date |
| Part 5 | Monitoring and repair program requirement [Basis: BACT] | Y | startup date |
| Part 6 | ULSD project component count report requirement [Basis: BACT, Cumulative Increase, Toxic Management Policy] | Y | startup date |

# IV. Source Specific Applicable Requirements

**Table IV- AA**
**Fugitive Sources: Applicable Requirements**

| Process Unit | BAAQMD Regulation 8, Rule 18 | BAAQMD Regulation 8, Rule 28 | NSPS Part 60, Subpart GGG; BAAQMD Regulation 10, Rule 59 | NSPS Part 60, Subpart QQQ; BAAQMD Regulation 10, Rule 69 | NSPS Part 60, Subpart VV; BAAQMD Regulation 10, Rule 52 | NESHAPS Part 61, Subpart J | NESHAPS Part 61, Subpart FF; BAAQMD Regulation 11, Rule 12 | NESHAPS Part 61, Subpart V; BAAQMD Regulation 11, Rule 7 | NESHAPS Part 63, Subpart CC |
|---|---|---|---|---|---|---|---|---|---|
| **Refinery-wide applicability** | **Y** | **Y** | **N** | **N** | **N** | **N** | **Report only** | **N** | **Y** |
| | | | | | | | | | |
| **Specific Unit applicability** | | | | | | | | | |
| U76 Gasoline/Mid Barrel Blending Unit (S318) | **Y** | **N** | **Y** | **N** | **Y** | **N** | **N** | **N** | **Y** |
| Unit 267 (S350) | **Y** | **Y** | **Y** | **N** | **Y** | **N** | **N** | **N** | **Y** |
| Unit 228 (S370) | **Y** | **Y** | **Y** | **N** | **Y** | **N** | **N** | **N** | **Y** |
| Hydrogen Manufacturing Unit (S437) | **Y** | **Y** | **Y** | **N** | **Y** | **N** | **N** | **N** | **Y** |
| Unit 100 (S195, S196, S324, S388, S1007) | **Y** | **Y** | **N** | **Y** | **N** | **N** | **N** | **N** | **Y** |
| Unit 233 (S338) | **Y** | **Y** | **NA** | **NA** | **NA** | **NA** | **NA** | **NA** | **NA** |

# IV. Source Specific Applicable Requirements

## Table IV – AB
## Applicable Requirements
## COMPONENTS (FACILITY-WIDE EXCEPT AS NOTED)

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| **BAAQMD Regulation 8, Rule 18** | **Organic Compounds-Equipment Leaks (11/27/02)** | | |
| 8-18-100 | General/Applicability | Y | |
| 8-18-200 | Definitions | Y | |
| 8-18-301 | General Standard | Y | |
| 8-18-302 | Valves | Y | |
| 8-18-303 | Pumps and compressors | Y | |
| 8-18-304 | Connections | Y | |
| 8-18-305 | Pressure relief devices | Y | |
| 8-18-306 | Non-repairable equipment | Y | |
| 8-18-307 | Liquid Leaks | Y | |
| 8-18-308 | Alternate compliance | Y | |
| 8-18-401 | Inspection | Y | |
| 8-18-402 | Identification | Y | |
| 8-18-403 | Visual inspection schedule | Y | |
| 8-18-404 | Alternate inspection schedule | Y | |
| 8-18-405 | Alternate inspection reduction plan | Y | |
| 8-18-406 | Interim Compliance | Y | |
| 8-18-501 | Portable Hydrocarbon Detector | Y | |
| 8-18-502 | Records | Y | |
| **BAAQMD Regulation 8, Rule 28** | **Episodic Releases From Pressure Relief Devices at Petroleum Refineries and Chemical Plants (3/18/98)** | | |
| 8-28-100 | General/Applicability | Y | |
| 8-28-200 | Definitions | Y | |
| 8-28-302 | Pressure Relief Devices at New or Modified Sources at Petroleum Refineries | Y | |
| 8-28-303 | Pressure Relief Devices at Existing Sources at Petroleum Refineries | Y | |
| 8-28-304 | Repeat Releases - Pressure Relief Devices at Petroleum Refineries | Y | |
| 8-28-401 | Reporting at Petroleum Refineries and Chemical Plants | Y | |
| 8-28-402 | Inspection | Y | |
| 8-28-403 | Records | Y | |
| 8-28-404 | Identification | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – AB
## Applicable Requirements
## COMPONENTS (FACILITY-WIDE EXCEPT AS NOTED)

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| 8-28-405 | Prevention Measures Procedures | Y | |
| **NSPS, Subpart VV, applies to the S350 crude unit, S370 isomerization unit, S437 hydrogen plant** | | | |
| **40 CFR 60, Subpart VV; BAAQMD Regulation 10-52** | **Standards of Performance for Equipment Leaks (Fugitive Emission Sources) (8/18/95); BAAQMD Standards of Performance for New Stationary Sources (12/20/95)** | Y | |
| 60.480 | Applicability | Y | |
| 60.481 | Definitions | Y | |
| 60.482-1 | General Standards | Y | |
| 60.482-2 | Pump Standards: | Y | |
| 60.482-2(a)(1) | Monthly monitoring of each pump, except for 60.482-1(c), 60.482-2(d), (e), or (f) | Y | |
| 60.482-2(a)(2) | Weekly visual inspection of each pump, except for (e), (f), or (g) | Y | |
| 60.482-2(b) | Air measurement >10,000 ppm or dripping liquid indicates leak | Y | |
| 60.482-2(c) | Pump leak repair period | Y | |
| 60.482-2(d) | Requirements for Dual-Mechanical seal pump | Y | |
| 60.482-2(e) | No detectable emission designation: <500 ppm | Y | |
| 60.482-2(f) | Requirements for Closed Vent Systems | Y | |
| 60.482-3 | Compressor Standards | Y | |
| 60.482-4 | Requirements for Pressure Relief Devices in gas/vapor service | Y | |
| 60.482-5 | Requirements for Sampling connecting systems | Y | |
| 60.482-6 | Requirements for Open-ended valves or lines | Y | |
| 60.482-7 | Valve Standards: | Y | |
| 60.482-7(a)-(c) | Monitor monthly unless 2 successive months <10,000 ppm, then monitor first month of each quarter. If leak >10,000 ppm is detected, resume monthly monitoring | Y | |
| 60.482-7(d) | Valve leak repair period | Y | |
| 60.482-7(e) | Methods for first attempts or minimizing valve leaks | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – AB
## Applicable Requirements
## COMPONENTS (FACILITY-WIDE EXCEPT AS NOTED)

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| 60.482-7(f) | Designated no-emissions (<500 ppm) valves with no external actuating mechanisms in contact with process fluid, may revert to annual monitoring, or that requested by the Administrator | Y | |
| 60.482-8 | Valves in heavy liquid service, pressure relief devices in light liquid or heavy liquid service, and connectors | Y | |
| 60.482-9(b) | Repair may be delayed for isolated equipment | Y | |
| 60.482-9(d)(1) | Only dual-mechanical seal pumps qualify for delay of repair | Y | |
| 60.482-9(d)(2) | Pump leaks must be repaired within 6 months | Y | |
| 60.482-9(b) | Repair may be delayed for isolated equipment | Y | |
| 60.482-9(c) | Delay of repair for valves is only allowed under certain circumstances | Y | |
| 60.483-1, 60.483-2, and BAAQMD 8-18-404.1 | If a process unit has 5 consecutive quarters with <2% of valves leaking at >10,000 ppm, then any individual valve which measures <100 ppm for 5 consecutive quarters may be monitored annually | Y | |
| 60.485 | Test Methods and Procedures | Y | |
| 60.486 | Record keeping | Y | |
| 60.487 | Reporting | Y | |
| **NSPS, Subpart GGG, applies to the S350 crude unit, S370 isomerization unit, S437 hydrogen plant** | | | |
| **40 CFR 60, Subpart GGG; BAAQMD Regulation 10-59** | **Standards of Performance for Equipment Leaks (Fugitive Emission Sources) (5/30/84); BAAQMD Standards of Performance for New Stationary Sources (4/19/89)** | | |
| 60.590 | Applicability | Y | |
| 60.591 | Definitions | Y | |
| 60.592 | Subject to provisions of Part 60, Subpart VV | Y | |
| 60.593 | Exceptions | Y | |
| **BAAQMD Regulation 10-59** | Incorporates by reference 40 CFR 60, Subpart GGG | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – AB
## Applicable Requirements
## COMPONENTS (FACILITY-WIDE EXCEPT AS NOTED)

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| **NSPS, Subpart QQQ, applies to the S1007 dissolved air flotation unit and the S324 DAF unit.** | | | |
| **40 CFR 60, Subpart QQQ; BAAQMD Regulation 10-69** | **Standards of Performance for VOC Emission From Petroleum Refinery Wastewater Systems (7/18/95); BAAQMD Standards of Performance for New Stationary Sources (12/20/95)** | | |
| 60.690 | Applicability | Y | |
| 60.691 | Definitions | Y | |
| 60.692-6 | Delay of Repair Standards | Y | |
| 60.695 | Monitoring of closed-vent systems with bypass lines | Y | |
| 60.696 | Performance test methods and procedures and compliance provisions | Y | |
| 60.697 | Recordkeeping | Y | |
| 60.698 | Reporting | Y | |
| **40 CFR 63, Subpart CC** | **National Emission Standards for Hazardous Air Pollutants from Petroleum Refineries** | Y | |
| 63.640(a) | Applicability | Y | |
| 63.640(p) | Overlap of Subpart CC with other regulations for equipment leaks. | Y | |
| 63.641 | Definitions | Y | |
| 63.642(e) | Keep records for 5 years | Y | |
| 63.648(a) | Equipment leak standards. Comply with 40 CFR 60, Subpart VV | Y | |
| 63.648(b) | Use of monitoring data from prior to 8/18/95 to qualify for less stringent monitoring frequency | Y | |
| 63.648(d) | New sources | Y | |
| 63.648(e) | Equipment leak standards – reciprocating pumps in heavy liquid service | Y | |
| 63.648(f) | Equipment leak standards – reciprocating pumps in light liquid service | Y | |
| 63.648(g) | Equipment leak standards – compressors in hydrogen service | Y | |
| 63.648(h) | Keep records for 5 years | Y | |
| 63.648(i) | Equipment leak standards – reciprocating compressors | Y | |
| 63.654(d) | Record keeping and reporting | Y | |

# IV. Source Specific Applicable Requirements

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

## Table IV – BB.1
## Source-Specific Applicable Requirements
## NSPS Kb Low Vapor Pressure Permitted Wastewater Sludge Tanks with Vapor Recovery to Fuel Gas
## S433 (F224-MOSC)

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| **BAAQMD · Regulation 8, Rule 5** | **Organic Compounds, Storage of Organic Liquids (11/27/02) EXEMPT** | | |
| 8-5-117 | Exemption, Low Vapor Pressure | Y | |
| **BAAQMD · Regulation 8, Rule 8** | **Organic Compounds, Wastewater (Oil-Water Separators) (6/15/1994) REQUIREMENTS FOR SLUDGE DEWATERING UNITS** | | |
| 8-8-113 | Exemption, Secondary Wastewater Treatment Processes and Stormwater Sewer Systems (segregated) are exempt from 8-8-301, 8-8-302, 8-8-306, 8-8-308 | Y | |
| 8-8-303 | Standards: Gauging and Sampling Devices | Y | |
| 8-8-304 | Standards: Sludge-dewatering Unit | Y | |
| 8-8-504 | Monitoring and Records: Portable Hydrocarbon Detector | Y | |
| 8-8-602 | Manual of Procedures: Determination of Emissions | Y | |
| 8-8-603 | Manual of Procedures: Inspection Procedures | Y | |
| **40 CFR 60, Subpart Kb** | **Standards of Performance for Storage Vessels for Volatile Organic Liquid Storage Vessels for Which Construction, Reconstruction, or Modification Commenced After July 23, 1984 (12/14/2000) REQUIREMENTS FOR RECORDKEEPING ONLY** | | |
| 60.110b(a) | Applicability and Designation of Affected Facility; Volatile organic liquid storage vessels > or = to 40 cu m, after 7/23/1984 | Y | |
| 60.110b(c) | Applicability and Designation of Affected Facility; Exemptions for storage vessels > or = to 75 cu m | Y | |
| 60.116b(a) | Monitoring of Operations; Record retention | Y | |
| 60.116b(b) | Monitoring of Operations; Permanent record requirements | Y | |
| 60.116b(e) | Monitoring of Operations; Determine TVP | Y | |
| 60.116b(e)(3) | Monitoring of Operations; Determine TVP-other liquids | Y | |
| 60.116b(f) | Monitoring of Operations; Waste storage tanks (indeterminate or variable composition) | Y | |
| 60.116b(g) | Monitoring of Operations; Exemption from 40 CFR 60.116b(c) and 40 CFR 60.116b(d) for tanks with closed vent system and control device | Y | |
| **40 CFR 60, Subpart QQQ** | **Standards of Performance for VOC Emissions from Petroleum Refinery Wastewater Systems (8/18/95) REQUIREMENTS FOR FIXED ROOF TANKS ROUTED TO FUEL GAS** | | |
| 60.690(a)(1) | Applicability and Designation of Affected Facility | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – BB.1
## Source-Specific Applicable Requirements
## NSPS Kb Low Vapor Pressure Permitted Wastewater Sludge Tanks with Vapor Recovery to Fuel Gas
## S433 (F224-MOSC)

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| 60.690(a)(3) | Applicability and Designation of Affected Facility | Y | |
| 60.691 | Definitions: Closed Vent System. If gas or vapor from regulated equipment are routed to a process (e.g., petroleum refinery fuel gas system), the process shall not be considered a closed vent system and is not subject to the closed vent system standards. | Y | |
| 60.692-1 | Standards: General | Y | |
| 60.692-1(a) | Standards: General | Y | |
| 60.692-1(b) | Standards: General | Y | |
| 60.692-3 | Standards: Oil-Water Separators (includes storage vessels) | Y | |
| 60.692-3(a) | Standards: Oil-Water Separators (includes storage vessels) | Y | |
| 60.692-3(a)(1) | Standards: Oil-Water Separators (includes storage vessels) | Y | |
| 60.692-3(a)(2) | Standards: Oil-Water Separators (includes storage vessels) | Y | |
| 60.692-3(a)(3) | Standards: Oil-Water Separators (includes storage vessels) | Y | |
| 60.692-3(a)(4) | Standards: Oil-Water Separators (includes storage vessels) | Y | |
| 60.692-3(a)(5) | Standards: Oil-Water Separators (includes storage vessels) | Y | |
| 60.692-3(f) | Standards: Oil-Water Separators (includes storage vessels) | Y | |
| 60.692-6 | Standards: Delay of Repair | Y | |
| 60.692-6(a) | Standards: Delay of Repair | Y | |
| 60.692-6(b) | Standards: Delay of Repair | Y | |
| 60.697 | Recordkeeping Requirements | Y | |
| 60.697(a) | Recordkeeping Requirements | Y | |
| 60.697(c) | Recordkeeping Requirements | Y | |
| 60.697(e)(1) | Recordkeeping Requirements | Y | |
| 60.697(e)(2) | Recordkeeping Requirements | Y | |
| 60.697(e)(3) | Recordkeeping Requirements | Y | |
| 60.697(e)(4) | Recordkeeping Requirements | Y | |
| 60.697(f)(1) | Recordkeeping Requirements | Y | |
| 60.697(f)(2) | Recordkeeping Requirements | Y | |
| 60.698(c) | Reporting Requirements | Y | |
| **40 CFR 63, Subpart CC** | **National Emission Standards for Hazardous Air Pollutants for Petroleum Refining (8/18/95) REQUIREMENTS FOR EMISSION POINTS ROUTED TO FUEL GAS** | | |
| 63.640(c)(2) | Applicability and Designation of Storage Vessels | Y | |
| 63.640(d)(5) | Exemption for emission points routed to fuel gas system | Y | |
| **BAAQMD Condition 7353** | **APPLICABLE TO S433** | | |
| Part 1 | Requirement to vent tank to fuel gas system [Basis: Cumulative Increase] | Y | |
| Part 2 | Valve, pump design requirements [Basis: Cumulative Increase] | Y | |
| Part 3 | Limitation on material stored [Basis: Cumulative Increase] | Y | |
| Part 4 | Annual throughput limit [Basis: Cumulative Increase] | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – BB.1
## Source-Specific Applicable Requirements
## NSPS Kb Low Vapor Pressure Permitted Wastewater Sludge Tanks with Vapor Recovery to Fuel Gas
## S433 (F224-MOSC)

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| Part 5 | Weekly throughput records [Basis: Recordkeeping] | Y | |
| **BAAQMD Condition 20773** | | | |
| Part 1 | Requirement to verify exempt status of tank based on true vapor pressure of contents [Basis: Regulation 8-5-117, 2-6-409.2] | Y | |
| Part 2 | Record retention requirement [Basis: Regulation 2-6-409.2] | Y | |

## Table IV – BB.2
## Source-Specific Applicable Requirements
## Low Vapor Pressure Permitted Tanks Subject to MACT Recordkeeping
## S118 (Tank 163)

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| **BAAQMD · Regulation 8, Rule 5** | **Organic Compounds, Storage of Organic Liquids (11/27/02) EXEMPT** | | |
| 8-5-117 | Exemption, Low Vapor Pressure | Y | |
| **40 CFR 63, Subpart G** | **SOCMI HON G (01/27/1995) REQUIREMENTS FOR GROUP 2 RECORDKEEPING ONLY** | | |
| 63.119(a)(3) | Storage Vessel Provisions – Reference Control Technology – Group 2 storage vessels comply only with recordkeeping requirements in 40 CFR 63.123(a) | Y | |
| 63.123(a) | Storage Vessel Provisions – Recordkeeping – Group 2 storage vessels only required to keep tank dimensions and capacity analysis. Retain for life of source. | Y | |
| **40 CFR 63, Subpart CC** | **National Emission Standards for Hazardous Air Pollutants for Petroleum Refining (8/18/95) REQUIREMENTS FOR GROUP 2 RECORDKEEPING ONLY** | | |
| 63.640(c)(2) | Applicability and Designation of Storage Vessels | 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 | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – BB.2
## Source-Specific Applicable Requirements
## LOW VAPOR PRESSURE PERMITTED TANKS
## SUBJECT TO MACT RECORDKEEPING
## S118 (TANK 163)

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| | vessels – Keep records specified in 40 CFR 63.123 | | |
| 63.654(i)(1)(iv) | Reporting and Recordkeeping Requirements-Recordkeeping for storage vessels – Data and assumptions used to determine Group 2 classification | Y | |
| 63.654(i)(4) | Reporting and Recordkeeping Requirements-Recordkeeping--Record retention – 5 years | Y | |
| **BAAQMD Condition 20773** | | | |
| Part 1 | Requirement to verify exempt status of tank based on true vapor pressure of contents [Basis: Regulation 8-5-117, 2-6-409.2] | Y | |
| Part 2 | Record retention requirement [Basis: Regulation 2-6-409.2] | Y | |
| **BAAQMD Condition 20989, Part A** | Throughput limits for source S118 [Basis: 2-1-234.3] | N | |

## Table IV – BB.3
## Source-Specific Applicable Requirements
## LOW VAPOR PRESSURE PERMITTED TANKS < 10,000 GALLONS
## S117 (TANK 162), S193 (TANK 305), S194 (TANK 306)

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| **BAAQMD · Regulation 8, Rule 5** | **Organic Compounds, Storage of Organic Liquids (11/27/02) EXEMPT** | | |
| 8-5-117 | Exemption, Low Vapor Pressure | Y | |
| **BAAQMD Condition 20773** | | | |
| Part 1 | Requirement to verify exempt status of tank based on true vapor pressure of contents [Basis: Regulation 8-5-117, 2-6-409.2] | Y | |
| Part 2 | Record retention requirement [Basis: Regulation 2-6-409.2] | Y | |
| **BAAQMD Condition 20989, Part A** | Throughput limits for sources S117, S193, S194 [Basis: 2-1-234.3] | N | |

# IV. Source Specific Applicable Requirements

## Table IV – BB.4
## Source-Specific Applicable Requirements
## LOW VAPOR PRESSURE PERMITTED TANKS
## VENTED TO FUEL GAS
## S238 (TANK 211), S239 (TANK 212)

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| **BAAQMD · Regulation 8, Rule 5** | **Organic Compounds, Storage of Organic Liquids (11/27/02) EXEMPT** | | |
| 8-5-117 | Exemption, Low Vapor Pressure | Y | |
| **40 CFR 63, Subpart CC** | **National Emission Standards for Hazardous Air Pollutants for Petroleum Refining (8/18/95) REQUIREMENTS FOR EMISSION POINTS ROUTED TO FUEL GAS** | | |
| 63.640(c)(3) | Wastewater streams and treatment operations associated with petroleum refining process units meeting the criteria of section 63.640(a) | Y | |
| 63.640(d)(5) | Exemption for emission points routed to fuel gas system | Y | |
| **BAAQMD Condition 20773** | | | |
| Part 1 | Requirement to verify exempt status of tank based on true vapor pressure of contents [Basis: Regulation 8-5-117, 2-6-409.2] | Y | |
| Part 2 | Record retention requirement [Basis: Regulation 2-6-409.2] | Y | |
| **BAAQMD Condition 20989, Part A** | Throughput limits for sources S238, S239 [Basis: 2-1-234.3] | N | |

## Table IV – BB.5
## Source-Specific Applicable Requirements
## NSPS KB LOW VAPOR PRESSURE PERMITTED FIXED ROOF
## WASTEWATER SLUDGE TANKS
## S195 (TANK 501), S196 (TANK 502), S388 (TANK 276/F205)

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| **BAAQMD · Regulation 8, Rule 5** | **Organic Compounds, Storage of Organic Liquids (11/27/02) EXEMPT** | | |
| 8-5-117 | Exemption, Low Vapor Pressure | Y | |
| **BAAQMD · Regulation 8, Rule 8** | **Organic Compounds, Wastewater (Oil-Water Separators) (6/15/1994) REQUIREMENTS FOR SLUDGE DEWATERING UNITS** | | |
| 8-8-113 | Exemption, Secondary Wastewater Treatment Processes and Stormwater Sewer Systems (segregated) are exempt from 8-8-301, 8-8-302, 8-8-306, 8-8-308 | Y | |
| 8-8-303 | Standards: Gauging and Sampling Devices | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – BB.5
## Source-Specific Applicable Requirements
## NSPS Kb Low Vapor Pressure Permitted Fixed Roof Wastewater Sludge Tanks
## S195 (Tank 501), S196 (Tank 502), S388 (Tank 276/F205)

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| 8-8-305 | Oil-Water Separator And/Or Air Flotation Unit Slop Oil Vessels | Y | |
| 8-8-504 | Monitoring and Records: Portable Hydrocarbon Detector | Y | |
| 8-8-602 | Manual of Procedures: Determination of Emissions | Y | |
| 8-8-603 | Manual of Procedures: Inspection Procedures | Y | |
| **40 CFR 60, Subpart Kb** | **Standards of Performance for Storage Vessels for Volatile Organic Liquid Storage Vessels for Which Construction, Reconstruction, or Modification Commenced After July 23, 1984 (12/14/2000) REQUIREMENTS FOR RECORDKEEPING ONLY** | | |
| 60.110b(a) | Applicability and Designation of Affected Facility; Volatile organic liquid storage vessels > or = to 40 cu m, after 7/23/1984 | Y | |
| 60.110b(c) | Applicability and Designation of Affected Facility; Exemptions for storage vessels > or = to 75 cu m | Y | |
| 60.116b(a) | Monitoring of Operations; Record retention | Y | |
| 60.116b(b) | Monitoring of Operations; Permanent record requirements | Y | |
| 60.116b(d) | Monitoring of Operations; 30-day notification for TVP exceedances | Y | |
| 60.116b(e) | Monitoring of Operations; Determine TVP | Y | |
| 60.116b(e)(3) | Monitoring of Operations; Determine TVP-other liquids | Y | |
| 60.116b(f) | Monitoring of Operations; Waste storage tanks (indeterminate or variable composition) | Y | |
| **40 CFR 60, Subpart QQQ** | **Standards of Performance for VOC Emissions from Petroleum Refinery Wastewater Systems (8/18/95) REQUIREMENTS FOR STORAGE VESSELS NOT SUBJECT TO NSPS, Subpart Kb CONTROL REQUIREMENTS (60.112b)** | | |
| 60.690(a)(1) | Applicability and Designation of Affected Facility | Y | |
| 60.690(a)(3) | Applicability and Designation of Affected Facility | Y | |
| 60.692-1 | Standards: General | Y | |
| 60.692-1(a) | Standards: General | Y | |
| 60.692-1(b) | Standards: General | Y | |
| 60.692-3 | Standards: Oil-Water Separators (includes storage vessels) | Y | |
| 60.692-3(a) | Standards: Oil-Water Separators (includes storage vessels) | Y | |
| 60.692-3(a)(1) | Standards: Oil-Water Separators (includes storage vessels) | Y | |
| 60.692-3(a)(2) | Standards: Oil-Water Separators (includes storage vessels) | Y | |
| 60.692-3(a)(3) | Standards: Oil-Water Separators (includes storage vessels) | Y | |
| 60.692-3(a)(4) | Standards: Oil-Water Separators (includes storage vessels) | Y | |
| 60.692-3(a)(5) | Standards: Oil-Water Separators (includes storage vessels) | Y | |
| 60.692-3(f) | Standards: Oil-Water Separators (includes storage vessels) | Y | |
| 60.692-6 | Standards: Delay of Repair | Y | |
| 60.692-6(a) | Standards: Delay of Repair | Y | |
| 60.692-6(b) | Standards: Delay of Repair | Y | |
| 60.697 | Recordkeeping Requirements | Y | |
| 60.697(a) | Recordkeeping Requirements | Y | |
| 60.697(c) | Recordkeeping Requirements | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – BB.5
## Source-Specific Applicable Requirements
## NSPS Kb Low Vapor Pressure Permitted Fixed Roof Wastewater Sludge Tanks
## S195 (Tank 501), S196 (Tank 502), S388 (Tank 276/F205)

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| 60.697(e)(1) | Recordkeeping Requirements | Y | |
| 60.697(e)(2) | Recordkeeping Requirements | Y | |
| 60.697(e)(3) | Recordkeeping Requirements | Y | |
| 60.697(e)(4) | Recordkeeping Requirements | Y | |
| 60.697(f)(1) | Recordkeeping Requirements | Y | |
| 60.697(f)(2) | Recordkeeping Requirements | Y | |
| 60.698(c) | Reporting Requirements | Y | |
| **40 CFR 63, Subpart CC** | **National Emission Standards for Hazardous Air Pollutants for Petroleum Refining (8/18/95) REQUIREMENTS FOR TANKS ALSO SUBJECT TO NSPS, Subpart Kb** | | |
| 63.640(c)(2) | Applicability and Designation of Storage Vessels | Y | |
| 63.640(n)(1) | 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) | Applicability and Designation of Affected Source Overlap for Storage Vessels-Additional requirements for Kb storage vessels | Y | |
| **BAAQMD Condition 20773** | | | |
| Part 1 | Requirement to verify exempt status of tank based on true vapor pressure of contents [Basis: Regulation 8-5-117, 2-6-409.2] | Y | |
| Part 2 | Record retention requirement [Basis: Regulation 2-6-409.2] | Y | |
| **BAAQMD Condition 20989, Part A** | Throughput limits for source S195, S196, S388 [Basis: 2-1-234.3] | Y | |

## Table IV – BB.6
## Source-Specific Applicable Requirements
## MACT (Small) Zero Gap External Floating Roof Tank
## S121 (Tank 166)

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| **BAAQMD Regulation 8, Rule 5** | **Organic Compounds, Storage of Organic Liquids (11/27/02) REQUIREMENTS FOR EXTERNAL FLOATING ROOF TANKS** | | |
| 8-5-111 | Limited Exemption, Tank Removal From and Return to Service | Y | |
| 8-5-111.1 | Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO | Y | |
| 8-5-111.1.1 | Limited Exemption, Tank Removal From and Return to Service; Notice | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – BB.6
## Source-Specific Applicable Requirements
## MACT (SMALL) ZERO GAP EXTERNAL FLOATING ROOF TANK
## S121 (TANK 166)

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| | to the APCO; 3 day prior notification | | |
| 8-5-111.1.2 | Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO; Telephone notification | Y | |
| 8-5-111.2 | Limited Exemption, Tank Removal From and Return to Service; Compliance before notification | Y | |
| 8-5-111.3 | Limited Exemption, Tank Removal From and Return to Service; Floating roof tanks - continuous and quick filling, emptying and refilling | 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 | |
| 8-5-112.1 | Limited Exemption, Tanks in Operation; Notice to the APCO | Y | |
| 8-5-112.1.1 | Limited Exemption, Tanks in Operation; Notice to the APCO; 3 day prior notification | Y | |
| 8-5-112.1.2 | Limited Exemption, Tanks in Operation; Notice to the APCO; Telephone notification | Y | |
| 8-5-112.2 | Limited Exemption, Tanks in Operation; Compliance and certification before commencement of work | Y | |
| 8-5-112.3 | Limited Exemption, Tanks in Operation; No product movement; minimization of emissions | Y | |
| 8-5-112.4 | Limited Exemption, Tanks in Operation; Exemption does not exceed 7 days | 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 | |
| 8-5-304.1 | Requirements for External Floating Roofs; Tank fitting requirements | Y | |
| 8-5-304.2 | Requirements for External Floating Roofs; Primary seal requirements | Y | |
| 8-5-304.3 | Requirements for External Floating Roofs; Secondary seal requirements | 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 | |
| 8-5-320.3.1 | Tank fitting requirements – Floating roof tanks, Gasketed covers, seals, lids – Gap requirements | Y | |
| 8-5-320.4 | Tank Fitting Requirements; Solid sampling or gauging well requirements in floating roof tanks | Y | |
| 8-5-320.4.1 | Tank fitting requirements; Floating roof tanks; Solid sampling or gauging wells; Projection below the liquid surface | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – BB.6
## Source-Specific Applicable Requirements
## MACT (SMALL) ZERO GAP EXTERNAL FLOATING ROOF TANK
## S121 (TANK 166)

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| 8-5-320.4.2 | Tank fitting requirements; Floating roof tanks; Solid sampling or gauging wells; Cover, seal, or lid | Y | |
| 8-5-320.4.3 | Tank fitting requirements; Floating roof tanks; Solid sampling or gauging wells; Gap between the well and the roof | Y | |
| 8-5-320.6 | Tank Fitting Requirements; Emergency roof drain | Y | |
| 8-5-321 | Primary seal requirements | Y | |
| 8-5-321.1 | Primary seal requirements; No holes, tears, or 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 | |
| 8-5-321.4 | Primary seal requirements; Resilient-toroid seal requirements including seal gaps | Y | |
| 8-5-322 | Secondary seal requirements | Y | |
| 8-5-322.1 | Secondary seal requirements; No holes, tears, or other openings | Y | |
| 8-5-322.2 | Secondary seal requirements; Insertion of probes | Y | |
| 8-5-322.5 | Secondary seal requirements; Gap for welded tanks with seal installed after September 4, 1985 | Y | |
| 8-5-322.6 | Secondary seal requirements; extent of seal | 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 | |
| 8-5-501.1 | Records; Type and amounts of liquid; true vapor pressure; Retain 24 months | Y | |
| 8-5-501.2 | Records; Internal and External Floating Roof Tanks; Seal Replacement Records – Retain 10 years | Y | |
| 8-5-503 | Portable hydrocarbon detector | Y | |
| 8-5-602 | Analysis of Samples, True Vapor Pressure | Y | |
| 8-5-604 | Determination of Applicability | Y | |
| **40 CFR 63, Subpart G** | **SOCMI HON G (01/27/1995) REQUIREMENTS FOR GROUP 2 RECORDKEEPING ONLY** | | |
| 63.119(a)(3) | Storage Vessel Provisions – Reference Control Technology – Group 2 storage vessels comply only with recordkeeping requirements in 40 CFR 63.123(a) | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – BB.6
## Source-Specific Applicable Requirements
## MACT (SMALL) ZERO GAP EXTERNAL FLOATING ROOF TANK
## S121 (TANK 166)

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| 63.123(a) | Storage Vessel Provisions – Recordkeeping – Group 2 storage vessels only required to keep tank dimensions and capacity analysis. Retain for life of source. | Y | |
| **40 CFR 63, Subpart CC** | **National Emission Standards for Hazardous Air Pollutants for Petroleum Refining (8/18/95) REQUIREMENTS FOR GROUP 2 RECORDKEEPING ONLY** | | |
| 63.640(c)(2) | Applicability and Designation of Storage Vessels | 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(i)(1) | Reporting and Recordkeeping Requirements-Recordkeeping for storage vessels – Keep records specified in 40 CFR 63.123 | Y | |
| 63.654(i)(1)(iv) | Reporting and Recordkeeping Requirements-Recordkeeping for storage vessels – Data and assumptions used to determine Group 2 classification | Y | |
| 63.654(i)(4) | Reporting and Recordkeeping Requirements-Recordkeeping--Record retention – 5 years | Y | |
| **BAAQMD Condition 20989, Part A** | Throughput limits for source S121 [Basis: 2-1-234.3] | N | |

## Table IV – BB.7
## Source-Specific Applicable Requirements
## NSPS KB ZERO GAP EXTERNAL FLOATING ROOF TANKS
## S439 (TANK 109), S440 (TANK 110), S442 (TANK 112), S444 (TANK 243), S451 (TANK 695)

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| **BAAQMD · Regulation 8, Rule 5** | **Organic Compounds, Storage of Organic Liquids (11/27/02) REQUIREMENTS FOR EXTERNAL FLOATING ROOF TANKS** | | |
| 8-5-111 | Limited Exemption, Tank Removal From and Return to Service | Y | |
| 8-5-111.1 | Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO | Y | |
| 8-5-111.1.1 | Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO; 3 day prior notification | Y | |
| 8-5-111.1.2 | Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO; Telephone notification | Y | |
| 8-5-111.2 | Limited Exemption, Tank Removal From and Return to Service; | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – BB.7
## Source-Specific Applicable Requirements
## NSPS Kb Zero gap External Floating Roof Tanks
## S439 (Tank 109), S440 (Tank 110), S442 (Tank 112), S444 (Tank 243), S451 (Tank 695)

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| | Compliance before notification | | |
| 8-5-111.3 | Limited Exemption, Tank Removal From and Return to Service; Floating roof tanks - continuous and quick filling, emptying and refilling | 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 | |
| 8-5-112.1 | Limited Exemption, Tanks in Operation; Notice to the APCO | Y | |
| 8-5-112.1.1 | Limited Exemption, Tanks in Operation; Notice to the APCO; 3 day prior notification | Y | |
| 8-5-112.1.2 | Limited Exemption, Tanks in Operation; Notice to the APCO; Telephone notification | Y | |
| 8-5-112.2 | Limited Exemption, Tanks in Operation; Compliance and certification before commencement of work | Y | |
| 8-5-112.3 | Limited Exemption, Tanks in Operation; No product movement; minimization of emissions | Y | |
| 8-5-112.4 | Limited Exemption, Tanks in Operation; Exemption does not exceed 7 days | 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 | |
| 8-5-304.1 | Requirements for External Floating Roofs; Tank fitting requirements | Y | |
| 8-5-304.2 | Requirements for External Floating Roofs; Primary seal requirements | Y | |
| 8-5-304.3 | Requirements for External Floating Roofs; Secondary seal requirements | 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 | |
| 8-5-320.3.1 | Tank fitting requirements – Floating roof tanks, Gasketed covers, seals, lids – Gap requirements | Y | |
| 8-5-320.4 | Tank Fitting Requirements; Solid sampling or gauging well requirements in floating roof tanks | Y | |
| 8-5-320.4.1 | Tank fitting requirements; Floating roof tanks; Solid sampling or gauging wells; Projection below the liquid surface | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – BB.7
## Source-Specific Applicable Requirements
## NSPS Kb Zero gap External Floating Roof Tanks
## S439 (Tank 109), S440 (Tank 110), S442 (Tank 112), S444 (Tank 243), S451 (Tank 695)

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| 8-5-320.4.2 | Tank fitting requirements; Floating roof tanks; Solid sampling or gauging wells; Cover, seal, or lid | Y | |
| 8-5-320.4.3 | Tank fitting requirements; Floating roof tanks; Solid sampling or gauging wells; Gap between the well and the roof | Y | |
| 8-5-320.6 | Tank Fitting Requirements; Emergency roof drain | Y | |
| 8-5-321 | Primary seal requirements | Y | |
| 8-5-321.1 | Primary seal requirements; No holes, tears, or 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 | Y | |
| 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 Gaps for welded tanks | Y | |
| 8-5-322 | Secondary seal requirements | Y | |
| 8-5-322.1 | Secondary seal requirements; No holes, tears, or other openings | Y | |
| 8-5-322.2 | Secondary seal requirements; Insertion of probes | Y | |
| 8-5-322.5 | Secondary seal requirements; Gap for welded tanks with seal installed after September 4, 1985 | Y | |
| 8-5-322.6 | Secondary seal requirements; extent of seal | 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 | |
| 8-5-501.1 | Records; Type and amounts of liquid; true vapor pressure; Retain 24 months | Y | |
| 8-5-501.2 | Records; Internal and External Floating Roof Tanks; Seal Replacement Records – Retain 10 years | Y | |
| 8-5-503 | Portable hydrocarbon detector | Y | |
| 8-5-602 | Analysis of Samples, True Vapor Pressure | Y | |
| 8-5-604 | Determination of Applicability | Y | |
| **40 CFR 60, Subpart Kb** | **Standards of Performance for Storage Vessels for Volatile Organic Liquid Storage Vessels for Which Construction, Reconstruction, or Modification Commenced After July 23, 1984** | | |

# IV. Source Specific Applicable Requirements

## Table IV – BB.7
## Source-Specific Applicable Requirements
## NSPS Kb Zero gap External Floating Roof Tanks
## S439 (Tank 109), S440 (Tank 110), S442 (Tank 112), S444 (Tank 243), S451 (Tank 695)

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| | **(12/14/2000) REQUIREMENTS FOR EXTERNAL FLOATING ROOF TANKS** | | |
| 60.110b(a) | Applicability and Designation of Affected Facility; Volatile organic liquid storage vessels > or = to 40 cu m, after 7/23/1984 | Y | |
| 60.112b(a) | Standard for Volatile Organic Compounds (VOC); Requirement for tanks- > 151 cu m with maximum TVP >=5.2 kPa and <76.6 kPa; or >= 75 cu m and < 151 cu m 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) | 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)(A) | Testing and Procedures; External floating roof mechanical shoe | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – BB.7
## Source-Specific Applicable Requirements
## NSPS Kb Zero gap External Floating Roof Tanks
## S439 (Tank 109), S440 (Tank 110), S442 (Tank 112), S444 (Tank 243), S451 (Tank 695)

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| | primary seal requirements | | |
| 60.113b(b)(4)(i)(B) | Testing and Procedures; External floating roof primary seals no holes, tears, openings | Y | |
| 60.113b(b)(4)(ii) | Testing and Procedures; External floating roof secondary seal gap limitations | 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 | 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; Record retention | 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 – content requirements | Y | |
| 60.115b(b)(3) | Reporting and Recordkeeping Requirements; 60.112b(a) external floating roof seal gap measurement records requirements | 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) | Monitoring of Operations; Determine TVP | Y | |
| 60.116b(e)(2) | Monitoring of Operations; Determine TVP-crude oil and refined petroleum | Y | |
| **40 CFR 63, Subpart CC** | **National Emission Standards for Hazardous Pollutants for Petroleum Refining (8/18/95) REQUIREMENTS FOR EXTERNAL FLOATING ROOF TANKS ALSO SUBJECT TO NSPS, Subpart Kb** | | |
| 63.640(c)(2) | Applicability and Designation of Storage Vessels | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – BB.7
## Source-Specific Applicable Requirements
## NSPS Kb Zero gap External Floating Roof Tanks
## S439 (Tank 109), S440 (Tank 110), S442 (Tank 112), S444 (Tank 243), S451 (Tank 695)

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| 63.640(n)(1) | 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) | Applicability and Designation of Affected Source Overlap for Storage Vessels-Additional requirements for Kb storage vessels | Y | |
| 63.640(n)(8)(i) | Applicability and Designation of Affected Source Overlap for Storage Vessels-Additional requirements for Kb storage vessels | Y | |
| 63.640(n)(8)(ii) | Applicability and Designation of Affected Source Overlap for Storage Vessels-Additional requirements for Kb storage vessels | Y | |
| 63.640(n)(8)(iii) | Applicability and Designation of Affected Source Overlap for Storage Vessels-Additional requirements for Kb storage vessels | Y | |
| 63.640(n)(8)(iv) | Applicability and Designation of Affected Source Overlap for Storage Vessels-Additional requirements for Kb storage vessels | Y | |
| 63.640(n)(8)(v) | Applicability and Designation of Affected Source Overlap for Storage Vessels-Additional requirements for Kb storage vessels | Y | |
| 63.640(n)(8)(vi) | Applicability and Designation of Affected Source Overlap for Storage Vessels-Additional requirements for Kb storage vessels | Y | |
| **BAAQMD Condition 12124** | **APPLICABLE TO S439** | | |
| Part 1 | Annual throughput limit [Basis: Cumulative Increase] | Y | |
| Part 2 | Requirements for tank openings [Basis: Cumulative Increase] | Y | |
| Part 3 | Monthly throughput records [Basis: Cumulative Increase] | Y | |
| **BAAQMD Condition 12125** | **APPLICABLE TO S440** | | |
| Part 1 | Annual throughput limit [Basis: Cumulative Increase] | Y | |
| Part 2 | Requirements for tank openings [Basis: Cumulative Increase] | Y | |
| Part 3 | Monthly throughput records [Basis: Cumulative Increase] | Y | |
| **BAAQMD Condition 12127** | **APPLICABLE TO S442** | | |
| Part 1 | Annual throughput limit [Basis: Cumulative Increase] | Y | |
| Part 2 | Requirements for tank openings [Basis: Cumulative Increase] | Y | |
| Part 3 | Monthly throughput records [Basis: Cumulative Increase] | Y | |
| **BAAQMD Condition 12129** | **APPLICABLE TO S444** | | |
| Part 1 | Annual throughput limit [Basis: Cumulative Increase] | Y | |
| Part 2 | Requirements for tank openings [Basis: Cumulative Increase] | Y | |
| Part 3 | Monthly throughput records [Basis: Cumulative Increase] | Y | |
| **BAAQMD Condition 19476** | **APPLICABLE TO S451** | | |
| Part 1 | Annual throughput limit [Basis: Cumulative Increase] | Y | |
| Part 2 | Tank design requirements [Basis: BACT, Cumulative Increase] | Y | |
| Part 3 | Monthly throughput records [Basis: Cumulative Increase] | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – BB.8
## Source-Specific Applicable Requirements
## NSPS Kb Zero gap External Floating Roof Stormwater Equalization Tanks
## S101 (Tank 104), S102 (Tank 105), S106 (Tank 130)

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| **BAAQMD · Regulation 8, Rule 5** | **Organic Compounds, Storage of Organic Liquids (11/27/02) REQUIREMENTS FOR EXTERNAL FLOATING ROOF TANKS** | | |
| 8-5-111 | Limited Exemption, Tank Removal From and Return to Service | Y | |
| 8-5-111.1 | Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO | Y | |
| 8-5-111.1.1 | Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO; 3 day prior notification | Y | |
| 8-5-111.1.2 | Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO; Telephone notification | Y | |
| 8-5-111.2 | Limited Exemption, Tank Removal From and Return to Service; Compliance before notification | Y | |
| 8-5-111.3 | Limited Exemption, Tank Removal From and Return to Service; Floating roof tanks - continuous and quick filling, emptying and refilling | 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 | |
| 8-5-112.1 | Limited Exemption, Tanks in Operation; Notice to the APCO | Y | |
| 8-5-112.1.1 | Limited Exemption, Tanks in Operation; Notice to the APCO; 3 day prior notification | Y | |
| 8-5-112.1.2 | Limited Exemption, Tanks in Operation; Notice to the APCO; Telephone notification | Y | |
| 8-5-112.2 | Limited Exemption, Tanks in Operation; Compliance and certification before commencement of work | Y | |
| 8-5-112.3 | Limited Exemption, Tanks in Operation; No product movement; minimization of emissions | Y | |
| 8-5-112.4 | Limited Exemption, Tanks in Operation; Exemption does not exceed 7 days | Y | |
| 8-5-301 | Storage Tank Control Requirements (internal floating roof, external floating roof, or approved emission control system) | Y | |
| 8-5-303 | Requirements for Pressure Vacuum Valves (applies only to S106) | Y | |
| 8-5-303.1 | Requirements for Pressure Vacuum Valves; Set pressure (applies only to S106) | Y | |
| 8-5-303.2 | Requirements for Pressure Vacuum Valves; Installation, maintenance, operation (applies only to S106) | Y | |
| 8-5-304 | Requirements for External Floating Roofs | Y | |
| 8-5-304.1 | Requirements for External Floating Roofs; Tank fitting requirements | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – BB.8
## Source-Specific Applicable Requirements
## NSPS Kb Zero gap External Floating Roof Stormwater Equalization Tanks
## S101 (Tank 104), S102 (Tank 105), S106 (Tank 130)

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| 8-5-304.2 | Requirements for External Floating Roofs; Primary seal requirements | Y | |
| 8-5-304.3 | Requirements for External Floating Roofs; Secondary seal requirements | 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 | |
| 8-5-320.3.1 | Tank fitting requirements – Floating roof tanks, Gasketed covers, seals, lids – Gap requirements | Y | |
| 8-5-320.4 | Tank Fitting Requirements; Solid sampling or gauging well requirements in floating roof tanks | Y | |
| 8-5-320.4.1 | Tank fitting requirements; Floating roof tanks; Solid sampling or gauging wells; Projection below the liquid surface | Y | |
| 8-5-320.4.2 | Tank fitting requirements; Floating roof tanks; Solid sampling or gauging wells; Cover, seal, or lid | Y | |
| 8-5-320.4.3 | Tank fitting requirements; Floating roof tanks; Solid sampling or gauging wells; Gap between the well and the roof | Y | |
| 8-5-320.6 | Tank Fitting Requirements; Emergency roof drain | Y | |
| 8-5-321 | Primary seal requirements | Y | |
| 8-5-321.1 | Primary seal requirements; No holes, tears, or 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 | Y | |
| 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 Gaps for welded tanks | Y | |
| 8-5-322 | Secondary seal requirements | Y | |
| 8-5-322.1 | Secondary seal requirements; No holes, tears, or other openings | Y | |
| 8-5-322.2 | Secondary seal requirements; Insertion of probes | Y | |
| 8-5-322.5 | Secondary seal requirements; Gap for welded tanks with seal installed after September 4, 1985 | Y | |
| 8-5-322.6 | Secondary seal requirements; extent of seal | 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 | |

# IV. Source Specific Applicable Requirements

## Table IV – BB.8
## Source-Specific Applicable Requirements
## NSPS Kb Zero gap External Floating Roof Stormwater Equalization Tanks
## S101 (Tank 104), S102 (Tank 105), S106 (Tank 130)

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| 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 | |
| 8-5-403 | Inspection Requirements for Pressure Vacuum Valves (applies only to S106) | Y | |
| 8-5-404 | Certification | Y | |
| 8-5-405 | Information required | Y | |
| 8-5-501 | Records | Y | |
| 8-5-501.1 | Records; Type and amounts of liquid; true vapor pressure; Retain 24 months | Y | |
| 8-5-501.2 | Records; Internal and External Floating Roof Tanks; Seal Replacement Records – Retain 10 years | Y | |
| 8-5-503 | Portable hydrocarbon detector | Y | |
| 8-5-602 | Analysis of Samples, True Vapor Pressure | Y | |
| 8-5-604 | Determination of Applicability | Y | |
| 8-5-605 | Pressure Vacuum Valve Gas Tight Determination (applies only to S106) | Y | |
| **BAAQMD · Regulation 8, Rule 8** | **Organic Compounds, Wastewater (Oil-Water Separators) (6/15/1994) REQUIREMENTS FOR WASTEWATER SEPARATORS** | | |
| 8-8-302 | Standards: Wastewater Separators Larger than or Equal to 18.9 Liters per second (300 gal per min) | Y | |
| 8-8-302.2 | Standards: Wastewater Separators Larger than or Equal to 18.9 Liters per second (300 gal per min); Floating roof tank with double seals | Y | |
| 8-8-302.2.1 | Standards: Wastewater Separators Larger than or Equal to 18.9 Liters per second (300 gal per min); Floating roof tank with double seals – liquid mounted primary seal gap criteria | Y | |
| 8-8-302.2.2 | Standards: Wastewater Separators Larger than or Equal to 18.9 Liters per second (300 gal per min); Floating roof tank with double seals – secondary and wiper seals gap criteria | Y | |
| 8-8-302.2.3 | Standards: Wastewater Separators Larger than or Equal to 18.9 Liters per second (300 gal per min); Floating roof tank with double seals – primary and secondary seal gap inspection | Y | |
| 8-8-303 | Standards: Gauging and Sampling Devices | Y | |
| 8-8-503 | Monitoring and Records: Inspection and Repair Records | Y | |
| 8-8-504 | Monitoring and Records: Portable Hydrocarbon Detector | Y | |
| 8-8-603 | Manual of Procedures: Inspection Procedures | Y | |
| **40 CFR 60, Subpart Kb** | **Standards of Performance for Storage Vessels for Volatile Organic Liquid Storage Vessels for Which Construction, Reconstruction, or Modification Commenced After July 23, 1984 (12/14/2000)** | | |

# IV. Source Specific Applicable Requirements

## Table IV – BB.8
## Source-Specific Applicable Requirements
## NSPS Kb Zero gap External Floating Roof Stormwater Equalization Tanks
## S101 (Tank 104), S102 (Tank 105), S106 (Tank 130)

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| | **REQUIREMENTS FOR EXTERNAL FLOATING ROOF TANKS** | | |
| 60.110b(a) | Applicability and Designation of Affected Facility; Volatile organic liquid storage vessels > or = to 40 cu m, after 7/23/1984 | Y | |
| 60.112b(a) | Standard for Volatile Organic Compounds (VOC); Requirement for tanks- > 151 cu m with maximum TVP >=5.2 kPa and <76.6 kPa; or >= 75 cu m and < 151 cu m 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) | 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)(A) | Testing and Procedures; External floating roof mechanical shoe primary seal requirements | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – BB.8
## Source-Specific Applicable Requirements
## NSPS Kb Zero gap External Floating Roof Stormwater Equalization Tanks
## S101 (Tank 104), S102 (Tank 105), S106 (Tank 130)

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| 60.113b(b)(4)(i)(B) | Testing and Procedures; External floating roof primary seals no holes, tears, openings | Y | |
| 60.113b(b)(4)(ii) | Testing and Procedures; External floating roof secondary seal gap limitations | 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 | 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; Record retention | 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 – content requirements | Y | |
| 60.115b(b)(3) | Reporting and Recordkeeping Requirements; 60.112b(a) external floating roof seal gap measurement records requirements | 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) | Monitoring of Operations; Determine TVP | Y | |
| 60.116b(e)(3) | Monitoring of Operations; Determine TVP-other liquids | Y | |
| 60.116b(f) | Monitoring of Operations; Waste storage tanks (indeterminate or variable composition) | Y | |
| **40 CFR 60, Subpart QQQ** | **Standards of Performance for VOC Emissions from Petroleum Refinery Wastewater Systems (8/18/95) REQUIREMENTS FOR STORAGE VESSELS ALSO SUBJECT TO NSPS, Subpart Kb** | | |
| 60.690(a)(1) | Applicability and Designation of Affected Facility | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – BB.8
## Source-Specific Applicable Requirements
## NSPS Kb Zero gap External Floating Roof Stormwater Equalization Tanks
## S101 (Tank 104), S102 (Tank 105), S106 (Tank 130)

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| 60.690(a)(3) | Applicability and Designation of Affected Facility | Y | |
| 60.692-1 | Standards: General | Y | |
| 60.692-1(a) | Standards: General | Y | |
| 60.692-1(b) | Standards: General | Y | |
| 60.692-3 | Standards: Oil-Water Separators (includes storage vessels) | Y | |
| 60.692-3(d) | Standards: Oil-Water Separators (includes storage vessels) – Overlap with Kb | Y | |
| 60.692-6 | Standards: Delay of Repair | Y | |
| 60.692-6(a) | Standards: Delay of Repair | Y | |
| 60.692-6(b) | Standards: Delay of Repair | Y | |
| 60.697 | Recordkeeping Requirements | Y | |
| 60.697(a) | Recordkeeping Requirements | Y | |
| 60.697(e)(1) | Recordkeeping Requirements | Y | |
| 60.697(e)(2) | Recordkeeping Requirements | Y | |
| 60.697(e)(3) | Recordkeeping Requirements | Y | |
| 60.697(e)(4) | Recordkeeping Requirements | Y | |
| 60.697(f)(1) | Recordkeeping Requirements | Y | |
| 60.697(f)(2) | Recordkeeping Requirements | Y | |
| **40 CFR 63, Subpart CC** | **National Emission Standards for Hazardous Pollutants for Petroleum Refining (8/18/95) REQUIREMENTS FOR GROUP 2 WASTEWATER SOURCES** | | |
| 63.640(c)(3) | Wastewater streams and treatment operations associated with petroleum refining process units meeting the criteria of section 63.640(a) | Y | |
| 63.641 | Definitions: Group 1 and Group 2 Wastewater Streams | Y | |
| 63.654(a) | Reporting and Recordkeeping Requirements: Wastewater – no reporting and recordkeeping requirements for wastewater except for Group 1 wastewater streams | Y | |
| **BAAQMD Condition 20989, Part A** | Throughput limits for sources S101, S102, S106 [Basis: 2-1-234.3] | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – BB.9
## Source-Specific Applicable Requirements
## NSPS Kb Zero-Gap Internal Floating Roof Tank
## S448 (Tank 1007)

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforce-able (Y/N) | Future Effective Date |
|---|---|---|---|
| **BAAQMD Regulation 8, Rule 5** | **Organic Compounds, Storage of Organic Liquids (11/27/02) REQUIREMENTS FOR INTERNAL FLOATING ROOF TANKS** | | |
| 8-5-111 | Limited Exemption, Tank Removal From and Return to Service | Y | |
| 8-5-111.1 | Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO | Y | |
| 8-5-111.1.1 | Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO; 3 day prior notification | Y | |
| 8-5-111.1.2 | Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO; Telephone notification | Y | |
| 8-5-111.2 | Limited Exemption, Tank Removal From and Return to Service; Compliance before notification | Y | |
| 8-5-111.3 | Limited Exemption, Tank Removal From and Return to Service; Floating roof tanks - continuous and quick filling, emptying and refilling | 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 | |
| 8-5-112.1 | Limited Exemption, Tanks in Operation; Notice to the APCO | Y | |
| 8-5-112.1.1 | Limited Exemption, Tanks in Operation; Notice to the APCO; 3 day prior notification | Y | |
| 8-5-112.1.2 | Limited Exemption, Tanks in Operation; Notice to the APCO; Telephone notification | Y | |
| 8-5-112.2 | Limited Exemption, Tanks in Operation; Compliance and certification before commencement of work | Y | |
| 8-5-112.3 | Limited Exemption, Tanks in Operation; No product movement; minimization of emissions | Y | |
| 8-5-112.4 | Limited Exemption, Tanks in Operation; Exemption does not exceed 7 days | Y | |
| 8-5-301 | Storage Tank Control Requirements (internal floating roof, external floating roof, or approved emission control system) | Y | |
| 8-5-305 | Requirements for Internal Floating roofs | Y | |
| 8-5-305.2 | Requirements for Internal Floating roofs; Seals installed after 2/1/1993 | Y | |
| 8-5-305.3 | Requirements for Internal Floating roofs; Viewports in fixed roof tank | Y | |
| 8-5-305.4 | Requirements for Internal Floating roofs; Tank fitting requirements | Y | |
| 8-5-305.5 | Requirements for Internal Floating roofs; Floating roof requirements | Y | |
| 8-5-320 | Tank fitting requirements; Floating roof tanks | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – BB.9
## Source-Specific Applicable Requirements
## NSPS Kb Zero-Gap Internal Floating Roof Tank
## S448 (Tank 1007)

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforce-able (Y/N) | Future Effective Date |
|---|---|---|---|
| 8-5-320.2 | Tank fitting requirements; Floating roof tanks; Projection below liquid 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 | |
| 8-5-320.3.1 | Tank fitting requirements; Floating roof tanks; Gasketed covers, seals, lids – Gap requirements | Y | |
| 8-5-320.3.2 | Tank fitting requirements; Floating roof tanks; Gasketed covers, seals, lids – Inaccessible openings on internal floating roof tanks | Y | |
| 8-5-320.4 | Tank fitting requirements; Floating roof tanks; Solid sampling or gauging wells | Y | |
| 8-5-320.4.1 | Tank fitting requirements; Floating roof tanks; Solid sampling or gauging wells; Projection below the liquid surface | Y | |
| 8-5-320.4.2 | Tank fitting requirements; Floating roof tanks; Solid sampling or gauging wells; Cover, seal, or lid | Y | |
| 8-5-320.4.3 | Tank fitting requirements; Floating roof tanks; Solid sampling or gauging wells; Gap between the well and the roof | Y | |
| 8-5-320.6 | Tank Fitting Requirements; Emergency roof drain | Y | |
| 8-5-321 | Primary seal requirements | Y | |
| 8-5-321.1 | Primary seal requirements; No holes, tears, or 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 seals requirements | Y | |
| 8-5-321.3.1 | Primary seal requirements; Metallic shoe type seals requirements; Geometry of shoe | Y | |
| 8-5-321.3.2 | Primary seal requirements; Metallic shoe type seals requirements; Gaps for welded tanks | Y | |
| 8-5-322 | Secondary seal requirements | Y | |
| 8-5-322.1 | Secondary seal requirements; No holes, tears, or other openings | Y | |
| 8-5-322.2 | Secondary seal requirements; Insertion of probes | Y | |
| 8-5-322.5 | Secondary seal requirements; Gaps for welded tanks with seals installed after 2/1/93 | Y | |
| 8-5-322.6 | Secondary seal requirements; Extent of seal | 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 | |
| 8-5-402 | Inspection Requirements for Internal Floating Roof Tanks | Y | |
| 8-5-402.1 | Inspection Requirements for Internal Floating Roof Tanks; Primary and Secondary Seal Inspections – Seal gaps | Y | |
| 8-5-402.2 | Inspection Requirements for Internal Floating Roof Tanks; Visual Inspection of Outer Most Seal | Y | |
| 8-5-402.3 | Inspection Requirements for Internal Floating Roof Tanks; Tank Fitting Inspection | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – BB.9
## Source-Specific Applicable Requirements
## NSPS Kb Zero-Gap Internal Floating Roof Tank
## S448 (Tank 1007)

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforce-able (Y/N) | Future Effective Date |
|---|---|---|---|
| 8-5-404 | Certification | Y | |
| 8-5-405 | Information required | Y | |
| 8-5-501 | Records | Y | |
| 8-5-501.1 | Records; Type and amounts of liquid; true vapor pressure; Retain 24 months | Y | |
| 8-5-501.2 | Records; Internal and External Floating Roof Tanks; Seal Replacement Records – Retain 10 years | Y | |
| 8-5-503 | Portable hydrocarbon detector | Y | |
| 8-5-602 | Analysis of Samples, True Vapor Pressure | Y | |
| 8-5-604 | Determination of Applicability | Y | |
| **40 CFR 60, Subpart Kb** | **Standards of Performance for Storage Vessels for Volatile Organic Liquid Storage Vessels for Which Construction, Reconstruction, or Modification Commenced After July 23, 1984 (12/14/2000) REQUIREMENTS FOR INTERNAL FLOATING ROOF TANKS** | | |
| 60.110b(a) | Applicability and Designation of Affected Facility; Volatile organic liquid storage vessels > or = to 40 cu m, after 7/23/1984 | Y | |
| 60.112b(a) | Standard for Volatile Organic Compounds (VOC); Requirement for tanks- > 151 cu m with maximum TVP >=5.2 kPa and <76.6; or >= 75 cu m and < 151 cu m with maximum TVP >= 27.6 kPa and < 76.6 kPa | Y | |
| 60.112b(a)(1) | Standard for Volatile Organic Compounds (VOC); Fixed roof with internal floating roof option | Y | |
| 60.112b(a)(1)(i) | Standard for Volatile Organic Compounds (VOC); Internal floating roof requirements | Y | |
| 60.112b(a)(1)(ii) | Standard for Volatile Organic Compounds (VOC); Internal floating roof seal requirements | Y | |
| 60.112b(a)(1)(ii)(B) | Standard for Volatile Organic Compounds (VOC); Internal floating roof double seal option | Y | |
| 60.112b(a)(1)(iii) | Standard for Volatile Organic Compounds (VOC); Internal floating roof openings-projections below roof surface | Y | |
| 60.112b(a)(1)(iv) | Standard for Volatile Organic Compounds (VOC); Internal floating roof openings covers | Y | |
| 60.112b(a)(1)(v) | Standard for Volatile Organic Compounds (VOC); Internal floating roof automatic bleeder vents | Y | |
| 60.112b(a)(1)(vi) | Standard for Volatile Organic Compounds (VOC); Internal floating roof rim space vents | Y | |
| 60.112b(a)(1)(vii) | Standard for Volatile Organic Compounds (VOC); Internal floating roof sampling penetrations | Y | |
| 60.112b(a)(1)(viii) | Standard for Volatile Organic Compounds (VOC); Internal floating roof support column penetrations | Y | |
| 60.112b(a)(1)(ix) | Standard for Volatile Organic Compounds (VOC); Internal floating roof ladder penetrations | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – BB.9
## Source-Specific Applicable Requirements
## NSPS Kb Zero-Gap Internal Floating Roof Tank
## S448 (Tank 1007)

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforce-able (Y/N) | Future Effective Date |
|---|---|---|---|
| 60.113b(a)(1) | Testing and Procedures; Internal floating roof visual inspection before filling. Repair any defects found during inspection before filling. | Y | |
| 60.113b(a)(2) | Testing and Procedures; Internal floating roof tanks with liquid mounted or mechanical shoe primary seal, annual visual inspection through manholes and hatches (if complying with 40 CFR 60.113b(a)(3)(ii)) | Y | |
| 60.113b(a)(3) | Testing and Procedures; Internal floating roof with double seal system, inspection requirements | Y | |
| 60.113b(a)(3)(ii) | Testing and Procedures; Internal floating roof with double seal system, inspection requirements - visually inspect per 40 CFR 60.113b(a)(2) annually and per 40 CFR 60.113b(a)(4) every 10 years. | Y | |
| 60.113b(a)(4) | Testing and Procedures; Internal floating roof inspection requirements each time tank is emptied and degassed (10 year intervals if complying with 40 CFR 60.113b(a)(3)(ii)) | Y | |
| 60.113b(a)(5) | Testing and Procedures; Internal floating roof, 30 day notification for filling after inspection | Y | |
| 60.115b | Reporting and Recordkeeping Requirements; 60.112b(a) tanks; Record retention | Y | |
| 60.115b(a) | Reporting and Recordkeeping Requirements; 60.112b(a) internal floating roof tanks | Y | |
| 60.115b(a)(1) | Reporting and Recordkeeping Requirements; 60.112b(a) internal floating roof control equipment description and certification | Y | |
| 60.115b(a)(2) | Reporting and Recordkeeping Requirements; 60.112b(a) internal floating roof inspection records | Y | |
| 60.115b(a)(3) | Reporting and Recordkeeping Requirements; 60.112b(a) internal floating roof annual inspection defects report | Y | |
| 60.115b(a)(4) | Reporting and Recordkeeping Requirements; 60.112b(a) internal floating roof double seal system inspection defects 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) | Monitoring of Operations; Determine TVP | Y | |
| 60.116b(e)(2) | Monitoring of Operations; Determine TVP-crude oil and refined petroleum | Y | |
| **40 CFR 63, Subpart CC** | **National Emission Standards for Hazardous Air Pollutants for Petroleum Refining (8/18/95) REQUIREMENTS FOR INTERNAL FLOATING ROOF TANKS ALSO SUBJECT TO NSPS, Subpart Kb** | | |
| 63.640(c)(2) | Applicability and Designation of Storage Vessels | Y | |
| 63.640(n)(1) | 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) | Applicability and Designation of Affected Source Overlap for | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – BB.9
## Source-Specific Applicable Requirements
## NSPS Kb Zero-Gap Internal Floating Roof Tank
## S448 (Tank 1007)

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforce-able (Y/N) | Future Effective Date |
|---|---|---|---|
| | Storage Vessels-Additional requirements for Kb storage vessels | | |
| 63.640(n)(8)(ii) | Applicability and Designation of Affected Source Overlap for Storage Vessels-Additional requirements for Kb storage vessels | Y | |
| 63.640(n)(8)(iii) | Applicability and Designation of Affected Source Overlap for Storage Vessels-Additional requirements for Kb storage vessels | Y | |
| 63.640(n)(8)(iv) | Applicability and Designation of Affected Source Overlap for Storage Vessels-Additional requirements for Kb storage vessels | Y | |
| 63.640(n)(8)(v) | Applicability and Designation of Affected Source Overlap for Storage Vessels-Additional requirements for Kb storage vessels | Y | |
| **BAAQMD Condition 12133** | | | |
| Part 1 | Annual throughput limit [Basis: Cumulative Increase] | Y | |
| Part 2 | Requirements for tank openings [Basis: Cumulative Increase] | Y | |
| Part 3 | Monthly throughput records [Basis: Cumulative Increase] | Y | |

## Table IV – BB.10
## Source-Specific Applicable Requirements
## Internal Floating Roof Tanks with Dome Roofs
## Previously External Floating Roof Tanks
## S126 (Tank 172), S257 (Tank 1004), S258 (Tank 1005)

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforce-able (Y/N) | Future Effective Date |
|---|---|---|---|
| **BAAQMD Regulation 8, Rule 5** | **Organic Compounds, Storage of Organic Liquids (11/27/02) REQUIREMENTS FOR INTERNAL FLOATING ROOF TANKS** | | |
| 8-5-111 | Limited Exemption, Tank Removal From and Return to Service | Y | |
| 8-5-111.1 | Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO | Y | |
| 8-5-111.1.1 | Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO; 3 day prior notification | Y | |
| 8-5-111.1.2 | Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO; Telephone notification | Y | |
| 8-5-111.2 | Limited Exemption, Tank Removal From and Return to Service; Compliance before notification | Y | |
| 8-5-111.3 | Limited Exemption, Tank Removal From and Return to Service; Floating roof tanks - continuous and quick filling, emptying and refilling | Y | |
| 8-5-111.5 | Limited Exemption, Tank Removal From and Return to Service; Minimization of emissions | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – BB.10
## Source-Specific Applicable Requirements
### INTERNAL FLOATING ROOF TANKS WITH DOME ROOFS
### PREVIOUSLY EXTERNAL FLOATING ROOF TANKS
### S126 (TANK 172), S257 (TANK 1004), S258 (TANK 1005)

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforce-able (Y/N) | Future Effective Date |
|---|---|---|---|
| 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 | |
| 8-5-112.1 | Limited Exemption, Tanks in Operation; Notice to the APCO | Y | |
| 8-5-112.1.1 | Limited Exemption, Tanks in Operation; Notice to the APCO; 3 day prior notification | Y | |
| 8-5-112.1.2 | Limited Exemption, Tanks in Operation; Notice to the APCO; Telephone notification | Y | |
| 8-5-112.2 | Limited Exemption, Tanks in Operation; Compliance and certification before commencement of work | Y | |
| 8-5-112.3 | Limited Exemption, Tanks in Operation; No product movement; minimization of emissions | Y | |
| 8-5-112.4 | Limited Exemption, Tanks in Operation; Exemption does not exceed 7 days | Y | |
| 8-5-301 | Storage Tank Control Requirements (internal floating roof, external floating roof, or approved emission control system) | Y | |
| 8-5-303 | Requirements for Pressure Vacuum Valves (applies only to S126 and S258) | Y | |
| 8-5-303.1 | Requirements for Pressure Vacuum Valves; Set pressure (applies only to S126 and S258) | Y | |
| 8-5-303.2 | Requirements for Pressure Vacuum Valves; Installation, maintenance, operation (applies only to S126 and S258) | Y | |
| 8-5-305 | Requirements for Internal Floating roofs | Y | |
| 8-5-305.2 | Requirements for Internal Floating roofs; Seals installed after 2/1/1993 | Y | |
| 8-5-305.3 | Requirements for Internal Floating roofs; Viewports in fixed roof tank; not required if dome roof has translucent panels | Y | |
| 8-5-305.4 | Requirements for Internal Floating roofs; Tank fitting requirements | Y | |
| 8-5-305.5 | Requirements for Internal 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 except p/v valves and vacuum breaker vents | Y | |
| 8-5-320.3 | Tank fitting requirements; Floating roof tanks; Gasketed covers, seals, lids | Y | |
| 8-5-320.3.1 | Tank fitting requirements; Floating roof tanks; Gasketed covers, seals, lids – Gap requirements | Y | |
| 8-5-320.3.2 | Tank fitting requirements; Floating roof tanks; Gasketed covers, seals, lids – Inaccessible openings on internal floating roof tanks | Y | |
| 8-5-320.4 | Tank fitting requirements; Floating roof tanks; Solid sampling or gauging wells | Y | |
| 8-5-320.4.1 | Tank fitting requirements; Floating roof tanks; Solid sampling or | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – BB.10
## Source-Specific Applicable Requirements
### INTERNAL FLOATING ROOF TANKS WITH DOME ROOFS
### PREVIOUSLY EXTERNAL FLOATING ROOF TANKS
### S126 (TANK 172), S257 (TANK 1004), S258 (TANK 1005)

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforce-able (Y/N) | Future Effective Date |
|---|---|---|---|
| | gauging wells; Projection below the liquid surface | | |
| 8-5-320.4.2 | Tank fitting requirements; Floating roof tanks; Solid sampling or gauging wells; Cover, seal, or lid | Y | |
| 8-5-320.4.3 | Tank fitting requirements; Floating roof tanks; Solid sampling or gauging wells; Gap between the well and the roof | Y | |
| 8-5-320.6 | Tank Fitting Requirements; Emergency roof drain | Y | |
| 8-5-321 | Primary seal requirements | Y | |
| 8-5-321.1 | Primary seal requirements; No holes, tears, or 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 seals requirements | Y | |
| 8-5-321.3.1 | Primary seal requirements; Metallic shoe type seals requirements; Geometry of shoe | Y | |
| 8-5-321.3.2 | Primary seal requirements; Metallic shoe type seals requirements; Gaps for welded tanks | Y | |
| 8-5-322 | Secondary seal requirements | Y | |
| 8-5-322.1 | Secondary seal requirements; No holes, tears, or other openings | Y | |
| 8-5-322.2 | Secondary seal requirements; Insertion of probes | Y | |
| 8-5-322.5 | Secondary seal requirements; Gaps for welded tanks with seals installed after 2/1/93 – note 2 | Y | |
| 8-5-322.6 | Secondary seal requirements; Extent of seal | 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 | |
| 8-5-402 | Inspection Requirements for Internal Floating Roof Tanks | Y | |
| 8-5-402.1 | Inspection Requirements for Internal Floating Roof Tanks; Primary and Secondary Seal Inspections – Seal gaps | Y | |
| 8-5-402.2 | Inspection Requirements for Internal Floating Roof Tanks; Visual Inspection of Outer Most Seal | Y | |
| 8-5-402.3 | Inspection Requirements for Internal Floating Roof Tanks; Tank Fitting Inspection | Y | |
| 8-5-403 | Inspection Requirements for Pressure Vacuum Valves (applies only to S126 and S258) | Y | |
| 8-5-404 | Certification | Y | |
| 8-5-405 | Information required | Y | |
| 8-5-501 | Records | Y | |
| 8-5-501.1 | Records; Type and amounts of liquid; true vapor pressure; Retain 24 months | Y | |
| 8-5-501.2 | Records; Internal and External Floating Roof Tanks; Seal Replacement Records – Retain 10 years | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – BB.10
## Source-Specific Applicable Requirements
### INTERNAL FLOATING ROOF TANKS WITH DOME ROOFS
### PREVIOUSLY EXTERNAL FLOATING ROOF TANKS
### S126 (TANK 172), S257 (TANK 1004), S258 (TANK 1005)

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforce-able (Y/N) | Future Effective Date |
|---|---|---|---|
| 8-5-503 | Portable hydrocarbon detector | Y | |
| 8-5-602 | Analysis of Samples, True Vapor Pressure | Y | |
| 8-5-604 | Determination of Applicability | Y | |
| 8-5-605 | Pressure Vacuum Valve Gas Tight Determination (applies only to S126 and S258) | Y | |
| **40 CFR 63, Subpart G** | **SOCMI HON G (01/27/1995) REQUIREMENTS FOR INTERNAL FLOATING ROOF TANKS** | | |
| 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(b) | Storage Vessel Provisions -- Reference Control Technology— Internal floating roof | Y | |
| 63.119(b)(1) | Storage Vessel Provisions -- Reference Control Technology-- Internal floating roof--Must float on liquid | Y | |
| 63.119(b)(1)(i) | Storage Vessel Provisions -- Reference Control Technology-- Internal floating roof --Must float on liquid except during initial fill | Y | |
| 63.119(b)(1)(ii) | Storage Vessel Provisions -- Reference Control Technology-- Internal floating roof-- Must float on liquid except after completely emptied and degassed | Y | |
| 63.119(b)(1)(iii) | Storage Vessel Provisions -- Reference Control Technology-- Internal floating roof -- Must float on liquid except when completely emptied before refilling | Y | |
| 63.119(b)(2) | Storage Vessel Provisions -- Reference Control Technology-- Internal Floating Roof Operations, when not floating | Y | |
| 63.119(b)(3) | Storage Vessel Provisions -- Reference Control Technology-- Internal floating roof – seals; must have at least one seal | Y | |
| 63.119(b)(3)(i) | Storage Vessel Provisions -- Reference Control Technology-- Internal floating roof – seal option; single liquid-mounted seal | Y | |
| 63.119(b)(3)(ii) | Storage Vessel Provisions -- Reference Control Technology-- Internal floating roof - seal option; single metallic shoe seal | Y | |
| 63.119(b)(3)(iii) | Storage Vessel Provisions -- Reference Control Technology-- Internal floating roof - seal option; double seal, lower can be vapor mounted | Y | |
| 63.119(b)(4) | Storage Vessel Provisions -- Reference Control Technology-- Internal floating roof – automatic bleeder valve requirements | Y | |
| 63.120(a) | Storage Vessel Provisions -- Procedures to Determine Compliance-- Compliance Demonstration--Internal floating roof | Y | |
| 63.120(a)(1) | Storage Vessel Provisions -- Procedures to Determine Compliance— Internal FR tank inspection schedule | Y | |
| 63.120(a)(3) | Storage Vessel Provisions -- Procedures to Determine Compliance— Internal FR tank inspections – tanks with double seals | Y | |
| 63.120(a)(3)(ii) | Storage Vessel Provisions -- Procedures to Determine Compliance-- | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – BB.10
## Source-Specific Applicable Requirements
### INTERNAL FLOATING ROOF TANKS WITH DOME ROOFS
### PREVIOUSLY EXTERNAL FLOATING ROOF TANKS
### S126 (TANK 172), S257 (TANK 1004), S258 (TANK 1005)

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforce-able (Y/N) | Future Effective Date |
|---|---|---|---|
| | Internal FR tank inspections – tanks with double seals - annual visual inspection of IFR and secondary seal through manholes and roof hatches. Also must comply with 63.120(a)(3)(iii) every time emptied and degassed and every 10 years. | | |
| 63.120(a)(3)(iii) | Storage Vessel Provisions -- Procedures to Determine Compliance-- Internal FR tank inspections – tanks with double seals - visually inspect IFR and both seals each time emptied and degassed and at least once every 10 years [does not apply to gaskets, slotted membranes, or sleeve seals for Group 1 Refinery MACT tanks per 63.646(e)]. Also must comply with annual visual inspection in 63.120(a)(3)(ii). | Y | |
| 63.120(a)(4) | Storage Vessel Provisions -- Procedures to Determine Compliance Internal FR Repairs must be made within 45 days after identification or empty and remove tank from service. Two 30 day extensions are allowed to empty the tank. Decision to use extension must be documented. | Y | |
| 63.120(a)(5) | Storage Vessel Provisions -- Procedures to Determine Compliance Internal FR and seal visual inspection each time emptied – 30 day notification required for 10 year inspection (63.120(a)(3)(iii)) | Y | |
| 63.120(a)(6) | Storage Vessel Provisions -- Procedures to Determine Compliance-- External FR and seal visual inspection each time emptied –- Notification for unplanned | Y | |
| 63.120(a)(7) | Storage Vessel Provisions -- Procedures to Determine Compliance-- Internal FR and seal visual inspection each time emptied – Repair defects before refilling [does not apply to gaskets, slotted membranes, or sleeve seals for Group 1 Refinery MACT tanks per 63.646(e)] | Y | |
| 63.123(a) | Storage Vessel Provisions -- Recordkeeping--Group 1 and Group 2 storage vessel dimensions and capacity. Keep for life of source. | Y | |
| 63.123(c) | Storage Vessel Provisions -- Recordkeeping--Group 1 Internal floating roof tank requirements - records of each tank inspection | Y | |
| 63.123(g) | Storage Vessel Provisions -- Recordkeeping, Extensions for emptying storage vessel – keep documentation specified | Y | |
| **40 CFR 63, Subpart CC** | **National Emission Standards for Hazardous Air Pollutants for Petroleum Refineries (06/12/1996)**<br>**REQUIREMENTS FOR INTERNAL FLOATING ROOF TANKS** | | |
| 63.640(c)(2) | Applicability and Designation of Storage Vessels | Y | |
| 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—63 Subpart G exclusions for storage | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – BB.10
## Source-Specific Applicable Requirements
### INTERNAL FLOATING ROOF TANKS WITH DOME ROOFS
### PREVIOUSLY EXTERNAL FLOATING ROOF TANKS
### S126 (TANK 172), S257 (TANK 1004), S258 (TANK 1005)

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforce-able (Y/N) | Future Effective Date |
|---|---|---|---|
| | vessels [IFRs exempt from 63.119(b)(5) and (b)(6)] | | |
| 63.646(d) | Storage Vessel Provisions-References | 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—Exceptions for compliance with inspection requirements of 63.120 of Subpart G – Not required to comply with provisions for gaskets, slotted membranes, and sleeve seals. | 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-Covers or lids closed except when in use | Y | |
| 63.646(f)(2) | Storage Vessel Provisions-Group 1 floating roof requirements-Rim space vents requirements | Y | |
| 63.646(f)(3) | Storage Vessel Provisions-Group 1 floating roof requirements-Automatic bleeder vents requirements | Y | |
| 63.646(l) | Storage Vessel Provisions-State or local permitting agency notification requirements | Y | |
| 63.654(f) | Reporting and Recordkeeping Requirements-Notice of compliance status report requirements | Y | |
| 63.654(f)(1) | Reporting and Recordkeeping Requirements-Notice of compliance status report requirements | Y | |
| 63.654(f)(1)(i) | Reporting and Recordkeeping Requirements-Notice of compliance status report requirements-Reporting--storage vessels | Y | |
| 63.654(f)(1)(i)(A) | Reporting and Recordkeeping Requirements-Notice of compliance status report requirements-Reporting--storage vessels | Y | |
| 63.654(f)(1)(i)(A)(1) | Reporting and Recordkeeping Requirements-Notice of compliance status report requirements-Reporting--storage vessels | Y | |
| 63.654(g) | Periodic Reporting and Recordkeeping Requirements | Y | |
| 63.654(g)(1) | Periodic Reporting and Recordkeeping Requirements-storage vessels [Information related to gaskets, slotted membranes, and sleeve seals not required for storage vessels that are part of existing source] | Y | |
| 63.654(g)(2) | Periodic Reporting and Recordkeeping Requirements- internal floating roof tanks – submit results of each tank inspection where failure is detected in control equipment | Y | |
| 63.654(g)(2)(i) | Periodic Reporting and Recordkeeping Requirements-internal floating roof tanks – submit results of each tank inspection where failure is detected in control equipment – annual inspection reports | Y | |
| 63.654(g)(2)(i)(A) | Periodic Reporting and Recordkeeping Requirements- internal floating roof tanks – submit results of each tank inspection where failure is detected in control equipment – annual inspection report; | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – BB.10
## Source-Specific Applicable Requirements
### INTERNAL FLOATING ROOF TANKS WITH DOME ROOFS
### PREVIOUSLY EXTERNAL FLOATING ROOF TANKS
### S126 (TANK 172), S257 (TANK 1004), S258 (TANK 1005)

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforce-able (Y/N) | Future Effective Date |
|---|---|---|---|
| | definition of failure | | |
| 63.654(g)(2)(i)(B) | Periodic Reporting and Recordkeeping Requirements—internal floating roof tanks - submit results of each tank inspection where failure is detected in control equipment – annual inspection report; Periodic Report requirements | Y | |
| 63.654(g)(2)(i)(C) | Periodic Reporting and Recordkeeping Requirements—internal floating roof tanks – submit results of each tank inspection where failure is detected in control equipment – annual inspection report; extension documentation | Y | |
| 63.654(g)(2)(ii) | Periodic Reporting and Recordkeeping Requirements- internal floating roof tanks – submit results of each tank inspection where failure is detected in control equipment – internal inspection report | Y | |
| 63.654(g)(2)(ii)(A) | Periodic Reporting and Recordkeeping Requirements- internal floating roof tanks – submit results of each tank inspection where failure is detected in control equipment – internal inspection report; definition of failure | Y | |
| 63.654(g)(2)(ii)(B) | Periodic Reporting and Recordkeeping Requirements- internal floating roof tanks – submit results of each tank inspection where failure is detected in control equipment – internal inspection report; Periodic report requirements | Y | |
| 63.654(h)(2) | 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 – refilling Group 1 storage vessel. | Y | |
| 63.654(h)(2)(ii) | Reporting and Recordkeeping Requirements-Other reports-Storage vessel notification of inspections –Group 1 storage vessel seal gap measurements – 30 day notification [can be waived or modified by state or local]. | 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 – keep records specified in 63.123 (Subpart G) | Y | |
| 63.654(i)(1)(i) | Reporting and Recordkeeping Requirements-Recordkeeping for storage vessels– keep records specified in 63.123 (Subpart G) except records related to gaskets, slotted membranes, and sleeve seals for vessels in existing sources | Y | |
| 63.654(i)(4) | Reporting and Recordkeeping Requirements—Recordkeeping for storage vessels-Record retention – 5 years | Y | |
| **BAAQMD Condition 20989, Part A** | Throughput limits for sources S126, S257, S258 [Basis: 2-1-234.3] | N | |

# IV. Source Specific Applicable Requirements

2 Seals in S257 and S258 were installed prior to 2/1/1993, but these tanks will be treated as zero-gap tanks because the seals have met these requirements when the tanks were considered external floating roof.

## Table IV – BB.11
## Source-Specific Applicable Requirements
## NSPS Kb Fixed Roof Tanks with Vapor Recovery to Fuel Gas
## S135 (Tank 200), S360 (Tank 223), S445 (Tank 271), S449 (Tank 285)

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforce-able (Y/N) | Future Effective Date |
|---|---|---|---|
| **BAAQMD · Regulation 8, Rule 5** | **Organic Compounds, Storage of Organic Liquids (11/27/02) REQUIREMENTS FOR FIXED ROOF TANKS** | | |
| 8-5-111 | Limited Exemption, Tank Removal From and Return to Service | Y | |
| 8-5-111.1 | Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO | Y | |
| 8-5-111.1.1 | Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO; 3 day prior notification | Y | |
| 8-5-111.1.2 | Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO; Telephone notification | Y | |
| 8-5-111.2 | Limited Exemption, Tank Removal From and Return to Service; Compliance before notification | Y | |
| 8-5-111.4 | Limited Exemption, Tank Removal From and Return to Service; Use of vapor recovery | 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 | |
| 8-5-112.1 | Limited Exemption, Tanks in Operation; Notice to the APCO | Y | |
| 8-5-112.1.1 | Limited Exemption, Tanks in Operation; Notice to the APCO; 3 day prior notification | Y | |
| 8-5-112.1.2 | Limited Exemption, Tanks in Operation; Notice to the APCO; Telephone notification | Y | |
| 8-5-112.2 | Limited Exemption, Tanks in Operation; Compliance and certification before commencement of work | Y | |
| 8-5-112.3 | Limited Exemption, Tanks in Operation; No product movement; minimization of emissions | Y | |
| 8-5-112.4 | Limited Exemption, Tanks in Operation; Exemption does not exceed 7 days | Y | |
| 8-5-301 | Storage Tank Control Requirements (internal floating roof, external floating roof, or approved emission control system) | Y | |
| 8-5-303 | Requirements for Pressure Vacuum Valves | Y | |
| 8-5-303.1 | Requirements for Pressure Vacuum Valves; Set pressure | Y | |
| 8-5-303.2 | Requirements for Pressure Vacuum Valves; Installation, maintenance, operation | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – BB.11
## Source-Specific Applicable Requirements
### NSPS Kb Fixed Roof Tanks with Vapor Recovery to Fuel Gas
### S135 (Tank 200), S360 (Tank 223), S445 (Tank 271), S449 (Tank 285)

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforce-able (Y/N) | Future Effective Date |
|---|---|---|---|
| 8-5-306 | Requirements for Approved Emission Control Systems | 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 | |
| 8-5-403 | Inspection Requirements for Pressure Vacuum Valves | Y | |
| 8-5-404 | Certification | Y | |
| 8-5-501 | Records | Y | |
| 8-5-501.1 | Records; Type and amounts of liquid; true vapor pressure; Retain 24 months | Y | |
| 8-5-503 | Portable hydrocarbon detector | Y | |
| 8-5-602 | Analysis of Samples, True Vapor Pressure | Y | |
| 8-5-603 | Determination of emissions | Y | |
| 8-5-603.1 | Determination of Emissions; Organic compounds specified in 8-5-306 | Y | |
| 8-5-604 | Determination of Applicability | Y | |
| 8-5-605 | Pressure Vacuum Valve Gas Tight Determination | Y | |
| **40 CFR 60, Subpart Kb** | **Standards of Performance for Storage Vessels for Volatile Organic Liquid Storage Vessels for Which Construction, Reconstruction, or Modification Commenced After July 23, 1984 (12/14/2000) REQUIREMENTS FOR FIXED ROOF TANKS** | | |
| 60.110b(a) | Applicability and Designation of Affected Facility; Volatile organic liquid storage vessels > or = to 40 cu m, after 7/23/1984 | Y | |
| 60.112b(a)(3) | Standard for Volatile Organic Compounds (VOC); Closed vent system and control device | Y | |
| 60.112b(a)(3)(i) | Standard for Volatile Organic Compounds (VOC); Closed vent system and control device no detectable emissions per 60.485(b) (Subpart VV) | Y | |
| 60.112b(a)(3)(ii) | Standard for Volatile Organic Compounds (VOC); Closed vent system and control device >= 95% inlet VOC emission reduction | Y | |
| 60.113b(c) | Testing and Procedures; Closed vent system and control device (not flare) | Y | |
| 60.113b(c)(1) | Testing and Procedures; Closed vent system and control device (not flare) operating plan submission | Y | |
| 60.113b(c)(1)(i) | Testing and Procedures; Closed vent system and control device (not flare) operating plan--efficiency demonstration | Y | |
| 60.113b(c)(1)(ii) | Testing and Procedures; Closed vent system and control device (not flare) operating plan--monitoring parameters | Y | |
| 60.113b(c)(2) | Testing and Procedures; Closed vent system and control device (not flare) operate in accordance with operating plan | Y | |
| 60.115b | Reporting and Recordkeeping Requirements; 60.112b(a) tanks; Record retention | Y | |
| 60.115b(c) | Reporting and Recordkeeping Requirements; Closed vent system and control device (not flare) | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – BB.11
## Source-Specific Applicable Requirements
## NSPS Kb Fixed Roof Tanks with Vapor Recovery to Fuel Gas
## S135 (Tank 200), S360 (Tank 223), S445 (Tank 271), S449 (Tank 285)

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforce-able (Y/N) | Future Effective Date |
|---|---|---|---|
| 60.115b(c)(1) | Reporting and Recordkeeping Requirements; Closed vent system and control device (not flare) operating plan copy – Retain for life of control device | Y | |
| 60.115b(c)(2) | Reporting and Recordkeeping Requirements; Closed vent system and control device (not flare) operating records – Retain for at least 2 years | Y | |
| 60.116b(a) | Monitoring of Operations; Record retention | Y | |
| 60.116b(b) | Monitoring of Operations; Permanent record requirements | Y | |
| 60.116b(e) | Monitoring of Operations; Determine TVP | Y | |
| 60.116b(e)(2) | Monitoring of Operations; Determine TVP-crude oil or refined petroleum products | Y | |
| 60.116b(g) | Monitoring of Operations; Exemption from 60.116b(c) and 60.116b(d) for tanks with closed vent system and control device | Y | |
| **40 CFR 63, Subpart CC** | **National Emission Standards for Hazardous Air Pollutants for Petroleum Refineries (06/12/1996) EXEMPTION FOR TANKS VENTED TO FUEL GAS SYSTEM** | | |
| 63.640(c)(2) | Applicability and Designation of Storage Vessels | Y | |
| 63.640(d)(5) | Exemption for emission points routed to fuel gas system | Y | |
| **BAAQMD Condition 11219** | **APPLICABLE TO S449** | | |
| Part 1 | Requirement to vent emissions to fuel gas system [Basis: Cumulative Increase] | Y | |
| **BAAQMD Condition 12130** | **APPLICABLE TO S445** | | |
| Part 1 | Requirement to vent emissions to fuel gas system [Basis: Cumulative Increase] | Y | |
| **BAAQMD Condition 20989, Part A** | Throughput limits for sources S360 [Basis: 2-1-234.3] | Y | |
| **BAAQMD Condition 22518** | **APPLICABLE TO S135** | | |
| Part 1 | Vapor pressure limit [Cumulative increase] | Y | |
| Part 3 | Throughput limit [Cumulative increase] | Y | |
| Part 4 | Control requirement [Cumulative increase] | Y | |
| Part 5 | Prohibition on tank cleaning when switching products [Cumulative increase] | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – BB.12
## Source-Specific Applicable Requirements
## NSPS Kb Fixed Roof Tanks with Vapor Pressure >= 76.6 kPa (11 psia) with Vapor Recovery to Fuel Gas
## S446 (Tank 310), S447 (Tank 311)

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforce-able (Y/N) | Future Effective Date |
|---|---|---|---|
| **BAAQMD Regulation 8, Rule 5** | **Organic Compounds, Storage of Organic Liquids (11/27/02) REQUIREMENTS FOR FIXED ROOF TANKS** | | |
| 8-5-111 | Limited Exemption, Tank Removal From and Return to Service | Y | |
| 8-5-111.1 | Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO | Y | |
| 8-5-111.1.1 | Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO; 3 day prior notification | Y | |
| 8-5-111.1.2 | Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO; Telephone notification | Y | |
| 8-5-111.2 | Limited Exemption, Tank Removal From and Return to Service; Compliance before notification | Y | |
| 8-5-111.4 | Limited Exemption, Tank Removal From and Return to Service; Use of vapor recovery | 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 | |
| 8-5-112.1 | Limited Exemption, Tanks in Operation; Notice to the APCO | Y | |
| 8-5-112.1.1 | Limited Exemption, Tanks in Operation; Notice to the APCO; 3 day prior notification | Y | |
| 8-5-112.1.2 | Limited Exemption, Tanks in Operation; Notice to the APCO; Telephone notification | Y | |
| 8-5-112.2 | Limited Exemption, Tanks in Operation; Compliance and certification before commencement of work | Y | |
| 8-5-112.3 | Limited Exemption, Tanks in Operation; No product movement; minimization of emissions | Y | |
| 8-5-112.4 | Limited Exemption, Tanks in Operation; Exemption does not exceed 7 days | Y | |
| 8-5-301 | Storage Tank Control Requirements (internal floating roof, external floating roof, or approved emission control system) | Y | |
| 8-5-303 | Requirements for Pressure Vacuum Valves | Y | |
| 8-5-303.1 | Requirements for Pressure Vacuum Valves; Set pressure | Y | |
| 8-5-303.2 | Requirements for Pressure Vacuum Valves; Installation, maintenance, operation | Y | |
| 8-5-306 | Requirements for Approved Emission Control Systems | 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; | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – BB.12
## Source-Specific Applicable Requirements
## NSPS Kb Fixed Roof Tanks with Vapor Pressure >= 76.6 kPa (11 psia) with Vapor Recovery to Fuel Gas
## S446 (Tank 310), S447 (Tank 311)

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforce-able (Y/N) | Future Effective Date |
|---|---|---|---|
| | Concentration of <10,000 ppm as methane after degassing | | |
| 8-5-328.2 | Tank degassing requirements; Ozone excess day prohibition | Y | |
| 8-5-403 | Inspection Requirements for Pressure Vacuum Valves | Y | |
| 8-5-404 | Certification | Y | |
| 8-5-501 | Records | Y | |
| 8-5-501.1 | Records; Type and amounts of liquid; true vapor pressure; Retain 24 months | Y | |
| 8-5-503 | Portable hydrocarbon detector | Y | |
| 8-5-602 | Analysis of Samples, True Vapor Pressure | Y | |
| 8-5-603 | Determination of emissions | Y | |
| 8-5-603.1 | Determination of Emissions; Organic compounds specified in 8-5-306 | Y | |
| 8-5-604 | Determination of Applicability | Y | |
| 8-5-605 | Pressure Vacuum Valve Gas Tight Determination | Y | |
| **40 CFR 60, Subpart Kb** | **Standards of Performance for Storage Vessels for Volatile Organic Liquid Storage Vessels for Which Construction, Reconstruction, or Modification Commenced After July 23, 1984 (12/14/2000) REQUIREMENTS FOR FIXED ROOF TANKS** | | |
| 60.110b(a) | Applicability and Designation of Affected Facility; Volatile organic liquid storage vessels > or = to 40 cu m, after 7/23/1984 | Y | |
| 60.112b(a)(3) | Standard for Volatile Organic Compounds (VOC); Closed vent system and control device | Y | |
| 60.112b(a)(3)(i) | Standard for Volatile Organic Compounds (VOC); Closed vent system and control device no detectable emissions per 60.485(b) (Subpart VV) | Y | |
| 60.112b(a)(3)(ii) | Standard for Volatile Organic Compounds (VOC); Closed vent system and control device >= 95% inlet VOC emission reduction | Y | |
| 60.112b(b) | Standard for Volatile Organic Compounds (VOC); Requirements for tanks >= 75 cu m and maximum TVP >= 76.6 kPa (11.1 psia) | Y | |
| 60.112b(b)(1) | Standard for Volatile Organic Compounds (VOC); Closed vent system and control device option per 40 CFR60.112b(a)(3) | Y | |
| 60.113b(c) | Testing and Procedures; Closed vent system and control device (not flare) | Y | |
| 60.113b(c)(1) | Testing and Procedures; Closed vent system and control device (not flare) operating plan submission | Y | |
| 60.113b(c)(1)(i) | Testing and Procedures; Closed vent system and control device (not flare) operating plan--efficiency demonstration | Y | |
| 60.113b(c)(1)(ii) | Testing and Procedures; Closed vent system and control device (not flare) operating plan--monitoring parameters | Y | |
| 60.113b(c)(2) | Testing and Procedures; Closed vent system and control device (not flare) operate in accordance with operating plan | Y | |
| 60.115b | Reporting and Recordkeeping Requirements; 60.112b(a) tanks; Record retention | Y | |
| 60.115b(c) | Reporting and Recordkeeping Requirements; Closed vent system and | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – BB.12
## Source-Specific Applicable Requirements
## NSPS Kb Fixed Roof Tanks with Vapor Pressure >= 76.6 kPa (11 psia) with Vapor Recovery to Fuel Gas
## S446 (Tank 310), S447 (Tank 311)

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforce-able (Y/N) | Future Effective Date |
|---|---|---|---|
| | control device (not flare) | | |
| 60.115b(c)(1) | Reporting and Recordkeeping Requirements; Closed vent system and control device (not flare) operating plan copy – Retain for life of control device | Y | |
| 60.115b(c)(2) | Reporting and Recordkeeping Requirements; Closed vent system and control device (not flare) operating records – Retain for at least 2 years | Y | |
| 60.116b(a) | Monitoring of Operations; Record retention | Y | |
| 60.116b(b) | Monitoring of Operations; Permanent record requirements | Y | |
| 60.116b(e) | Monitoring of Operations; Determine TVP | Y | |
| 60.116b(e)(2) | Monitoring of Operations; Determine TVP-crude oil or refined petroleum products | Y | |
| 60.116b(g) | Monitoring of Operations; Exemption from 60.116b(c) and 60.116b(d) for tanks with closed vent system and control device | Y | |
| **40 CFR 63, Subpart CC** | **National Emission Standards for Hazardous Air Pollutants for Petroleum Refineries (8/18/95) EXEMPTION FOR TANKS VENTED TO FUEL GAS SYSTEM** | | |
| 63.640(c)(2) | Applicability and Designation of Storage Vessels | Y | |
| 63.640(d)(5) | Exemption for emission points routed to fuel gas system | Y | |
| **BAAQMD Condition 12131** | **APPLICABLE TO S446** | | |
| Part 1 | Requirement to vent emissions to fuel gas system [Basis: Cumulative Increase] | Y | |
| **BAAQMD Condition 12132** | **APPLICABLE TO S447** | | |
| Part 1 | Requirement to vent emissions to fuel gas system [Basis: Cumulative Increase] | Y | |

## Table IV – BB.13
## Source-Specific Applicable Requirements
## MACT Zero-Gap External Floating Roof Tanks
## S97 (Tank 100), S100 (Tank 103), S107 (Tank 150), S110 (Tank 155), S111 (Tank 156), S112 (Tank 157), S114 (Tank 159), S115 (Tank 160), S122 (Tank 167), S123 (Tank 168), S124 (Tank 169), S128 (Tank 174), S129 (Tank 180), S150 (Tank 241), S151 (Tank 242), S177 (Tank 287), S178 (Tank 288), S186 (Tank 298), S254 (Tank 1001), S255 (Tank 1002), S256 (Tank 1003), S259 (Tank 1006)

# IV. Source Specific Applicable Requirements

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforce-able (Y/N) | Future Effective Date |
|---|---|---|---|
| **BAAQMD Regulation 8, Rule 5** | **Organic Compounds, Storage of Organic Liquids (11/27/02) REQUIREMENTS FOR EXTERNAL FLOATING ROOF TANKS** | | |
| 8-5-111 | Limited Exemption, Tank Removal From and Return to Service | Y | |
| 8-5-111.1 | Limited Exemption, Tank Removal From and Return to Service, Notification | Y | |
| 8-5-111.1.1 | Limited Exemption, Tank Removal From and Return to Service, Notification, 3 day prior notification | Y | |
| 8-5-111.1.2 | Limited Exemption, Tank Removal From and Return to Service, Notification, Telephone notification | Y | |
| 8-5-111.2 | Limited Exemption, Tank Removal From and Return to Service, Tank in compliance prior to notification | Y | |
| 8-5-111.3 | Limited Exemption, Tank Removal From and Return to Service, Floating roof tanks | 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 | |
| 8-5-112.1 | Limited Exemption, Tanks in Operation, Notification | Y | |
| 8-5-112.1.1 | Limited Exemption, Tanks in Operation, Notification, 3 day prior notification | Y | |
| 8-5-112.1.2 | Limited Exemption, Tanks in Operation, Notification, Telephone notification | Y | |
| 8-5-112.2 | Limited Exemption, Tanks in Operation, Tank in compliance prior to start of work. Certified per 8-5-404 | Y | |
| 8-5-112.3 | Limited Exemption, Tanks in Operation, No product movement, Minimize emissions | Y | |
| 8-5-112.4 | Limited Exemption, Tanks in Operation, Not to exceed 7 days | Y | |
| 8-5-301 | Storage Tank Control Requirements (internal floating roof, external floating roof, or approved emission control system) | Y | |
| 8-5-303 | Requirements for Pressure Vacuum Valves (applies only to S107 (Tank 150), S110 (Tank 155), S115 (Tank 160), S123 (Tank 168), S128 (Tank 174), S129 (Tank 180), S178 (Tank 288)) | Y | |
| 8-5-303.1 | Requirements for Pressure Vacuum Valves; Set pressure (applies only to S107 (Tank 150), S110 (Tank 155), S115 (Tank 160), S123 (Tank 168), S128 (Tank 174), S129 (Tank 180), S178 (Tank 288)) | Y | |
| 8-5-303.2 | Requirements for Pressure Vacuum Valves; Installation, maintenance, operation (applies only to S107 (Tank 150), S110 (Tank 155), S115 (Tank 160), S123 (Tank 168), S128 (Tank 174), S129 (Tank 180), S178 (Tank 288)) | Y | |
| 8-5-304 | Requirements for External Floating Roofs | Y | |
| 8-5-304.1 | Requirements for External Floating Roofs; Tank fitting requirements | Y | |
| 8-5-304.2 | Requirements for External Floating Roofs; Primary seal requirements | Y | |
| 8-5-304.3 | Requirements for External Floating Roofs; Secondary seal requirements | Y | |
| 8-5-304.4 | Requirements for External Floating Roofs; Floating roof requirements | Y | |
| 8-5-320.2 | Tank Fitting Requirements; Floating roof tanks, Projection below | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – BB.13
## Source-Specific Applicable Requirements
## MACT ZERO-GAP EXTERNAL FLOATING ROOF TANKS
## S97 (TANK 100), S100 (TANK 103), S107 (TANK 150), S110 (TANK 155), S111 (TANK 156), S112 (TANK 157), S114 (TANK 159), S115 (TANK 160), S122 (TANK 167), S123 (TANK 168), S124 (TANK 169), S128 (TANK 174), S129 (TANK 180), S150 (TANK 241), S151 (TANK 242), S177 (TANK 287), S178 (TANK 288), S186 (TANK 298), S254 (TANK 1001), S255 (TANK 1002), S256 (TANK 1003), S259 (TANK 1006)

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforce-able (Y/N) | Future Effective Date |
|---|---|---|---|
| | liquid surface | | |
| 8-5-320.3 | Tank Fitting Requirements; Floating roof tanks, Gasketed covers, seals, lids | Y | |
| 8-5-320.3.1 | Tank Fitting Requirements; Floating roof tanks, Gasketed covers, seals, lids - Gap requirements | Y | |
| 8-5-320.4 | Tank Fitting Requirements; Solid sampling or gauging well requirements in floating roof tanks | Y | |
| 8-5-320.4.1 | Tank Fitting Requirements; Solid sampling or gauging well requirements-projection below liquid surface | Y | |
| 8-5-320.4.2 | Tank Fitting Requirements; Solid sampling or gauging well requirements-cover, seal, or lid | Y | |
| 8-5-320.4.3 | Tank Fitting Requirements; Solid sampling or gauging well requirements-gap between well and roof | Y | |
| 8-5-320.6 | Tank Fitting Requirements; Emergency roof drain | Y | |
| 8-5-321 | Primary Seal Requirements | Y | |
| 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 | Y | |
| 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 | Y | |
| 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; Welded external floating roof tanks with seals installed after 9/4/1985 or welded internal floating roof tanks with seals installed after 2/1/1993 | Y | |
| 8-5-322.6 | Secondary Seal Requirements; Extent of seal | 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 | |
| 8-5-401 | 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 | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – BB.13
## Source-Specific Applicable Requirements
## MACT ZERO-GAP EXTERNAL FLOATING ROOF TANKS
## S97 (TANK 100), S100 (TANK 103), S107 (TANK 150), S110 (TANK 155), S111 (TANK 156), S112 (TANK 157), S114 (TANK 159), S115 (TANK 160), S122 (TANK 167), S123 (TANK 168), S124 (TANK 169), S128 (TANK 174), S129 (TANK 180), S150 (TANK 241), S151 (TANK 242), S177 (TANK 287), S178 (TANK 288), S186 (TANK 298), S254 (TANK 1001), S255 (TANK 1002), S256 (TANK 1003), S259 (TANK 1006)

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforce-able (Y/N) | Future Effective Date |
|---|---|---|---|
| | Fittings Inspections | | |
| 8-5-403 | Inspection Requirements for Pressure Vacuum Valves (applies only to S107 (Tank 150), S110 (Tank 155), S115 (Tank 160), S123 (Tank 168), S128 (Tank 174), S129 (Tank 180), S178 (Tank 288)) | Y | |
| 8-5-404 | Certification | Y | |
| 8-5-405 | Information Required | Y | |
| 8-5-501 | Records | Y | |
| 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 | |
| 8-5-503 | Portable Hydrocarbon Detector | Y | |
| 8-5-602 | Analysis of Samples, True Vapor Pressure | Y | |
| 8-5-604 | Determination of Applicability | Y | |
| 8-5-605 | Pressure Vacuum Valve Gas Tight Determination (applies only to S107 (Tank 150), S110 (Tank 155), S115 (Tank 160), S123 (Tank 168), S128 (Tank 174), S129 (Tank 180), S178 (Tank 288)) | Y | |
| **40 CFR 63, Subpart G** | **SOCMI HON G (01/27/1995) REQUIREMENTS FOR EXTERNAL FLOATING ROOF TANKS** | | |
| 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 – metallic shoe or liquid-mounted | 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--Must float on liquid | Y | |
| 63.119(c)(3)(i) | Storage Vessel Provisions -- Reference Control Technology--External floating roof --Must float on liquid except during initial fill | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – BB.13
## Source-Specific Applicable Requirements
## MACT ZERO-GAP EXTERNAL FLOATING ROOF TANKS
## S97 (TANK 100), S100 (TANK 103), S107 (TANK 150), S110 (TANK 155), S111 (TANK 156), S112 (TANK 157), S114 (TANK 159), S115 (TANK 160), S122 (TANK 167), S123 (TANK 168), S124 (TANK 169), S128 (TANK 174), S129 (TANK 180), S150 (TANK 241), S151 (TANK 242), S177 (TANK 287), S178 (TANK 288), S186 (TANK 298), S254 (TANK 1001), S255 (TANK 1002), S256 (TANK 1003), S259 (TANK 1006)

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforce-able (Y/N) | Future Effective Date |
|---|---|---|---|
| 63.119(c)(3)(ii) | Storage Vessel Provisions -- Reference Control Technology-- External floating roof-- Must float on liquid except after completely emptied and degassed | Y | |
| 63.119(c)(3)(iii) | Storage Vessel Provisions -- Reference Control Technology-- External floating roof -- Must float on liquid except when completely emptied before refilling | 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 – 5 year intervals | Y | |
| 63.120(b)(1)(iii) | Storage Vessel Provisions -- Procedures to Determine Compliance--External FR with double seals - secondary seal gap measurement – annual requirement | Y | |
| 63.120(b)(1)(iv) | Storage Vessel Provisions -- Procedures to Determine Compliance--External FR seal inspections prior to tank refill with organic HAP after not storing organic HAP for 1 year or longer | Y | |
| 63.120(b)(2) | Storage Vessel Provisions -- Procedures to Determine Compliance--External FR seal gap determination methods | Y | |
| 63.120(b)(2)(i) | Storage Vessel Provisions -- Procedures to Determine Compliance--External FR seal gap determination methods – roof not resting on legs | Y | |
| 63.120(b)(2)(ii) | Storage Vessel Provisions -- Procedures to Determine Compliance--External FR seal gap determination methods – measure gaps around entire circumference of seal and measure width and length of gaps | Y | |
| 63.120(b)(2)(iii) | Storage Vessel Provisions -- Procedures to Determine Compliance--External FR seal gap determination methods – determine total surface area of each gap | Y | |
| 63.120(b)(3) | Storage Vessel Provisions -- Procedures to Determine Compliance--External FR primary seal gap calculation method – total surface area of primary seal gaps <= 212 cm2 per meter of vessel diameter. Maximum width <= 3.81 cm | Y | |
| 63.120(b)(4) | Storage Vessel Provisions -- Procedures to Determine Compliance--External FR secondary seal gap calculation method – total surface area of secondary seal gaps <= 21.2 cm2 per meter of vessel | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – BB.13
## Source-Specific Applicable Requirements
## MACT ZERO-GAP EXTERNAL FLOATING ROOF TANKS
## S97 (TANK 100), S100 (TANK 103), S107 (TANK 150), S110 (TANK 155), S111 (TANK 156), S112 (TANK 157), S114 (TANK 159), S115 (TANK 160), S122 (TANK 167), S123 (TANK 168), S124 (TANK 169), S128 (TANK 174), S129 (TANK 180), S150 (TANK 241), S151 (TANK 242), S177 (TANK 287), S178 (TANK 288), S186 (TANK 298), S254 (TANK 1001), S255 (TANK 1002), S256 (TANK 1003), S259 (TANK 1006)

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforce-able (Y/N) | Future Effective Date |
|---|---|---|---|
| | diameter. Maximum width <= 1.27 cm | | |
| 63.120(b)(5) | Storage Vessel Provisions -- Procedures to Determine Compliance--External FR primary seal additional requirements | Y | |
| 63.120(b)(5)(i) | Storage Vessel Provisions -- Procedures to Determine Compliance--External FR primary seal additional requirements – metallic shoe seal – shoe geometry | Y | |
| 63.120(b)(5)(ii) | Storage Vessel Provisions -- Procedures to Determine Compliance--External FR primary seal additional requirements – no holes, tears, or openings | 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 requirements – location and extent | Y | |
| 63.120(b)(6)(ii) | Storage Vessel Provisions -- Procedures to Determine Compliance--External FR secondary seal requirements - no holes, tears or openings | Y | |
| 63.120(b)(7) | Storage Vessel Provisions -- Procedures to Determine Compliance--External FR unsafe to perform seal measurements or inspect the tank | Y | |
| 63.120(b)(7)(i) | Storage Vessel Provisions -- Procedures to Determine Compliance--External FR unsafe to perform seal measurements or inspect the tank – complete measurements or inspection within 30 days after determining roof is unsafe or comply with 63.120(b)(7)(ii) | Y | |
| 63.120(b)(7)(ii) | Storage Vessel Provisions -- Procedures to Determine Compliance--External FR unsafe to perform seal measurements or inspect the tank – empty and remove vessel from service within 45 days after determining roof is unsafe or comply with 63.120(b)(7)(i). Two 30 day extensions are allowed to empty the tank. Decision to use extension must be documented. | Y | |
| 63.120(b)(8) | Storage Vessel Provisions -- Procedures to Determine Compliance External FR Repairs must be made within 45 days after identification or empty and remove tank from service. Two 30 day extensions are allowed to empty the tank. Decision to use extension must be documented. | 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 visual inspection each time emptied – Repair | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – BB.13
## Source-Specific Applicable Requirements
## MACT ZERO-GAP EXTERNAL FLOATING ROOF TANKS
## S97 (TANK 100), S100 (TANK 103), S107 (TANK 150), S110 (TANK 155), S111 (TANK 156), S112 (TANK 157), S114 (TANK 159), S115 (TANK 160), S122 (TANK 167), S123 (TANK 168), S124 (TANK 169), S128 (TANK 174), S129 (TANK 180), S150 (TANK 241), S151 (TANK 242), S177 (TANK 287), S178 (TANK 288), S186 (TANK 298), S254 (TANK 1001), S255 (TANK 1002), S256 (TANK 1003), S259 (TANK 1006)

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforce-able (Y/N) | Future Effective Date |
|---|---|---|---|
| | defects before refilling [does not apply to gaskets, slotted membranes, or sleeve seals for Group 1 Refinery MACT tanks per 63.646(e)] | | |
| 63.120(b)(10)(ii) | Storage Vessel Provisions -- Procedures to Determine Compliance-- External FR and seal visual inspection each time emptied – 30 day notification | Y | |
| 63.120(b)(10)(iii) | Storage Vessel Provisions -- Procedures to Determine Compliance-- External FR and seal visual inspection each time emptied –- Notification for unplanned | Y | |
| 63.123(a) | Storage Vessel Provisions -- Recordkeeping--Group 1 and Group 2 storage vessel dimensions and capacity. Keep for life of source. | Y | |
| 63.123(d) | Storage Vessel Provisions -- Recordkeeping--Group 1 External floating roof tank requirements - records of seal gap measurements (date, raw data, and required calculations) | Y | |
| 63.123(g) | Storage Vessel Provisions -- Recordkeeping, Extensions for emptying storage vessel – keep documentation specified | Y | |
| **40 CFR 63, Subpart CC** | **National Emission Standards for Hazardous Air Pollutants for Petroleum Refineries (06/12/1996) REQUIREMENTS FOR EXTERNAL FLOATING ROOF TANKS** | | |
| 63.640(c)(2) | Applicability and Designation of Storage Vessels | Y | |
| 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—63 Subpart G exclusions for storage vessels [EFRs exempt from 63.119(c)(2)] | Y | |
| 63.646(d) | Storage Vessel Provisions-References | 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—Exceptions for compliance with inspection requirements of 63.120 of Subpart G – Not required to comply with provisions for gaskets, slotted membranes, and sleeve seals. | 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-Covers or lids closed except when in use | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – BB.13
## Source-Specific Applicable Requirements
## MACT ZERO-GAP EXTERNAL FLOATING ROOF TANKS
## S97 (TANK 100), S100 (TANK 103), S107 (TANK 150), S110 (TANK 155), S111 (TANK 156), S112 (TANK 157), S114 (TANK 159), S115 (TANK 160), S122 (TANK 167), S123 (TANK 168), S124 (TANK 169), S128 (TANK 174), S129 (TANK 180), S150 (TANK 241), S151 (TANK 242), S177 (TANK 287), S178 (TANK 288), S186 (TANK 298), S254 (TANK 1001), S255 (TANK 1002), S256 (TANK 1003), S259 (TANK 1006)

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforce-able (Y/N) | Future Effective Date |
|---|---|---|---|
| 63.646(f)(2) | Storage Vessel Provisions-Group 1 floating roof requirements-Rim space vents requirements | Y | |
| 63.646(f)(3) | Storage Vessel Provisions-Group 1 floating roof requirements-Automatic bleeder vents requirements | Y | |
| 63.646(l) | Storage Vessel Provisions-State or local permitting agency notification requirements | Y | |
| 63.654(f) | Reporting and Recordkeeping Requirements-Notice of compliance status report requirements | Y | |
| 63.654(f)(1) | Reporting and Recordkeeping Requirements-Notice of compliance status report requirements | Y | |
| 63.654(f)(1)(i) | Reporting and Recordkeeping Requirements-Notice of compliance status report requirements-Reporting--storage vessels | Y | |
| 63.654(f)(1)(i)(A) | Reporting and Recordkeeping Requirements-Notice of compliance status report requirements-Reporting--storage vessels | Y | |
| 63.654(f)(1)(i)(A)(1) | Reporting and Recordkeeping Requirements-Notice of compliance status report requirements-Reporting--storage vessels | Y | |
| 63.654(g) | Periodic Reporting and Recordkeeping Requirements | Y | |
| 63.654(g)(1) | Periodic Reporting and Recordkeeping Requirements-storage vessels [Information related to gaskets, slotted membranes, and sleeve seals not required for storage vessels that are part of existing source] | Y | |
| 63.654(g)(3) | Periodic Reporting and Recordkeeping Requirements-storage vessels with external floating roofs | Y | |
| 63.654(g)(3)(i) | Periodic Reporting and Recordkeeping Requirements-storage vessels with external floating roofs-document results of each seal gap measurement | Y | |
| 63.654(g)(3)(ii) | Periodic Reporting and Recordkeeping Requirements-storage vessels with external floating roofs – extension documentation | Y | |
| 63.654(g)(3)(iii) | Periodic Reporting and Recordkeeping Requirements-storage vessels with external floating roofs – documentation of failures | Y | |
| 63.654(h)(2) | 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 – refilling Group 1 storage vessel. | Y | |
| 63.654(h)(2)(ii) | Reporting and Recordkeeping Requirements-Other reports-Storage vessel notification of inspections –Group 1 storage vessel seal gap measurements – 30 day notification [can be waived or modified by state or local]. | Y | |
| 63.654(h)(6) | Reporting and Recordkeeping Requirements-Other reports-Determination of Applicability | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – BB.13
## Source-Specific Applicable Requirements
## MACT ZERO-GAP EXTERNAL FLOATING ROOF TANKS
## S97 (TANK 100), S100 (TANK 103), S107 (TANK 150), S110 (TANK 155), S111 (TANK 156), S112 (TANK 157), S114 (TANK 159), S115 (TANK 160), S122 (TANK 167), S123 (TANK 168), S124 (TANK 169), S128 (TANK 174), S129 (TANK 180), S150 (TANK 241), S151 (TANK 242), S177 (TANK 287), S178 (TANK 288), S186 (TANK 298), S254 (TANK 1001), S255 (TANK 1002), S256 (TANK 1003), S259 (TANK 1006)

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforce-able (Y/N) | Future Effective Date |
|---|---|---|---|
| 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 – keep records specified in 63.123 (Subpart G) | Y | |
| 63.654(i)(1)(i) | Reporting and Recordkeeping Requirements-Recordkeeping for storage vessels– keep records specified in 63.123 (Subpart G) except records related to gaskets, slotted membranes, and sleeve seals for vessels in existing sources | Y | |
| 63.654(i)(4) | Reporting and Recordkeeping Requirements—Recordkeeping for storage vessels-Record retention – 5 years | Y | |
| **BAAQMD Condition 20989, Part A** | Throughput limits for sources S97, S100, S107, S110, S111, S112, S114, S115, S122, S128, S177, S254, S255, S256, S259 [Basis: 2-1-234.3] | N | |
| **BAAQMD Condition 20989, Part A** | Throughput limits for sources S129, S150, S151, S178 [Basis: 2-1-234.3] | Y | |
| **BAAQMD Condition 22478** | | | |
| Part 1 | Vapor pressure limit for S123 [Basis: cumulative increase] | Y | |
| Part 2 | Emissions limit for S124 [Basis: cumulative increase] | Y | |
| Part 3 | Emissions limit for S186 [Basis: cumulative increase] | Y | |
| Part 5 | Throughput limit for S123 [Basis: cumulative increase] | Y | |
| Part 7 | BACT equipment requirements for S123, S124, S186, and S334 [Basis: BACT, cumulative increase] | Y | |
| Part 8 | Emission calculations for S124 and S186 [Basis: cumulative increase] | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – BB.14
## Source-Specific Applicable Requirements
## NSPS K AND NSPS KA ZERO-GAP EXTERNAL FLOATING ROOF TANKS
## NSPS K - S334 (TANK 107),
## NSPS KA - S341 (TANK 208), S342 (TANK 209), S343 (TANK 210)

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforce-able (Y/N) | Future Effective Date |
|---|---|---|---|
| **BAAQMD Regulation 8, Rule 5** | **Organic Compounds, Storage of Organic Liquids (11/27/02) REQUIREMENTS FOR EXTERNAL FLOATING ROOF TANKS** | | |
| 8-5-111 | Limited Exemption, Tank Removal From and Return to Service | Y | |
| 8-5-111.1 | Limited Exemption, Tank Removal From and Return to Service, Notification | Y | |
| 8-5-111.1.1 | Limited Exemption, Tank Removal From and Return to Service, Notification, 3 day prior notification | Y | |
| 8-5-111.1.2 | Limited Exemption, Tank Removal From and Return to Service, Notification, Telephone notification | Y | |
| 8-5-111.2 | Limited Exemption, Tank Removal From and Return to Service, Tank in compliance prior to notification | Y | |
| 8-5-111.3 | Limited Exemption, Tank Removal From and Return to Service, Floating roof tanks | 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 | |
| 8-5-112.1 | Limited Exemption, Tanks in Operation, Notification | Y | |
| 8-5-112.1.1 | Limited Exemption, Tanks in Operation, Notification, 3 day prior notification | Y | |
| 8-5-112.1.2 | Limited Exemption, Tanks in Operation, Notification, Telephone notification | Y | |
| 8-5-112.2 | Limited Exemption, Tanks in Operation, Tank in compliance prior to start of work. Certified per 8-5-404 | Y | |
| 8-5-112.3 | Limited Exemption, Tanks in Operation, No product movement, Minimize emissions | Y | |
| 8-5-112.4 | Limited Exemption, Tanks in Operation, Not to exceed 7 days | 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 | |
| 8-5-304.1 | Requirements for External Floating Roofs; Tank fitting requirements | Y | |
| 8-5-304.2 | Requirements for External Floating Roofs; Primary seal requirements | Y | |
| 8-5-304.3 | Requirements for External Floating Roofs; Secondary seal requirements | 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 | |

# IV. Source Specific Applicable Requirements

## Table IV – BB.14
## Source-Specific Applicable Requirements
## NSPS K AND NSPS KA ZERO-GAP EXTERNAL FLOATING ROOF TANKS
## NSPS K - S334 (TANK 107),
## NSPS KA - S341 (TANK 208), S342 (TANK 209), S343 (TANK 210)

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforce-able (Y/N) | Future Effective Date |
|---|---|---|---|
| 8-5-320.3 | Tank Fitting Requirements; Floating roof tanks, Gasketed covers, seals, lids | Y | |
| 8-5-320.3.1 | Tank Fitting Requirements; Floating roof tanks, Gasketed covers, seals, lids - Gap requirements | Y | |
| 8-5-320.4 | Tank Fitting Requirements; Solid sampling or gauging well requirements in floating roof tanks | Y | |
| 8-5-320.4.1 | Tank Fitting Requirements; Solid sampling or gauging well requirements-projection below liquid surface | Y | |
| 8-5-320.4.2 | Tank Fitting Requirements; Solid sampling or gauging well requirements-cover, seal, or lid | Y | |
| 8-5-320.4.3 | Tank Fitting Requirements; Solid sampling or gauging well requirements-gap between well and roof | Y | |
| 8-5-320.6 | Tank Fitting Requirements; Emergency roof drain | Y | |
| 8-5-321 | Primary Seal Requirements | Y | |
| 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 | Y | |
| 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 | Y | |
| 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; Welded external floating roof tanks with seals installed after 9/4/1985 or welded internal floating roof tanks with seals installed after 2/1/1993 | Y | |
| 8-5-322.6 | Secondary Seal Requirements; Extent of seal | 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 | |
| 8-5-401 | 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 | |
| 8-5-501.1 | Records; Type and amounts of liquid, type of blanket gas, TVP - | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – BB.14
## Source-Specific Applicable Requirements
## NSPS K AND NSPS KA ZERO-GAP EXTERNAL FLOATING ROOF TANKS
## NSPS K - S334 (TANK 107),
## NSPS KA - S341 (TANK 208), S342 (TANK 209), S343 (TANK 210)

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforce-able (Y/N) | Future Effective Date |
|---|---|---|---|
| | Retain 24 months | | |
| 8-5-501.2 | Records; Internal and External Floating Roof Tanks, Seal Replacement Records - Retain 10 years | Y | |
| 8-5-503 | Portable Hydrocarbon Detector | Y | |
| 8-5-602 | Analysis of Samples, True Vapor Pressure | Y | |
| 8-5-604 | Determination of Applicability | Y | |
| **40 CFR 60, Subpart K** | **Standards of Performance for Storage Vessels for Volatile Organic Liquid Storage Vessels for Which Construction, Reconstruction, or Modification Commenced After June 11, 1973, and Prior to May 19, 1978 (4/4/1980) APPLIES TO S334 (Tank 107)** | | |
| 60.110(a) | Applicability and Designation of Affected Facility; Affected facility | Y | |
| 60.110(c)(2) | Applicability and Designation of Affected Facility-->65,000 gal after 6/11/1973 and before 5/19/1978. | Y | |
| 60.112(a)(1) | Standard for petroleum liquids above 1.5 psia and below 11.1 psia | Y | |
| 60.113(a) | Records of petroleum liquids, period of storage, and maximum true vapor pressure | Y | |
| 60.113(b) | Nomographs may be used | Y | |
| **40 CFR 60, Subpart Ka** | **Standards of Performance for Storage Vessels for Volatile Organic Liquid Storage Vessels for Which Construction, Reconstruction, or Modification Commenced After May 18, 1978, and Prior to July 23, 1984 (12/14/2000) APPLIES TO S341 (Tank 208), S342 (Tank 209), S343 (Tank 210)** | | |
| 60.110a(a) | Applicability and Designation of Affected Facility | Y | |
| **40 CFR 63, Subpart G** | **SOCMI HON G (01/27/1995) REQUIREMENTS FOR EXTERNAL FLOATING ROOF TANKS** | | |
| 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 – metallic shoe or liquid-mounted | Y | |
| 63.119(c)(1)(iii) | Storage Vessel Provisions -- Reference Control Technology-- External floating roof seal requirements | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – BB.14
## Source-Specific Applicable Requirements
## NSPS K AND NSPS KA ZERO-GAP EXTERNAL FLOATING ROOF TANKS
## NSPS K - S334 (TANK 107),
## NSPS KA - S341 (TANK 208), S342 (TANK 209), S343 (TANK 210)

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforce-able (Y/N) | Future Effective Date |
|---|---|---|---|
| 63.119(c)(3) | Storage Vessel Provisions -- Reference Control Technology-- External floating roof--Must float on liquid | Y | |
| 63.119(c)(3)(i) | Storage Vessel Provisions -- Reference Control Technology-- External floating roof --Must float on liquid except during initial fill | Y | |
| 63.119(c)(3)(ii) | Storage Vessel Provisions -- Reference Control Technology-- External floating roof-- Must float on liquid except after completely emptied and degassed | Y | |
| 63.119(c)(3)(iii) | Storage Vessel Provisions -- Reference Control Technology-- External floating roof -- Must float on liquid except when completely emptied before refilling | 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 – 5 year intervals | Y | |
| 63.120(b)(1)(iii) | Storage Vessel Provisions -- Procedures to Determine Compliance-- External FR with double seals - secondary seal gap measurement – annual requirement | Y | |
| 63.120(b)(1)(iv) | Storage Vessel Provisions -- Procedures to Determine Compliance-- External FR seal inspections prior to tank refill with organic HAP after not storing organic HAP for 1 year or longer | Y | |
| 63.120(b)(2) | Storage Vessel Provisions -- Procedures to Determine Compliance-- External FR seal gap determination methods | Y | |
| 63.120(b)(2)(i) | Storage Vessel Provisions -- Procedures to Determine Compliance-- External FR seal gap determination methods – roof not resting on legs | Y | |
| 63.120(b)(2)(ii) | Storage Vessel Provisions -- Procedures to Determine Compliance-- External FR seal gap determination methods – measure gaps around entire circumference of seal and measure width and length of gaps | Y | |
| 63.120(b)(2)(iii) | Storage Vessel Provisions -- Procedures to Determine Compliance-- External FR seal gap determination methods – determine total surface area of each gap | Y | |
| 63.120(b)(3) | Storage Vessel Provisions -- Procedures to Determine Compliance-- External FR primary seal gap calculation method – total surface area of primary seal gaps <= 212 cm2 per meter of vessel diameter. Maximum width <= 3.81 cm | Y | |
| 63.120(b)(4) | Storage Vessel Provisions -- Procedures to Determine Compliance-- External FR secondary seal gap calculation method – total surface area of secondary seal gaps <= 21.2 cm2 per meter of vessel diameter. Maximum width <= 1.27 cm | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – BB.14
## Source-Specific Applicable Requirements
## NSPS K AND NSPS KA ZERO-GAP EXTERNAL FLOATING ROOF TANKS
## NSPS K - S334 (TANK 107),
## NSPS KA - S341 (TANK 208), S342 (TANK 209), S343 (TANK 210)

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforce-able (Y/N) | Future Effective Date |
|---|---|---|---|
| 63.120(b)(5) | Storage Vessel Provisions -- Procedures to Determine Compliance-- External FR primary seal additional requirements | Y | |
| 63.120(b)(5)(i) | Storage Vessel Provisions -- Procedures to Determine Compliance-- External FR primary seal additional requirements – metallic shoe seal – shoe geometry | Y | |
| 63.120(b)(5)(ii) | Storage Vessel Provisions -- Procedures to Determine Compliance-- External FR primary seal additional requirements – no holes, tears, or openings | 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 requirements – location and extent | Y | |
| 63.120(b)(6)(ii) | Storage Vessel Provisions -- Procedures to Determine Compliance-- External FR secondary seal requirements - no holes, tears or openings | Y | |
| 63.120(b)(7) | Storage Vessel Provisions -- Procedures to Determine Compliance-- External FR unsafe to perform seal measurements or inspect the tank | Y | |
| 63.120(b)(7)(i) | Storage Vessel Provisions -- Procedures to Determine Compliance-- External FR unsafe to perform seal measurements or inspect the tank – complete measurements or inspection within 30 days after determining roof is unsafe or comply with 63.120(b)(7)(ii) | Y | |
| 63.120(b)(7)(ii) | Storage Vessel Provisions -- Procedures to Determine Compliance-- External FR unsafe to perform seal measurements or inspect the tank – empty and remove vessel from service within 45 days after determining roof is unsafe or comply with 63.120(b)(7)(i). Two 30 day extensions are allowed to empty the tank. Decision to use extension must be documented. | Y | |
| 63.120(b)(8) | Storage Vessel Provisions -- Procedures to Determine Compliance External FR Repairs must be made within 45 days after identification or empty and remove tank from service. Two 30 day extensions are allowed to empty the tank. Decision to use extension must be documented. | 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 visual inspection each time emptied – Repair defects before refilling [does not apply to gaskets, slotted membranes, or sleeve seals for Group 1 Refinery MACT tanks per 63.646(e) | Y | |
| 63.120(b)(10)(ii) | Storage Vessel Provisions -- Procedures to Determine Compliance-- External FR and seal visual inspection each time emptied – 30 day notification | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – BB.14
## Source-Specific Applicable Requirements
## NSPS K AND NSPS KA ZERO-GAP EXTERNAL FLOATING ROOF TANKS
## NSPS K - S334 (TANK 107),
## NSPS KA - S341 (TANK 208), S342 (TANK 209), S343 (TANK 210)

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforce-able (Y/N) | Future Effective Date |
|---|---|---|---|
| 63.120(b)(10)(iii) | Storage Vessel Provisions -- Procedures to Determine Compliance-- External FR and seal visual inspection each time emptied –- Notification for unplanned | Y | |
| 63.123(a) | Storage Vessel Provisions -- Recordkeeping--Group 1 and Group 2 storage vessel dimensions and capacity. Keep for life of source. | Y | |
| 63.123(d) | Storage Vessel Provisions -- Recordkeeping--Group 1 External floating roof tank requirements - records of seal gap measurements (date, raw data, and required calculations) | Y | |
| 63.123(g) | Storage Vessel Provisions -- Recordkeeping, Extensions for emptying storage vessel – keep documentation specified | Y | |
| **40 CFR 63, Subpart CC** | **National Emission Standards for Hazardous Air Pollutants for Petroleum Refineries (06/12/1996) REQUIREMENTS FOR EXTERNAL FLOATING ROOF TANKS ALSO SUBJECT TO NSPS Subparts K OR Ka** | | |
| 63.640(c)(2) | Applicability and Designation of Storage Vessels | Y | |
| 63.640(n)(5) | Applicability and Designation of Affected Source Overlap for Storage Vessels— Group 1 vessel also subject to NSPS, Subparts K or Ka only subject to 63 Subpart CC | Y | |
| 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—63 Subpart G exclusions for storage vessels [EFRs exempt from 63.119(c)(2)] | Y | |
| 63.646(d) | Storage Vessel Provisions-References | 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—Exceptions for compliance with inspection requirements of 63.120 of Subpart G – Not required to comply with provisions for gaskets, slotted membranes, and sleeve seals. | 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-Covers or lids closed except when in use | Y | |
| 63.646(f)(2) | Storage Vessel Provisions-Group 1 floating roof requirements-Rim space vents requirements | Y | |
| 63.646(f)(3) | Storage Vessel Provisions-Group 1 floating roof requirements-Automatic bleeder vents requirements | Y | |
| 63.646(l) | Storage Vessel Provisions-State or local permitting agency notification requirements | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – BB.14
## Source-Specific Applicable Requirements
## NSPS K AND NSPS KA ZERO-GAP EXTERNAL FLOATING ROOF TANKS
## NSPS K - S334 (TANK 107),
## NSPS KA - S341 (TANK 208), S342 (TANK 209), S343 (TANK 210)

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforce-able (Y/N) | Future Effective Date |
|---|---|---|---|
| 63.654(f) | Reporting and Recordkeeping Requirements-Notice of compliance status report requirements | Y | |
| 63.654(f)(1) | Reporting and Recordkeeping Requirements-Notice of compliance status report requirements | Y | |
| 63.654(f)(1)(i) | Reporting and Recordkeeping Requirements-Notice of compliance status report requirements-Reporting--storage vessels | Y | |
| 63.654(f)(1)(i)(A) | Reporting and Recordkeeping Requirements-Notice of compliance status report requirements-Reporting--storage vessels | Y | |
| 63.654(f)(1)(i)(A)(1) | Reporting and Recordkeeping Requirements-Notice of compliance status report requirements-Reporting--storage vessels | Y | |
| 63.654(g) | Periodic Reporting and Recordkeeping Requirements | Y | |
| 63.654(g)(1) | Periodic Reporting and Recordkeeping Requirements-storage vessels [Information related to gaskets, slotted membranes, and sleeve seals not required for storage vessels that are part of existing source] | Y | |
| 63.654(g)(3) | Periodic Reporting and Recordkeeping Requirements-storage vessels with external floating roofs | Y | |
| 63.654(g)(3)(i) | Periodic Reporting and Recordkeeping Requirements-storage vessels with external floating roofs-document results of each seal gap measurement | Y | |
| 63.654(g)(3)(ii) | Periodic Reporting and Recordkeeping Requirements-storage vessels with external floating roofs – extension documentation | Y | |
| 63.654(g)(3)(iii) | Periodic Reporting and Recordkeeping Requirements-storage vessels with external floating roofs – documentation of failures | Y | |
| 63.654(h)(2) | 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 – refilling Group 1 storage vessel. | Y | |
| 63.654(h)(2)(ii) | Reporting and Recordkeeping Requirements-Other reports-Storage vessel notification of inspections –Group 1 storage vessel seal gap measurements – 30 day notification [can be waived or modified by state or local]. | 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 – keep records specified in 63.123 (Subpart G) | Y | |
| 63.654(i)(1)(i) | Reporting and Recordkeeping Requirements-Recordkeeping for storage vessels– keep records specified in 63.123 (Subpart G) except records related to gaskets, slotted membranes, and sleeve seals for vessels in existing sources | Y | |
| 63.654(i)(4) | Reporting and Recordkeeping Requirements—Recordkeeping for | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – BB.14
## Source-Specific Applicable Requirements
## NSPS K AND NSPS KA ZERO-GAP EXTERNAL FLOATING ROOF TANKS
## NSPS K - S334 (TANK 107),
## NSPS KA - S341 (TANK 208), S342 (TANK 209), S343 (TANK 210)

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforce-able (Y/N) | Future Effective Date |
|---|---|---|---|
| | storage vessels-Record retention – 5 years | | |
| **BAAQMD Condition 22478** | | | |
| Part 4 | Vapor pressure limit [Basis: cumulative increase] | Y | |
| Part 6 | Throughput limit for S334 [Basis: cumulative increase] | Y | |
| Part 7 | BACT equipment requirements for S123, S124, S186, and S334 [Basis: BACT, cumulative increase] | Y | |

## Table IV – BB.15a
## Source-Specific Applicable Requirements
## MACT FIXED ROOF TANKS WITH VAPOR RECOVERY TO FUEL GAS
## S137 (Tank 202), S139 (Tank 204), S140 (Tank 205)

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforce-able (Y/N) | Future Effective Date |
|---|---|---|---|
| **BAAQMD Regulation 8, Rule 5** | **Organic Compounds, Storage of Organic Liquids (11/27/02) REQUIREMENTS FOR FIXED ROOF TANKS** | | |
| 8-5-111 | Limited Exemption, Tank Removal From and Return to Service | Y | |
| 8-5-111.1 | Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO | Y | |
| 8-5-111.1.1 | Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO; 3 day prior notification | Y | |
| 8-5-111.1.2 | Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO; Telephone notification | Y | |
| 8-5-111.2 | Limited Exemption, Tank Removal From and Return to Service; Compliance before notification | Y | |
| 8-5-111.4 | Limited Exemption, Tank Removal From and Return to Service; Use of vapor recovery | 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 | |
| 8-5-112.1 | Limited Exemption, Tanks in Operation; Notice to the APCO | Y | |
| 8-5-112.1.1 | Limited Exemption, Tanks in Operation; Notice to the APCO; 3 day prior notification | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – BB.15a
## Source-Specific Applicable Requirements
## MACT FIXED ROOF TANKS WITH VAPOR RECOVERY TO FUEL GAS
## S137 (Tank 202), S139 (Tank 204), S140 (Tank 205)

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforce-able (Y/N) | Future Effective Date |
|---|---|---|---|
| 8-5-112.1.2 | Limited Exemption, Tanks in Operation; Notice to the APCO; Telephone notification | Y | |
| 8-5-112.2 | Limited Exemption, Tanks in Operation; Compliance and certification before commencement of work | Y | |
| 8-5-112.3 | Limited Exemption, Tanks in Operation; No product movement; minimization of emissions | Y | |
| 8-5-112.4 | Limited Exemption, Tanks in Operation; Exemption does not exceed 7 days | Y | |
| 8-5-301 | Storage Tank Control Requirements (internal floating roof, external floating roof, or approved emission control system) | Y | |
| 8-5-303 | Requirements for Pressure Vacuum Valves | Y | |
| 8-5-303.1 | Requirements for Pressure Vacuum Valves; Set pressure | Y | |
| 8-5-303.2 | Requirements for Pressure Vacuum Valves; Installation, maintenance, operation | Y | |
| 8-5-306 | Requirements for Approved Emission Control Systems | 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 | |
| 8-5-403 | Inspection Requirements for Pressure Vacuum Valves | Y | |
| 8-5-404 | Certification | Y | |
| 8-5-501 | Records | Y | |
| 8-5-501.1 | Records; Type and amounts of liquid; true vapor pressure; Retain 24 months | Y | |
| 8-5-503 | Portable hydrocarbon detector | Y | |
| 8-5-602 | Analysis of Samples, True Vapor Pressure | Y | |
| 8-5-603 | Determination of emissions | Y | |
| 8-5-603.1 | Determination of Emissions; Organic compounds specified in 8-5-306 | Y | |
| 8-5-604 | Determination of Applicability | Y | |
| 8-5-605 | Pressure Vacuum Valve Gas Tight Determination | Y | |
| **BAAQMD · Regulation 8, Rule 8** | **Organic Compounds, Wastewater (Oil-Water Separators) (9/15/2004)** | | |
| 8-8-302 | Wastewater Separators Larger than or Equal to 18.9 Liters per Second | N | |
| 8-8-302.3 | Requirements for separators with fixed roofs and control device | Y | |
| 8-8-303 | Gauging and Sampling Devices | Y | |
| 8-8-503 | Inspection and Repair Records | Y | |
| 8-8-504 | Portable Hydrocarbon Detector | Y | |
| 8-8-505 | Records for Wastewater Collection System Components at Petroleum Refineries | N | |
| 8-8-603 | Inspection procedures | N | |

# IV. Source Specific Applicable Requirements

## Table IV – BB.15a
## Source-Specific Applicable Requirements
## MACT FIXED ROOF TANKS WITH VAPOR RECOVERY TO FUEL GAS
## S137 (Tank 202), S139 (Tank 204), S140 (Tank 205)

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforce-able (Y/N) | Future Effective Date |
|---|---|---|---|
| **SIP Regulation 8, Rule 8** | **Organic Compounds, Wastewater (Oil-Water Separators) (8/29/94)** | | |
| 8-8-505 | Records for Wastewater Collection System Components at Petroleum Refineries | Y | |
| **40 CFR 60, Subpart K** | **Standards of Performance for Storage Vessels for Volatile Organic Liquid Storage Vessels for Which Construction, Reconstruction, or Modification Commenced After June 11, 1973, and Prior to May 19, 1978 (4/4/1980)**<br>**EXEMPTION FOR TANKS NOT CONTAINING PETROLEUM LIQUIDS (Applicable to S139 only)** | | |
| 60.111(b) | Definitions: Petroleum liquids | Y | |
| **40 CFR 63, Subpart CC** | **National Emission Standards for Hazardous Air Pollutants for Petroleum Refineries (8/18/95)**<br>**EXEMPTION FOR TANKS VENTED TO FUEL GAS SYSTEM** | | |
| 63.640(c)(2) | Applicability and Designation of Storage Vessels | Y | |
| 63.640(d)(5) | Exemption for emission points routed to fuel gas system | Y | |
| **BAAQMD Condition 20989, Part A** | Throughput limits for sources S139, S140 [Basis: 2-1-234.3] | N | |
| **BAAQMD Condition 22518** | **APPLICABLE TO S137** | | |
| Part 2 | Vapor pressure limit [Cumulative increase] | Y | |
| Part 3 | Throughput limit [Cumulative increase] | Y | |
| Part 4 | Control requirement [Cumulative increase] | Y | |
| Part 5 | Prohibition on tank cleaning when switching products [Cumulative increase] | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – BB.15b
## Source-Specific Applicable Requirements
## MACT FIXED ROOF TANKS WITH VAPOR RECOVERY TO FUEL GAS
## S182 (Tank 294)

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforce-able (Y/N) | Future Effective Date |
|---|---|---|---|
| **BAAQMD Regulation 8, Rule 5** | **Organic Compounds, Storage of Organic Liquids (11/27/02) REQUIREMENTS FOR FIXED ROOF TANKS** | | |
| 8-5-111 | Limited Exemption, Tank Removal From and Return to Service | Y | |
| 8-5-111.1 | Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO | Y | |
| 8-5-111.1.1 | Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO; 3 day prior notification | Y | |
| 8-5-111.1.2 | Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO; Telephone notification | Y | |
| 8-5-111.2 | Limited Exemption, Tank Removal From and Return to Service; Compliance before notification | Y | |
| 8-5-111.4 | Limited Exemption, Tank Removal From and Return to Service; Use of vapor recovery | 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 | |
| 8-5-112.1 | Limited Exemption, Tanks in Operation; Notice to the APCO | Y | |
| 8-5-112.1.1 | Limited Exemption, Tanks in Operation; Notice to the APCO; 3 day prior notification | Y | |
| 8-5-112.1.2 | Limited Exemption, Tanks in Operation; Notice to the APCO; Telephone notification | Y | |
| 8-5-112.2 | Limited Exemption, Tanks in Operation; Compliance and certification before commencement of work | Y | |
| 8-5-112.3 | Limited Exemption, Tanks in Operation; No product movement; minimization of emissions | Y | |
| 8-5-112.4 | Limited Exemption, Tanks in Operation; Exemption does not exceed 7 days | Y | |
| 8-5-301 | Storage Tank Control Requirements (internal floating roof, external floating roof, or approved emission control system) | Y | |
| 8-5-303 | Requirements for Pressure Vacuum Valves | Y | |
| 8-5-303.1 | Requirements for Pressure Vacuum Valves; Set pressure | Y | |
| 8-5-303.2 | Requirements for Pressure Vacuum Valves; Installation, maintenance, operation | Y | |
| 8-5-306 | Requirements for Approved Emission Control Systems | 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 | |

# IV. Source Specific Applicable Requirements

## Table IV – BB.15b
## Source-Specific Applicable Requirements
## MACT FIXED ROOF TANKS WITH VAPOR RECOVERY TO FUEL GAS
## S182 (Tank 294)

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforce-able (Y/N) | Future Effective Date |
|---|---|---|---|
| 8-5-328.2 | Tank degassing requirements; Ozone excess day prohibition | Y | |
| 8-5-403 | Inspection Requirements for Pressure Vacuum Valves | Y | |
| 8-5-404 | Certification | Y | |
| 8-5-501 | Records | Y | |
| 8-5-501.1 | Records; Type and amounts of liquid; true vapor pressure; Retain 24 months | Y | |
| 8-5-503 | Portable hydrocarbon detector | Y | |
| 8-5-602 | Analysis of Samples, True Vapor Pressure | Y | |
| 8-5-603 | Determination of emissions | Y | |
| 8-5-603.1 | Determination of Emissions; Organic compounds specified in 8-5-306 | Y | |
| 8-5-604 | Determination of Applicability | Y | |
| 8-5-605 | Pressure Vacuum Valve Gas Tight Determination | Y | |
| **40 CFR 63, Subpart CC** | **National Emission Standards for Hazardous Air Pollutants for Petroleum Refineries (8/18/95) EXEMPTION FOR TANKS VENTED TO FUEL GAS SYSTEM** | | |
| 63.640(c)(2) | Applicability and Designation of Storage Vessels | Y | |
| 63.640(d)(5) | Exemption for emission points routed to fuel gas system | Y | |
| **BAAQMD Condition 13184** | | | |
| Part 1 | Requirement to vent emissions to fuel gas system [Basis: Cumulative Increase] | Y | |

## Table IV – BB.16
## Source-Specific Applicable Requirements
## MACT ZERO-GAP EXTERNAL FLOATING ROOF WASTEWATER SLOP OIL TANK
## S133 (TANK 193)

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforce-able (Y/N) | Future Effective Date |
|---|---|---|---|
| **BAAQMD Regulation 8, Rule 5** | **Organic Compounds, Storage of Organic Liquids (11/27/02) REQUIREMENTS FOR EXTERNAL FLOATING ROOF TANKS** | | |
| 8-5-111 | Limited Exemption, Tank Removal From and Return to Service | Y | |
| 8-5-111.1 | Limited Exemption, Tank Removal From and Return to Service, Notification | Y | |
| 8-5-111.1.1 | Limited Exemption, Tank Removal From and Return to Service, Notification, 3 day prior notification | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – BB.16
## Source-Specific Applicable Requirements
## MACT ZERO-GAP EXTERNAL FLOATING ROOF WASTEWATER SLOP OIL TANK
## S133 (TANK 193)

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforce-able (Y/N) | Future Effective Date |
|---|---|---|---|
| 8-5-111.1.2 | Limited Exemption, Tank Removal From and Return to Service, Notification, Telephone notification | Y | |
| 8-5-111.2 | Limited Exemption, Tank Removal From and Return to Service, Tank in compliance prior to notification | Y | |
| 8-5-111.3 | Limited Exemption, Tank Removal From and Return to Service, Floating roof tanks | 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 | |
| 8-5-112.1 | Limited Exemption, Tanks in Operation, Notification | Y | |
| 8-5-112.1.1 | Limited Exemption, Tanks in Operation, Notification, 3 day prior notification | Y | |
| 8-5-112.1.2 | Limited Exemption, Tanks in Operation, Notification, Telephone notification | Y | |
| 8-5-112.2 | Limited Exemption, Tanks in Operation, Tank in compliance prior to start of work. Certified per 8-5-404 | Y | |
| 8-5-112.3 | Limited Exemption, Tanks in Operation, No product movement, Minimize emissions | Y | |
| 8-5-112.4 | Limited Exemption, Tanks in Operation, Not to exceed 7 days | Y | |
| 8-5-301 | Storage Tank Control Requirements (internal floating roof, external floating roof, or approved emission control system) | Y | |
| 8-5-303 | Requirements for Pressure Vacuum Valves | Y | |
| 8-5-303.1 | Requirements for Pressure Vacuum Valves; Set pressure | Y | |
| 8-5-303.2 | Requirements for Pressure Vacuum Valves; Installation, maintenance, operation | Y | |
| 8-5-304 | Requirements for External Floating Roofs | Y | |
| 8-5-304.1 | Requirements for External Floating Roofs; Tank fitting requirements | Y | |
| 8-5-304.2 | Requirements for External Floating Roofs; Primary seal requirements | Y | |
| 8-5-304.3 | Requirements for External Floating Roofs; Secondary seal requirements | Y | |
| 8-5-304.4 | Requirements for External Floating Roofs; Floating roof requirements | 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 | |
| 8-5-320.3.1 | Tank Fitting Requirements; Floating roof tanks, Gasketed covers, seals, lids - Gap requirements | Y | |
| 8-5-320.4 | Tank Fitting Requirements; Solid sampling or gauging well requirements in floating roof tanks | Y | |
| 8-5-320.4.1 | Tank Fitting Requirements; Solid sampling or gauging well | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – BB.16
## Source-Specific Applicable Requirements
## MACT ZERO-GAP EXTERNAL FLOATING ROOF WASTEWATER SLOP OIL TANK
## S133 (TANK 193)

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforce-able (Y/N) | Future Effective Date |
|---|---|---|---|
| | requirements-projection below liquid surface | | |
| 8-5-320.4.2 | Tank Fitting Requirements; Solid sampling or gauging well requirements-cover, seal, or lid | Y | |
| 8-5-320.4.3 | Tank Fitting Requirements; Solid sampling or gauging well requirements-gap between well and roof | Y | |
| 8-5-320.6 | Tank Fitting Requirements; Emergency roof drain | Y | |
| 8-5-321 | Primary Seal Requirements | Y | |
| 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 | Y | |
| 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 | Y | |
| 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; Welded external floating roof tanks with seals installed after 9/4/1985 or welded internal floating roof tanks with seals installed after 2/1/1993 | Y | |
| 8-5-322.6 | Secondary Seal Requirements; Extent of seal | 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 | |
| 8-5-401 | 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 | |
| 8-5-403 | Inspection Requirements for Pressure Vacuum Valves | Y | |
| 8-5-404 | Certification | Y | |
| 8-5-405 | Information Required | Y | |
| 8-5-501 | Records | Y | |
| 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 | |
| 8-5-503 | Portable Hydrocarbon Detector | Y | |
| 8-5-602 | Analysis of Samples, True Vapor Pressure | Y | |
| 8-5-604 | Determination of Applicability | Y | |
| 8-5-605 | Pressure Vacuum Valve Gas Tight Determination | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – BB.16
## Source-Specific Applicable Requirements
## MACT ZERO-GAP EXTERNAL FLOATING ROOF WASTEWATER SLOP OIL TANK
## S133 (TANK 193)

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforce-able (Y/N) | Future Effective Date |
|---|---|---|---|
| **BAAQMD · Regulation 8, Rule 8** | **Organic Compounds, Wastewater (Oil-Water Separators) (6/15/1994) REQUIREMENTS FOR SLOP OIL VESSELS** | | |
| 8-8-113 | Exemption, Secondary Wastewater Treatment Processes and Stormwater Sewer Systems (segregated) are exempt from 8-8-301, 8-8-302, 8-8-306, 8-8-308 | Y | |
| 8-8-303 | Standards; Gauging and Sampling Devices | Y | |
| 8-8-305 | Standards: Oil-Water Separator and/or Air Flotation Unit Slop Oil Vessels | Y | |
| 8-8-305.1 | Standards: Oil-Water Separator and/or Air Flotation Unit Slop Oil Vessels – fixed cover requirements | Y | |
| 8-8-503 | Monitoring and Records; Inspection and Records | Y | |
| 8-8-504 | Monitoring and Records; Portable Hydrocarbon Detector | Y | |
| 8-8-603 | Manual of Procedures; Inspection procedures | Y | |
| **40 CFR 63, Subpart G** | **SOCMI HON G (01/27/1995) REQUIREMENTS FOR EXTERNAL FLOATING ROOF TANKS** | | |
| 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 – metallic shoe or liquid-mounted | 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--Must float on liquid | Y | |
| 63.119(c)(3)(i) | Storage Vessel Provisions -- Reference Control Technology-- External floating roof --Must float on liquid except during initial fill | Y | |
| 63.119(c)(3)(ii) | Storage Vessel Provisions -- Reference Control Technology-- External floating roof-- Must float on liquid except after completely emptied and degassed | Y | |
| 63.119(c)(3)(iii) | Storage Vessel Provisions -- Reference Control Technology-- External floating roof -- Must float on liquid except when completely emptied before refilling | 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-- | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – BB.16
## Source-Specific Applicable Requirements
## MACT ZERO-GAP EXTERNAL FLOATING ROOF WASTEWATER SLOP OIL TANK
## S133 (TANK 193)

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforce-able (Y/N) | Future Effective Date |
|---|---|---|---|
| | Compliance Demonstration--External floating roof | | |
| 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 – 5 year intervals | Y | |
| 63.120(b)(1)(iii) | Storage Vessel Provisions -- Procedures to Determine Compliance--External FR with double seals - secondary seal gap measurement – annual requirement | Y | |
| 63.120(b)(1)(iv) | Storage Vessel Provisions -- Procedures to Determine Compliance--External FR seal inspections prior to tank refill with organic HAP after not storing organic HAP for 1 year or longer | Y | |
| 63.120(b)(2) | Storage Vessel Provisions -- Procedures to Determine Compliance--External FR seal gap determination methods | Y | |
| 63.120(b)(2)(i) | Storage Vessel Provisions -- Procedures to Determine Compliance--External FR seal gap determination methods – roof not resting on legs | Y | |
| 63.120(b)(2)(ii) | Storage Vessel Provisions -- Procedures to Determine Compliance--External FR seal gap determination methods – measure gaps around entire circumference of seal and measure width and length of gaps | Y | |
| 63.120(b)(2)(iii) | Storage Vessel Provisions -- Procedures to Determine Compliance--External FR seal gap determination methods – determine total surface area of each gap | Y | |
| 63.120(b)(3) | Storage Vessel Provisions -- Procedures to Determine Compliance--External FR primary seal gap calculation method – total surface area of primary seal gaps <= 212 cm2 per meter of vessel diameter. Maximum width <= 3.81 cm | Y | |
| 63.120(b)(4) | Storage Vessel Provisions -- Procedures to Determine Compliance--External FR secondary seal gap calculation method – total surface area of secondary seal gaps <= 21.2 cm2 per meter of vessel diameter. Maximum width <= 1.27 cm | Y | |
| 63.120(b)(5) | Storage Vessel Provisions -- Procedures to Determine Compliance--External FR primary seal additional requirements | Y | |
| 63.120(b)(5)(i) | Storage Vessel Provisions -- Procedures to Determine Compliance--External FR primary seal additional requirements – metallic shoe seal – shoe geometry | Y | |
| 63.120(b)(5)(ii) | Storage Vessel Provisions -- Procedures to Determine Compliance--External FR primary seal additional requirements – no holes, tears, or openings | 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 requirements – location and extent | Y | |
| 63.120(b)(6)(ii) | Storage Vessel Provisions -- Procedures to Determine Compliance--External FR secondary seal requirements - no holes, tears or | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – BB.16
## Source-Specific Applicable Requirements
## MACT ZERO-GAP EXTERNAL FLOATING ROOF WASTEWATER SLOP OIL TANK
## S133 (TANK 193)

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforce-able (Y/N) | Future Effective Date |
|---|---|---|---|
| | openings | | |
| 63.120(b)(7) | Storage Vessel Provisions -- Procedures to Determine Compliance--External FR unsafe to perform seal measurements or inspect the tank | Y | |
| 63.120(b)(7)(i) | Storage Vessel Provisions -- Procedures to Determine Compliance--External FR unsafe to perform seal measurements or inspect the tank – complete measurements or inspection within 30 days after determining roof is unsafe or comply with 63.120(b)(7)(ii) | Y | |
| 63.120(b)(7)(ii) | Storage Vessel Provisions -- Procedures to Determine Compliance--External FR unsafe to perform seal measurements or inspect the tank – empty and remove vessel from service within 45 days after determining roof is unsafe or comply with 63.120(b)(7)(i). Two 30 day extensions are allowed to empty the tank. Decision to use extension must be documented. | Y | |
| 63.120(b)(8) | Storage Vessel Provisions -- Procedures to Determine Compliance External FR Repairs must be made within 45 days after identification or empty and remove tank from service. Two 30 day extensions are allowed to empty the tank. Decision to use extension must be documented. | 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 visual inspection each time emptied – Repair defects before refilling [does not apply to gaskets, slotted membranes, or sleeve seals for Group 1 Refinery MACT tanks per 63.646(e)] | Y | |
| 63.120(b)(10)(ii) | Storage Vessel Provisions -- Procedures to Determine Compliance--External FR and seal visual inspection each time emptied – 30 day notification | Y | |
| 63.120(b)(10)(iii) | Storage Vessel Provisions -- Procedures to Determine Compliance--External FR and seal visual inspection each time emptied –- Notification for unplanned | Y | |
| 63.123(a) | Storage Vessel Provisions -- Recordkeeping--Group 1 and Group 2 storage vessel dimensions and capacity. Keep for life of source. | Y | |
| 63.123(d) | Storage Vessel Provisions -- Recordkeeping--Group 1 External floating roof tank requirements - records of seal gap measurements (date, raw data, and required calculations) | Y | |
| 63.123(g) | Storage Vessel Provisions -- Recordkeeping, Extensions for emptying storage vessel – keep documentation specified | Y | |
| **40 CFR 63, Subpart CC** | **National Emission Standards for Hazardous Air Pollutants for Petroleum Refineries (06/12/1996)**<br>**REQUIREMENTS FOR EXTERNAL FLOATING ROOF TANKS** | | |
| 63.640(c)(2) | Applicability and Designation of Storage Vessels | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – BB.16
## Source-Specific Applicable Requirements
## MACT ZERO-GAP EXTERNAL FLOATING ROOF WASTEWATER SLOP OIL TANK
## S133 (TANK 193)

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforce-able (Y/N) | Future Effective Date |
|---|---|---|---|
| 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—63 Subpart G exclusions for storage vessels [EFRs exempt from 63.119(c)(2)] | Y | |
| 63.646(d) | Storage Vessel Provisions-References | 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—Exceptions for compliance with inspection requirements of 63.120 of Subpart G – Not required to comply with provisions for gaskets, slotted membranes, and sleeve seals. | 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-Covers or lids closed except when in use | Y | |
| 63.646(f)(2) | Storage Vessel Provisions-Group 1 floating roof requirements-Rim space vents requirements | Y | |
| 63.646(f)(3) | Storage Vessel Provisions-Group 1 floating roof requirements-Automatic bleeder vents requirements | Y | |
| 63.646(l) | Storage Vessel Provisions-State or local permitting agency notification requirements | Y | |
| 63.654(f) | Reporting and Recordkeeping Requirements-Notice of compliance status report requirements | Y | |
| 63.654(f)(1) | Reporting and Recordkeeping Requirements-Notice of compliance status report requirements | Y | |
| 63.654(f)(1)(i) | Reporting and Recordkeeping Requirements-Notice of compliance status report requirements-Reporting--storage vessels | Y | |
| 63.654(f)(1)(i)(A) | Reporting and Recordkeeping Requirements-Notice of compliance status report requirements-Reporting--storage vessels | Y | |
| 63.654(f)(1)(i)(A)(1) | Reporting and Recordkeeping Requirements-Notice of compliance status report requirements-Reporting--storage vessels | Y | |
| 63.654(g) | Periodic Reporting and Recordkeeping Requirements | Y | |
| 63.654(g)(1) | Periodic Reporting and Recordkeeping Requirements-storage vessels [Information related to gaskets, slotted membranes, and sleeve seals not required for storage vessels that are part of existing source] | Y | |
| 63.654(g)(3) | Periodic Reporting and Recordkeeping Requirements-storage vessels with external floating roofs | Y | |
| 63.654(g)(3)(i) | Periodic Reporting and Recordkeeping Requirements-storage vessels with external floating roofs-document results of each seal gap measurement | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – BB.16
## Source-Specific Applicable Requirements
## MACT ZERO-GAP EXTERNAL FLOATING ROOF WASTEWATER SLOP OIL TANK
## S133 (TANK 193)

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforce-able (Y/N) | Future Effective Date |
|---|---|---|---|
| 63.654(g)(3)(ii) | Periodic Reporting and Recordkeeping Requirements-storage vessels with external floating roofs – extension documentation | Y | |
| 63.654(g)(3)(iii) | Periodic Reporting and Recordkeeping Requirements-storage vessels with external floating roofs – documentation of failures | Y | |
| 63.654(h)(2) | 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 – refilling Group 1 storage vessel. | Y | |
| 63.654(h)(2)(ii) | Reporting and Recordkeeping Requirements-Other reports-Storage vessel notification of inspections –Group 1 storage vessel seal gap measurements – 30 day notification [can be waived or modified by state or local]. | 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 – keep records specified in 63.123 (Subpart G) | Y | |
| 63.654(i)(1)(i) | Reporting and Recordkeeping Requirements-Recordkeeping for storage vessels– keep records specified in 63.123 (Subpart G) except records related to gaskets, slotted membranes, and sleeve seals for vessels in existing sources | Y | |
| 63.654(i)(4) | Reporting and Recordkeeping Requirements—Recordkeeping for storage vessels-Record retention – 5 years | Y | |
| **BAAQMD Condition 20989, Part A** | Throughput limits for source S133 [Basis: 2-1-234.3] | Y | |

## Table IV – BB.17
## Source-Specific Applicable Requirements
## NSPS KA EXTERNAL FLOATING ROOF TANK W/O ZERO-GAP SEALS
## S340 (TANK 108)

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforce-able (Y/N) | Future Effective Date |
|---|---|---|---|
| **BAAQMD Regulation 8, Rule 5** | **Organic Compounds, Storage of Organic Liquids (11/27/02) REQUIREMENTS FOR EXTERNAL FLOATING ROOF TANKS** | | |
| 8-5-111 | Limited Exemption, Tank Removal From and Return to Service | Y | |
| 8-5-111.1 | Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – BB.17
## Source-Specific Applicable Requirements
## NSPS KA EXTERNAL FLOATING ROOF TANK W/O ZERO-GAP SEALS
## S340 (TANK 108)

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforce-able (Y/N) | Future Effective Date |
|---|---|---|---|
| 8-5-111.1.1 | Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO; 3 day prior notification | Y | |
| 8-5-111.1.2 | Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO; Telephone notification | Y | |
| 8-5-111.2 | Limited Exemption, Tank Removal From and Return to Service; Compliance before notification | Y | |
| 8-5-111.3 | Limited Exemption, Tank Removal From and Return to Service; Floating roof tanks - continuous and quick filling, emptying and refilling | 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 | |
| 8-5-112.1 | Limited Exemption, Tanks in Operation; Notice to the APCO | Y | |
| 8-5-112.1.1 | Limited Exemption, Tanks in Operation; Notice to the APCO; 3 day prior notification | Y | |
| 8-5-112.1.2 | Limited Exemption, Tanks in Operation; Notice to the APCO; Telephone notification | Y | |
| 8-5-112.2 | Limited Exemption, Tanks in Operation; Compliance and certification before commencement of work | Y | |
| 8-5-112.3 | Limited Exemption, Tanks in Operation; No product movement; minimization of emissions | Y | |
| 8-5-112.4 | Limited Exemption, Tanks in Operation; Exemption does not exceed 7 days | 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 | |
| 8-5-304.1 | Requirements for External Floating Roofs; Tank fitting requirements | Y | |
| 8-5-304.2 | Requirements for External Floating Roofs; Primary seal requirements | Y | |
| 8-5-304.3 | Requirements for External Floating Roofs; Secondary seal requirements | 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 | |

# IV. Source Specific Applicable Requirements

## Table IV – BB.17
## Source-Specific Applicable Requirements
## NSPS KA EXTERNAL FLOATING ROOF TANK W/O ZERO-GAP SEALS
## S340 (TANK 108)

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforce-able (Y/N) | Future Effective Date |
|---|---|---|---|
| 8-5-320.3.1 | Tank fitting requirements – Floating roof tanks, Gasketed covers, seals, lids – Gap requirements | Y | |
| 8-5-320.4 | Tank Fitting Requirements; Solid sampling or gauging well requirements in floating roof tanks | Y | |
| 8-5-320.4.1 | Tank fitting requirements; Floating roof tanks; Solid sampling or gauging wells; Projection below the liquid surface | Y | |
| 8-5-320.4.2 | Tank fitting requirements; Floating roof tanks; Solid sampling or gauging wells; Cover, seal, or lid | Y | |
| 8-5-320.4.3 | Tank fitting requirements; Floating roof tanks; Solid sampling or gauging wells; Gap between the well and the roof | Y | |
| 8-5-320.6 | Tank Fitting Requirements; Emergency roof drain | Y | |
| 8-5-321 | Primary seal requirements | Y | |
| 8-5-321.1 | Primary seal requirements; No holes, tears, or 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 | Y | |
| 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 | Y | |
| 8-5-322.1 | Secondary seal requirements; No holes, tears, or other openings | Y | |
| 8-5-322.2 | Secondary seal requirements; Insertion of probes | Y | |
| 8-5-322.3 | Secondary seal requirements; Seal gaps (applicable as long as secondary seal is not a zero-gap seal as defined in 8-5-322.5) | Y | |
| 8-5-322.5 | Secondary seal requirements; Gap for welded tanks with seal installed after September 4, 1985 (becomes applicable when secondary seal is considered newly installed and subject to zero-gap seal gap requirements) | Y | |
| 8-5-322.6 | Secondary seal requirements; extent of seal | 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 | |
| 8-5-501.1 | Records; Type and amounts of liquid; true vapor pressure; Retain | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – BB.17
## Source-Specific Applicable Requirements
## NSPS KA EXTERNAL FLOATING ROOF TANK W/O ZERO-GAP SEALS
## S340 (TANK 108)

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforce-able (Y/N) | Future Effective Date |
|---|---|---|---|
| | 24 months | | |
| 8-5-501.2 | Records; Internal and External Floating Roof Tanks; Seal Replacement Records – Retain 10 years | Y | |
| 8-5-503 | Portable hydrocarbon detector | Y | |
| 8-5-602 | Analysis of Samples, True Vapor Pressure | Y | |
| 8-5-604 | Determination of Applicability | Y | |
| **40 CFR 60, Subpart Ka** | **Standards of Performance for Storage Vessels for Volatile Organic Liquid Storage Vessels for Which Construction, Reconstruction, or Modification Commenced After May 18, 1978, and Prior to July 23, 1984 (12/14/2000)** | | |
| 60.110a(a) | Applicability and Designation of Affected Facility | Y | |
| **40 CFR 63, Subpart G** | **SOCMI HON G (01/27/1995) REQUIREMENTS FOR EXTERNAL FLOATING ROOF TANKS** | | |
| 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 – metallic shoe or liquid-mounted | 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--Must float on liquid | Y | |
| 63.119(c)(3)(i) | Storage Vessel Provisions -- Reference Control Technology-- External floating roof --Must float on liquid except during initial fill | Y | |
| 63.119(c)(3)(ii) | Storage Vessel Provisions -- Reference Control Technology-- External floating roof-- Must float on liquid except after completely emptied and degassed | Y | |
| 63.119(c)(3)(iii) | Storage Vessel Provisions -- Reference Control Technology-- External floating roof -- Must float on liquid except when completely emptied before refilling | 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 | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – BB.17
## Source-Specific Applicable Requirements
## NSPS KA EXTERNAL FLOATING ROOF TANK W/O ZERO-GAP SEALS
## S340 (TANK 108)

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforce-able (Y/N) | Future Effective Date |
|---|---|---|---|
| | Compliance--External FR seal gap measurement | | |
| 63.120(b)(1)(i) | Storage Vessel Provisions -- Procedures to Determine Compliance--External FR with double seals - primary seal gap measurement – 5 year intervals | Y | |
| 63.120(b)(1)(iii) | Storage Vessel Provisions -- Procedures to Determine Compliance--External FR with double seals - secondary seal gap measurement – annual requirement | Y | |
| 63.120(b)(1)(iv) | Storage Vessel Provisions -- Procedures to Determine Compliance--External FR seal inspections prior to tank refill with organic HAP after not storing organic HAP for 1 year or longer | Y | |
| 63.120(b)(2) | Storage Vessel Provisions -- Procedures to Determine Compliance--External FR seal gap determination methods | Y | |
| 63.120(b)(2)(i) | Storage Vessel Provisions -- Procedures to Determine Compliance--External FR seal gap determination methods – roof not resting on legs | Y | |
| 63.120(b)(2)(ii) | Storage Vessel Provisions -- Procedures to Determine Compliance--External FR seal gap determination methods – measure gaps around entire circumference of seal and measure width and length of gaps | Y | |
| 63.120(b)(2)(iii) | Storage Vessel Provisions -- Procedures to Determine Compliance--External FR seal gap determination methods – determine total surface area of each gap | Y | |
| 63.120(b)(3) | Storage Vessel Provisions -- Procedures to Determine Compliance--External FR primary seal gap calculation method – total surface area of primary seal gaps <= 212 cm2 per meter of vessel diameter. Maximum width <= 3.81 cm | Y | |
| 63.120(b)(4) | Storage Vessel Provisions -- Procedures to Determine Compliance--External FR secondary seal gap calculation method – total surface area of secondary seal gaps <= 21.2 cm2 per meter of vessel diameter. Maximum width <= 1.27 cm | Y | |
| 63.120(b)(5) | Storage Vessel Provisions -- Procedures to Determine Compliance--External FR primary seal additional requirements | Y | |
| 63.120(b)(5)(i) | Storage Vessel Provisions -- Procedures to Determine Compliance--External FR primary seal additional requirements – metallic shoe seal – shoe geometry | Y | |
| 63.120(b)(5)(ii) | Storage Vessel Provisions -- Procedures to Determine Compliance--External FR primary seal additional requirements – no holes, tears, or openings | 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 requirements – location and extent | Y | |
| 63.120(b)(6)(ii) | Storage Vessel Provisions -- Procedures to Determine Compliance--External FR secondary seal requirements - no holes, | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – BB.17
## Source-Specific Applicable Requirements
## NSPS KA EXTERNAL FLOATING ROOF TANK W/O ZERO-GAP SEALS
## S340 (TANK 108)

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforce-able (Y/N) | Future Effective Date |
|---|---|---|---|
| | tears or openings | | |
| 63.120(b)(7) | Storage Vessel Provisions -- Procedures to Determine Compliance--External FR unsafe to perform seal measurements or inspect the tank | Y | |
| 63.120(b)(7)(i) | Storage Vessel Provisions -- Procedures to Determine Compliance--External FR unsafe to perform seal measurements or inspect the tank – complete measurements or inspection within 30 days after determining roof is unsafe or comply with 63.120(b)(7)(ii) | Y | |
| 63.120(b)(7)(ii) | Storage Vessel Provisions -- Procedures to Determine Compliance--External FR unsafe to perform seal measurements or inspect the tank – empty and remove vessel from service within 45 days after determining roof is unsafe or comply with 63.120(b)(7)(i). Two 30 day extensions are allowed to empty the tank. Decision to use extension must be documented. | Y | |
| 63.120(b)(8) | Storage Vessel Provisions -- Procedures to Determine Compliance External FR Repairs must be made within 45 days after identification or empty and remove tank from service. Two 30 day extensions are allowed to empty the tank. Decision to use extension must be documented. | 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 visual inspection each time emptied – Repair defects before refilling [does not apply to gaskets, slotted membranes, or sleeve seals for Group 1 Refinery MACT tanks per 63.646(e)] | Y | |
| 63.120(b)(10)(ii) | Storage Vessel Provisions -- Procedures to Determine Compliance-- External FR and seal visual inspection each time emptied – 30 day notification | Y | |
| 63.120(b)(10)(iii) | Storage Vessel Provisions -- Procedures to Determine Compliance-- External FR and seal visual inspection each time emptied –-Notification for unplanned | Y | |
| 63.123(a) | Storage Vessel Provisions -- Recordkeeping--Group 1 and Group 2 storage vessel dimensions and capacity. Keep for life of source. | Y | |
| 63.123(d) | Storage Vessel Provisions -- Recordkeeping--Group 1 External floating roof tank requirements - records of seal gap measurements (date, raw data, and required calculations) | Y | |
| 63.123(g) | Storage Vessel Provisions -- Recordkeeping, Extensions for emptying storage vessel – keep documentation specified | Y | |
| **40 CFR 63, Subpart** | **National Emission Standards for Hazardous Air Pollutants for** | | |

# IV. Source Specific Applicable Requirements

## Table IV – BB.17
## Source-Specific Applicable Requirements
## NSPS KA EXTERNAL FLOATING ROOF TANK W/O ZERO-GAP SEALS
## S340 (TANK 108)

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforce-able (Y/N) | Future Effective Date |
|---|---|---|---|
| **CC** | **Petroleum Refineries (06/12/1996) REQUIREMENTS FOR EXTERNAL FLOATING ROOF TANKS ALSO SUBJECT TO NSPS, Subparts K or Ka** | | |
| 63.640(c)(2) | Applicability and Designation of Storage Vessels | Y | |
| 63.640(n)(5) | Applicability and Designation of Affected Source Overlap for Storage Vessels— Group 1 vessel also subject to NSPS, Subparts K or Ka only subject to 63 Subpart CC | Y | |
| 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—63 Subpart G exclusions for storage vessels [EFRs exempt from 63.119(c)(2)] | Y | |
| 63.646(d) | Storage Vessel Provisions-References | 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—Exceptions for compliance with inspection requirements of 63.120 of Subpart G – Not required to comply with provisions for gaskets, slotted membranes, and sleeve seals. | 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-Covers or lids closed except when in use | Y | |
| 63.646(f)(2) | Storage Vessel Provisions-Group 1 floating roof requirements-Rim space vents requirements | Y | |
| 63.646(f)(3) | Storage Vessel Provisions-Group 1 floating roof requirements-Automatic bleeder vents requirements | Y | |
| 63.646(l) | Storage Vessel Provisions-State or local permitting agency notification requirements | Y | |
| 63.654(f) | Reporting and Recordkeeping Requirements-Notice of compliance status report requirements | Y | |
| 63.654(f)(1) | Reporting and Recordkeeping Requirements-Notice of compliance status report requirements | Y | |
| 63.654(f)(1)(i) | Reporting and Recordkeeping Requirements-Notice of compliance status report requirements-Reporting--storage vessels | Y | |
| 63.654(f)(1)(i)(A) | Reporting and Recordkeeping Requirements-Notice of compliance status report requirements-Reporting--storage vessels | Y | |
| 63.654(f)(1)(i)(A)(1) | Reporting and Recordkeeping Requirements-Notice of compliance status report requirements-Reporting--storage vessels | Y | |
| 63.654(g) | Periodic Reporting and Recordkeeping Requirements | Y | |
| 63.654(g)(1) | Periodic Reporting and Recordkeeping Requirements-storage vessels [Information related to gaskets, slotted membranes, and | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – BB.17
## Source-Specific Applicable Requirements
## NSPS KA EXTERNAL FLOATING ROOF TANK W/O ZERO-GAP SEALS
## S340 (TANK 108)

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforce-able (Y/N) | Future Effective Date |
|---|---|---|---|
| | sleeve seals not required for storage vessels that are part of existing source] | | |
| 63.654(g)(3) | Periodic Reporting and Recordkeeping Requirements-storage vessels with external floating roofs | Y | |
| 63.654(g)(3)(i) | Periodic Reporting and Recordkeeping Requirements-storage vessels with external floating roofs-document results of each seal gap measurement | Y | |
| 63.654(g)(3)(ii) | Periodic Reporting and Recordkeeping Requirements-storage vessels with external floating roofs – extension documentation | Y | |
| 63.654(g)(3)(iii) | Periodic Reporting and Recordkeeping Requirements-storage vessels with external floating roofs – documentation of failures | Y | |
| 63.654(h)(2) | 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 – refilling Group 1 storage vessel. | Y | |
| 63.654(h)(2)(ii) | Reporting and Recordkeeping Requirements-Other reports-Storage vessel notification of inspections –Group 1 storage vessel seal gap measurements – 30 day notification [can be waived or modified by state or local]. | 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 – keep records specified in 63.123 (Subpart G) | Y | |
| 63.654(i)(1)(i) | Reporting and Recordkeeping Requirements-Recordkeeping for storage vessels– keep records specified in 63.123 (Subpart G) except records related to gaskets, slotted membranes, and sleeve seals for vessels in existing sources | Y | |
| 63.654(i)(4) | Reporting and Recordkeeping Requirements—Recordkeeping for storage vessels-Record retention – 5 years | Y | |
| **BAAQMD Condition 20989, Part A** | Throughput limits for sources S340 [Basis: 2-1-234.3] | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – BB.18
## Source-Specific Applicable Requirements
## MACT EXTERNAL FLOATING ROOF TANKS W/O ZERO-GAP SEALS
## S113 (TANK 158), S125 (TANK 170),
## S183 (TANK 295), S184 (TANK 296), S261 (TANK 1010)

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| **BAAQMD · Regulation 8, Rule 5** | **Organic Compounds, Storage of Organic Liquids (11/27/02) REQUIREMENTS FOR EXTERNAL FLOATING ROOF TANKS** | | |
| 8-5-111 | Limited Exemption, Tank Removal From and Return to Service | Y | |
| 8-5-111.1 | Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO | Y | |
| 8-5-111.1.1 | Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO; 3 day prior notification | Y | |
| 8-5-111.1.2 | Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO; Telephone notification | Y | |
| 8-5-111.2 | Limited Exemption, Tank Removal From and Return to Service; Compliance before notification | Y | |
| 8-5-111.3 | Limited Exemption, Tank Removal From and Return to Service; Floating roof tanks - continuous and quick filling, emptying and refilling | 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 | |
| 8-5-112.1 | Limited Exemption, Tanks in Operation; Notice to the APCO | Y | |
| 8-5-112.1.1 | Limited Exemption, Tanks in Operation; Notice to the APCO; 3 day prior notification | Y | |
| 8-5-112.1.2 | Limited Exemption, Tanks in Operation; Notice to the APCO; Telephone notification | Y | |
| 8-5-112.2 | Limited Exemption, Tanks in Operation; Compliance and certification before commencement of work | Y | |
| 8-5-112.3 | Limited Exemption, Tanks in Operation; No product movement; minimization of emissions | Y | |
| 8-5-112.4 | Limited Exemption, Tanks in Operation; Exemption does not exceed 7 days | Y | |
| 8-5-301 | Storage Tank Control Requirements (internal floating roof, external floating roof, or approved emission control system) | Y | |
| 8-5-303 | Requirements for Pressure Vacuum Valves (applicable to S113 (Tank 158), S125 (Tank 170)) | Y | |
| 8-5-303.1 | Requirements for Pressure Vacuum Valves; Set pressure (applicable to S113 (Tank 158), S125 (Tank 170)) | Y | |
| 8-5-303.2 | Requirements for Pressure Vacuum Valves; Installation, maintenance, operation (applicable to S113 (Tank 158), S125 (Tank 170)) | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – BB.18
## Source-Specific Applicable Requirements
## MACT EXTERNAL FLOATING ROOF TANKS W/O ZERO-GAP SEALS
## S113 (TANK 158), S125 (TANK 170), S183 (TANK 295), S184 (TANK 296), S261 (TANK 1010)

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| 8-5-304 | Requirements for External Floating Roofs | Y | |
| 8-5-304.1 | Requirements for External Floating Roofs; Tank fitting requirements | Y | |
| 8-5-304.2 | Requirements for External Floating Roofs; Primary seal requirements | Y | |
| 8-5-304.3 | Requirements for External Floating Roofs; Secondary seal requirements | 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 | |
| 8-5-320.3.1 | Tank fitting requirements – Floating roof tanks, Gasketed covers, seals, lids – Gap requirements | Y | |
| 8-5-320.4 | Tank Fitting Requirements; Solid sampling or gauging well requirements in floating roof tanks | Y | |
| 8-5-320.4.1 | Tank fitting requirements; Floating roof tanks; Solid sampling or gauging wells; Projection below the liquid surface | Y | |
| 8-5-320.4.2 | Tank fitting requirements; Floating roof tanks; Solid sampling or gauging wells; Cover, seal, or lid | Y | |
| 8-5-320.4.3 | Tank fitting requirements; Floating roof tanks; Solid sampling or gauging wells; Gap between the well and the roof | Y | |
| 8-5-320.6 | Tank Fitting Requirements; Emergency roof drain | Y | |
| 8-5-321 | Primary seal requirements | Y | |
| 8-5-321.1 | Primary seal requirements; No holes, tears, or 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 | Y | |
| 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 | Y | |
| 8-5-322.1 | Secondary seal requirements; No holes, tears, or other openings | Y | |
| 8-5-322.2 | Secondary seal requirements; Insertion of probes | Y | |
| 8-5-322.3 | Secondary seal requirements; Seal gaps (applicable as long as secondary seal is not zero-gap seal as defined in 8-5-322.5) | Y | |
| 8-5-322.5 | Secondary seal requirements; Gap for welded tanks with seal installed after September 4, 1985 (becomes applicable when secondary seal is considered newly installed and subject to zero-gap seal gap requirements) | Y | |
| 8-5-322.6 | Secondary seal requirements; extent of seal | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – BB.18
## Source-Specific Applicable Requirements
## MACT EXTERNAL FLOATING ROOF TANKS W/O ZERO-GAP SEALS
## S113 (TANK 158), S125 (TANK 170), S183 (TANK 295), S184 (TANK 296), S261 (TANK 1010)

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| 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 | |
| 8-5-403 | Inspection Requirements for Pressure Vacuum Valves (applicable to S113 (Tank 158), S125 (Tank 170)) | Y | |
| 8-5-404 | Certification | Y | |
| 8-5-405 | Information required | Y | |
| 8-5-501 | Records | Y | |
| 8-5-501.1 | Records; Type and amounts of liquid; true vapor pressure; Retain 24 months | Y | |
| 8-5-501.2 | Records; Internal and External Floating Roof Tanks; Seal Replacement Records – Retain 10 years | Y | |
| 8-5-503 | Portable hydrocarbon detector | Y | |
| 8-5-602 | Analysis of Samples, True Vapor Pressure | Y | |
| 8-5-604 | Determination of Applicability | Y | |
| 8-5-605 | Pressure-Vacuum Valve Gas Tight Determination (applicable to S113 (Tank 158), S125 (Tank 170)) | Y | |
| **40 CFR 63, Subpart G** | **SOCMI HON G (01/27/1995) REQUIREMENTS FOR EXTERNAL FLOATING ROOF TANKS** | | |
| 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 – metallic shoe or liquid-mounted | 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--Must float on liquid | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – BB.18
## Source-Specific Applicable Requirements
## MACT EXTERNAL FLOATING ROOF TANKS W/O ZERO-GAP SEALS
## S113 (TANK 158), S125 (TANK 170), S183 (TANK 295), S184 (TANK 296), S261 (TANK 1010)

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| 63.119(c)(3)(i) | Storage Vessel Provisions -- Reference Control Technology-- External floating roof --Must float on liquid except during initial fill | Y | |
| 63.119(c)(3)(ii) | Storage Vessel Provisions -- Reference Control Technology-- External floating roof-- Must float on liquid except after completely emptied and degassed | Y | |
| 63.119(c)(3)(iii) | Storage Vessel Provisions -- Reference Control Technology-- External floating roof -- Must float on liquid except when completely emptied before refilling | 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 – 5 year intervals | Y | |
| 63.120(b)(1)(iii) | Storage Vessel Provisions -- Procedures to Determine Compliance-- External FR with double seals - secondary seal gap measurement – annual requirement | Y | |
| 63.120(b)(1)(iv) | Storage Vessel Provisions -- Procedures to Determine Compliance-- External FR seal inspections prior to tank refill with organic HAP after not storing organic HAP for 1 year or longer | Y | |
| 63.120(b)(2) | Storage Vessel Provisions -- Procedures to Determine Compliance-- External FR seal gap determination methods | Y | |
| 63.120(b)(2)(i) | Storage Vessel Provisions -- Procedures to Determine Compliance-- External FR seal gap determination methods – roof not resting on legs | Y | |
| 63.120(b)(2)(ii) | Storage Vessel Provisions -- Procedures to Determine Compliance-- External FR seal gap determination methods – measure gaps around entire circumference of seal and measure width and length of gaps | Y | |
| 63.120(b)(2)(iii) | Storage Vessel Provisions -- Procedures to Determine Compliance-- External FR seal gap determination methods – determine total surface area of each gap | Y | |
| 63.120(b)(3) | Storage Vessel Provisions -- Procedures to Determine Compliance-- External FR primary seal gap calculation method – total surface area of primary seal gaps <= 212 cm2 per meter of vessel diameter. Maximum width <= 3.81 cm | Y | |
| 63.120(b)(4) | Storage Vessel Provisions -- Procedures to Determine Compliance-- External FR secondary seal gap calculation method – total surface area of secondary seal gaps <= 21.2 cm2 per meter of vessel diameter. Maximum width <= 1.27 cm | Y | |
| 63.120(b)(5) | Storage Vessel Provisions -- Procedures to Determine Compliance-- External FR primary seal additional requirements | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – BB.18
## Source-Specific Applicable Requirements
## MACT EXTERNAL FLOATING ROOF TANKS W/O ZERO-GAP SEALS
## S113 (TANK 158), S125 (TANK 170), S183 (TANK 295), S184 (TANK 296), S261 (TANK 1010)

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| 63.120(b)(5)(i) | Storage Vessel Provisions -- Procedures to Determine Compliance-- External FR primary seal additional requirements – metallic shoe seal – shoe geometry | Y | |
| 63.120(b)(5)(ii) | Storage Vessel Provisions -- Procedures to Determine Compliance-- External FR primary seal additional requirements – no holes, tears, or openings | 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 requirements – location and extent | Y | |
| 63.120(b)(6)(ii) | Storage Vessel Provisions -- Procedures to Determine Compliance-- External FR secondary seal requirements - no holes, tears or openings | Y | |
| 63.120(b)(7) | Storage Vessel Provisions -- Procedures to Determine Compliance-- External FR unsafe to perform seal measurements or inspect the tank | Y | |
| 63.120(b)(7)(i) | Storage Vessel Provisions -- Procedures to Determine Compliance-- External FR unsafe to perform seal measurements or inspect the tank – complete measurements or inspection within 30 days after determining roof is unsafe or comply with 63.120(b)(7)(ii) | Y | |
| 63.120(b)(7)(ii) | Storage Vessel Provisions -- Procedures to Determine Compliance-- External FR unsafe to perform seal measurements or inspect the tank – empty and remove vessel from service within 45 days after determining roof is unsafe or comply with 63.120(b)(7)(i). Two 30 day extensions are allowed to empty the tank. Decision to use extension must be documented. | Y | |
| 63.120(b)(8) | Storage Vessel Provisions -- Procedures to Determine Compliance External FR Repairs must be made within 45 days after identification or empty and remove tank from service. Two 30 day extensions are allowed to empty the tank. Decision to use extension must be documented. | 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 visual inspection each time emptied – Repair defects before refilling [does not apply to gaskets, slotted membranes, or sleeve seals for Group 1 Refinery MACT tanks per 63.646(e)] | Y | |
| 63.120(b)(10)(ii) | Storage Vessel Provisions -- Procedures to Determine Compliance-- External FR and seal visual inspection each time emptied – 30 day notification | Y | |
| 63.120(b)(10)(iii) | Storage Vessel Provisions -- Procedures to Determine Compliance-- External FR and seal visual inspection each time emptied –- | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – BB.18
## Source-Specific Applicable Requirements
## MACT EXTERNAL FLOATING ROOF TANKS W/O ZERO-GAP SEALS
## S113 (TANK 158), S125 (TANK 170), S183 (TANK 295), S184 (TANK 296), S261 (TANK 1010)

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| | Notification for unplanned | | |
| 63.123(a) | Storage Vessel Provisions -- Recordkeeping--Group 1 and Group 2 storage vessel dimensions and capacity. Keep for life of source. | Y | |
| 63.123(d) | Storage Vessel Provisions -- Recordkeeping--Group 1 External floating roof tank requirements - records of seal gap measurements (date, raw data, and required calculations) | Y | |
| 63.123(g) | Storage Vessel Provisions -- Recordkeeping, Extensions for emptying storage vessel – keep documentation specified | Y | |
| **40 CFR 63, Subpart CC** | **National Emission Standards for Hazardous Air Pollutants for Petroleum Refineries (06/12/1996) REQUIREMENTS FOR EXTERNAL FLOATING ROOF TANKS** | | |
| 63.640(c)(2) | Applicability and Designation of Storage Vessels | Y | |
| 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—63 Subpart G exclusions for storage vessels [EFRs exempt from 63.119(c)(2)] | Y | |
| 63.646(d) | Storage Vessel Provisions-References | 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—Exceptions for compliance with inspection requirements of 63.120 of Subpart G – Not required to comply with provisions for gaskets, slotted membranes, and sleeve seals. | 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-Covers or lids closed except when in use | Y | |
| 63.646(f)(2) | Storage Vessel Provisions-Group 1 floating roof requirements-Rim space vents requirements | Y | |
| 63.646(f)(3) | Storage Vessel Provisions-Group 1 floating roof requirements-Automatic bleeder vents requirements | Y | |
| 63.646(l) | Storage Vessel Provisions-State or local permitting agency notification requirements | Y | |
| 63.654(f) | Reporting and Recordkeeping Requirements-Notice of compliance status report requirements | Y | |
| 63.654(f)(1) | Reporting and Recordkeeping Requirements-Notice of compliance status report requirements | Y | |
| 63.654(f)(1)(i) | Reporting and Recordkeeping Requirements-Notice of compliance status report requirements-Reporting--storage vessels | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – BB.18
## Source-Specific Applicable Requirements
## MACT EXTERNAL FLOATING ROOF TANKS W/O ZERO-GAP SEALS
## S113 (TANK 158), S125 (TANK 170), S183 (TANK 295), S184 (TANK 296), S261 (TANK 1010)

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| 63.654(f)(1)(i)(A) | Reporting and Recordkeeping Requirements-Notice of compliance status report requirements-Reporting--storage vessels | Y | |
| 63.654(f)(1)(i)(A)(1) | Reporting and Recordkeeping Requirements-Notice of compliance status report requirements-Reporting--storage vessels | Y | |
| 63.654(g) | Periodic Reporting and Recordkeeping Requirements | Y | |
| 63.654(g)(1) | Periodic Reporting and Recordkeeping Requirements-storage vessels [Information related to gaskets, slotted membranes, and sleeve seals not required for storage vessels that are part of existing source] | Y | |
| 63.654(g)(3) | Periodic Reporting and Recordkeeping Requirements-storage vessels with external floating roofs | Y | |
| 63.654(g)(3)(i) | Periodic Reporting and Recordkeeping Requirements-storage vessels with external floating roofs-document results of each seal gap measurement | Y | |
| 63.654(g)(3)(ii) | Periodic Reporting and Recordkeeping Requirements-storage vessels with external floating roofs – extension documentation | Y | |
| 63.654(g)(3)(iii) | Periodic Reporting and Recordkeeping Requirements-storage vessels with external floating roofs – documentation of failures | Y | |
| 63.654(h)(2) | 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 – refilling Group 1 storage vessel. | Y | |
| 63.654(h)(2)(ii) | Reporting and Recordkeeping Requirements-Other reports-Storage vessel notification of inspections –Group 1 storage vessel seal gap measurements – 30 day notification [can be waived or modified by state or local]. | 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 – keep records specified in 63.123 (Subpart G) | Y | |
| 63.654(i)(1)(i) | Reporting and Recordkeeping Requirements-Recordkeeping for storage vessels– keep records specified in 63.123 (Subpart G) except records related to gaskets, slotted membranes, and sleeve seals for vessels in existing sources | Y | |
| 63.654(i)(4) | Reporting and Recordkeeping Requirements—Recordkeeping for storage vessels-Record retention – 5 years | Y | |
| **BAAQMD Condition 20989, Part A** | Throughput limits for sources S113, S125, S261 [Basis: 2-1-234.3] | N | |
| **BAAQMD Condition 20989, Part A** | Throughput limits for sources S183, S184 [Basis: 2-1-234.3] | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – BB.19
## Source-Specific Applicable Requirements
## RIVETED MACT EXTERNAL FLOATING ROOF TANK
## S216 (TANK 695A)

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| **BAAQMD · Regulation 8, Rule 5** | **Organic Compounds, Storage of Organic Liquids (11/27/02) REQUIREMENTS FOR EXTERNAL FLOATING ROOF TANKS** | | |
| 8-5-111 | Limited Exemption, Tank Removal From and Return to Service | Y | |
| 8-5-111.1 | Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO | Y | |
| 8-5-111.1.1 | Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO; 3 day prior notification | Y | |
| 8-5-111.1.2 | Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO; Telephone notification | Y | |
| 8-5-111.2 | Limited Exemption, Tank Removal From and Return to Service; Compliance before notification | Y | |
| 8-5-111.3 | Limited Exemption, Tank Removal From and Return to Service; Floating roof tanks - continuous and quick filling, emptying and refilling | 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 | |
| 8-5-112.1 | Limited Exemption, Tanks in Operation; Notice to the APCO | Y | |
| 8-5-112.1.1 | Limited Exemption, Tanks in Operation; Notice to the APCO; 3 day prior notification | Y | |
| 8-5-112.1.2 | Limited Exemption, Tanks in Operation; Notice to the APCO; Telephone notification | Y | |
| 8-5-112.2 | Limited Exemption, Tanks in Operation; Compliance and certification before commencement of work | Y | |
| 8-5-112.3 | Limited Exemption, Tanks in Operation; No product movement; minimization of emissions | Y | |
| 8-5-112.4 | Limited Exemption, Tanks in Operation; Exemption does not exceed 7 days | 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 | |
| 8-5-304.1 | Requirements for External Floating Roofs; Tank fitting requirements | Y | |
| 8-5-304.2 | Requirements for External Floating Roofs; Primary seal requirements | Y | |
| 8-5-304.3 | Requirements for External Floating Roofs; Secondary seal requirements | Y | |
| 8-5-304.4 | Requirements for External Floating Roofs; Floating roof requirements | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – BB.19
## Source-Specific Applicable Requirements
## RIVETED MACT EXTERNAL FLOATING ROOF TANK
## S216 (TANK 695A)

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| 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 | |
| 8-5-320.3.1 | Tank fitting requirements – Floating roof tanks, Gasketed covers, seals, lids – Gap requirements | Y | |
| 8-5-320.4 | Tank Fitting Requirements; Solid sampling or gauging well requirements in floating roof tanks | Y | |
| 8-5-320.4.1 | Tank fitting requirements; Floating roof tanks; Solid sampling or gauging wells; Projection below the liquid surface | Y | |
| 8-5-320.4.2 | Tank fitting requirements; Floating roof tanks; Solid sampling or gauging wells; Cover, seal, or lid | Y | |
| 8-5-320.4.3 | Tank fitting requirements; Floating roof tanks; Solid sampling or gauging wells; Gap between the well and the roof | Y | |
| 8-5-320.6 | Tank Fitting Requirements; Emergency roof drain | Y | |
| 8-5-321 | Primary seal requirements | Y | |
| 8-5-321.1 | Primary seal requirements; No holes, tears, or 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 | Y | |
| 8-5-321.3.1 | Primary seal requirements; Metallic shoe type seal requirements Geometry of shoe | Y | |
| 8-5-321.3.3 | Primary seal requirements; Metallic shoe type seal requirements: Gaps for riveted tanks | Y | |
| 8-5-322 | Secondary seal requirements | Y | |
| 8-5-322.1 | Secondary seal requirements; No holes, tears, or other openings | Y | |
| 8-5-322.2 | Secondary seal requirements; Insertion of probes | Y | |
| 8-5-322.3 | Secondary seal requirements; Seal gaps | Y | |
| 8-5-322.4 | Secondary seal requirements; Riveted tanks | Y | |
| 8-5-322.6 | Secondary seal requirements; extent of seal | 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 | |

# IV. Source Specific Applicable Requirements

## Table IV – BB.19
## Source-Specific Applicable Requirements
## RIVETED MACT EXTERNAL FLOATING ROOF TANK
## S216 (TANK 695A)

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| 8-5-501 | Records | Y | |
| 8-5-501.1 | Records; Type and amounts of liquid; true vapor pressure; Retain 24 months | Y | |
| 8-5-501.2 | Records; Internal and External Floating Roof Tanks; Seal Replacement Records – Retain 10 years | Y | |
| 8-5-503 | Portable hydrocarbon detector | Y | |
| 8-5-602 | Analysis of Samples, True Vapor Pressure | Y | |
| 8-5-604 | Determination of Applicability | Y | |
| **40 CFR 63, Subpart G** | **SOCMI HON G (01/27/1995) REQUIREMENTS FOR EXTERNAL FLOATING ROOF TANKS** | | |
| 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 – metallic shoe or liquid-mounted | 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--Must float on liquid | Y | |
| 63.119(c)(3)(i) | Storage Vessel Provisions -- Reference Control Technology--External floating roof --Must float on liquid except during initial fill | Y | |
| 63.119(c)(3)(ii) | Storage Vessel Provisions -- Reference Control Technology--External floating roof-- Must float on liquid except after completely emptied and degassed | Y | |
| 63.119(c)(3)(iii) | Storage Vessel Provisions -- Reference Control Technology--External floating roof -- Must float on liquid except when completely emptied before refilling | 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 – 5 year intervals | Y | |
| 63.120(b)(1)(iii) | Storage Vessel Provisions -- Procedures to Determine Compliance-- | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – BB.19
## Source-Specific Applicable Requirements
## RIVETED MACT EXTERNAL FLOATING ROOF TANK
## S216 (TANK 695A)

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| | External FR with double seals - secondary seal gap measurement – annual requirement | | |
| 63.120(b)(1)(iv) | Storage Vessel Provisions -- Procedures to Determine Compliance-- External FR seal inspections prior to tank refill with organic HAP after not storing organic HAP for 1 year or longer | Y | |
| 63.120(b)(2) | Storage Vessel Provisions -- Procedures to Determine Compliance-- External FR seal gap determination methods | Y | |
| 63.120(b)(2)(i) | Storage Vessel Provisions -- Procedures to Determine Compliance-- External FR seal gap determination methods – roof not resting on legs | Y | |
| 63.120(b)(2)(ii) | Storage Vessel Provisions -- Procedures to Determine Compliance-- External FR seal gap determination methods – measure gaps around entire circumference of seal and measure width and length of gaps | Y | |
| 63.120(b)(2)(iii) | Storage Vessel Provisions -- Procedures to Determine Compliance-- External FR seal gap determination methods – determine total surface area of each gap | Y | |
| 63.120(b)(3) | Storage Vessel Provisions -- Procedures to Determine Compliance-- External FR primary seal gap calculation method – total surface area of primary seal gaps <= 212 cm2 per meter of vessel diameter. Maximum width <= 3.81 cm | Y | |
| 63.120(b)(4) | Storage Vessel Provisions -- Procedures to Determine Compliance-- External FR secondary seal gap calculation method – total surface area of secondary seal gaps <= 21.2 cm2 per meter of vessel diameter. Maximum width <= 1.27 cm | Y | |
| 63.120(b)(5) | Storage Vessel Provisions -- Procedures to Determine Compliance-- External FR primary seal additional requirements | Y | |
| 63.120(b)(5)(i) | Storage Vessel Provisions -- Procedures to Determine Compliance-- External FR primary seal additional requirements – metallic shoe seal – shoe geometry | Y | |
| 63.120(b)(5)(ii) | Storage Vessel Provisions -- Procedures to Determine Compliance-- External FR primary seal additional requirements – no holes, tears, or openings | 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 requirements – location and extent | Y | |
| 63.120(b)(6)(ii) | Storage Vessel Provisions -- Procedures to Determine Compliance-- External FR secondary seal requirements - no holes, tears or openings | Y | |
| 63.120(b)(7) | Storage Vessel Provisions -- Procedures to Determine Compliance-- External FR unsafe to perform seal measurements or inspect the tank | Y | |
| 63.120(b)(7)(i) | Storage Vessel Provisions -- Procedures to Determine Compliance-- External FR unsafe to perform seal measurements or inspect the tank – complete measurements or inspection within 30 days after determining roof is unsafe or comply with 63.120(b)(7)(ii) | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – BB.19
## Source-Specific Applicable Requirements
## RIVETED MACT EXTERNAL FLOATING ROOF TANK
## S216 (TANK 695A)

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| 63.120(b)(7)(ii) | Storage Vessel Provisions -- Procedures to Determine Compliance--External FR unsafe to perform seal measurements or inspect the tank – empty and remove vessel from service within 45 days after determining roof is unsafe or comply with 63.120(b)(7)(i). Two 30 day extensions are allowed to empty the tank. Decision to use extension must be documented. | Y | |
| 63.120(b)(8) | Storage Vessel Provisions -- Procedures to Determine Compliance External FR Repairs must be made within 45 days after identification or empty and remove tank from service. Two 30 day extensions are allowed to empty the tank. Decision to use extension must be documented. | 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 visual inspection each time emptied – Repair defects before refilling [does not apply to gaskets, slotted membranes, or sleeve seals for Group 1 Refinery MACT tanks per 63.646(e)] | Y | |
| 63.120(b)(10)(ii) | Storage Vessel Provisions -- Procedures to Determine Compliance--External FR and seal visual inspection each time emptied – 30 day notification | Y | |
| 63.120(b)(10)(iii) | Storage Vessel Provisions -- Procedures to Determine Compliance--External FR and seal visual inspection each time emptied –- Notification for unplanned | Y | |
| 63.123(a) | Storage Vessel Provisions -- Recordkeeping--Group 1 and Group 2 storage vessel dimensions and capacity. Keep for life of source. | Y | |
| 63.123(d) | Storage Vessel Provisions -- Recordkeeping--Group 1 External floating roof tank requirements - records of seal gap measurements (date, raw data, and required calculations) | Y | |
| 63.123(g) | Storage Vessel Provisions -- Recordkeeping, Extensions for emptying storage vessel – keep documentation specified | Y | |
| **40 CFR 63, Subpart CC** | **National Emission Standards for Hazardous Air Pollutants for Petroleum Refineries (06/12/1996) REQUIREMENTS FOR EXTERNAL FLOATING ROOF TANKS** | | |
| 63.640(c)(2) | Applicability and Designation of Storage Vessels | Y | |
| 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—63 Subpart G exclusions for storage vessels [EFRs exempt from 63.119(c)(2)] | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – BB.19
## Source-Specific Applicable Requirements
## RIVETED MACT EXTERNAL FLOATING ROOF TANK
## S216 (TANK 695A)

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| 63.646(d) | Storage Vessel Provisions-References | 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—Exceptions for compliance with inspection requirements of 63.120 of Subpart G – Not required to comply with provisions for gaskets, slotted membranes, and sleeve seals. | 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-Covers or lids closed except when in use | Y | |
| 63.646(f)(2) | Storage Vessel Provisions-Group 1 floating roof requirements-Rim space vents requirements | Y | |
| 63.646(f)(3) | Storage Vessel Provisions-Group 1 floating roof requirements-Automatic bleeder vents requirements | Y | |
| 63.646(l) | Storage Vessel Provisions-State or local permitting agency notification requirements | Y | |
| 63.654(f) | Reporting and Recordkeeping Requirements-Notice of compliance status report requirements | Y | |
| 63.654(f)(1) | Reporting and Recordkeeping Requirements-Notice of compliance status report requirements | Y | |
| 63.654(f)(1)(i) | Reporting and Recordkeeping Requirements-Notice of compliance status report requirements-Reporting--storage vessels | Y | |
| 63.654(f)(1)(i)(A) | Reporting and Recordkeeping Requirements-Notice of compliance status report requirements-Reporting--storage vessels | Y | |
| 63.654(f)(1)(i)(A)(1) | Reporting and Recordkeeping Requirements-Notice of compliance status report requirements-Reporting--storage vessels | Y | |
| 63.654(g) | Periodic Reporting and Recordkeeping Requirements | Y | |
| 63.654(g)(1) | Periodic Reporting and Recordkeeping Requirements-storage vessels [Information related to gaskets, slotted membranes, and sleeve seals not required for storage vessels that are part of existing source] | Y | |
| 63.654(g)(3) | Periodic Reporting and Recordkeeping Requirements-storage vessels with external floating roofs | Y | |
| 63.654(g)(3)(i) | Periodic Reporting and Recordkeeping Requirements-storage vessels with external floating roofs-document results of each seal gap measurement | Y | |
| 63.654(g)(3)(ii) | Periodic Reporting and Recordkeeping Requirements-storage vessels with external floating roofs – extension documentation | Y | |
| 63.654(g)(3)(iii) | Periodic Reporting and Recordkeeping Requirements-storage vessels with external floating roofs – documentation of failures | Y | |
| 63.654(h)(2) | Reporting and Recordkeeping Requirements-Other reports-Storage vessel notification of inspections. | Y | |
| 63.654(h)(2)(i) | Reporting and Recordkeeping Requirements-Other reports-Storage | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – BB.19
## Source-Specific Applicable Requirements
## RIVETED MACT EXTERNAL FLOATING ROOF TANK
## S216 (TANK 695A)

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| | vessel notification of inspections – refilling Group 1 storage vessel. | | |
| 63.654(h)(2)(ii) | Reporting and Recordkeeping Requirements-Other reports-Storage vessel notification of inspections –Group 1 storage vessel seal gap measurements – 30 day notification [can be waived or modified by state or local]. | 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 – keep records specified in 63.123 (Subpart G) | Y | |
| 63.654(i)(1)(i) | Reporting and Recordkeeping Requirements-Recordkeeping for storage vessels– keep records specified in 63.123 (Subpart G) except records related to gaskets, slotted membranes, and sleeve seals for vessels in existing sources | Y | |
| 63.654(i)(4) | Reporting and Recordkeeping Requirements—Recordkeeping for storage vessels-Record retention – 5 years | Y | |
| **BAAQMD Condition 20989, Part A** | Throughput limits for source S216 [Basis: 2-1-234.3] | N | |

## Table IV – BB.20
## Source-Specific Applicable Requirements
## MACT EXTERNAL FLOATING ROOF WASTEWATER SLOP OIL TANK
## W/O ZERO-GAP SEALS
## S134 (TANK 194)

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| **BAAQMD · Regulation 8, Rule 5** | **Organic Compounds, Storage of Organic Liquids (11/27/02) REQUIREMENTS FOR EXTERNAL FLOATING ROOF TANKS** | | |
| 8-5-111 | Limited Exemption, Tank Removal From and Return to Service | Y | |
| 8-5-111.1 | Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO | Y | |
| 8-5-111.1.1 | Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO; 3 day prior notification | Y | |
| 8-5-111.1.2 | Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO; Telephone notification | Y | |
| 8-5-111.2 | Limited Exemption, Tank Removal From and Return to Service; Compliance before notification | Y | |
| 8-5-111.3 | Limited Exemption, Tank Removal From and Return to Service; | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – BB.20
## Source-Specific Applicable Requirements
## MACT EXTERNAL FLOATING ROOF WASTEWATER SLOP OIL TANK W/O ZERO-GAP SEALS
## S134 (TANK 194)

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| | Floating roof tanks - continuous and quick filling, emptying and refilling | | |
| 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 | |
| 8-5-112.1 | Limited Exemption, Tanks in Operation; Notice to the APCO | Y | |
| 8-5-112.1.1 | Limited Exemption, Tanks in Operation; Notice to the APCO; 3 day prior notification | Y | |
| 8-5-112.1.2 | Limited Exemption, Tanks in Operation; Notice to the APCO; Telephone notification | Y | |
| 8-5-112.2 | Limited Exemption, Tanks in Operation; Compliance and certification before commencement of work | Y | |
| 8-5-112.3 | Limited Exemption, Tanks in Operation; No product movement; minimization of emissions | Y | |
| 8-5-112.4 | Limited Exemption, Tanks in Operation; Exemption does not exceed 7 days | Y | |
| 8-5-301 | Storage Tank Control Requirements (internal floating roof, external floating roof, or approved emission control system) | Y | |
| 8-5-303 | Requirements for Pressure Vacuum Valves | Y | |
| 8-5-303.1 | Requirements for Pressure Vacuum Valves; Set pressure | Y | |
| 8-5-303.2 | Requirements for Pressure Vacuum Valves; Installation, maintenance, operation | Y | |
| 8-5-304 | Requirements for External Floating Roofs | Y | |
| 8-5-304.1 | Requirements for External Floating Roofs; Tank fitting requirements | Y | |
| 8-5-304.2 | Requirements for External Floating Roofs; Primary seal requirements | Y | |
| 8-5-304.3 | Requirements for External Floating Roofs; Secondary seal requirements | 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 | |
| 8-5-320.3.1 | Tank fitting requirements – Floating roof tanks, Gasketed covers, seals, lids – Gap requirements | Y | |
| 8-5-320.4 | Tank Fitting Requirements; Solid sampling or gauging well requirements in floating roof tanks | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – BB.20
## Source-Specific Applicable Requirements
## MACT EXTERNAL FLOATING ROOF WASTEWATER SLOP OIL TANK W/O ZERO-GAP SEALS
## S134 (TANK 194)

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| 8-5-320.4.1 | Tank fitting requirements; Floating roof tanks; Solid sampling or gauging wells; Projection below the liquid surface | Y | |
| 8-5-320.4.2 | Tank fitting requirements; Floating roof tanks; Solid sampling or gauging wells; Cover, seal, or lid | Y | |
| 8-5-320.4.3 | Tank fitting requirements; Floating roof tanks; Solid sampling or gauging wells; Gap between the well and the roof | Y | |
| 8-5-320.6 | Tank Fitting Requirements; Emergency roof drain | Y | |
| 8-5-321 | Primary seal requirements | Y | |
| 8-5-321.1 | Primary seal requirements; No holes, tears, or 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 | Y | |
| 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 | Y | |
| 8-5-322.1 | Secondary seal requirements; No holes, tears, or other openings | Y | |
| 8-5-322.2 | Secondary seal requirements; Insertion of probes | Y | |
| 8-5-322.3 | Secondary seal requirements; Seal gaps (applicable as long as secondary seal is not zero-gap seal as defined in 8-5-322.5) | Y | |
| 8-5-322.5 | Secondary seal requirements; Gap for welded tanks with seal installed after September 4, 1985 (becomes applicable when secondary seal is considered newly installed and subject to zero-gap seal gap requirements) | Y | |
| 8-5-322.6 | Secondary seal requirements; extent of seal | 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 | |
| 8-5-403 | Inspection Requirements for Pressure Vacuum Valves | Y | |
| 8-5-404 | Certification | Y | |
| 8-5-405 | Information required | Y | |
| 8-5-501 | Records | Y | |
| 8-5-501.1 | Records; Type and amounts of liquid; true vapor pressure; Retain 24 months | Y | |
| 8-5-501.2 | Records; Internal and External Floating Roof Tanks; Seal | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – BB.20
## Source-Specific Applicable Requirements
## MACT EXTERNAL FLOATING ROOF WASTEWATER SLOP OIL TANK W/O ZERO-GAP SEALS
## S134 (TANK 194)

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| | Replacement Records – Retain 10 years | | |
| 8-5-503 | Portable hydrocarbon detector | Y | |
| 8-5-602 | Analysis of Samples, True Vapor Pressure | Y | |
| 8-5-604 | Determination of Applicability | Y | |
| 8-5-605 | Pressure-Vacuum Valve Gas Tight Determination | Y | |
| **BAAQMD · Regulation 8, Rule 8** | **Organic Compounds, Wastewater (Oil-Water Separators) (6/15/1994) REQUIREMENTS FOR SLOP OIL VESSELS** | | |
| 8-8-113 | Exemption, Secondary Wastewater Treatment Processes and Stormwater Sewer Systems (segregated) are exempt from 8-8-301, 8-8-302, 8-8-306, 8-8-308 | Y | |
| 8-8-303 | Standards; Gauging and Sampling Devices | Y | |
| 8-8-305 | Standards: Oil-Water Separator and/or Air Flotation Unit Slop Oil Vessels | Y | |
| 8-8-305.1 | Standards: Oil-Water Separator and/or Air Flotation Unit Slop Oil Vessels – fixed cover requirements | Y | |
| 8-8-503 | Monitoring and Records; Inspection and Records | Y | |
| 8-8-504 | Monitoring and Records; Portable Hydrocarbon Detector | Y | |
| 8-8-603 | Manual of Procedures; Inspection procedures | Y | |
| **40 CFR 63, Subpart G** | **SOCMI HON G (01/27/1995) REQUIREMENTS FOR EXTERNAL FLOATING ROOF TANKS** | | |
| 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 – metallic shoe or liquid-mounted | 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--Must float on liquid | Y | |
| 63.119(c)(3)(i) | Storage Vessel Provisions -- Reference Control Technology-- External floating roof --Must float on liquid except during initial fill | Y | |
| 63.119(c)(3)(ii) | Storage Vessel Provisions -- Reference Control Technology-- External floating roof-- Must float on liquid except after completely emptied and degassed | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – BB.20
## Source-Specific Applicable Requirements
## MACT EXTERNAL FLOATING ROOF WASTEWATER SLOP OIL TANK W/O ZERO-GAP SEALS
## S134 (TANK 194)

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| 63.119(c)(3)(iii) | Storage Vessel Provisions -- Reference Control Technology--External floating roof -- Must float on liquid except when completely emptied before refilling | 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 – 5 year intervals | Y | |
| 63.120(b)(1)(iii) | Storage Vessel Provisions -- Procedures to Determine Compliance--External FR with double seals - secondary seal gap measurement – annual requirement | Y | |
| 63.120(b)(1)(iv) | Storage Vessel Provisions -- Procedures to Determine Compliance--External FR seal inspections prior to tank refill with organic HAP after not storing organic HAP for 1 year or longer | Y | |
| 63.120(b)(2) | Storage Vessel Provisions -- Procedures to Determine Compliance--External FR seal gap determination methods | Y | |
| 63.120(b)(2)(i) | Storage Vessel Provisions -- Procedures to Determine Compliance--External FR seal gap determination methods – roof not resting on legs | Y | |
| 63.120(b)(2)(ii) | Storage Vessel Provisions -- Procedures to Determine Compliance--External FR seal gap determination methods – measure gaps around entire circumference of seal and measure width and length of gaps | Y | |
| 63.120(b)(2)(iii) | Storage Vessel Provisions -- Procedures to Determine Compliance--External FR seal gap determination methods – determine total surface area of each gap | Y | |
| 63.120(b)(3) | Storage Vessel Provisions -- Procedures to Determine Compliance--External FR primary seal gap calculation method – total surface area of primary seal gaps <= 212 cm2 per meter of vessel diameter. Maximum width <= 3.81 cm | Y | |
| 63.120(b)(4) | Storage Vessel Provisions -- Procedures to Determine Compliance--External FR secondary seal gap calculation method – total surface area of secondary seal gaps <= 21.2 cm2 per meter of vessel diameter. Maximum width <= 1.27 cm | Y | |
| 63.120(b)(5) | Storage Vessel Provisions -- Procedures to Determine Compliance--External FR primary seal additional requirements | Y | |
| 63.120(b)(5)(i) | Storage Vessel Provisions -- Procedures to Determine Compliance--External FR primary seal additional requirements – metallic shoe seal – shoe geometry | Y | |
| 63.120(b)(5)(ii) | Storage Vessel Provisions -- Procedures to Determine Compliance--External FR primary seal additional requirements – no holes, tears, | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – BB.20
## Source-Specific Applicable Requirements
## MACT EXTERNAL FLOATING ROOF WASTEWATER SLOP OIL TANK W/O ZERO-GAP SEALS
## S134 (TANK 194)

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| | or openings | | |
| 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 requirements – location and extent | Y | |
| 63.120(b)(6)(ii) | Storage Vessel Provisions -- Procedures to Determine Compliance-- External FR secondary seal requirements - no holes, tears or openings | Y | |
| 63.120(b)(7) | Storage Vessel Provisions -- Procedures to Determine Compliance-- External FR unsafe to perform seal measurements or inspect the tank | Y | |
| 63.120(b)(7)(i) | Storage Vessel Provisions -- Procedures to Determine Compliance-- External FR unsafe to perform seal measurements or inspect the tank – complete measurements or inspection within 30 days after determining roof is unsafe or comply with 63.120(b)(7)(ii) | Y | |
| 63.120(b)(7)(ii) | Storage Vessel Provisions -- Procedures to Determine Compliance-- External FR unsafe to perform seal measurements or inspect the tank – empty and remove vessel from service within 45 days after determining roof is unsafe or comply with 63.120(b)(7)(i). Two 30 day extensions are allowed to empty the tank. Decision to use extension must be documented. | Y | |
| 63.120(b)(8) | Storage Vessel Provisions -- Procedures to Determine Compliance External FR Repairs must be made within 45 days after identification or empty and remove tank from service. Two 30 day extensions are allowed to empty the tank. Decision to use extension must be documented. | 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 visual inspection each time emptied – Repair defects before refilling [does not apply to gaskets, slotted membranes, or sleeve seals for Group 1 Refinery MACT tanks per 63.646(e)] | Y | |
| 63.120(b)(10)(ii) | Storage Vessel Provisions -- Procedures to Determine Compliance-- External FR and seal visual inspection each time emptied – 30 day notification | Y | |
| 63.120(b)(10)(iii) | Storage Vessel Provisions -- Procedures to Determine Compliance-- External FR and seal visual inspection each time emptied –- Notification for unplanned | Y | |
| 63.123(a) | Storage Vessel Provisions -- Recordkeeping--Group 1 and Group 2 storage vessel dimensions and capacity. Keep for life of source. | Y | |
| 63.123(d) | Storage Vessel Provisions -- Recordkeeping--Group 1 External floating roof tank requirements - records of seal gap measurements | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – BB.20
## Source-Specific Applicable Requirements
## MACT EXTERNAL FLOATING ROOF WASTEWATER SLOP OIL TANK W/O ZERO-GAP SEALS
## S134 (TANK 194)

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| | (date, raw data, and required calculations) | | |
| 63.123(g) | Storage Vessel Provisions -- Recordkeeping, Extensions for emptying storage vessel – keep documentation specified | Y | |
| **40 CFR 63, Subpart CC** | **National Emission Standards for Hazardous Air Pollutants for Petroleum Refineries (06/12/1996) REQUIREMENTS FOR EXTERNAL FLOATING ROOF TANKS** | | |
| 63.640(c)(2) | Applicability and Designation of Storage Vessels | Y | |
| 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—63 Subpart G exclusions for storage vessels [EFRs exempt from 63.119(c)(2)] | Y | |
| 63.646(d) | Storage Vessel Provisions-References | 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—Exceptions for compliance with inspection requirements of 63.120 of Subpart G – Not required to comply with provisions for gaskets, slotted membranes, and sleeve seals. | 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-Covers or lids closed except when in use | Y | |
| 63.646(f)(2) | Storage Vessel Provisions-Group 1 floating roof requirements-Rim space vents requirements | Y | |
| 63.646(f)(3) | Storage Vessel Provisions-Group 1 floating roof requirements-Automatic bleeder vents requirements | Y | |
| 63.646(l) | Storage Vessel Provisions-State or local permitting agency notification requirements | Y | |
| 63.654(f) | Reporting and Recordkeeping Requirements-Notice of compliance status report requirements | Y | |
| 63.654(f)(1) | Reporting and Recordkeeping Requirements-Notice of compliance status report requirements | Y | |
| 63.654(f)(1)(i) | Reporting and Recordkeeping Requirements-Notice of compliance status report requirements-Reporting--storage vessels | Y | |
| 63.654(f)(1)(i)(A) | Reporting and Recordkeeping Requirements-Notice of compliance status report requirements-Reporting--storage vessels | Y | |
| 63.654(f)(1)(i)(A)(1) | Reporting and Recordkeeping Requirements-Notice of compliance status report requirements-Reporting--storage vessels | Y | |
| 63.654(g) | Periodic Reporting and Recordkeeping Requirements | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – BB.20
## Source-Specific Applicable Requirements
## MACT EXTERNAL FLOATING ROOF WASTEWATER SLOP OIL TANK W/O ZERO-GAP SEALS
## S134 (TANK 194)

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| 63.654(g)(1) | Periodic Reporting and Recordkeeping Requirements-storage vessels [Information related to gaskets, slotted membranes, and sleeve seals not required for storage vessels that are part of existing source] | Y | |
| 63.654(g)(3) | Periodic Reporting and Recordkeeping Requirements-storage vessels with external floating roofs | Y | |
| 63.654(g)(3)(i) | Periodic Reporting and Recordkeeping Requirements-storage vessels with external floating roofs-document results of each seal gap measurement | Y | |
| 63.654(g)(3)(ii) | Periodic Reporting and Recordkeeping Requirements-storage vessels with external floating roofs – extension documentation | Y | |
| 63.654(g)(3)(iii) | Periodic Reporting and Recordkeeping Requirements-storage vessels with external floating roofs – documentation of failures | Y | |
| 63.654(h)(2) | 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 – refilling Group 1 storage vessel. | Y | |
| 63.654(h)(2)(ii) | Reporting and Recordkeeping Requirements-Other reports-Storage vessel notification of inspections –Group 1 storage vessel seal gap measurements – 30 day notification [can be waived or modified by state or local]. | 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 – keep records specified in 63.123 (Subpart G) | Y | |
| 63.654(i)(1)(i) | Reporting and Recordkeeping Requirements-Recordkeeping for storage vessels– keep records specified in 63.123 (Subpart G) except records related to gaskets, slotted membranes, and sleeve seals for vessels in existing sources | Y | |
| 63.654(i)(4) | Reporting and Recordkeeping Requirements—Recordkeeping for storage vessels-Record retention – 5 years | Y | |
| **BAAQMD Condition 20989, Part A** | Throughput limits for source S134 [Basis: 2-1-234.3] | N | |

# IV. Source Specific Applicable Requirements

## Table IV – BB.21
## Source-Specific Applicable Requirements
### EXEMPT TANKS SUBJECT TO MACT RECORDKEEPING
### S91 (TANK 73), S94 (TANK 78), S98 (TANK 101), S99 (TANK 102), S103 (TANK 106), S120 (TANK 165), S130 (TANK 188), S131 (TANK 189), S132 (TANK 191), S136 (TANK 201), S138 (TANK 203), S141 (TANK 213), S142 (TANK 214), S143 (TANK 215), S144 (TANK 216), S145 (TANK 217), S148 (TANK 231), S149 (TANK 232), S157 (TANK 252), S162 (TANK 262), S164 (TANK 264), S165 (TANK 265), S166 (TANK 266), S167 (TANK 268), S168 (TANK 269), S169 (TANK 270), S171 (TANK 273), S172 (TANK 279), S173 (TANK 280), S174 (TANK 281), S179 (TANK 291), S180 (TANK 292), S187 (TANK 299), S191 (TANK 303), S192 (TANK 304), S202 (TANK 521), S204 (TANK 528), S205 (TANK 529), S206 (TANK 530), S207 (TANK 531), S209 (TANK 674), S224 (TANK 746), S225 (TANK 747), S226 (TANK 748), S227 (TANK 749), S228 (TANK 750), S229 (TANK 751), S230 (TANK 752), S231 (TANK 753), S236 (TANK 770), S237 (TANK 771), S240 (TANK 774), S241 (TANK 775), S260 (TANK 1009), S262 (TANK 1011), S263 (TANK 1012), S266 (TANK 1345), S267 (TANK 1346), S286 (F3), S287 (F10), S293 (F805)

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| **BAAQMD · Regulation 8, Rule 5** | **Organic Compounds, Storage of Organic Liquids (11/27/02) EXEMPT** | | |
| 8-5-117 | Exemption, Low Vapor Pressure | Y | |
| **40 CFR 63, Subpart G** | **SOCMI HON G (01/27/1995) REQUIREMENTS FOR GROUP 2 RECORDKEEPING ONLY** | | |
| 63.119(a)(3) | Storage Vessel Provisions – Reference Control Technology – Group 2 storage vessels comply only with recordkeeping requirements in 63.123(a) | Y | |
| 63.123(a) | Storage Vessel Provisions – Recordkeeping – Group 2 storage vessels only required to keep tank dimensions and capacity analysis. Retain for life of source. | Y | |
| **40 CFR 63, Subpart CC** | **National Emission Standards for Hazardous Air Pollutants for Petroleum Refining (8/18/95) REQUIREMENTS FOR GROUP 2 RECORDKEEPING ONLY** | | |
| 63.640(c)(2) | Applicability and Designation of Storage Vessels | 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 – Keep records specified in 63.123 | Y | |
| 63.654(i)(1)(iv) | Reporting and Recordkeeping Requirements-Recordkeeping for storage vessels – Data and assumptions used to determine Group 2 classification | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – BB.21
## Source-Specific Applicable Requirements
### EXEMPT TANKS SUBJECT TO MACT RECORDKEEPING
### S91 (TANK 73), S94 (TANK 78), S98 (TANK 101), S99 (TANK 102), S103 (TANK 106), S120 (TANK 165), S130 (TANK 188), S131 (TANK 189), S132 (TANK 191), S136 (TANK 201), S138 (TANK 203), S141 (TANK 213), S142 (TANK 214), S143 (TANK 215), S144 (TANK 216), S145 (TANK 217), S148 (TANK 231), S149 (TANK 232), S157 (TANK 252), S162 (TANK 262), S164 (TANK 264), S165 (TANK 265), S166 (TANK 266), S167 (TANK 268), S168 (TANK 269), S169 (TANK 270), S171 (TANK 273), S172 (TANK 279), S173 (TANK 280), S174 (TANK 281), S179 (TANK 291), S180 (TANK 292), S187 (TANK 299), S191 (TANK 303), S192 (TANK 304), S202 (TANK 521), S204 (TANK 528), S205 (TANK 529), S206 (TANK 530), S207 (TANK 531), S209 (TANK 674), S224 (TANK 746), S225 (TANK 747), S226 (TANK 748), S227 (TANK 749), S228 (TANK 750), S229 (TANK 751), S230 (TANK 752), S231 (TANK 753), S236 (TANK 770), S237 (TANK 771), S240 (TANK 774), S241 (TANK 775), S260 (TANK 1009), S262 (TANK 1011), S263 (TANK 1012), S266 (TANK 1345), S267 (TANK 1346), S286 (F3), S287 (F10), S293 (F805)

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| 63.654(i)(4) | Reporting and Recordkeeping Requirements-Recordkeeping--Record retention – 5 years | Y | |
| **BAAQMD Condition 20773** | | | |
| Part 1 | Requirement to verify exempt status of tank based on true vapor pressure of contents [Basis: Regulation 8-5-117, 2-6-409.2] | Y | |
| Part 2 | Record retention requirement [Basis: Regulation 2-6-409.2] | Y | |

## Table IV – BB.22
## Source-Specific Applicable Requirements
### EXEMPT FIXED ROOF TANKS WITH VAPOR RECOVERY TO FUEL GAS
### S158 (TANK 258), S175 (TANK 284)

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| **BAAQMD · Regulation 8, Rule 5** | **Organic Compounds, Storage of Organic Liquids (11/27/02) EXEMPT** | | |
| 8-5-117 | Exemption, Low Vapor Pressure | Y | |
| **40 CFR 63, Subpart CC** | **National Emission Standards for Hazardous Air Pollutants for Petroleum Refining (8/18/95) EXEMPTION FOR TANKS VENTED TO FUEL GAS SYSTEM** | | |
| 63.640(c)(2) | Applicability and Designation of Storage Vessels | Y | |
| 63.640(d)(5) | Exemption for emission points routed to fuel gas system | Y | |
| **BAAQMD Condition 20773** | | | |

# IV. Source Specific Applicable Requirements

## Table IV – BB.22
## Source-Specific Applicable Requirements
### EXEMPT FIXED ROOF TANKS WITH VAPOR RECOVERY TO FUEL GAS
### S158 (TANK 258), S175 (TANK 284)

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| Part 1 | Requirement to verify exempt status of tank based on true vapor pressure of contents [Basis: Regulation 8-5-117, 2-6-409.2] | Y | |
| Part 2 | Record retention requirement [Basis: Regulation 2-6-409.2] | Y | |

## Table IV – BB.23A
## Source-Specific Applicable Requirements
### EXEMPT EXTERNAL FLOATING ROOF TANKS
### SUBJECT TO MACT RECORDKEEPING (NOTE 2)
### BUT WITH GROUP I MACT FLEXIBILITY
### S108 (TANK 153), S109 (TANK 154), S127 (TANK 173)

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| **BAAQMD · Regulation 8, Rule 5** | **Organic Compounds, Storage of Organic Liquids (11/27/02) EXEMPT** | | |
| 8-5-117 | Exemption, Low Vapor Pressure | Y | |
| **40 CFR 63, Subpart G** | **SOCMI HON G (01/27/1995) REQUIREMENTS FOR GROUP 2 RECORDKEEPING ONLY** | | |
| 63.119(a)(3) | Storage Vessel Provisions – Reference Control Technology – Group 2 storage vessels comply only with recordkeeping requirements in 63.123(a) | Y | |
| 63.123(a) | Storage Vessel Provisions – Recordkeeping – Group 2 storage vessels only required to keep tank dimensions and capacity analysis. Retain for life of source. | Y | |
| **40 CFR 63, Subpart CC** | **National Emission Standards for Hazardous Air Pollutants for Petroleum Refining (8/18/95) REQUIREMENTS FOR GROUP 2 RECORDKEEPING ONLY** | | |
| 63.640(c)(2) | Applicability and Designation of Storage Vessels | 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 – Keep records specified in 63.123 | Y | |
| 63.654(i)(1)(iv) | Reporting and Recordkeeping Requirements-Recordkeeping for | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – BB.23A
## Source-Specific Applicable Requirements
## EXEMPT EXTERNAL FLOATING ROOF TANKS
## SUBJECT TO MACT RECORDKEEPING (NOTE 2)
## BUT WITH GROUP I MACT FLEXIBILITY
## S108 (TANK 153), S109 (TANK 154), S127 (TANK 173)

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| | storage vessels – Data and assumptions used to determine Group 2 classification | | |
| 63.654(i)(4) | Reporting and Recordkeeping Requirements-Recordkeeping--Record retention – 5 years | Y | |
| **BAAQMD Condition 20773** | | | |
| Part 1 | Requirement to verify exempt status of tank based on true vapor pressure of contents [Basis: Regulation 8-5-117, 2-6-409.2] | Y | |
| Part 2 | Record retention requirement [Basis: Regulation 2-6-409.2] | Y | |

2. Sources S108, S109, and S127 currently contain low vapor pressure liquids, are exempt from BAAQMD permitting requirements, and fall under the MACT Group II requirements for recordkeeping. However, these tanks may be operated as MACT Group I tanks in the future. Table B23A shows the appropriate applicability for these tanks as MACT Group II tanks. Table B23B shows the appropriate applicability for these tanks as MACT Group I tanks including the BAAQMD Regulation 8, Rule 5 requirements for zero-gap secondary seals.

## Table IV – BB.23B
## Source-Specific Applicable Requirements
## EXEMPT EXTERNAL FLOATING ROOF TANKS
## SUBJECT TO MACT RECORDKEEPING (NOTE 2)
## BUT WITH GROUP I MACT FLEXIBILITY
## S108 (TANK 153), S109 (TANK 154), S127 (TANK 173)

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforce-able (Y/N) | Future Effective Date |
|---|---|---|---|
| **BAAQMD Regulation 8, Rule 5** | **Organic Compounds, Storage of Organic Liquids (11/27/02) REQUIREMENTS FOR EXTERNAL FLOATING ROOF TANKS** | | |
| 8-5-111 | Limited Exemption, Tank Removal From and Return to Service | Y | |
| 8-5-111.1 | Limited Exemption, Tank Removal From and Return to Service, Notification | Y | |
| 8-5-111.1.1 | Limited Exemption, Tank Removal From and Return to Service, Notification, 3 day prior notification | Y | |
| 8-5-111.1.2 | Limited Exemption, Tank Removal From and Return to Service, Notification, Telephone notification | Y | |
| 8-5-111.2 | Limited Exemption, Tank Removal From and Return to Service, Tank | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – BB.23B
## Source-Specific Applicable Requirements
## EXEMPT EXTERNAL FLOATING ROOF TANKS
## SUBJECT TO MACT RECORDKEEPING (NOTE 2)
## BUT WITH GROUP I MACT FLEXIBILITY
## S108 (TANK 153), S109 (TANK 154), S127 (TANK 173)

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforce-able (Y/N) | Future Effective Date |
|---|---|---|---|
| | in compliance prior to notification | | |
| 8-5-111.3 | Limited Exemption, Tank Removal From and Return to Service, Floating roof tanks | 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 | |
| 8-5-112.1 | Limited Exemption, Tanks in Operation, Notification | Y | |
| 8-5-112.1.1 | Limited Exemption, Tanks in Operation, Notification, 3 day prior notification | Y | |
| 8-5-112.1.2 | Limited Exemption, Tanks in Operation, Notification, Telephone notification | Y | |
| 8-5-112.2 | Limited Exemption, Tanks in Operation, Tank in compliance prior to start of work. Certified per 8-5-404 | Y | |
| 8-5-112.3 | Limited Exemption, Tanks in Operation, No product movement, Minimize emissions | Y | |
| 8-5-112.4 | Limited Exemption, Tanks in Operation, Not to exceed 7 days | 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 | |
| 8-5-304.1 | Requirements for External Floating Roofs; Tank fitting requirements | Y | |
| 8-5-304.2 | Requirements for External Floating Roofs; Primary seal requirements | Y | |
| 8-5-304.3 | Requirements for External Floating Roofs; Secondary seal requirements | Y | |
| 8-5-304.4 | Requirements for External Floating Roofs; Floating roof requirements | 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 | |
| 8-5-320.3.1 | Tank Fitting Requirements; Floating roof tanks, Gasketed covers, seals, lids - Gap requirements | Y | |
| 8-5-320.4 | Tank Fitting Requirements; Solid sampling or gauging well requirements in floating roof tanks | Y | |
| 8-5-320.4.1 | Tank Fitting Requirements; Solid sampling or gauging well requirements-projection below liquid surface | Y | |
| 8-5-320.4.2 | Tank Fitting Requirements; Solid sampling or gauging well requirements-cover, seal, or lid | Y | |
| 8-5-320.4.3 | Tank Fitting Requirements; Solid sampling or gauging well requirements-gap between well and roof | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – BB.23B
## Source-Specific Applicable Requirements
## EXEMPT EXTERNAL FLOATING ROOF TANKS
## SUBJECT TO MACT RECORDKEEPING (NOTE 2)
## BUT WITH GROUP I MACT FLEXIBILITY
## S108 (TANK 153), S109 (TANK 154), S127 (TANK 173)

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforce-able (Y/N) | Future Effective Date |
|---|---|---|---|
| 8-5-320.6 | Tank Fitting Requirements; Emergency roof drain | Y | |
| 8-5-321 | Primary Seal Requirements | Y | |
| 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 | Y | |
| 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 | Y | |
| 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; Welded external floating roof tanks with seals installed after 9/4/1985 or welded internal floating roof tanks with seals installed after 2/1/1993 | Y | |
| 8-5-322.6 | Secondary Seal Requirements; Extent of seal | 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 | |
| 8-5-401 | 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 | |
| 8-5-501.1 | 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 | |
| 8-5-503 | Portable Hydrocarbon Detector | Y | |
| 8-5-602 | Analysis of Samples, True Vapor Pressure | Y | |
| 8-5-604 | Determination of Applicability | Y | |
| **40 CFR 63, Subpart G** | **SOCMI HON G (01/27/1995) REQUIREMENTS FOR EXTERNAL FLOATING ROOF TANKS** | | |
| 63.119(a) | Storage Vessel Provisions -- Reference Control Technology | Y | |
| 63.119(a)(1) | Storage Vessel Provisions -- Reference Control Technology--Group | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – BB.23B
## Source-Specific Applicable Requirements
## EXEMPT EXTERNAL FLOATING ROOF TANKS
## SUBJECT TO MACT RECORDKEEPING (NOTE 2)
## BUT WITH GROUP I MACT FLEXIBILITY
## S108 (TANK 153), S109 (TANK 154), S127 (TANK 173)

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforce-able (Y/N) | Future Effective Date |
|---|---|---|---|
| | 1, TVP < 76.6 kPa | | |
| 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 – metallic shoe or liquid-mounted | 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--Must float on liquid | Y | |
| 63.119(c)(3)(i) | Storage Vessel Provisions -- Reference Control Technology--External floating roof --Must float on liquid except during initial fill | Y | |
| 63.119(c)(3)(ii) | Storage Vessel Provisions -- Reference Control Technology--External floating roof-- Must float on liquid except after completely emptied and degassed | Y | |
| 63.119(c)(3)(iii) | Storage Vessel Provisions -- Reference Control Technology--External floating roof -- Must float on liquid except when completely emptied before refilling | 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 – 5 year intervals | Y | |
| 63.120(b)(1)(iii) | Storage Vessel Provisions -- Procedures to Determine Compliance--External FR with double seals - secondary seal gap measurement – annual requirement | Y | |
| 63.120(b)(1)(iv) | Storage Vessel Provisions -- Procedures to Determine Compliance--External FR seal inspections prior to tank refill with organic HAP after not storing organic HAP for 1 year or longer | Y | |
| 63.120(b)(2) | Storage Vessel Provisions -- Procedures to Determine Compliance--External FR seal gap determination methods | Y | |
| 63.120(b)(2)(i) | Storage Vessel Provisions -- Procedures to Determine Compliance--External FR seal gap determination methods – roof not resting on | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – BB.23B
## Source-Specific Applicable Requirements
## EXEMPT EXTERNAL FLOATING ROOF TANKS
## SUBJECT TO MACT RECORDKEEPING (NOTE 2)
## BUT WITH GROUP I MACT FLEXIBILITY
## S108 (TANK 153), S109 (TANK 154), S127 (TANK 173)

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforce-able (Y/N) | Future Effective Date |
|---|---|---|---|
| | legs | | |
| 63.120(b)(2)(ii) | Storage Vessel Provisions -- Procedures to Determine Compliance--External FR seal gap determination methods – measure gaps around entire circumference of seal and measure width and length of gaps | Y | |
| 63.120(b)(2)(iii) | Storage Vessel Provisions -- Procedures to Determine Compliance--External FR seal gap determination methods – determine total surface area of each gap | Y | |
| 63.120(b)(3) | Storage Vessel Provisions -- Procedures to Determine Compliance--External FR primary seal gap calculation method – total surface area of primary seal gaps <= 212 cm2 per meter of vessel diameter. Maximum width <= 3.81 cm | Y | |
| 63.120(b)(4) | Storage Vessel Provisions -- Procedures to Determine Compliance--External FR secondary seal gap calculation method – total surface area of secondary seal gaps <= 21.2 cm2 per meter of vessel diameter. Maximum width <= 1.27 cm | Y | |
| 63.120(b)(5) | Storage Vessel Provisions -- Procedures to Determine Compliance--External FR primary seal additional requirements | Y | |
| 63.120(b)(5)(i) | Storage Vessel Provisions -- Procedures to Determine Compliance--External FR primary seal additional requirements – metallic shoe seal – shoe geometry | Y | |
| 63.120(b)(5)(ii) | Storage Vessel Provisions -- Procedures to Determine Compliance--External FR primary seal additional requirements – no holes, tears, or openings | 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 requirements – location and extent | Y | |
| 63.120(b)(6)(ii) | Storage Vessel Provisions -- Procedures to Determine Compliance--External FR secondary seal requirements - no holes, tears or openings | Y | |
| 63.120(b)(7) | Storage Vessel Provisions -- Procedures to Determine Compliance--External FR unsafe to perform seal measurements or inspect the tank | Y | |
| 63.120(b)(7)(i) | Storage Vessel Provisions -- Procedures to Determine Compliance--External FR unsafe to perform seal measurements or inspect the tank – complete measurements or inspection within 30 days after determining roof is unsafe or comply with 63.120(b)(7)(ii) | Y | |
| 63.120(b)(7)(ii) | Storage Vessel Provisions -- Procedures to Determine Compliance--External FR unsafe to perform seal measurements or inspect the tank – empty and remove vessel from service within 45 days after determining roof is unsafe or comply with 63.120(b)(7)(i). Two 30 | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – BB.23B
## Source-Specific Applicable Requirements
## EXEMPT EXTERNAL FLOATING ROOF TANKS
## SUBJECT TO MACT RECORDKEEPING (NOTE 2)
## BUT WITH GROUP I MACT FLEXIBILITY
## S108 (TANK 153), S109 (TANK 154), S127 (TANK 173)

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforce-able (Y/N) | Future Effective Date |
|---|---|---|---|
| | day extensions are allowed to empty the tank. Decision to use extension must be documented. | | |
| 63.120(b)(8) | Storage Vessel Provisions -- Procedures to Determine Compliance External FR Repairs must be made within 45 days after identification or empty and remove tank from service. Two 30 day extensions are allowed to empty the tank. Decision to use extension must be documented. | 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 visual inspection each time emptied – Repair defects before refilling [does not apply to gaskets, slotted membranes, or sleeve seals for Group 1 Refinery MACT tanks per 63.646(e)] | Y | |
| 63.120(b)(10)(ii) | Storage Vessel Provisions -- Procedures to Determine Compliance-- External FR and seal visual inspection each time emptied – 30 day notification | Y | |
| 63.120(b)(10)(iii) | Storage Vessel Provisions -- Procedures to Determine Compliance-- External FR and seal visual inspection each time emptied –- Notification for unplanned | Y | |
| 63.123(a) | Storage Vessel Provisions -- Recordkeeping--Group 1 and Group 2 storage vessel dimensions and capacity. Keep for life of source. | Y | |
| 63.123(d) | Storage Vessel Provisions -- Recordkeeping--Group 1 External floating roof tank requirements - records of seal gap measurements (date, raw data, and required calculations) | Y | |
| 63.123(g) | Storage Vessel Provisions -- Recordkeeping, Extensions for emptying storage vessel – keep documentation specified | Y | |
| **40 CFR 63, Subpart CC** | **National Emission Standards for Hazardous Air Pollutants for Petroleum Refineries (06/12/1996) REQUIREMENTS FOR EXTERNAL FLOATING ROOF TANKS** | | |
| 63.640(c)(2) | Applicability and Designation of Storage Vessels | Y | |
| 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—63 Subpart G exclusions for storage vessels [EFRs exempt from 63.119(c)(2)] | Y | |
| 63.646(d) | Storage Vessel Provisions-References | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – BB.23B
## Source-Specific Applicable Requirements
## EXEMPT EXTERNAL FLOATING ROOF TANKS
## SUBJECT TO MACT RECORDKEEPING (NOTE 2)
## BUT WITH GROUP I MACT FLEXIBILITY
## S108 (TANK 153), S109 (TANK 154), S127 (TANK 173)

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforce-able (Y/N) | Future Effective Date |
|---|---|---|---|
| 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—Exceptions for compliance with inspection requirements of 63.120 of Subpart G – Not required to comply with provisions for gaskets, slotted membranes, and sleeve seals. | 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-Covers or lids closed except when in use | Y | |
| 63.646(f)(2) | Storage Vessel Provisions-Group 1 floating roof requirements-Rim space vents requirements | Y | |
| 63.646(f)(3) | Storage Vessel Provisions-Group 1 floating roof requirements-Automatic bleeder vents requirements | Y | |
| 63.646(l) | Storage Vessel Provisions-State or local permitting agency notification requirements | Y | |
| 63.654(f) | Reporting and Recordkeeping Requirements-Notice of compliance status report requirements | Y | |
| 63.654(f)(1) | Reporting and Recordkeeping Requirements-Notice of compliance status report requirements | Y | |
| 63.654(f)(1)(i) | Reporting and Recordkeeping Requirements-Notice of compliance status report requirements-Reporting--storage vessels | Y | |
| 63.654(f)(1)(i)(A) | Reporting and Recordkeeping Requirements-Notice of compliance status report requirements-Reporting--storage vessels | Y | |
| 63.654(f)(1)(i)(A)(1) | Reporting and Recordkeeping Requirements-Notice of compliance status report requirements-Reporting--storage vessels | Y | |
| 63.654(g) | Periodic Reporting and Recordkeeping Requirements | Y | |
| 63.654(g)(1) | Periodic Reporting and Recordkeeping Requirements-storage vessels [Information related to gaskets, slotted membranes, and sleeve seals not required for storage vessels that are part of existing source] | Y | |
| 63.654(g)(3) | Periodic Reporting and Recordkeeping Requirements-storage vessels with external floating roofs | Y | |
| 63.654(g)(3)(i) | Periodic Reporting and Recordkeeping Requirements-storage vessels with external floating roofs-document results of each seal gap measurement | Y | |
| 63.654(g)(3)(ii) | Periodic Reporting and Recordkeeping Requirements-storage vessels with external floating roofs – extension documentation | Y | |
| 63.654(g)(3)(iii) | Periodic Reporting and Recordkeeping Requirements-storage vessels with external floating roofs – documentation of failures | Y | |
| 63.654(h)(2) | Reporting and Recordkeeping Requirements-Other reports-Storage | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – BB.23B
## Source-Specific Applicable Requirements
## EXEMPT EXTERNAL FLOATING ROOF TANKS
## SUBJECT TO MACT RECORDKEEPING (NOTE 2)
## BUT WITH GROUP I MACT FLEXIBILITY
## S108 (TANK 153), S109 (TANK 154), S127 (TANK 173)

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforce-able (Y/N) | Future Effective Date |
|---|---|---|---|
| | vessel notification of inspections. | | |
| 63.654(h)(2)(i) | Reporting and Recordkeeping Requirements-Other reports-Storage vessel notification of inspections – refilling Group 1 storage vessel. | Y | |
| 63.654(h)(2)(ii) | Reporting and Recordkeeping Requirements-Other reports-Storage vessel notification of inspections –Group 1 storage vessel seal gap measurements – 30 day notification [can be waived or modified by state or local]. | 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 – keep records specified in 63.123 (Subpart G) | Y | |
| 63.654(i)(1)(i) | Reporting and Recordkeeping Requirements-Recordkeeping for storage vessels– keep records specified in 63.123 (Subpart G) except records related to gaskets, slotted membranes, and sleeve seals for vessels in existing sources | Y | |
| 63.654(i)(4) | Reporting and Recordkeeping Requirements—Recordkeeping for storage vessels-Record retention – 5 years | Y | |

2. Sources S108, S109, and S127 currently contain low vapor pressure liquids, are exempt from BAAQMD permitting requirements, and fall under the MACT Group II requirements for recordkeeping. However, these tanks may be operated as MACT Group I tanks in the future. Table B23A shows the appropriate applicability for these tanks as MACT Group II tanks. Table B23B shows the appropriate applicability for these tanks as MACT Group I tanks including the BAAQMD Regulation 8, Rule 5 requirements for zero-gap secondary seals.

## Table IV – BB.24
## Source-Specific Applicable Requirements
## NSPS K EXEMPT TANKS SUBJECT TO MACT RECORDKEEPING
## S90 (TANK 67), S105 (TANK 129)

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| **BAAQMD · Regulation 8, Rule 5** | **Organic Compounds, Storage of Organic Liquids (11/27/02) EXEMPT** | | |
| 8-5-117 | Exemption, Low Vapor Pressure | Y | |
| **40 CFR 60,** | **Standards of Performance for Storage Vessels for Volatile Organic** | | |

# IV. Source Specific Applicable Requirements

## Table IV – BB.24
## Source-Specific Applicable Requirements
## NSPS K EXEMPT TANKS SUBJECT TO MACT RECORDKEEPING
## S90 (TANK 67), S105 (TANK 129)

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| **Subpart K** | **Liquid Storage Vessels for Which Construction, Reconstruction, or Modification Commenced After June 11, 1973, and Prior to May 19, 1978 (4/4/1980)** | | |
| 60.110(a) | Applicability and Designation of Affected Facility; Affected facility | Y | |
| 60.110(c)(2) | Applicability and Designation of Affected Facility-->65,000 gal after 6/11/1973 and before 5/19/1978. | Y | |
| **40 CFR 63, Subpart G** | **SOCMI HON G (01/27/1995) REQUIREMENTS FOR GROUP 2 RECORDKEEPING ONLY** | | |
| 63.119(a)(3) | Storage Vessel Provisions – Reference Control Technology – Group 2 storage vessels comply only with recordkeeping requirements in 63.123(a) | Y | |
| 63.123(a) | Storage Vessel Provisions – Recordkeeping – Group 2 storage vessels only required to keep tank dimensions and capacity analysis. Retain for life of source. | Y | |
| **40 CFR 63, Subpart CC** | **National Emission Standards for Hazardous Air Pollutants for Petroleum Refining (8/18/95) REQUIREMENTS FOR GROUP 2 RECORDKEEPING ONLY** | | |
| 63.640(c)(2) | Applicability and Designation of Storage Vessels | Y | |
| 63.640(n) | Applicability and Designation of Affected Source Overlap for Storage Vessels | Y | |
| 63.640(n)(7) | Applicability and Designation of Affected Source Overlap for Storage Vessels—Group 2 storage vessel subject to NSPS, Subparts K or Ka but exempt from control requirements of NSPS, Subparts K or Ka is required to comply only with 63 Subpart CC | 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 – Keep records specified in 63.123 | Y | |
| 63.654(i)(1)(iv) | Reporting and Recordkeeping Requirements-Recordkeeping for storage vessels – Data and assumptions used to determine Group 2 classification | Y | |
| 63.654(i)(4) | Reporting and Recordkeeping Requirements-Recordkeeping--Record retention – 5 years | Y | |
| **BAAQMD Condition 20773** | | | |
| Part 1 | Requirement to verify exempt status of tank based on true vapor pressure of contents [Basis: Regulation 8-5-117, 2-6-409.2] | Y | |
| Part 2 | Record retention requirement [Basis: Regulation 2-6-409.2] | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – BB.25
## Source-Specific Applicable Requirements
### EXEMPT BUTANE SPHERES
### S188 (TANK 300), S189 (TANK 301), S190 (TANK 302), S253 (TANK 833)

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| **BAAQMD · Regulation 8, Rule 5** | **Organic Compounds, Storage of Organic Liquids (11/27/02) REQUIREMENTS FOR PRESSURE TANKS** | | |
| 8-5-111 | Limited Exemption, Tank Removal From and Return to Service | Y | |
| 8-5-111.1 | Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO | Y | |
| 8-5-111.1.1 | Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO; 3 day prior notification | Y | |
| 8-5-111.1.2 | Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO; Telephone notification | Y | |
| 8-5-111.2 | Limited Exemption, Tank Removal From and Return to Service; Compliance before notification | Y | |
| 8-5-111.4 | Limited Exemption, Tank Removal From and Return to Service; Use of vapor recovery | 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 | |
| 8-5-112.1 | Limited Exemption, Tanks in Operation; Notice to the APCO | Y | |
| 8-5-112.1.1 | Limited Exemption, Tanks in Operation; Notice to the APCO; 3 day prior notification | Y | |
| 8-5-112.1.2 | Limited Exemption, Tanks in Operation; Notice to the APCO; Telephone notification | Y | |
| 8-5-112.2 | Limited Exemption, Tanks in Operation; Compliance and certification before commencement of work | Y | |
| 8-5-112.3 | Limited Exemption, Tanks in Operation; No product movement; minimization of emissions | Y | |
| 8-5-112.4 | Limited Exemption, Tanks in Operation; Exemption does not exceed 7 days | Y | |
| 8-5-301 | Storage Tank Control Requirements (internal floating roof, external floating roof, or approved emission control system) | Y | |
| 8-5-303 | Requirements for Pressure Vacuum Valves | Y | |
| 8-5-303.1 | Requirements for Pressure Vacuum Valves; Set pressure | Y | |
| 8-5-303.2 | Requirements for Pressure Vacuum Valves; Installation, maintenance, operation | Y | |
| 8-5-307 | Requirements for Pressure Tanks and Blanketed Tanks | 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 | |

# IV. Source Specific Applicable Requirements

## Table IV – BB.25
## Source-Specific Applicable Requirements
### EXEMPT BUTANE SPHERES
### S188 (TANK 300), S189 (TANK 301), S190 (TANK 302), S253 (TANK 833)

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| 8-5-328.2 | Tank degassing requirements; Ozone excess day prohibition | Y | |
| 8-5-403 | Inspection Requirements for Pressure Vacuum Valves | Y | |
| 8-5-404 | Certification | Y | |
| 8-5-501 | Records | Y | |
| 8-5-501.1 | Records; Type and amounts of liquid; blanket gas; true vapor pressure; Retain 24 months | Y | |
| 8-5-503 | Portable hydrocarbon detector | Y | |
| 8-5-602 | Analysis of Samples, True Vapor Pressure | Y | |
| 8-5-604 | Determination of Applicability | Y | |
| 8-5-605 | Pressure Vacuum Valve Gas Tight Determination | Y | |
| **40 CFR 60, Subpart Kb** | **Standards of Performance for Storage Vessels for Volatile Organic Liquid Storage Vessels for Which Construction, Reconstruction, or Modification Commenced After July 23, 1984 (12/14/2000) EXEMPTION FOR PRESSURE TANKS (applies to S188 only)** | | |
| 60.110b(d)(2) | Exemption for pressure vessels designed to operate in excess of 204.9 kPa and without emissions to the atmosphere. | Y | |
| **40 CFR 63, Subpart CC** | **National Emission Standards for Hazardous Air Pollutants for Petroleum Refining (8/18/95) EXEMPTION FOR TANKS VENTED TO FUEL GAS SYSTEM** | | |
| 63.640(c)(2) | Applicability and Designation of Storage Vessels | Y | |
| 63.640(d)(5) | Exemption for emission points routed to fuel gas system | Y | |

## Table IV – BB.27
## Source-Specific Applicable Requirements
### NSPS KB EXEMPT FIXED ROOF WASTEWATER TANKS VENTED TO FUEL GAS
### TANK 235, TANK 236

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| **BAAQMD · Regulation 8, Rule 5** | **Organic Compounds, Storage of Organic Liquids (11/27/02) EXEMPT** | | |
| 8-5-117 | Exemption, Low Vapor Pressure | Y | |
| **40 CFR 60, Subpart Kb** | **Standards of Performance for Storage Vessels for Volatile Organic Liquid Storage Vessels for Which Construction, Reconstruction, or Modification Commenced After July 23, 1984 (12/14/2000) REQUIREMENTS FOR RECORDKEEPING ONLY** | | |
| 60.110b(a) | Applicability and Designation of Affected Facility; Volatile organic liquid storage vessels > or = to 40 cu m, after 7/23/1984 | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – BB.27
## Source-Specific Applicable Requirements
## NSPS Kb Exempt Fixed Roof Wastewater Tanks Vented to Fuel Gas
## Tank 235, Tank 236

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| 60.110b(c) | Applicability and Designation of Affected Facility; Exemptions for storage vessels > or = to 75 cu m | Y | |
| 60.116b(a) | Monitoring of Operations; Record retention | Y | |
| 60.116b(b) | Monitoring of Operations; Permanent record requirements | Y | |
| 60.116b(e) | Monitoring of Operations; Determine TVP | Y | |
| 60.116b(e)(3) | Monitoring of Operations; Determine TVP-other liquids | Y | |
| 60.116b(f) | Monitoring of Operations; Waste storage tanks (indeterminate or variable composition) | Y | |
| 60.116b(g) | Monitoring of Operations; Exemption from 60.116b(c) and 60.116b(d) for tanks with closed vent system and control device | Y | |
| **40 CFR 60, Subpart QQQ** | **Standards of Performance for VOC Emissions from Petroleum Refinery Wastewater Systems (8/18/95) REQUIREMENTS FOR FIXED ROOF TANKS ROUTED TO FUEL GAS** | | |
| 60.690(a)(1) | Applicability and Designation of Affected Facility | Y | |
| 60.690(a)(3) | Applicability and Designation of Affected Facility | Y | |
| 60.691 | Definitions: Closed Vent System. If gas or vapor from regulated equipment are routed to a process (e.g., petroleum refinery fuel gas system), the process shall not be considered a closed vent system and is not subject to the closed vent system standards. | Y | |
| 60.692-1 | Standards: General | Y | |
| 60.692-1(a) | Standards: General | Y | |
| 60.692-1(b) | Standards: General | Y | |
| 60.692-3 | Standards: Oil-Water Separators (includes storage vessels) | Y | |
| 60.692-3(a) | Standards: Oil-Water Separators (includes storage vessels) | Y | |
| 60.692-3(a)(1) | Standards: Oil-Water Separators (includes storage vessels) | Y | |
| 60.692-3(a)(2) | Standards: Oil-Water Separators (includes storage vessels) | Y | |
| 60.692-3(a)(3) | Standards: Oil-Water Separators (includes storage vessels) | Y | |
| 60.692-3(a)(4) | Standards: Oil-Water Separators (includes storage vessels) | Y | |
| 60.692-3(a)(5) | Standards: Oil-Water Separators (includes storage vessels) | Y | |
| 60.692-3(f) | Standards: Oil-Water Separators (includes storage vessels) | Y | |
| 60.692-6 | Standards: Delay of Repair | Y | |
| 60.692-6(a) | Standards: Delay of Repair | Y | |
| 60.692-6(b) | Standards: Delay of Repair | Y | |
| 60.697 | Recordkeeping Requirements | Y | |
| 60.697(a) | Recordkeeping Requirements | Y | |
| 60.697(c) | Recordkeeping Requirements | Y | |
| 60.697(e)(1) | Recordkeeping Requirements | Y | |
| 60.697(e)(2) | Recordkeeping Requirements | Y | |
| 60.697(e)(3) | Recordkeeping Requirements | Y | |
| 60.697(e)(4) | Recordkeeping Requirements | Y | |
| 60.697(f)(1) | Recordkeeping Requirements | Y | |
| 60.697(f)(2) | Recordkeeping Requirements | Y | |
| 60.698(c) | Reporting Requirements | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – BB.27
## Source-Specific Applicable Requirements
## NSPS Kb Exempt Fixed Roof Wastewater Tanks Vented to Fuel Gas
## Tank 235, Tank 236

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| **40 CFR 63, Subpart CC** | **National Emission Standards for Hazardous Air Pollutants for Petroleum Refining (8/18/95) REQUIREMENTS FOR EMISSION POINTS ROUTED TO FUEL GAS** | | |
| 63.640(c)(3) | Wastewater streams and treatment operations associated with petroleum refining process units meeting the criteria of section 63.640(a) | Y | |
| 63.640(d)(5) | Exemption for emission points routed to fuel gas system | Y | |
| **BAAQMD Condition 20773** | | | |
| Part 1 | Requirement to verify exempt status of tank based on true vapor pressure of contents [Basis: Regulation 8-5-117, 2-6-409.2] | Y | |
| Part 2 | Record retention requirement [Basis: Regulation 2-6-409.2] | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – BB.28
## Source-Specific Applicable Requirements
## NSPS Kb Exempt Fixed Roof Wastewater Tank
## Tank 237

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| **BAAQMD · Regulation 8, Rule 5** | **Organic Compounds, Storage of Organic Liquids (11/27/02) EXEMPT** | | |
| 8-5-117 | Exemption, Low Vapor Pressure | Y | |
| **40 CFR 60, Subpart Kb** | **Standards of Performance for Storage Vessels for Volatile Organic Liquid Storage Vessels for Which Construction, Reconstruction, or Modification Commenced After July 23, 1984 (12/14/2000) REQUIREMENTS FOR RECORDKEEPING ONLY** | | |
| 60.110b(a) | Applicability and Designation of Affected Facility; Volatile organic liquid storage vessels > or = to 40 cu m, after 7/23/1984 | Y | |
| 60.110b(c) | Applicability and Designation of Affected Facility; Exemptions for storage vessels > or = to 75 cu m | Y | |
| 60.116b(a) | Monitoring of Operations; Record retention | Y | |
| 60.116b(b) | Monitoring of Operations; Permanent record requirements | Y | |
| 60.116b(d) | Monitoring of Operations; 30-day notification for TVP exceedances | Y | |
| 60.116b(e) | Monitoring of Operations; Determine TVP | Y | |
| 60.116b(e)(3) | Monitoring of Operations; Determine TVP-other liquids | Y | |
| 60.116b(f) | Monitoring of Operations; Waste storage tanks (indeterminate or variable composition) | Y | |
| **40 CFR 60, Subpart QQQ** | **Standards of Performance for VOC Emissions from Petroleum Refinery Wastewater Systems (8/18/95) REQUIREMENTS FOR FIXED ROOF TANKS NOT ROUTED TO FUEL GAS** | | |
| 60.690(a)(1) | Applicability and Designation of Affected Facility | Y | |
| 60.690(a)(3) | Applicability and Designation of Affected Facility | Y | |
| 60.692-1 | Standards: General | Y | |
| 60.692-1(a) | Standards: General | Y | |
| 60.692-1(b) | Standards: General | Y | |
| 60.692-3 | Standards: Oil-Water Separators (includes storage vessels) | Y | |
| 60.692-3(a) | Standards: Oil-Water Separators (includes storage vessels) | Y | |
| 60.692-3(a)(1) | Standards: Oil-Water Separators (includes storage vessels) | Y | |
| 60.692-3(a)(2) | Standards: Oil-Water Separators (includes storage vessels) | Y | |
| 60.692-3(a)(3) | Standards: Oil-Water Separators (includes storage vessels) | Y | |
| 60.692-3(a)(4) | Standards: Oil-Water Separators (includes storage vessels) | Y | |
| 60.692-3(a)(5) | Standards: Oil-Water Separators (includes storage vessels) | Y | |
| 60.692-3(f) | Standards: Oil-Water Separators (includes storage vessels) | Y | |
| 60.692-6 | Standards: Delay of Repair | Y | |
| 60.692-6(a) | Standards: Delay of Repair | Y | |
| 60.692-6(b) | Standards: Delay of Repair | Y | |
| 60.697 | Recordkeeping Requirements | Y | |
| 60.697(a) | Recordkeeping Requirements | Y | |
| 60.697(c) | Recordkeeping Requirements | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – BB.28
## Source-Specific Applicable Requirements
## NSPS Kb Exempt Fixed Roof Wastewater Tank
## Tank 237

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| 60.697(e)(1) | Recordkeeping Requirements | Y | |
| 60.697(e)(2) | Recordkeeping Requirements | Y | |
| 60.697(e)(3) | Recordkeeping Requirements | Y | |
| 60.697(e)(4) | Recordkeeping Requirements | Y | |
| 60.697(f)(1) | Recordkeeping Requirements | Y | |
| 60.697(f)(2) | Recordkeeping Requirements | Y | |
| 60.698(c) | Reporting Requirements | Y | |
| **40 CFR 63, Subpart CC** | **National Emission Standards for Hazardous Pollutants for Petroleum Refining (8/18/95) REQUIREMENTS FOR GROUP 2 WASTEWATER SOURCES** | | |
| 63.640(c)(3) | Wastewater streams and treatment operations associated with petroleum refining process units meeting the criteria of section 63.640(a) | Y | |
| 63.641 | Definitions: Group 1 and Group 2 Wastewater Streams | Y | |
| 63.654(a) | Reporting and Recordkeeping Requirements: Wastewater – no reporting and recordkeeping requirements for wastewater except for Group 1 wastewater streams | Y | |
| **BAAQMD Condition 20773** | | | |
| Part 1 | Requirement to verify exempt status of tank based on true vapor pressure of contents [Basis: Regulation 8-5-117, 2-6-409.2] | Y | |
| Part 2 | Record retention requirement [Basis: Regulation 2-6-409.2] | Y | |

## Table IV – BB.29
## Source-Specific Applicable Requirements
## NSPS Kb Exempt Fixed Roof Tank
## Tank 224

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| **BAAQMD · Regulation 8, Rule 5** | **Organic Compounds, Storage of Organic Liquids (11/27/02) EXEMPT** | | |
| 8-5-117 | Exemption, Low Vapor Pressure | Y | |
| **40 CFR 60, Subpart Kb** | **Standards of Performance for Storage Vessels for Volatile Organic Liquid Storage Vessels for Which Construction, Reconstruction, or Modification Commenced After July 23, 1984 (12/14/2000) REQUIREMENTS FOR RECORDKEEPING ONLY** | | |
| 60.110b(a) | Applicability and Designation of Affected Facility; Volatile organic liquid storage vessels > or = to 40 cu m, after 7/23/1984 | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – BB.29
## Source-Specific Applicable Requirements
## NSPS Kb Exempt Fixed Roof Tank
## Tank 224

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| 60.110b(c) | Applicability and Designation of Affected Facility; Exemptions for storage vessels > or = to 75 cu m | Y | |
| 60.116b(a) | Monitoring of Operations; Record retention | Y | |
| 60.116b(b) | Monitoring of Operations; Permanent record requirements | Y | |
| 60.116b(d) | Monitoring of Operations; 30-day notification for TVP exceedances | Y | |
| 60.116b(e) | Monitoring of Operations; Determine TVP | Y | |
| 60.116b(e)(2) | Monitoring of Operations; Determine TVP-crude oil and refined petroleum | Y | |
| **40 CFR 63, Subpart CC** | **National Emission Standards for Hazardous Air Pollutants for Petroleum Refining (8/18/95) REQUIREMENTS FOR TANKKS ALSO SUBJECT TO NSPS, Subpart Kb** | | |
| 63.640(c)(2) | Applicability and Designation of Storage Vessels | Y | |
| 63.640(n)(1) | 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) | Applicability and Designation of Affected Source Overlap for Storage Vessels-Additional requirements for Kb storage vessels | Y | |
| **BAAQMD Condition 20773** | | | |
| Part 1 | Requirement to verify exempt status of tank based on true vapor pressure of contents [Basis: Regulation 8-5-117, 2-6-409.2] | Y | |
| Part 2 | Record retention requirement [Basis: Regulation 2-6-409.2] | Y | |

## Table IV – BB.30
## Source-Specific Applicable Requirements
## Exempt External Floating Roof Wastewater Tanks
## Tank 206, Tank 207

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| **BAAQMD · Regulation 8, Rule 5** | **Organic Compounds, Storage of Organic Liquids (11/27/02) EXEMPT** | | |
| 8-5-117 | Exemption, Low Vapor Pressure | Y | |
| **40 CFR 60, Subpart K** | **Standards of Performance for Storage Vessels for Volatile Organic Liquid Storage Vessels for Which Construction, Reconstruction, or Modification Commenced After June 11, 1973, and Prior to May 19, 1978 (4/4/1980) EXEMPTION FOR TANKS NOT CONTAINING PETROLEUM LIQUIDS** | | |

# IV. Source Specific Applicable Requirements

## Table IV – BB.30
## Source-Specific Applicable Requirements
## EXEMPT EXTERNAL FLOATING ROOF WASTEWATER TANKS
## TANK 206, TANK 207

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| 60.111(b) | Definitions: Petroleum liquids | Y | |
| **40 CFR 63, Subpart CC** | **National Emission Standards for Hazardous Pollutants for Petroleum Refining (8/18/95) REQUIREMENTS FOR GROUP 2 WASTEWATER SOURCES** | | |
| 63.640(c)(3) | Wastewater streams and treatment operations associated with petroleum refining process units meeting the criteria of section 63.640(a) | Y | |
| 63.641 | Definitions: Group 1 and Group 2 Wastewater Streams | Y | |
| 63.654(a) | Reporting and Recordkeeping Requirements: Wastewater – no reporting and recordkeeping requirements for wastewater except for Group 1 wastewater streams | Y | |
| **BAAQMD Condition 20773** | | | |
| Part 1 | Requirement to verify exempt status of tank based on true vapor pressure of contents [Basis: Regulation 8-5-117, 2-6-409.2] | Y | |
| Part 2 | Record retention requirement [Basis: Regulation 2-6-409.2] | Y | |

## Table IV – CC.1
## Source-Specific Applicable Requirements
## S452, S453, S455, S457, S458, S500, COOLING TOWERS

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| **BAAQMD Regulation 6** | **Particulate Matter and Visible Emissions (12/19/90)** | | |
| 6-301 | Ringelmann #1 Limitation | Y | |
| 6-305 | Visible Particles | Y | |
| 6-310 | Particulate Weight Limitation | Y | |
| 6-311 | General Operations | Y | |
| 6-401 | Appearance of Emissions | Y | |
| **BAAQMD Regulation 8, Rule 2** | **Miscellaneous Operations (6/15/94)** | Y | |
| 8-2-301 | Miscellaneous Operations | Y | |
| **BAAQMD Condition 22121** | | | |
| Part 1 | Visual inspection (2-6-503) | Y | |
| Part 2 | Chlorine content monitoring and monthly VOC content determination (2-6-503) | Y | |

# IV. Source Specific Applicable Requirements

## Table IV – CC.1
## Source-Specific Applicable Requirements
## S452, S453, S455, S457, S458, S500, COOLING TOWERS

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| Part 3 | Records of sodium hypochlorite usage (2-6-501) | Y | |
| Part 4 | Monitoring of dissolved solids (2-6-503, Regulation 3) | Y | |
| Part 5 | Reports of hydrocarbon leaks (1-441) | Y | |
| Part 6 | Hydrocarbon leaks longer than 4 weeks (1-441, 2-1-424, 2-6-416.2, 2-6-501, 2-6-503) | Y | |
| Part 7 | Annual reporting of particulate emissions (2-1-319.1, 3) | Y | |
| Part 8 | Records (2-6-501) | Y | |

## Table IV – CC.2
## Source-Specific Applicable Requirements
## S456, COOLING TOWER

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|---|---|
| **BAAQMD Regulation 6** | **Particulate Matter and Visible Emissions (12/19/90)** | | |
| 6-301 | Ringelmann #1 Limitation | Y | |
| 6-305 | Visible Particles | Y | |
| 6-310 | Particulate Weight Limitation | Y | |
| 6-311 | General Operations | Y | |
| 6-401 | Appearance of Emissions | Y | |
| **BAAQMD Regulation 8, Rule 2** | **Miscellaneous Operations (6/15/94)** | Y | |
| 8-2-301 | Miscellaneous Operations | Y | |
| **BAAQMD Condition 22122** | | | |
| Part 1 | Visual inspection (2-6-503) | Y | |
| Part 2 | Monitoring of dissolved solids (2-6-503, Regulation 3) | Y | |
| Part 3 | Reports of hydrocarbon leaks (1-441) | Y | |
| Part 4 | Hydrocarbon leaks longer than 4 weeks (1-441, 2-1-424, 2-6-416.2, 2-6-501, 2-6-503) | Y | |
| Part 5 | Annual reporting of particulate emissions (Regulation 2-6-501, 3) | Y | |
| Part 6 | Records (2-6-501) | Y | |

# V. SCHEDULE OF COMPLIANCE

A. STANDARD SCHEDULE OF COMPLIANCE

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

B. DELETED APPLICATION 13691

C. CUSTOM SCHEDULE OF COMPLIANCE

The owner/operator is out of compliance with 40 CFR 61, Subpart FF, National Emission Standard for Benzene Waste Operations because the refinery generates more than 10 Mg benzene/yr. Therefore, the District is imposing the following Schedule of Compliance.

1. The owner/operator shall comply with the "6 BQ" option in accordance with 61.342(e).

Milestones

2. By May 30, 2006, the owner/operator shall submit a plan to EPA and to the District that identifies with specificity, the compliance strategy and schedule that the owner/operator will implement to ensure that the refinery complies with the 6 BQ compliance option by May 30, 2007.

3. By July 31, 2006, the owner/operator shall submit an application to the District that shows the applicable requirements from the Benzene Waste NESHAP in detail for each source within the refinery to which it applies. A copy of the application shall be sent to EPA Region 9.

4. By June 29, 2007, the owner/operator shall submit a certification and a report to the District and to EPA stating that the refinery complies with the Benzene Waste NESHAP.

Reporting Requirements

Progress reports shall be submitted every six months together with the monitoring reports required by Standard Condition I.F. The progress reports shall contain the date by which the item in the custom schedule of compliance was achieved or an explanation of why the item was not achieved by the above date and any corrective measures adopted.

In accordance with 40 Code of Federal Regulations, section 70.5(c)(8)(iii)(c), this schedule of compliance is supplemental to, and does not sanction noncompliance with, the requirements addressed herein.

D. CUSTOM SCHEDULE OF COMPLIANCE

The owner/operator is out of compliance with the requirement in 60 Subpart J 60.105(a)(4) to continuously verify the H2S concentration in gas combusted at S438, U110, H-1 (H2

# V. Schedule of Compliance

Plant Reforming) Furnace. Therefore, the District is imposing the following Schedule of Compliance.

Milestones

The proposed alternative monitoring plan was submitted to U.S. EPA in a letter dated May 11, 2004.

Reporting Requirements

Progress reports shall be submitted every six months together with the monitoring reports required by Standard Condition I.F. The progress reports shall contain the date by which the item in the custom schedule of compliance was achieved or an explanation of why the item was not achieved by the above date and any corrective measures adopted.

In accordance with 40 Code of Federal Regulations, section 70.5(c)(8)(iii)(c), this schedule of compliance is supplemental to, and does not sanction noncompliance with, the requirements addressed herein.

E. CUSTOM SCHEDULE OF COMPLIANCE

The owner/operator is out of compliance with the requirement in 60 Subpart J 60.105(a)(4) to continuously verify the H2S concentration in Unicracker (UK) sweet gas. This gas is burned at S438, U110, H-1 (H2 Plant Reforming) Furnace, and S352-S357, combustion turbines and duct burners. Therefore, the District is imposing the following Schedule of Compliance.

Milestones

The proposed alternative monitoring plan was submitted to U.S. EPA in a letter dated May 11, 2004.

Reporting Requirements

Progress reports shall be submitted every six months together with the monitoring reports required by Standard Condition I.F. The progress reports shall contain the date by which the item in the custom schedule of compliance was achieved or an explanation of why the item was not achieved by the above date and any corrective measures adopted.

In accordance with 40 Code of Federal Regulations, section 70.5(c)(8)(iii)(c), this schedule of compliance is supplemental to, and does not sanction noncompliance with, the requirements addressed herein.

F. CUSTOM SCHEDULE OF COMPLIANCE

# V. Schedule of Compliance

The owner/operator is out of compliance with the requirement in 60 Subpart J 60.105(a)(4) to continuously verify the H2S concentration in natural gas combusted at S352-S357, combustion turbines and duct burners. Therefore, the District is imposing the following Schedule of Compliance.

Milestones

The proposed alternative monitoring plan was submitted to U.S. EPA in a letter dated May 11, 2004.

Reporting Requirements

Progress reports shall be submitted every six months together with the monitoring reports required by Standard Condition I.F. The progress reports shall contain the date by which the item in the custom schedule of compliance was achieved or an explanation of why the item was not achieved by the above date and any corrective measures adopted.

In accordance with 40 Code of Federal Regulations, section 70.5(c)(8)(iii)(c), this schedule of compliance is supplemental to, and does not sanction noncompliance with, the requirements addressed herein.

# VI. PERMIT CONDITIONS

**CONDITION 383 [Revisions are in accordance with A/C 5814 and 12995.]**

CONDITIONS FOR S350, CRUDE UNIT 267

1a. The owner/operator of S350 (Crude Unit 267) shall not process crude oil at S350 with a sulfur content in excess of 1.5 wt %. [Cumulative Increase]

1b. The owner/operator shall sample and analyze the crude feed to S350 to determine the sulfur content each time a new tanker shipment or pipeline delivery of crude is introduced into the S350 feed tanks. [Cumulative Increase]

2. The owner/operator of S350 shall not exceed an S350 feed rate of 36,000 bbl on any calendar day. The 36,000 bbl/day limit is an absolute limit and may not be corrected for instrument error. [Cumulative Increase]

3. The owner/operator of S350 shall maintain daily records of "calendar day" throughput at S350 in a District-approved log. The owner/operator shall also maintain records of all sulfur content analyses required by Part 1b. These records shall be kept for at least five years and shall be made available to the District upon request.
[Cumulative Increase]

4. The owner/operator shall install water seals (or equivalent controls) on the desalter process drain system for S350 that comply with the requirements of BAAQMD Regulation 8-8-312 prior to increasing the daily throughput to 36,000 bbl/day as allowed by part 2. [Toxics, cumulative increase]

**CONDITION 1440**

CONDITIONS FOR S324, S381, S382, S383, S384, S385, S386, S387, S390, S392, S400, S401 S1007, S1008, S1009, WASTEWATER TREATMENT AND HANDLING UNITS

1. S324 API Separator shall be operated such that the liquid in the main separator basin is in full contact with fixed concrete roof. This condition shall not apply during separator shutdown for maintenance. [Cumulative Increase]

2. Diversions of refinery wastewater around the Water Effluent Treating Facility to the open Storm Water Basins (S1008, S1009) shall be minimized. These diversions shall not cause a nuisance as defined in District Regulation 7 or Regulation 1-301. [Cumulative Increase]

3. Records shall be maintained of each incident in which refinery wastewater is diverted to the open storm water basins. These records shall include the reason for the diversion, the total quantity of wastewater diverted to the basins, and the approximate hydrocarbon content of the water. [Cumulative Increase]

# VI. Permit Conditions

4. The following sources shall be vapor-tight as defined in Regulation 8, Rule 8:

   a. Doors, hatches, covers, and other openings on the S324 API Separator, forebay, outlet basin, and channel to the S1007 DAF Unit.
   b. Doors, hatches, covers, and other openings on the S1007 DAF Unit and the S400 Wet and S401 Dry Weather Sumps, except for the vent opening on these units.
   c. Any open process vessel, distribution box, tank, or other equipment downstream of the S1007 DAF Unit (S381, S382, S383, S384, S385, S386, S387, S390, S392).

   [Cumulative Increase]

5. Compliance with the VOC emission criteria of Part 4 shall be determined semi-annually and records kept of each inspection. These records shall be made available to District personnel upon request. [Cumulative Increase]

6. The maximum wastewater throughput at the S324 API Separator and S1007 DAF Unit shall not exceed 7,500 gpm during media filter backwash and 7,000 gpm during all other times for each unit. Any modifications to equipment at this facility that increase the annual average waste water throughput at S324 and S1007 shall first be submitted to the BAAQMD in the form of a permit application. [Cumulative Increase]

**CONDITION 1694**

CONDITIONS FOR COMBUSTION SOURCES AND SO2 CAP, EXCEPT FOR GAS TURBINES AND DUCT BURNERS

A. Heater Firing Rate Limits and General Requirements

1a. Each heater listed below shall not exceed the indicated daily firing rate limit (based on higher heating value of fuel), which are considered maximum sustainable firing rates. The indicated hourly firing rate is the daily limit divided by 24 hours and is the basis for permit fees and is the rate listed in the District database.

| District Source Number | Refinery ID Number | Daily Firing Limit (MMbtu/day) | Hourly Firing Rate (MMbtu/hr) |
|---|---|---|---|
| S3 | U230/B201 | 1,488 | 62 |
| S7 | U231/B103 | 1,536 | 64 |
| S21 | U244/B507 | 194.4 | 8.1 |
| S336 | U231/B104 | 2,664 | 111 |
| S337 | U231/B105 | 816 | 34 |

[Regulation 2-1-234.3]

1b. Each heater listed below shall not exceed the indicated daily firing rate limit (based on higher heating value of fuel), which are considered maximum sustainable firing rates. The indicated hourly firing rate is the daily limit divided by 24 hours and is the basis for permit fees and is the rate listed in the District database.

# VI. Permit Conditions

| District Source Number | Refinery ID Number | Daily Firing Limit (MMbtu/day) | Hourly Firing Rate (MMbtu/hr) |
|---|---|---|---|
| S2 | U229/B301 | 528 | 22 |
| S4 | U231/B101 | 2,304 | 96 |
| S5 | U231/B102 | 2,496 | 104 |
| S8 | U240/B1 | 6,144 | 256 |
| S9 | U240/B2 | 1,464 | 61 |
| S10 | U240/B101 | 5,352 | 223 |
| S11 | U240/B201 | 2,592 | 108 |
| S12 | U240/B202 | 1,008 | 42 |
| S13 | U240/B301 | 4,656 | 194 |
| S14 | U240/B401 | 13,344 | 556 |
| S15 thru S19 | U244/B501 thru B505 | 5,754 | 239.75 |
| S20 | U244/B506 | 552 | 23 |
| S22 | U248/B606 | 744 | 31 |
| S29 | U200/B5 | 2,472 | 103 |
| S30 | U200/B101 | 1,200 | 50 |
| S31 | U200/B501 | 480 | 20 |
| S43 | U200/B202 | 5,520 | 230 |
| S44 | U200/B201 | 1,104 | 46 |
| S351 | U267 | 2,280 | 95 |
| S371/372 | U228/B520 and B521 | 1,392 | 58 |

[Regulation 2-1-301]

1c. Each heater listed below shall not exceed the indicated daily firing rate limit (based on higher heating value of fuel), which are considered maximum sustainable firing rates. The indicated hourly firing rate is the daily limit divided by 24 hours and is the basis for permit fees and is the rate listed in the District database.

| District Source Number | Refinery ID Number | Daily Firing Limit (MMbtu/day) | Hourly Firing Rate (MMbtu/hr) |
|---|---|---|---|
| S438 | U110 | 6,000 | 250 |

[Cumulative Increase]

2a. All sources shall use only refinery fuel gas and natural gas as fuel, EXCEPT for S438 which may also use pressure swing adsorption (PSA) off gas as fuel, and EXCEPT for S3 and S7 which may also use naphtha fuel during periods of natural gas curtailment, test runs, or for operator training. [Regulation 9-1-304 (sulfur content), Regulation 2, Rule 1, Consent Decree Case No. 05-0258, DATE: 1/27/05] Amended Application 12931

2b. Sources S3 and S7 are permitted to use naphtha fuel only during periods of natural gas curtailment, test runs, or for operator training. These sources shall be monitored for visible

# VI. Permit Conditions

emissions during tube cleaning. If any visible emissions are detected when the operation commences, corrective action shall be taken within one day, and monitoring shall be performed after the corrective action is taken. If no visible emissions are detected, monitoring shall be performed on an hourly basis. [Regulation 2-6-409.2, Consent Decree Case No. 05-0258, DATE: 1/27/05] Amended Application 12931

2c. Sources S3 and S7 are permitted to use naphtha fuel only during periods of natural gas curtailment, test runs, or for operator training. These sources shall be monitored for visible emissions before each 1 million gallons of liquid fuel is combusted at each source. If an inspection documents visible emissions, a Method 9 evaluation shall be completed within 3 working days, or during the next scheduled operating period if the specific unit ceases firing on liquid fuel within the 3 working day time frame. [Regulation 2-6-409.2, Consent Decree Case No. 05-0258, DATE: 1/27/05]. Amended Application 12931

3a. The refinery fuel gas shall be tested for total reduced sulfur (TRS) concentration by GC analysis at least once per 8 hour shift (3 times per calendar day). At least 90% of these samples shall be taken each calendar month. No readable samples or sample results shall be omitted. TRS shall include hydrogen sulfide, methyl mercaptan, methyl sulfide, dimethyl disulfide. As an alternative to GC TRS analysis, the fuel gas total sulfur content may be measured with a dedicated total sulfur analyzer (Houston Atlas or equivalent), and TRS concentration estimated based on the total sulfur/TRS ratio, with the TRS estimate increased by a 5% margin for conservatism. The total sulfur/TRS ratio shall be determined at least on a monthly basis through GC analyses of total sulfur and TRS values, and the most recent ratio shall be used to estimate TRS concentration. [SO2 Bubble]

3b. The average of the 3 daily refinery fuel gas TRS sample results shall be reported to the District in a table format each calendar month, with a separate entry for each daily average. Sample reports shall be submitted to the District within 30 days of the end of each calendar month. Any omitted sample results shall be explained in this report. [SO2 Bubble]

4. Emissions of SO2 shall not exceed 1,612 lb/day on a monthly average basis from non-cogeneration sources burning fuel gas or liquid fuel. [SO2 Bubble]

5. The following records shall be maintained in a District-approved log for at least 5 years and shall be made available to the District upon request:

a. Daily and monthly records of the type and amount of fuel combusted at each source listed in Part A.1. [Regulation 2, Rule 1]
b. TRS sample results as required by Part A.3 [SO2 Bubble]
c. SO2 emissions as required by Part A.4 [SO2 Bubble]
d. The operator shall keep records of all visible emission monitoring required by Part 2b, shall identify the person performing the monitoring and shall describe all corrective actions taken. [Regulation 2-6-409.2]
e. The operator shall keep records of all visible emission monitoring required by Part 2c, of the results of required visual monitoring and Method 9 evaluations on these sources, shall identify the person performing the monitoring and shall describe all corrective actions taken.

# VI. Permit Conditions

[Regulation 2-6-409.2]

6. Sources listed below are affected facilities under NSPS Subpart J and are subject to the application requirements of NSPS Subparts A and J for fuel gas combustion devices. [Consent Decree Case No. 05-0258, DATE: 1/27/05]

| | |
|---|---|
| S2 | U229/B301 |
| S3 | U230/B201 |
| S4 | U231/B101 |
| S5 | U231/B102 |
| S7 | U231/B103 |
| S8 | U240/B1 |
| S9 | U240/B2 |
| S10 | U240/B101 |
| S11 | U240/B201 |
| S12 | U240/B202 |
| S13 | U240/B301 |
| S14 | U240/B401 |
| S15-S19 | U244/B501-B505 |
| S20 | U244/B506 |
| S21 | U244/B507 |
| S22 | U244/B606 |
| S29 | U200/B5 |
| S30 | U200/B101 |
| S31 | U200/B501 |

B. S351 PREHEATER

1. The S351 heater shall be abated by the A6 SCR unit at all times, except that S351 may operate without SCR abatement on a temporary basis for periods of planned or emergency maintenance. A District-approved NOx CEM shall monitor and record the S351 NOx emission rate whenever S351 operates without abatement. All emission limits applicable to S351 shall remain in effect whether or not it is operated with SCR abatement. [BACT, Cumulative Increase]

2. The concentration of NOx from S351 shall not exceed 20 ppmv @ 3% oxygen, dry, averaged over any consecutive 3 hour period. This limit shall not apply during a startup period which shall not exceed 12 hours. The startup exemption period may last up to 24 hours to allow the proper ammonia injection temperature to be reached provided that the temperature is monitored at least once per hour and that ammonia injection begins within 2 hours of reaching the proper temperature. This limit shall also not apply during a shutdown period which shall not exceed 9 hours. [BACT, Cumulative Increase]

3. The following instruments shall be installed and maintained to demonstrate compliance with Part 2:

   a. continuous NOx analyzer/recorder
   b. continuous O2 or CO analyzer/recorder [BACT, Cumulative Increase]

# VI. Permit Conditions

C. S371 AND S372 FURNACES

1. The S371 furnace shall be abated by the A16 SCR unit at all times, and the S372 furnace shall be abated by the A17 SCR unit at all times, except that S371 and S372 may operate without SCR abatement on a temporary basis for periods of planned or emergency maintenance. A District-approved NOx CEM shall monitor and record the NOx emission rates from these heaters whenever they operate without abatement. All emission limits applicable to S371 and S372 shall remain in effect whether or not they are operated with SCR abatement. [BACT, Cumulative Increase]

2. The concentration of NOx from S371 and S372 shall not exceed 20 ppmv, dry, corrected to 3% oxygen, averaged over any consecutive 3 hour period. This limit shall not apply during a startup period, which shall not exceed 12 hours. The startup exemption period may last up to 24 hours to allow the proper ammonia injection temperature to be reached provided that the temperature is monitored at least once per hour and that ammonia injection begins within 2 hours of reaching the proper temperature. This limit shall also not apply during a shutdown period which shall not exceed 9 hours. [BACT, Cumulative Increase]

3. The concentration of CO emissions from S371 and S372 shall not exceed 50 ppmv, dry, corrected to 3% oxygen, averaged over any consecutive 3 hour period. This limit shall not apply during a startup period, which shall not exceed 12 hours. The startup exemption period may last up to 24 hours to allow the proper ammonia injection temperature to be reached provided that the temperature is monitored at least once per hour and that ammonia injection begins within 2 hours of reaching the proper temperature. This limit shall also not apply during a shutdown period, which shall not exceed 9 hours. [BACT, Cumulative Increase]

D. S43 Coking Furnace (Unit 200 B-202) and S44 (Unit 200 B-201 PCT Reboil Furnace)

1. Nitrogen oxide emissions from the S43 Coking Furnace (Unit 200 B-202) shall be abated by Selective Catalytic Reduction Unit A4 at all times, except that S43 may operate without SCR abatement on a temporary basis for periods of planned or emergency maintenance. A District-approved NOx CEM shall monitor and record the S43 NOx emission rate whenever S43 operates without abatement. All emission limits applicable to S43 shall remain in effect whether or not it is operated with SCR abatement. [BACT, Cumulative Increase]

2. The nitrogen oxides in the flue gases for S43, Unit 200 B-202 Coking Furnace and S44, Unit 200 B-201 PCT Reboil Furnace shall not exceed 40 ppmdv corrected to 3% oxygen, dry, over any consecutive 8 hour period. This limit shall not apply during a startup period which shall not exceed 12 hours. The startup exemption period may last up to 24 hours to allow the proper ammonia injection temperature to be reached provided that the temperature is monitored at least once per hour and that ammonia injection begins within 2 hours of reaching the proper temperature. This limit shall also not apply during a shutdown period which shall not exceed 9 hours.

# VI. Permit Conditions

[BACT, Cumulative Increase]

3. The carbon monoxide in the flue gas for S43, Unit 200 B-202 Coking Furnace and S44, Unit 200 B-201 PCT Reboil Furnace shall not exceed 50 ppmdv corrected to 3% oxygen averaged over any calendar month. This condition shall not apply during start-up and shutdown. [BACT, Cumulative Increase]

4. Instruments shall be installed and operated to continuously monitor the percentage of oxygen and the concentration of nitrogen oxides from the following sources: S43, Unit 200 B-202 Coking Furnace and S44, Unit 200 B-201 PCT Reboil Furnace. [BACT, Cumulative Increase]

E. S438 FURNACE

1. The S438 furnace shall be abated by the A46 SCR unit at all times, except that S438 may operate without SCR abatement on a temporary basis for periods of planned or emergency maintenance. A District-approved NOx CEM shall monitor and record the S438 NOx emission rate whenever S351 operates without abatement. All emission limits applicable to S438 shall remain in effect whether or not it is operated with SCR abatement. [BACT, Cumulative Increase]

2. Total fuel fired in S438 shall not exceed 2.19 E 12 btu in any rolling consecutive 365 day period. [Cumulative Increase]

3. Pressure swing adsorption (PSA) off gas used as fuel at S438 shall not exceed 1.0 ppm (by weight) total reduced sulfur (TRS). TRS shall include hydrogen sulfide, methyl mercaptan, methyl sulfide, dimethyl disulfide. [BACT, Cumulative Increase]

4. The following emission concentration limits from S438 shall not be exceeded. These limits shall not apply during startup periods not exceeding 24 hours (72 hours when drying refractory or during the first startup following catalyst replacement) and shutdown periods not exceeding 24 hours. The District may approve other startup and shutdown durations.

   NOx: 7 ppmv @ 3% oxygen, averaged over any 1 hour period
   CO: 32 ppmv @ 3% oxygen, averaged over any calendar day
   POC: 0.0023 lb/MMbtu of fuel used [BACT, Cumulative Increase]

5. The concentration of TRS in the blended fuel gas shall not exceed 14 ppmv averaged over any calendar month. [SO2 bubble, Cumulative Increase]

6. Daily records of the type and amount of fuel combusted at S438 and of the TRS and hydrogen sulfide concentration in the blended fuel gas, and monthly records of average blended fuel gas TRS concentration, shall be maintained for at least five years and shall be made available to the District upon request. [Cumulative Increase]

7. No later than 90 days from the startup of S438, the owner/operator shall conduct District-approved source tests to determine initial compliance with the limits in Part 4 for NOx, CO

# VI. Permit Conditions

and POC. The owner/operator shall conduct the source tests in accordance with Part 8. The owner/operator shall submit the source test results to the District staff no later than 60 days after the source test. [BACT, Cumulative Increase]

8. The owner/operator shall obtain approval for all source test procedures from the District's Source Test Section prior to conducting any tests. The owner/operator shall comply with all applicable testing requirements for continuous emissions monitors as specified in Volume V of the District's Manual of Procedures. The owner/operator shall notify the District's Source Test Section, in writing, of the source test protocols and projected test dates at least 7 days prior to testing. [BACT, Cumulative Increase]

F. S2, S3, S4, S5, S7, S8, S9, S10, S11, S12, S13, S14 Heaters

1. Total fuel firing at Unit 240 (S8, S9, S10, S11, S12, S13, S14) shall not exceed 993.7 MMbtu/hr averaged over any consecutive 12 month period. [Cumulative Increase]

2. Total fuel fired at the MP-30 Complex, including Unit 229 (S2), Unit 230 (S3) and Unit 231 (S4, S5, S7) shall not exceed 346.5 MMbtu/hr averaged over any consecutive 12 month period. [Cumulative Increase]

3. Monthly records of the fuel fired at sources in Parts 1 and 2 shall be kept in a District-approved log for at least 5 years and shall be made available the District upon request. [Recordkeeping]

G. Regulation 9-10 Startup / Shutdown Provisions [Basis: 9-10-301]

For determining compliance with Regulation 9-10-301, the contribution of each affected unit that is in a startup or shutdown condition shall be based on the methods described in 9-10-301.1, and the contribution of each affected unit that is in an out of service condition shall be based on the methods described in 9-10-301.2. Low-firing conditions (no higher than 20% of a unit's rated capacity), including refractory dryout periods, shall be considered out of service conditions subject to the 30-day averaging procedure in Regulation 9-10-301.2, including the 60-day annual limit for this procedure.

1. Heaters S8 (Unit 240, B-1), S14 (Unit 240, B-401) and S44 (Unit 200, B-201) shall be considered to be in normal operation whenever they have detectable fuel flow, and shall be considered to be out of service for the purpose of Regulation 9-10-301 whenever they have undetectable fuel flow.

2. For heaters S43 (Unit 200, B-202), S351 (Unit 267, B-601/602) and S371/372 (Unit 228, B-520/521), the durations of startups, shutdowns and refractory dryout periods are defined in Condition 1694, Part D.2 (S43), Part B.2 (S351) and Part C.2 (S371, S372).

3. For heaters S10 (Unit 240, B-101) and S15 through S19 (Unit 244, B-501 through B-505), the duration of startups, shutdowns and low-firing periods are defined as follows:

   a. startup and shutdown periods are not to exceed 24 hours
   b. low-firing periods are not to exceed 72 hours

# VI. Permit Conditions

4. For heater S13 (Unit 240, B-301), the duration of startups, shutdowns and low-firing periods are defined as follows:

   a. startup and shutdown periods are not to exceed 72 hours
   b. low-firing periods are not to exceed 72 hours

5. For heaters with no CEMS:

   S2 (Unit 229, B-301)
   S3 (Unit 230, B-201)
   S4 (Unit 231, B-101)
   S5 (Unit 231, B-102)
   S7 (Unit 231, B-103)
   S9 (Unit 240, B-2)
   S11 (Unit 240, B-201)
   S12 (Unit 240, B-202)
   S20 (Unit 244, B-506)
   S22 (Unit 248, B-606)
   S29 (Unit 200, B-5)
   S30 (Unit 200, B-101)
   S31 (Unit 200, B-501)
   S336 (Unit 231, B-104)
   S337 (Unit 231, B-105)

   startups, shutdowns, and out of service conditions shall each not exceed 5 days in succession at each source.

**CONDITION 4336**

CONDITIONS FOR S425, S426**,** Marine Loading Berths

1. For each loading event of "regulated organic liquid", A420 shall be operated with a temperature of at least 1300 degrees F during the first 15 minutes of the loading operation. After the initial 15 minutes of loading, the A420 temperature shall be at least 1400 degrees F.
   [Cumulative Increase]

2. Instruments shall be installed and maintained to monitor and record the following:

   a. Static pressure developed in the marine tank vessel
   b. A420 temperature.
   c. Hydrocarbons and flow to determine mass emissions or a concentration measurement alone if it is demonstrated to the satisfaction of the APCO that concentration alone allows verification of compliance, or
   d. Any other device that verifies compliance, with prior approval from the APCO.
   [Cumulative Increase]

3. A "regulated organic liquid" shall not be loaded from this facility into a marine tank vessel within the District whenever A420 is not fully operational. A420 must be maintained to be

# VI. Permit Conditions

leak free, gas tight, and in good working order. For the purposes of this condition, "operational" shall mean the system is achieving the reductions required by Regulation 8, Rule 44; "regulated organic liquids" include gasoline, gasoline blendstocks, aviation gasoline and JP-4 aviation fuel and crude oil. [Cumulative Increase]

4. A leak test shall be conducted on all vessels loading under positive pressure prior to loading more than 20% of the cargo. The leak test shall include all vessel relief valves, hatch cover, butterworth plates, gauging connections, and any other potential leak points. [Cumulative Increase]

5. Loading pressure shall not exceed 80% of the lowest relief valve set pressure of the vessel being loaded. [Cumulative Increase]

6a. No more than 25,000 barrels per day of gasoline, naphtha and C5/C6 shall be shipped across the wharf on an annual average basis. [Cumulative Increase]

1. Deleted Application 13690
2. When barges are used to lighter crude oil, the volume of oil lightered during any reporting period shall be multiplied by a factor of 0.42 and included in the shipping totals to determine compliance with the throughput limits. The vessel Exxon Galveston is considered a ship for the purposes of this condition.

6b. The maximum loading rate at any time at both S425 and S426 shall not exceed 20,000 barrels per hour to prevent overloading the A420 oxidizer. [Cumulative Increase]

7. The owner/operator shall not receive more than 30,000 bbl per day crude oil delivered by tanker or ship on a 12 month rolling average basis. (Cumulative increase, 2-1-403)

8. All throughput records required to verify compliance with Parts 6 and 7, including hourly loading rate records (total for S425, S426), monthly crude oil receipt records, and maintenance records required for A420, which are subject to Regulation 8, Rule 44, shall be kept on site for at least 5 years and made available to the District upon request. [Cumulative Increase]

9. The destruction efficiency of the A420 control system shall be at least 98.5% by weight over each loading event for gasoline, gasoline blending stocks, aviation gas, aviation fuel (JP-4 type), and crude oil. [BACT]

10. The purpose of part 10 is to implement an alternative monitoring plan to assure compliance with the H2S limit in 40 CFR 60.104(a)(1) at A420, Thermal Oxidizer. This part will apply whenever A420 is used to comply with BAAQMD Regulation 8, Rule 44, and whenever A420 is used to burn fuel gas as defined by 40 CFR 60.101(d). To ensure that the thermal oxidizer is not used to burn fuel gas that is high in H2S, the following activities are not allowed at the terminal: ballasting, cleaning, inerting, purging, and gas freeing. The owner/operator shall perform the following monitoring: One detection tube sampling shall be conducted on the vapors collected during the event for each marine vessel tank that is affected. The detector tube ranges shall be 0-10/0-100 ppm (N=10/1) unless the H2S level is above 100 ppm. If the H2S level is above 100 ppm, the owner/operator shall use a detection

# VI. Permit Conditions

tube with a 0-500 ppm range. The owner/operator shall use ASTM Method 4913-00, Standard Practice for Determining Concentration of Hydrogen Sulfide by Reading Length of Stain, Visual Chemical Detectors. The owner/operator shall maintain records of the H2S detection tube test data for five years from the date of the record. In addition, the owner/operator shall monitor at least once every calendar day that the thermal oxidizer is used. Within 8 months of approval of this part pursuant to Application 13691, the owner/operator shall submit the first six months of results of the H2S analysis to the District's Engineering and Enforcement and Compliance Departments for review. [40 CFR 60.13(i), BAAQMD Regulation 2-6-501]

**CONDITION 6671**

CONDITIONS FOR S307

1. The vapor vent on the E-421 condenser (overhead condenser on D-406 condensate stripper in U-240 Unicracker Complex hydrogen plant) shall be vented to the A50 condenser whenever the vent operates. [Regulation 8-2-301]

2. A50 shall reduce total organic carbon emissions from the E-421 vent as necessary to a level which complies with Regulation 8-2-301. [Regulation 8-2-301]

3. All blowdown and other liquid effluent from A50 shall be piped to the plant wastewater treatment system. [Cumulative Increase]

4. Whenever the U-240 hydrogen plant operates, normal flow of scrubbing liquid through the E-421 scrubber pumparound pump and normal flow of cooling water through the pumparound cooler shall be verified on a daily basis. [Cumulative Increase]

5. Daily records (on days when the U-240 hydrogen plant operates) of normal scrubbing liquid flow and normal cooling water flow shall be kept in a District-approved log for at least five years and shall be made available to the District upon request. [Cumulative Increase]

6. Effective 1/1/05, an annual source test shall be performed on the vapor vent on the E-421 condenser to verify compliance with Regulation 8-2-301 in accordance with District source test methods or other methods approved in advance by the District. A copy of the test report shall be provided to the District Director of Compliance and Enforcement within 45 days of completion of the test. [Regulation 2-6-409.2]

**CONDITION 6725**

CONDITIONS FOR S432, DEISOBUTANIZER

1) All new flanges in hydrocarbon service associated with the S432 Deisobutanizer project shall utilize graphitic gaskets. All new valves in hydrocarbon service associated with the project shall be either live-loaded valves, bellows-sealed valves, diaphragm valves, or other District

# VI. Permit Conditions

approved equivalent valve designs. [BACT, Cumulative Increase]

2) All new pressure relief valves in hydrocarbon service associated with the S432 project shall be vented to the refinery flare gas recovery system.
[BACT, Cumulative Increase]

3) All new pumps and compressors in hydrocarbon service associated with the S432 project shall utilize either a double mechanical shaft seal design with barrier fluid, a magnetically coupled shaft, or other District approved equivalent design. If a barrier fluid is used, either the fluid reservoir shall be vented to a 95% efficient control device, or the barrier fluid shall be operated at a pressure higher than the process stream pressure.
[BACT, Cumulative Increase]

**CONDITION 7353**

FOR S433, MOSC STORAGE TANK

1. The emissions from the S433 MOSC storage tank shall be collected and vented to the fuel gas system. [Cumulative Increase]

2. Valves shall be equipped with live-loaded packing. Pumps shall be equipped with double mechanical seals separated by a barrier fluid. [Cumulative Increase]

3. The S433 Fixed Roof Storage Tank shall only store sludge. [Cumulative Increase]

4. The total throughput of sludge at this MOSC facility shall not exceed 138,700 barrels in any rolling 52 consecutive week period. [Cumulative Increase]

5. The total weekly throughput of sludge withdrawn from the S433 Storage Tank shall be recorded in a District approved log. This record shall be retained for a period of at least five years from date of entry. It shall be kept on site and made available to the District staff upon request. [Cumulative Increase]

**CONDITION 7523**

CONDITIONS FOR S294, GASOLINE DISPENSING FACILITY(GDF 7609)

Pursuant to BAAQMD Toxic Section Policy, this facility's annual gasoline throughput shall not exceed 400,000 gallons in any consecutive 12 month period. [Basis: Toxic Risk Policy]

**CONDITION 11219**

CONDITIONS FOR S449, TANK (T-285)

# VI. Permit Conditions

1. Working emissions from S449 shall be collected and vented to the refinery fuel gas supply. Other abatement devices, which provide at least 95% abatement of VOC emissions by weight, may be used with the prior approval of the District. [Cumulative Increase]

**CONDITION 12121**

CONDITIONS FOR S370, U228 ISOMERIZATION UNIT

1. The feed rate at the S370 isomerization unit (U-228) shall not exceed 11,040 barrels on any calendar day, defined as the sum of the isomerization fresh reactor charge and the adsorber fresh feed. [Cumulative Increase]

2. Daily records of the S370 feed rate shall be maintained for at least five years and shall be made available to the District upon request. [Recordkeeping]

**CONDITION 12122**

CONDITIONS FOR S352, S353, S354, S355, S356, S357, GAS TURBINES AND DUCT BURNERS

1. The gas turbines (S352, S353 and S354) and the heat recovery steam generator (HRG) duct burners (S355,S356 and S357) shall be fired on refinery fuel gas or natural gas. [Cumulative Increase]

2. A HRG duct burner shall be operated only when the associated gas turbine is operated. [Cumulative Increase]

3. The exhaust from S352 and S355 shall be abated at all times by SCR unit A13, except that S352 and S355 may operate without SCR abatement on a temporary basis for periods of planned or emergency maintenance. A District-approved NOx CEM shall monitor and record the 352 and S355 NOx emission rate whenever S352 and S355 operate without abatement. All emission limits applicable to S352 and S355 shall remain in effect whether or not they are operated with SCR abatement. [BACT, Cumulative Increase]

4. The exhaust from S353 and S356 shall be abated at all times by SCR unit A14, except that S353 and S356 may operate without SCR abatement on a temporary basis for periods of planned or emergency maintenance. A District-approved NOx CEM shall monitor and record the S353 and S356 NOx emission rate whenever S353 and S356 operate without abatement. All emission limits applicable to S353 and S356 shall remain in effect whether or not they are operated with SCR abatement. [BACT, Cumulative Increase]

5. The exhaust from S354 and S357 shall be abated at all times by SCR unit A15, except that S354 and S357 may operate without SCR abatement on a temporary basis for periods of planned or emergency maintenance. A District-approved NOx CEM shall monitor and record the S354 and S357 NOx emission rate whenever S354 and S357 operate without abatement. All emission limits applicable to S354 and S357 shall remain in effect whether or not they are

# VI. Permit Conditions

operated with SCR abatement. [BACT, Cumulative Increase]

6. Total fuel fired in S355, S356, and S357 shall not exceed 2.42 E 12 btu in any consecutive 365 day period. [Cumulative Increase]

7. CO emissions from each turbine/duct burner set shall not exceed 39 ppmv at 15% oxygen, averaged over any consecutive 30 day period. Emissions during startup periods, which shall not exceed four hours, and shutdown periods, which shall not exceed two hours, may be excluded when averaging emissions. [BACT, Cumulative Increase]

8. POC emissions from each turbine/duct burner set shall not exceed 6 ppmv at 15% oxygen, averaged over any consecutive 30 day period. Emissions during startup periods, which shall not exceed four hours, and shutdown periods, which shall not exceed two hours, may be excluded when averaging emissions. [BACT, Cumulative Increase]

9a. The combined NOx emissions from S352, S353, S354, S355, S356 and S357 shall not exceed 66 lb/hr (averaged over any 3 hour period), nor 167 tons in any consecutive 365 day period. NOx emissions from each turbine/duct burner set shall not exceed 528 lb/day. [BACT, Cumulative Increase]

9b. NOx emissions from S 352, S353, S354, S355, S356 and S357 shall be monitored with a District-approved continuous emission monitor. [BACT, Cumulative Increase]

10a. The combined CO emissions from S352, S353, S354, S 355, S356 and S357 shall not exceed 200 tons in any consecutive 365 day period. [BACT, Cumulative Increase]

10b. CO emissions from S 352, S353, S354, S355, S356 and S357 shall be monitored with a District-approved continuous emission monitor. [BACT, Cumulative Increase]

11. The combined POC emissions of S352, S353, S354, S355, S356 and S357 shall not exceed 8.3 lb/hr nor 30.5 tons in any consecutive 365 day period. [BACT, Cumulative Increase]

12. The refinery fuel gas shall be tested for total reduced sulfur (TRS) concentration at least once per 8 hour shift (3 times per calendar day). At least 90% of these samples shall be taken each calendar month. No readable samples or sample results shall be omitted. TRS shall include hydrogen sulfide, methyl mercaptan, methyl sulfide, dimethyl disulfide. [Cumulative Increase]

13. The average of the 3 daily refinery fuel gas TRS sample results shall be reported to the District in a table format each calendar month, with a separate entry for each daily average. Sample reports shall be submitted to the District within 30 days of the end of each calendar month. Any omitted sample results shall be explained in this report. [Cumulative Increase]

14. A source test to verify compliance with Parts 8 and 11 shall be performed each calendar year

# VI. Permit Conditions

in accordance with District source test methods or other methods approved in advance by the District. A copy of the test report shall be provided to the District Director of Compliance and Enforcement within 45 days of completion of the test. [Regulation 2-6-409.2]

15. Records shall be maintained to allow verification of compliance with all permit conditions. Records shall be retained for at least five years and shall be made available to the District upon request. [BACT, Cumulative Increase]

**CONDITION 12124**

CONDITIONS FOR S439, TANK (T-109)

1. The following total throughput shall not be exceeded in any rolling continuous 12 month period:

   3,650 thousand barrels [Cumulative Increase]

2. S439 shall operate with closed, gasketed covers on all tank openings except pressure relief valves and vacuum breaker valves. [BACT]

3. Monthly records of the throughput of each material processed at this tank shall be kept in a District-approved log for at least 5 years and shall be made available to the District upon request. [Cumulative Increase]

**CONDITION 12125**

CONDITIONS FOR S440, TANK (T-110)

1. The following total throughput shall not be exceeded in any rolling continuous 12 month period:

   3,600 thousand barrels [Cumulative Increase]

2. S440 shall operate with closed, gasketed covers on all tank openings except pressure relief valves and vacuum breaker valves. [BACT]

3. Monthly records of the throughput of each material processed at this tank shall be kept in a District-approved log for at least 5 years and shall be made available to the District upon request. [Cumulative Increase]

**CONDITION 12127**

CONDITIONS FOR S442, TANK (T-112)

# VI. Permit Conditions

1. The following total throughput shall not be exceeded in any rolling continuous 12 month period:

   2,740 thousand barrels [Cumulative Increase]

2. S442 shall operate with closed, gasketed covers on all tank openings except pressure relief valves and vacuum breaker valves. [BACT]

3. Monthly records of the throughput of each material processed at this tank shall be kept in a District-approved log for at least 5 years and shall be made available to the District upon request. [Cumulative Increase]

# VI. Permit Conditions

**CONDITION 12129**

CONDITIONS FOR S444, TANK (T-243)

1. The following total throughput shall not be exceeded in any rolling continuous 12 month period:

   4,380 thousand barrels [Cumulative Increase]

2. S444 shall operate with closed, gasketed covers on all tank openings except pressure relief valves and vacuum breaker valves. [BACT]

3. Monthly records of the throughput of each material processed at this tank shall be kept in a District-approved log for at least 5 years and shall be made available to the District upon request. [Cumulative Increase]

**CONDITION 12130**

CONDITIONS FOR S445, TANK (T-271)

1. Working emissions from S445 shall be collected and vented to the refinery fuel gas supply. Other abatement devices, which provide at least 95% abatement of VOC emissions by weight, may be used with the prior approval of the District. [Cumulative Increase]

**CONDITION 12131**

CONDITIONS FOR S446, TANK (T-310)

1. Working emissions from S446 shall be collected and vented to the refinery fuel gas supply. Other abatement devices, which provide at least 95% abatement of VOC emissions by weight, may be used with the prior approval of the District. [Cumulative Increase]

**CONDITION 12132**

CONDITIONS FOR S447, TANK (T-311)

1. Working emissions from S447 shall be collected and vented to the refinery fuel gas supply. Other abatement devices, which provide at least 95% abatement of VOC emissions by weight, may be used with the prior approval of the District. [Cumulative Increase]

# VI. Permit Conditions

**CONDITION 12133**

CONDITIONS FOR S448, TANK (T-1007)

1. The following total throughput shall not be exceeded in any rolling continuous 12 month period:

   2,190 thousand barrels [Cumulative Increase]

2. S448 shall operate with closed, gasketed covers on all tank openings except pressure relief valves and vacuum breaker valves. [BACT]

3. Monthly records of the throughput of each material processed at this tank shall be kept in a District-approved log for at least 5 years and shall be made available to the District upon request. [Cumulative Increase]

**CONDITION 12245**

CONDITIONS FOR S450, GROUNDWATER EXTRACTION TRENCHES

1. Groundwater extracted from the S450 trench system shall be pumped to the wastewater treatment plant for treatment and shall not be exposed to the atmosphere except as required at the treatment plant. [Cumulative Increase]

2. All extraction pump vaults and piping access boxes shall be equipped with solid covers. [Cumulative Increase]

**CONDITION 13184**

CONDITIONS FOR S182, STORAGE TANK

1. The POC emissions from the S182 fixed roof storage tank shall be collected and vented at all times to the fuel gas collection system. [Cumulative Increase]

# VI. Permit Conditions

**CONDITION 16677**

CONDITIONS FOR S376, 377, 378, COLD CLEANERS

1. Net usage of citrus-based solvent at S376, S377 and S378 shall not exceed 150 gallons each in any consecutive 12-month period. [Cumulative Increase]

2. Cleanup solvent other than the material(s) specified in Part 1, and/or usage in excess of that specified in Part 1, may be used, provided that the Permit Holder can demonstrate that all of the following are satisfied:

   a. Total POC emissions from S376, S377 and S378 do not exceed 1,095 pounds each in any consecutive 12-month period; and
   b. The use of these materials does not increase toxic emissions above any risk screening trigger level. [Cumulative Increase and Toxic Risk Screen]

3. To determine compliance with the above requirements, the Permit Holder shall maintain the following records and provide all of the data necessary to evaluate compliance, including:

   a. Type and monthly usage of all solvents used;
   b. If a material other than those specified in Part 1 is used, POC and toxic component contents of each material used; and mass emission calculations to demonstrate compliance with Part 2, on a monthly basis;
   c. Monthly usage and emission calculations (if calculations are required by Part 3b) shall be totaled for each consecutive 12-month period.

   All records shall be retained for at least 5 years and shall be made available to the District upon request. These requirements shall not replace the recordkeeping requirements contained in any applicable District Regulations.
   [Cumulative Increase and Toxic Risk Screen]

**CONDITION 18251**

CONDITIONS FOR S380, , S389, SILOS

1a. Activated Carbon Silo S380 shall be vented through the A20 baghouse whenever the silo blower motor is in service. Baghouse operation is not required during unloading operations using only gravity feed. [Regulation 2-1-234]

1b. Diatomaceous Earth Silo S389 shall be vented through the A21 baghouse whenever it is in service. [Regulation 2-1-234]

2a. Baghouses A20 and A21 shall be equipped with differential pressure gauges to allow monitoring of baghouse operating condition. [Regulation 1-441]

# VI. Permit Conditions

2b. Differential pressure on baghouse A20 shall be checked at least once per calendar quarter to verify normal operating condition. [Regulation 1-441]

2c. Differential pressure on baghouse A21 shall be checked each time that the baghouse is operated to verify normal operating condition. [Regulation 1-441]

3. A record of all differential pressure readings for baghouses A20 and A21 shall be maintained in a District-approved log for at least 5 years and shall be made available to the District upon request. [Regulation 1-441]

**CONDITION 18255**
FOR SOURCES S296 AND S398, FLARES

1. Deleted Application 12601.

2. Deleted Application 12601.

3. For the purposes of these conditions, a flaring event is defined as a flow rate of vent gas flared in any consecutive 15 minutes period that continuously exceeds 330 standard cubic feet per minute (scfm). If during a flaring event, the vent gas flow rate drops below 330 scfm and then increases above 330 scfm within 30 minutes, that shall still be considered a single flaring event, rather than two separate events. For each flaring event during daylight hours (between sunrise and sunset), the owner/operator shall inspect the flare within 15 minutes of determining the flaring event, and within 30 minutes of the last inspection thereafter, using video monitoring or visible inspection following the procedure described in Part 4. [Regulation 2-6-409.2]

4. The owner/operator shall use the following procedure for the initial inspection and each 30-minute inspection of a flaring event.

   a. If the owner/operator can determine that there are no visible emissions using video monitoring, then no further monitoring is necessary for that particular inspection.
   b. If the owner/operator cannot determine that there are no visible emissions using video monitoring, the owner/operator shall conduct a visual inspection outdoors using either:
      i. EPA Reference Method 9; or
      ii. Survey the flare by selecting a position that enables a clear view of the flare at least 15 feet, but not more than 0.25 miles, from the emission source, where the sun is not directly in the observer's eyes.
   c. If a visible emission is observed, the owner/operator shall continue to monitor the flare for at least 3 minutes, or until there are no visible emissions, whichever is shorter.
   d. The owner/operator shall repeat the inspection procedure for the duration of the flaring event, or until a violation is documented in accordance with Part 5. After a violation is documented, no further inspections are required until the beginning of a new calendar day.
   [Regulation 6-301, 2-1-403]

5. The owner/operator shall comply with one of the following requirements if visual inspection is used:

# VI. Permit Conditions

a. If EPA Method 9 is used, the owner/operator shall comply with Regulation 6-301 when operating the flare.
b. If the procedure of Part 4.b.ii is used, the owner/operator shall not operate a flare that has visible emissions for three consecutive minutes.

[Regulation 2-6-403]

6. The owner/operator shall keep records of all flaring events, as defined in Part 3. The owner/operator shall include in the records the name of the person performing the visible emissions check, whether video monitoring or visual inspection (EPA Method 9 or visual inspection procedure of Part 4) was used, the results of each inspection, and whether any violation of this condition (using visual inspection procedure in Part 4) or Regulation 6-301 occurred (using EPA Method 9). [Regulation 2-6-501; 2-6-409.2]

7. Deleted Application 12601.

**CONDITION 18629**
CONDITIONS FOR S352, S353, S354, S355, S356, S357, TURBINES AND DUCT BURNERS

May 30, 1989 PSD Permit Amendments (first issued March 3, 1986)
Permit NSR 4-4-3 SFB 85-03

I. [Obsolete – Approval to Construct executed in a timely manner]

II. [Obsolete – Approval to Construct executed in a timely manner]

III. Facilities Operation

All equipment, facilities and systems installed or used to achieve compliance with the terms and conditions of this Approval to Construct/Modify shall at all times be maintained in good working order and be operated as efficiently as possible so as to minimize air pollutant emissions.

IV. Malfunction

The Regional Administrator shall be notified by telephone within two working days following any failure of air pollution control equipment, process equipment, or of any process to operate in a normal manner which results in an increase in emissions above any allowable emissions limit stated in Section IX of these conditions. In addition, the Regional Administrator shall be notified in writing within 15 days of any such failure. This notification shall include a description of the malfunctioning equipment or abnormal operation, the date of the initial failure, the period of time over which emissions were increased due to the failure, the cause of the failure, the estimated resultant emissions in excess of those allowed under Section IX of these conditions, and the methods utilized to restore normal operations. Compliance with this malfunction notification provision shall not excuse or otherwise constitute a defense to any violations of this permit or of any law or regulations which such malfunction may cause.

# VI. Permit Conditions

V. Right to Entry

The Regional Administrator, the head of the State Air Pollution Control Agency, the head of the responsible local air pollution control agency, and/or their authorized representatives, upon presentation of credentials, shall be permitted:

A. to enter upon the premises where the source is located or in which any records are required to be kept under the terms and conditions of this Approval to Construct/Modify; and

B. at reasonable times to have access to and copy any records required to be kept under the terms and conditions of this Approval to Construct/Modify; and

C. to inspect any equipment, operation, or method required in this Approval to Construct/Modify; and

D. to sample emissions from this source.

VI. Transfer of Ownership

In the event of any changes in control or ownership of facilities to be constructed or modified, this Approval to Construct/Modify shall be binding on all subsequent owners and operators. The applicant shall notify the succeeding owner and operator of the existence of this Approval to Construct/Modify and its conditions by letter, a copy of which shall be forwarded to the Regional Administrator and the State and local Air Pollution Control Agency.

VII. Severability

The provisions of this Approval to Construct/Modify are severable, and, if any provisions of this Approval to Construct/Modify is held invalid, the remainder of this Approval to Construct/Modify shall not be affected thereby.

VIII. Other Applicable Regulations

The owner and operator of the proposed project shall construct and operate the proposed stationary source in compliance with all other applicable provisions of Parts 52, 60 and 61 and all other applicable Federal, State and local air quality regulations.

IX. Special Conditions

A. [Obsolete – Approval to Construct executed in a timely manner]

B. Air Pollution Control Equipment
permit holder shall install, continuously operate, and maintain the following air pollution controls to minimize emissions. Controls listed shall be fully operational upon startup of the proposed equipment.

1. Each gas turbine shall be equipped with steam injection for the control of NOx emissions.

# VI. Permit Conditions

2. Each gas turbine shall be equipped with a Selective Catalytic Reduction (SCR) system for the control of NOx emissions.

D. Operating Limitations

1. The gas turbines and Heat Recovery Steam Generator (HRG) burners shall be fired only on refinery fuel gas and natural gas

2. The firing rate of each gas turbine/HRG burner set shall not exceed 466 MMbtu/hr.

3. The total fuel firing rate of the Steam/Power Plant shall not exceed 1048 MMbtu/hr.

4. The permit holder shall maintain records of the amount of fuel used in the gas turbines and the HRG Burners, hours of operation, sulfur content of the fuel, and the ratio of steam injected to fuel fired in each gas turbine, in a permanent form suitable for inspection. The record shall be retained for at least two years following the date of record and shall be made available to EPA upon request.

E. Emission Limits for NOx

On or after the date of startup, the permit holder shall not discharge from the gas turbine/HRG Burner sets NOx in excess of the more stringent of 83 lb/hr total or 25 ppmv at 15% O2 (3-hour average), or 664 lb/day per set. The concentration limit shall not apply for 4 hours during startup or 2 hours during shutdown.

F. Emission Limits for SO2

On or after the date of startup, the permit holder shall not discharge from the gas turbine/HRG Burner sets SO2 in excess of 15.6 lb/hr per set or 44 lb/hr total (3-hour average). Additionally, total SO2 emissions shall not exceed 34 lb/hr (3 hour average) for more than 36 days per year, nor a total of 153 tons per year (365 days)

G. Continuous Emission Monitoring

1. Prior to the date of startup and thereafter, the permit holder shall install, maintain and operate the following continuous monitoring systems downstream of each of the gas turbine/HRG Burner units:

a. Continuous monitoring systems to measure stack gas NOx and SO2 concentrations. The systems shall meet EPA monitoring performance specifications (60.13 and 60, Appendix B, Performance Specifications). Alternatively, the SO2 continuous monitor may be substituted for by a continuous monitoring system measuring H2S in the refinery fuel gas system and daily sampling for total sulfur in the fuel gas.

b. A system to calculate the stack gas volumetric flow rates continuously from actual process variables.

# VI. Permit Conditions

2. The permit holder shall maintain a file of all measurements, including continuous monitoring system performance evaluations, all continuous monitoring system monitoring device calibration checks, adjustments and maintenance performed on these systems or devices, and all other information required by 60 recorded in a permanent form suitable for inspection. The file shall be retained for at least two years following the date of such measurements, maintenance, reports and records.

3. The permit holder shall submit a written report of SO2 emission status and all excess emissions to EPA (Attn: A3-3) for every calendar quarter. The report shall include the following:

a. If fuel gas samples are used to determine SO2 emissions:
(1) The total measured sulfur concentration in each fuel gas sample for the calendar quarter.

(2) The daily average sulfur content in the fuel gas, daily average SO2 mass emission rate (lb/hr), and total tons per year of SO2 emitted for the last 365 consecutive days. Total SO2 emissions exceeding 34 lb/hr must be identified.

b. The magnitude of excess emissions computed in accordance with 60.13(h), any conversion factors used, and the date and time of commencement and completion of each time period of excess emissions.

c. Specific identification of each period of excess emissions that occurs during startups, shutdowns and malfunctions of the cogeneration gas turbine system. The nature and cause of any malfunction (if known) and the corrective action taken or preventative measures adopted shall also be reported.

d. The date and time identifying each period during which the continuous monitoring system was inoperative except for zero and span checks, and the nature of the system repairs or adjustments.

e. When no excess emissions have occurred or the continuous monitoring system has not been inoperative, repaired, or adjusted, such information shall be stated in the report.

f. Excess emissions shall be defined as any three-hour period during which the average emissions of NOx and/or SO2 as measured by the continuous monitoring system and/or calculated from the daily average of the total sulfur in the fuel gas, exceeds the NOx and/or SO2 maximum emission limits set for each of the pollutants in Conditions IX.E and IX.F. above

g. Excess emissions indicated by the CEM system shall be considered violations of the applicable emission limits for the purpose of this permit.

H. <u>New Source Performance Standards</u>

The proposed cogeneration facility is subject to the Federal regulations entitled Standards of

# VI. Permit Conditions

Performance for New Stationary Sources (60). The permit holder shall meet all applicable requirements of Subparts A and GG of this regulation.

X. Agency Notifications

All correspondence as required by this Approval to Construct/Modify shall be forwarded to:

A. Director, Air Management Division (Attn: A3-3)
EPA Region 9
215 Fremont Street
San Francisco, CA 94105 (415/974-8034)

B. Chief, Stationary Source Division
California Air Resources Board
P O Box 2815
Sacramento, CA 95812

C. Air Pollution Control Officer
Bay Area Air Quality Management District
939 Ellis Street
San Francisco, CA 94109

**CONDITION 18680**

CONDITIONS FOR S294, GASOLINE DISPENSING FACILITY (GDF 7609

1. The Phil Tite EVR Phase I Vapor Recovery System, including all associated plumbing and components, shall be operated and maintained in accordance with the most recent version of California Air Resources Board (CARB) Executive Order VR-101. Section 41954(f) of the California Health and Safety Code prohibits the sale, offering for sale, or installation of any vapor control system unless the system has been certified by the state board.

2. The owner or operator shall conduct and pass a Rotatable Adaptor Torque Test (CARB Test Procedure TP201.1B) and either a Drop Tube/Drain Valve Assembly Leak Test (TP201.1C) or, if operating drop tube overfill prevention devices ("flapper valves"), a Drop Tube Overfill Prevention Device and Spill Container Drain Valve Leak Test (TP201.1D) at least once in each 36-month period. Measured leak rates of each component shall not exceed the levels specified in VR-101. Results shall be submitted to BAAQMD within 15 days of the test date in a District-approved format.

**CONDITION 19278**

CONDITIONS FOR S1001, S1002, S1003, SULFUR RECOVERY UNITS

1. Deleted Application 12433.

# VI. Permit Conditions

2. Deleted Application 12433.

3. An annual District-approved source test shall be performed to verify compliance with the requirements of Regulation 6-330. A copy of the source test results shall be provided to the District Director of Compliance and Enforcement within 45 days of the test.
[Regulation 6-330]

4. The Owner/Operator shall perform a visible emissions check on Sources S-1001, S-1002, and S-1003 on a monthly basis. The visible emissions check shall take place while the equipment is operating and during daylight hours. If any visible emissions are detected, the owner/operator shall have a CARB-certified smoke reader determine compliance with the opacity standard, using EPA Method 9 or the procedures outlined in the CARB manual, "Visible Emissions Evaluation" for six (6) minutes within three (3) days and record the results of the reading. If the reading is in compliance with the Ringelmann 1.0 limit in BAAQMD Regulation 6-301, the reading shall be recorded and the owner/operator shall continue to perform a visible emissions check on a monthly basis. If the reading is not in compliance with the Ringelmann 1.0 limit in BAAQMD Regulation 6-301,the owner/operator shall take corrective action and report the violation in accordance with Standard Condition 1.F of this permit. The certified smoke-reader shall continue to conduct the Method 9 or CARB Visible Emission Evaluation on a daily basis until the daily reading shows compliance with the applicable limit or until the equipment is shut down. Records of visible emissions checks and opacity readings made by a CARB-certified smoke reader shall be kept for a period of at least 5 years from date of entry and shall be made available to District staff upon request. [Basis: Regulations 6-301, 2-6-501, 2-6-503]

5. Within 90 days of issuance of the Major Facility review permit pursuant to Application 10994, the owner/operator shall perform source tests at the stacks of Tail Gas Incinerators A421-A423 to determine compliance with BAAQMD Regulations 6-310 and 6-311 for filterable particulate using the existing single port. The owner/operator shall submit a proposed source test protocol to the Source Test group at least 30 days before conducting the source test. Within 60 days of the source tests, the owner/operator shall submit the results of the source tests to the District. The owner/operator shall repeat the source tests on an annual basis. The District's Source Test Group will observe the initial test to determine if testing with a single port is acceptable for these stacks. If the Source Test Group finds that a single port is not acceptable, the District may reopen the permit to require installation of a second port at each stack. [2-6-503]

6. The owner/operator shall ensure that the throughput of molten sulfur at S1001, S1002, and S1003 combined does not exceed 98,915 long tons/yr. The owner/operator shall record the throughput of molten sulfur on a monthly basis. [Cumulative Increase]

**CONDITION 19476**

CONDITIONS FOR S451, TANK

1. The total throughput at tank S451 shall not exceed 11,000,000 barrels in any consecutive 12-

# VI. Permit Conditions

month period. [Cumulative Increase]

2. S451 shall comply with the following design requirements, in addition to any others required by Regulation 8, Rule 5, NSPS Subpart Kb or NESHAP Subpart CC:

   a. adjustable roof legs, if used, must be equipped with vapor boot seals, or with an equivalent vapor loss control device approved by the District [BACT, Cumulative Increase]

3. Monthly records of the type and net amount of materials stored at S451 shall be kept in a District-approved log for at least 5 years and shall be made available to the District upon request. [Cumulative Increase]

**CONDITION 19488**

CONDITIONS FOR S50, S51, S52, DIESEL ENGINES

1. The owner/operator of turbine startup engines S50, S51 and S52 shall operate each of these engines no more than 100 hours per calendar year. [Cumulative Increase]

2. The owner/operator of S50, S51 and S52 shall keep monthly records of the operating time of each engine. These records shall be kept for at least 5 years and shall be made available to the District upon request. [Regulation 9-8-502, 1-441]

CONDITIONS FOR S53, S54, S55, S56, S57, S58, S59

3. The owner/operator of emergency standby engines S53, S54, S55, S56, S57, S58, and S59 shall operate these engines only for emergency use or for reliability-related activities. Operations for reliability-related activities shall not exceed 100 hours per calendar year for each engine. Operation for emergency use is unlimited. [Regulation 9-8-330]

4. Emergency use is defined as the use of an emergency standby engine during any of the following:
   a. In the event of loss of regular natural gas supply;
   b. In the event of failure of regular electric power supply;
   c. Flood mitigation;
   d. Sewage overflow mitigation;
   e. Fire;
   f. Failure of a primary motor, but only for such time as needed to repair or replace the primary motor. [Regulation 9-8-231]

5. Reliability-related activities is defined as the use of an emergency standby engine during any of the following: [Regulation 9-8-232]
   a. Operation of an emergency standby engine to test its ability to perform for an emergency use;
   b. Operation of an emergency standby engine during maintenance of a primary motor.

6. Each emergency standby engine shall be equipped with either: [Regulation 9-8-530]

# VI. Permit Conditions

a. A non-resettable totalizing meter that measures and records hours of operation.
b. A non-resettable fuel usage meter

7. All records shall be kept for at least five years, and shall be available for inspection by District staff upon request. The owner/operator shall keep a monthly log of usage that shall indicate the following: [Regulations 9-8-530, 1-441]
   a. Hours of operation (total)
   b. Hours of operation (emergency)
   c. the nature of the emergency condition.

**CONDITION 20773, TANKS EXEMPT FROM REGULATION 8, RULE 5**

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: 8-5-117 and 2-6-409.2]

2. 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: 2-6-409.2]

**CONDITION 21092**

CONDITIONS FOR S300, DELAYED COKER

1. The owner/operator of S300 shall not exceed a total charging rate to S300 (Coking Unit 200) of 81,000 barrels on any day. [Cumulative Increase]

2. The owner/operator shall maintain a file which contains (1) all measurements, records, charts and other data which must be collected pursuant to the provisions of this conditional permit and (2) such other data and calculations necessary to determine actual emissions from emission points covered by this permit. This file (which may contain confidential or proprietary data) shall include, but not be limited to: records of quantities of crude oil and other hydrocarbons processed on an actual daily basis. This material shall be kept available for District inspection for a period of at least 5 years following the date on which such measurements, records or other data are made or recorded. [BACT, Cumulative Increase]

# VI. Permit Conditions

3. Each month, within 30 days of the end of the month, the owner/operator shall make an operational report to the APCO. Each monthly report shall include the following information for the month being reported:

   a. S300 daily charging rate for all feed streams [BACT, Cumulative Increase]

**CONDITION 21094**

CONDITIONS FOR S460 HYDROTREATER

1. The owner/operator of S460 shall not exceed a feed rate of 35,000 bbl/day on a monthly average basis at this unit. [Regulation 2-1-234]

2. The owner/operator of S460 shall maintain the following records in a District-approved log. These records shall be kept for at least 5 years and shall be made available to the District upon request.

   a. Daily records of feed throughput
   b. Average daily feed rate for each calendar month [Regulation 2-1-234]

**CONDITION 21095**

CONDITIONS FOR S304 HYDROTREATER

1. The owner/operator of S304 shall not exceed a feed rate of 12,198 bbl/day on a monthly average basis. [Regulation 2-1-234]

2. The owner/operator of S304 shall maintain the following records in a District-approved log. These records shall be kept for at least 5 years and shall be made available to the District upon request.

   a. Daily records of feed throughput
   b. Average daily feed rate for each calendar month [Regulation 2-1-234]

**CONDITION 21096**

CONDITIONS FOR S461 HEATER

1. The owner/operator of the S461 heater shall fire only refinery fuel gas or natural gas at this unit. [BACT, Cumulative Increase]

2. Based on refinery gas HHV, the owner/operator of S461 shall not exceed the following firing rates:

# VI. Permit Conditions

a. 50.2 million btu/hr
b. 439,800 million btu in any consecutive 12-month period. [Cumulative Increase]

3a. The owner/operator of S461 shall abate emissions from S461 at the A461 SCR system whenever S461 is operated, except that S461 may operate without SCR abatement on a temporary basis for periods of planned or emergency maintenance. A District-approved NOx CEM shall monitor and record the S461 NOx emission rate whenever S461 operates without abatement. All emission limits applicable to S461 shall remain in effect even if it is operated without SCR abatement. [BACT, Cumulative Increase]

3b. The owner/operator of A461 shall not exceed the following emission rates from S461/A461 except during startups and shutdowns. Startups and shutdowns shall not exceed 24 consecutive hours. The 24 consecutive-hour startup period is in addition to heater dryout/warmup periods, which shall not exceed 72 consecutive hours.

| | | |
|---|---|---|
| NOx | 10 ppmv @ 3% oxygen (3 hr average) | [BACT, Cumulative Increase] |
| CO | 28 ppmv @ 3% oxygen (8 hr average) at 25.1 MMbtu/hr and higher firing rates,<br>50 ppmv @ 3% oxygen (8 hr average) at firing rates below 25.1 MMbtu/hr | [BACT, Cumulative Increase] |
| POC | 5.5 lb/MM ft3 | [Cumulative Increase] |
| PM10 | 7.6 lb/MM ft3 | [Cumulative Increase] |

*3c. The owner/operator of S461 shall not exceed the following emission rate from S461/A461 except during startups and shutdowns. Startups and shutdowns shall not exceed 24 consecutive hours. The 24 consecutive-hour startup period is in addition to heater dryout/warmup periods, which shall not exceed 72 consecutive hours.

| | | |
|---|---|---|
| Ammonia | 10 ppmv @ 3% oxygen (8 hr average) | [Toxic Management] |

4. The owner/operator shall equip S461 with a District-approved continuous fuel flow monitor and recorder in order to determine fuel consumption. A parametric monitor as defined in Regulation 1-238 is not acceptable. The owner/operator shall keep continuous fuel flow records for at least five years and shall make these records available to the District upon request. [Cumulative Increase]

5a. The owner/operator shall install, calibrate, maintain, and operate a District-approved continuous emission monitor and recorder for NOx and O2. The owner/operator shall keep NOx and O2 data for at least five years and shall make these records available to the District upon request. [BACT, Cumulative Increase]

5b. Following the initial source test, the owner/operator shall monitor compliance with the CO emission rate limit in Part 3b with a District-approved semi-annual source test, with at least one source test per year deemed by the District to be representative of normal operation. The owner/operator shall submit the source test results to the District staff no later than 60 days after the source test. The time interval between source tests shall not exceed 8 months. CO source tests performed by the District may be substituted for semi-annual CO source tests. If

# VI. Permit Conditions

two or more CO source tests, over any consecutive five year period, indicate a CO emission rate of 200 ppmv @ 3% O2 or higher, the owner/operator shall install and operate a District-approved continuous CO monitor/recorder within the time period specified in the District Manual of Procedures.[BACT, Cumulative Increase]

6. The owner/operator shall use only refinery fuel gas at S461 that does not exceed the following limits:

   a. 100 ppmv totaled reduced sulfur (TRS), averaged over a calendar day
   b. 45 ppmv TRS, averaged over any rolling consecutive 365-day period.

   [BACT, Cumulative Increase]

7a. The owner/operator shall test refinery fuel gas prior to combustion at S461 to determine total reduced sulfur (TRS) concentration by GC analysis at least once per 8-hour shift (3 times per calendar day). At least 90% of these samples shall be taken each calendar month. No readable samples or sample results shall be omitted. TRS shall include hydrogen sulfide, methyl mercaptan, methyl sulfide, and dimethyl disulfide.

   7a.1. As an alternative to GC TRS analysis, the fuel gas total sulfur content may be measured with a dedicated total sulfur analyzer (Houston Atlas or equivalent). For the purposes of the daily limit, the owner/operator will presume that the results are TRS, unless the sample is analyzed for TRS by GC analysis. At least one sample per week shall be analyzed using a GC. The owner/operator shall use the results of the samples that have been analyzed by GC analysis for the purposes of the annual limit.

7b. To demonstrate compliance with Part 6, the owner/operator shall measure and record the daily average TRS content and the 365-day average TRS content of the refinery fuel gas fired in S461, unless required to operate a District-approved continuous monitor/recorder by Part 7a. The owner/operator shall keep TRS records, whether they are the results of GC analysis or continuous analyzer data, for at least five years and shall make these records available to the District upon request. [BACT, Cumulative Increase]

7c. For the purpose of demonstrating compliance with the H2S limit in 60.104(a)(1), the owner/operator shall test refinery fuel gas prior to combustion at S461 to determine total H2S concentration at least once per 8 hour shift (3 times per calendar day). At least 90% of these samples shall be taken each calendar month. No readable samples or sample results shall be omitted. Records of H2S monitoring shall be kept for at least five years after the date the record was made. The owner/operator shall submit a semi-annual report regarding this monitoring to the District and to EPA. The reporting periods shall start on January 1st and July 1st of each year. The reports shall be submitted by January 31st and July 31st of each year. If the limit has not been exceeded during the reporting period, this information shall be stated in the report. If the limit has been exceeded, the owner/operator shall report the date and time that the exceedance began and the date and time that the exceedance ended. The owner operator shall estimate and report the excess emissions during the exceedance.

[60.13(i)]

8. Deleted Application 11626.

# VI. Permit Conditions

9. Deleted Application 11626.

10. The owner/operator shall record the duration of all startups, shutdowns, and heater dryout/warmup periods to determine compliance with parts 3b and 3c. The owner/operator shall keep the records for at least five years and shall make these records available to the District upon request. [2-6-503]

**CONDITION 21097**

CONDITIONS FOR S36 HEATER

1. The owner/operator of the S36 heater shall fire only refinery fuel gas or natural gas at this unit. [BACT, Cumulative Increase]

2. Based on refinery gas HHV, the owner/operator of S36 shall not exceed the following firing rates:

   a. 82.1 million btu/hr
   b. 719,200 million btu in any consecutive 12-month period. [Cumulative Increase]

3a. The owner/operator of S36 shall abate emissions from S36 at the A36 SCR system whenever S36 is operated, except that S36 may operate without SCR abatement on a temporary basis for periods of planned or emergency maintenance. A District-approved NOx CEM shall monitor and record the S36 NOx emission rate whenever S36 operates without abatement. All emission limits applicable to S36 shall remain in effect even if it is operated without SCR abatement. [BACT, Cumulative Increase]

3b. The owner/operator of S36 shall not exceed the following emission rates from S36/A36 except during startups and shutdowns. Startups and shutdowns shall not exceed 24 consecutive hours. The 24 consecutive-hour startup period is in addition to heater dryout/warmup periods, which shall not exceed 72 consecutive hours.

| | | |
|---|---|---|
| NOx | 10 ppmv @ 3% oxygen (3 hr average) | [BACT, Cumulative Increase] |
| CO | 28 ppmv @ 3% oxygen (8 hr average) | [BACT, Cumulative Increase] |
| POC | 5.5 lb/MM ft3 | [Cumulative Increase] |
| PM10 | 7.6 lb/MM ft3 | [Cumulative Increase] |

*3c. The owner/operator of S36 shall not exceed the following emission rate from S36/A36 except during startups and shutdowns. Startups and shutdowns shall not exceed 24 consecutive hours. The 24 consecutive-hour startup period is in addition to heater dryout/warmup periods, which shall not exceed 72 consecutive hours.

| | | |
|---|---|---|
| Ammonia | 10 ppmv @ 3% oxygen (8 hr average) | [Toxic Management] |

# VI. Permit Conditions

4. The owner/operator shall equip S36 with a District-approved continuous fuel flow monitor and recorder in order to determine fuel consumption. A parametric monitor as defined in Regulation 1-238 is not acceptable. The owner/operator shall keep continuous fuel flow records for at least five years and shall make these records available to the District upon request. [Cumulative Increase]

5a. The owner/operator shall install, calibrate, maintain, and operate a District-approved continuous emission monitor and recorder for NOx and O2. The owner/operator shall keep NOx and O2 data for at least five years and shall make these records available to the District upon request. [BACT, Cumulative Increase]

5b. Following the initial source test, the owner/operator shall monitor compliance with the CO emission rate limit in Part 3b with a District-approved semi-annual source test, with at least one source test per year deemed by the District to be representative of normal operation. The owner/operator shall submit the source test results to the District staff no later than 60 days after the source test. The time interval between source tests shall not exceed 8 months. CO source tests performed by the District may be substituted for semi-annual CO source tests. If two or more CO source tests, over any consecutive five year period, indicate a CO emission rate of 200 ppmv @ 3% O2 or higher, the owner/operator shall install and operate a District-approved continuous CO monitor/recorder within the time period specified in the District Manual of Procedures. [BACT, Cumulative Increase]

6. The owner/operator shall use only refinery fuel gas at S36 that does not exceed the following limits:

   a. 100 ppmv totaled reduced sulfur (TRS), averaged over a calendar day
   b. 45 ppmv TRS, averaged over any rolling consecutive 365-day period.

   [BACT, Cumulative Increase]

7a. The owner/operator shall test refinery fuel gas prior to combustion at S36 to determine total reduced sulfur (TRS) concentration by GC analysis at least once per 8-hour shift (3 times per calendar day). At least 90% of these samples shall be taken each calendar month. No readable samples or sample results shall be omitted. TRS shall include hydrogen sulfide, methyl mercaptan, methyl sulfide, and dimethyl disulfide.

   7a.1. As an alternative to GC TRS analysis, the fuel gas total sulfur content may be measured with a dedicated total sulfur analyzer (Houston Atlas or equivalent). For the purposes of the daily limit, the owner/operator will presume that the results are TRS, unless the sample is analyzed for TRS by GC analysis. At least one sample per week shall be analyzed using a GC. The owner/operator shall use the results of the samples that have been analyzed by GC analysis for the purposes of the annual limit.

7b. To demonstrate compliance with Part 6, the owner/operator shall measure and record the daily average TRS content and the 365-day average TRS content of the refinery fuel gas fired in S36, unless required to operate a District-approved continuous monitor/recorder by Part 7a. The owner/operator shall keep TRS records, whether they are the results of GC analysis or continuous analyzer data, for at least five years and shall make these records available to the

# VI. Permit Conditions

District upon request. [BACT, Cumulative Increase]

7c. For the purpose of demonstrating compliance with the H2S limit in 60.104(a)(1), the owner/operator shall test refinery fuel gas prior to combustion at S36 to determine total H2S concentration at least once per 8 hour shift (3 times per calendar day). At least 90% of these samples shall be taken each calendar month. No readable samples or sample results shall be omitted. Records of H2S monitoring shall be kept for at least five years after the date the record was made. The owner/operator shall submit a semi-annual report regarding this monitoring to the District and to EPA. The reporting periods shall start on January 1st and July 1st of each year. The reports shall be submitted by January 31st and July 31st of each year. If the limit has not been exceeded during the reporting period, this information shall be stated in the report. If the limit has been exceeded, the owner/operator shall report the date and time that the exceedance began and the date and time that the exceedance ended. The owner operator shall estimate and report the excess emissions during the exceedance. [60.13(i)]

8. Deleted Application 11626.

9. Deleted Application 11626.

10. The owner/operator shall record the duration of all startups, shutdowns, and heater dryout/warmup periods to determine compliance with parts 3b and 3c. The owner/operator shall keep the records for at least five years and shall make these records available to the District upon request. [2-6-503]

**CONDITION 21099**

CONDITIONS FOR ULSD PROJECT FUGITIVE COMPONENTS

1. The owner/operator shall equip all light hydrocarbon control valves installed as part of the USLD Project with live loaded packing systems and polished stems, or equivalent. [BACT]

2. The owner/operator shall equip all flanges/connectors installed in the light hydrocarbon piping systems as part of the USLD Project with graphitic-based gaskets unless the service requirements prevent this material. [BACT]

3. The owner/operator shall equip all new hydrocarbon centrifugal compressors installed as part of the USLD Project with "wet" dual mechanical seals with a heavy liquid barrier fluid, or dual dry gas mechanical seals buffered with inert gas. [BACT]

4. The owner/operator shall equip all new light hydrocarbon centrifugal pumps installed as part of the USLD Project with a seal-less design or with dual mechanical seals with a heavy liquid barrier fluid, or equivalent. [BACT]

5. The owner/operator shall integrate all new fugitive equipment installed as part of the USLD

# VI. Permit Conditions

Project, in organic service, into the facility fugitive equipment monitoring and repair program. [BACT]

6. The Owner/Operator shall submit a count of installed pumps, compressors, valves, and flanges/connectors every 180 days until completion of the project. For flanges/connectors, the owner/operator shall also provide a count of the number of graphitic-based and non-graphitic gaskets used. The owner/operator has been permitted to install fugitive components (5,410 valves, 2,376 flanges, 3,564 connectors, 26 pumps, 14 compressors) with a total POC emission rate of 8.62 ton/yr. If there is an increase in the total fugitive component emissions, the plant's cumulative emissions for the project shall be adjusted to reflect the difference between emissions based on predicted versus actual component counts. The owner/operator shall provide to the District all additional required offsets at an offset ratio of 1.15:1 no later than 14 days after the submittal of the final POC fugitive equipment count. If the actual component count is less than the predicted, at the completion of the project, the total will be adjusted accordingly and all emission offsets applied by the owner/operator in excess of the actual total fugitive emissions will be credited back to owner/operator prior to issuance of the permits. [BACT, Cumulative Increase, Toxic Management]

**CONDITION 21235**

REGULATION 9-10 COMPLIANCE
CONDITIONS FOR SOURCES S2, S3, S4, S5, S7, S8, S9, S10, S11, S12, S13, S14, S15, S16, S17, S18, S19, S20, S22, S29, S30, S31, S43, S44, S336, S337, S351, S371, S372, HEATERS

1. The following sources are subject to the refinery-wide NOx emission rate and CO concentration limits in Regulation 9-10: [Regulation 9-10-301 and 305]

| S# | Description | NOx CEM |
|---|---|---|
| 2 | U229, B-301 Heater | No |
| 3 | U230, B-201 Heater | No |
| 4 | U231, B-101 Heater | No |
| 5 | U231, B-102 Heater | No |
| 7 | U231, B-103 Heater | No |
| 8 | U240, B-1 Boiler | Yes |
| 9 | U240, B-2 Boiler | No |
| 10 | U240, B-101 Heater | Yes |
| 11 | U240, B-201 Heater | No |
| 12 | U240, B-202 Heater | No |
| 13 | U240, B-301 Heater | Yes |
| 14 | U240, B-401 Heater | Yes |
| 15 | U244, B-501 Heater | Yes |
| 16 | U244, B-502 Heater | Yes |
| 17 | U244, B-503 Heater | Yes |
| 18 | U244, B-504 Heater | Yes |
| 19 | U244, B-505 Heater | Yes |
| 20 | U244, B-506 Heater | No |

# VI. Permit Conditions

| | | |
|---|---|---|
| 22 | U248, B-606 Heater | No |
| 29 | U200, B-5 Heater | No |
| 30 | U200, B-101 Heater | No |
| 31 | U200, B-501 Heater | No |
| 43 | U200, B-202 Heater | Yes |
| 44 | U200, B-201 PCT Reboil Furnace | Yes |
| 336 | U231 B-104 Heater | No |
| 337 | U231 B-105 Heater | No |
| 351 | U267 B-601/602 Tower Pre-Heaters | Yes |
| 371 | U228 B-520 (Adsorber Feed) Furnace | Yes |
| 372 | U228 B-521 (Hydrogen Plant) Furnace | Yes |

2. The owner/operator of each source listed in Part 1 shall properly install, properly maintain, and properly operate an O2 monitor and recorder. This Part shall be effective December 1, 2004.
[Regulation 9-10-502]

3. The owner/operator shall operate each source listed in Part 1, which does not have a NOx CEM within specified ranges of operating conditions (firing rate and oxygen content) as detailed in Part 5. The ranges shall be established by utilizing data from district-approved source tests.

a. The NOx Box for units with a maximum firing rate of 25 MMbtu/hr or more shall be established using the procedures in Part 4.
b. The NOx Box for units with a maximum firing rate less than 25 MMbtu/hr shall be established as follows: High-fire shall be the maximum rated capacity. Low-fire shall be 20% of the maximum rated capacity. There shall be no maximum or minimum O2.
[Regulation 9-10-502q]

4. The owner/operator shall establish the initial NOx box for each source subject to Part 3 by December 1, 2004. The NOx Box may consist of two operating ranges in order to allow for operating flexibility and to encourage emission minimization during standard operation. The procedure for establishing the NOx box is as follows:

a. Conduct District-approved source tests for NOx and CO, while varying the oxygen concentration and firing rate over the desired operating ranges for the furnace;
b. Determine the minimum and maximum oxygen concentrations and firing rates for the desired operating ranges (Note that the minimum O2 at low-fire may be different than the minimum $O_2$ at high-fire. The same is true for the maximum O2). The owner/operator shall also verify the accuracy of the O2 monitor on an annual basis.
c. Determine the highest NOx emission factor (lb/MMbtu) over the preferred operating ranges while maintaining CO concentration below 200 ppm; the owner/operator may choose to use a higher NOx emission factor than tested.
d. Plot the points representing the desired operating ranges on a graph. The resulting polygon(s) are the NOx Box, which represents the allowable operating range(s) for the furnace under which the NOx emission factor from part 5a is deemed to be valid.
i. The NOx Box can represent/utilize either one or two emission factors.
ii. The NOx Box for each emission factor can be represented either as a 4 or 5-sided polygon The NOx box is the area within the 4 or 5-sided polygon formed by connecting the source test

# VI. Permit Conditions

parameters that lie about the perimeter of successful approved source tests. The source test parameters forming the corners of the NOx box are listed in Part 5.
e. Upon establishment of each NOx Box, the owner/operator shall prepare a graphical representation of the box. The representation shall be made available on-site for APCO review upon request. The box shall also be submitted to the BAAQMD with permit amendments.
[Regulation 9-10-502]

5. Except as provided in Part 5b and 5c, the owner/operator shall operate each source within the NOx Box ranges listed below at all times of operation. This part shall not apply to any source that has a properly operated and properly installed NOx CEM.

a. NOx Box ranges

| Source No. | Emission Factor (lb/MMbtu) | Min $O_2$ at Low Firing (O2% , MMbtu/hr) | Max $O_2$ at Low Firing (O2% , MMbtu/hr) | Min $O_2$ at High Firing (O2% , MMbtu/hr) | Mid $O_2$ at Mid/High Firing (polygon) (O2% , MMbtu/hr) | Max $O_2$ at High Firing (O2% , MMbtu/hr) |
|---|---|---|---|---|---|---|
| 2 | tbd | tbd | tbd | tbd | tbd | tbd |
| 3 | tbd | tbd | tbd | tbd | tbd | tbd |
| 4 | tbd | tbd | tbd | tbd | tbd | tbd |
| 5 | tbd | tbd | tbd | tbd | tbd | tbd |
| 7 | tbd | tbd | tbd | tbd | tbd | tbd |
| 9 | tbd | tbd | tbd | tbd | tbd | tbd |
| 11 | tbd | tbd | tbd | tbd | tbd | tbd |
| 12 | tbd | tbd | tbd | tbd | tbd | tbd |
| 20 | tbd | tbd | tbd | tbd | tbd | tbd |
| 22 | tbd | tbd | tbd | tbd | tbd | tbd |
| 29 | tbd | tbd | tbd | tbd | tbd | tbd |
| 30 | tbd | tbd | tbd | tbd | tbd | tbd |
| 31 | tbd | tbd | tbd | tbd | tbd | tbd |
| 336 | tbd | tbd | tbd | tbd | tbd | tbd |
| 337 | tbd | tbd | tbd | tbd | tbd | tbd |

The limits listed above are based on a calendar day averaging period for both firing rate and O2%.

b. Part 5a does not apply to low firing rate conditions (i.e., firing rate less than or equal to 20% of the unit's rated capacity) during startup or shutdown periods or periods of curtailed operation (ex. during heater idling, refractory dryout, etc.) lasting 5 days or less. During these conditions the means for determining compliance with the refinery-wide limit shall be accomplished using the method described in 9-10-301.2 (i.e. units out of service and 30-day averaging data).

c. Part 5a does not apply during any source test required or permitted by this condition. See Part 7 for the consequences of source test results that exceed the emission factors in Part 5.
[Regulation 9-10-502]

# VI. Permit Conditions

6a. The owner/operator may deviate from the NOx Box (either the firing rate or oxygen limit) provided that the owner/operator conducts a District-approved source test which replicates the past operation outside of the established ranges. The source test representing the new conditions shall be conducted no later than the next regularly scheduled source test period, or within eight months, whichever is sooner. The source test results will establish whether the source was operating outside of the emission factor utilized for the source. The source test results shall be submitted to the District Source Test manager within 45 days of the test. As necessary, a permit amendment shall be submitted.

i. Source Test <= Emission Factor

If the results of this source test do not exceed the higher NOx emission factor in Part 5, or the CO limit in Part 9, the unit will not be considered to be in violation during this period for operating out of the "box." The facility may submit an accelerated permit program permit application to request an administrative change of the permit condition to adjust the NOx Box operating range(s), based on the new test data.

ii. Source Test > Emission Factor

If the results of this source test exceed the permitted emission concentrations or emission rates then, utilizing measured emission concentration or rate, the owner/operator shall perform an assessment, retroactive to the date of the previous source test, of compliance with Section 9-10-301. The unit will be considered to have been in violation of 9-10-301 for each day the facility was operated in excess of the refinery wide limit. The facility may submit a permit application to request an alteration of the permit condition to change the NOx emission factor and/or adjust the operating range, based on the new test data. [Regulation 9-10-502]

6b. The owner/operator must report conditions outside of box within 96 hours of occurrence. [Regulation 9-10-502]

7. For each source subject to Part 3, the owner/operator shall conduct source tests at the schedule listed below. The source tests are performed in order to measure NOx, CO, and O2 at the as-found firing rate, or at conditions reasonably specified by the APCO. The source test results shall be submitted to the District Source Test manager within 45 days of the test.

a. Source Testing Schedule

i. Heater < 25 MMbtu/hr: One source test per consecutive 12 month period. The time interval between source tests shall not exceed 16 months.
ii. Heaters ≥ 25 MMbtu/hr: Two source tests per consecutive 12 month period. The time interval between source tests shall not exceed 8 months and not be less than 5 months apart. The source test results shall be submitted to the district source test manager within 45 days of the test.

b. If the results of any source test under this part exceed the permitted concentrations or emission rates the owner/operator shall follow the requirements of Part 6a(ii). If the

# VI. Permit Conditions

owner/operator chooses not to submit an application to revise the emission factor, the owner/operator shall conduct another Part 7 source test, at the same conditions, within 90 days of the initial test. [Regulation 9-10-502]

8. For each source listed in Part 1 with a NOx CEM installed, the owner/operator shall conduct semi-annual District-approved CO source tests at as-found conditions. The time interval between source tests shall not exceed 8 months. District conducted CO emission tests associated with District-conducted NOx CEM field accuracy tests may be substituted for the CO semi-annual source tests. [Regulation 9-10-502]

9. For any source listed in Part 1 for which any two source test results over any consecutive five year period are greater than or equal to 200 ppmv CO at 3% O2, the owner/operator shall properly install, properly maintain, and properly operate a CEM to continuously measure CO and O2. The owner/operator shall install the CEM within the time period allowed in the District's Manual of Procedures. [Regulation 9-10-502, 1-522]

10. In addition to records required by 9-10-504, the facility must maintain records of all source tests conducted to demonstrate compliance with Parts 1 and 5. These records shall be kept on site for at least five years from the date of entry in a District approved log and be made available to District staff upon request. [Recordkeeping, Regulation 9-10-504]

**FACILITY-WIDE REQUIREMENTS**

**CONDITION 20989**

**A. THROUGHPUT LIMITS**

The following limits are imposed through this permit in accordance with Regulation 2-1-234.3. Sources require BOTH hourly/daily and annual throughput limits (except for tanks and similar liquid storage sources, and small manually operated sources such as cold cleaners which require only annual limits). Sources with previously imposed hourly/daily AND annual throughput limits are not listed below; the applicable limits are given in the specific permit conditions listed above in this section of the permit. Also, where hourly/daily capacities are listed in Table II-A, these are considered enforceable limits for sources that have a New Source Review permit. Throughput limits imposed in this section and hourly/daily capacities listed in Table II-A are not federally enforceable for grandfathered sources. Grandfathered sources are indicated with an asterisk in the source number column in the following table. Refer to Title V Standard Condition J for clarification of these limits.

In the absence of specific recordkeeping requirements imposed as permit conditions, monthly throughput records shall be maintained for each source.

| source number | hourly / daily throughput limit | annual throughput limit (any consecutive 12-month period unless otherwise specified) |
|---|---|---|

# VI. Permit Conditions

| source number | hourly / daily throughput limit | annual throughput limit (any consecutive 12-month period unless otherwise specified) |
|---|---|---|
| 15 | Table II-A | 19.9 E 6 therm total at S15 through S19 |
| 16 | Table II-A | 19.9 E 6 therm total at S15 through S19 |
| 17 | Table II-A | 19.9 E 6 therm total at S15 through S19 |
| 18 | Table II-A | 19.9 E 6 therm total at S15 through S19 |
| 19 | Table II-A | 19.9 E 6 therm total at S15 through S19 |
| 20 | Table II-A | 1.9 E 6 therm |
| 21 | Table II-A | 0.7 E 6 therm |
| 22 | Table II-A | 2.6 E 6 therm |
| 29 | Table II-A | 8.6 E 6 therm |
| 30 | Table II-A | 4.2 E 6 therm |
| 31 | Table II-A | 1.7 E 6 therm |
| 43 | Table II-A | 19.1 E 6 therm |
| 44 | Table II-A | 3.8 E 6 therm |
| *97 | NA for tank | 1.1 E 7 bbl |
| *100 | NA for tank | 4.38 E 6 bbl |
| 101 | NA for tank | 3.68 E 9 gal |
| 102 | NA for tank | 3.68 E 9 gal |
| 106 | NA for tank | 3.68 E 9 gal |
| *107 | NA for tank | 8.76 E 6 bbl |
| *110 | NA for tank | 1.40 E 7 bbl |
| *111 | NA for tank | 1.31 E 7 bbl |
| *112 | NA for tank | 1.49 E 7 bbl |
| *113 | NA for tank | 1.49 E 7 bbl |
| *114 | NA for tank | 1.31 E 7 bbl |
| *115 | NA for tank | 4.38 E 6 bbl |
| *117 | NA for tank | 8.76 E 5 bbl |
| *118 | NA for tank | 15,000 bbl |
| *121 | NA for tank | 3.52 E 4 bbl |
| *122 | NA for tank | 4.38 E 6 bbl |
| *125 | NA for tank | 1.05 E 7 bbl |
| *126 | NA for tank | 1.05 E 7 bbl |
| *128 | NA for tank | 5.1 E 6 bbl |
| 129 | NA for tank | 4.6 E 6 bbl |
| 133 | NA for tank | 8.76 E 5 bbl |
| *134 | NA for tank | 1.31 E 7 bbl |
| *139 | NA for tank | 2.74 E 6 bbl |
| *140 | NA for tank | 2.74 E 6 bbl |

# VI. Permit Conditions

| source number | hourly / daily throughput limit | annual throughput limit (any consecutive 12-month period unless otherwise specified) |
|---|---|---|
| 150 | NA for tank | 4.38 E 7 bbl |
| 151 | NA for tank | 4.38 E 7 bbl |
| *177 | NA for tank | 2.63 E 7 bbl |
| 178 | NA for tank | 3.50 E 7 bbl |
| 183 | NA for tank | 4.38 E 5 bbl |
| 184 | NA for tank | 4.38 E 6 bbl |
| *193 | NA for tank | 100 bbl |
| *194 | NA for tank | 100 bbl |
| 195 | NA for tank | 525,600 bbl for S195, S196, S388 (combined) |
| 196 | NA for tank | 525,600 bbl for S195, S196, S388 (combined) |
| *216 | NA for tank | 4.6 E 6 bbl |
| *238 | NA for tank | 1.00 E 6 bbl |
| *239 | NA for tank | 8.76 E 6 bbl |
| *254 | NA for tank | 7.01 E 7 bbl |
| *255 | NA for tank | 7.01 E 7 bbl |
| *256 | NA for tank | 7.01 E 7 bbl |
| *257 | NA for tank | 7.01 E 7 bbl |
| *258 | NA for tank | 7.01 E 7 bbl |
| *259 | NA for tank | 7.01 E 7 bbl |
| *261 | NA for tank | 7.01 E 7 bbl |
| 294 | 20 gpm | 400,000 gallons |
| 305 | Table II-A | 10.22 E 6 bbl |
| 306 | Table II-A | 7.67 E 6 bbl |
| 307 | Table II-A | 1.533 E 7 bbl |
| 308 | Table II-A | 5.87 E 6 bbl |
| *309 | Table II-A | 6.11 E 6 bbl |
| *318 | Table II-A | 3.3 E 7 bbl |
| *319 | Table II-A | 3.51 E 6 bbl |
| 324 | Table II-A | 3.68 E 9 gallons |
| 336 | Table II-A | 9.2 E 6 therm |
| 337 | Table II-A | 2.8 E 6 therm |
| *338 | Table II-A | 6.6 E 10 ft3 |
| *339 | Table II-A | 5.26 E 7 bbl |
| 340 | NA for tank | 7.67 E 6 bbl |
| 341 | NA for tank | 4.38 E 7 bbl |
| 342 | NA for tank | 4.38 E 7 bbl |
| 343 | NA for tank | 4.38 E 7 bbl |
| 351 | Table II-A | 8.4 E 6 therm |
| 360 | NA for tank | 2.78 E 6 bbl |
| 370 | Condition 12121 | 4.03 E6 bbl |

# VI. Permit Conditions

| source number | hourly / daily throughput limit | annual throughput limit (any consecutive 12-month period unless otherwise specified) |
|---|---|---|
| 371 | Table II-A | 4.8 E6 therm for S371/S372 |
| 372 | Table II-A | 4.8 E6 therm for S371/S372 |
| 380 | 0.45 ton/hr | 3,942 ton |
| 381 | 420,000 gal/hr | 3.68 E 9 gal |
| 382 | 420,000 gal/hr | 3.68 E 9 gal |
| 383 | 420,000 gal/hr | 3.68 E 9 gal |
| 384 | 420,000 gal/hr | 3.68 E 9 gal |
| 385 | Table II-A | 3.68 E 9 gal |
| 386 | 3600 gal/hr | 3.2 E 7 gal |
| 387 | Table II-A | 13.14 E 6 gal |
| 388 | Table II-A | 525,600 bbl for S195, S196, S388 (combined) |
| 389 | 0.21 ton/hr | 1840 ton |
| 390 | N/A for tank | 7.884 E 6 gal |
| 392 | N/A for tank | 7.884 E 6 gal |
| 400 | N/A for sump | 3.68 E 9 gal |
| 401 | N/A for sump | 3.68 E 9 gal |
| 432 | Table II-A | 2.8 E6 bbl |
| 435 | Table II-A | 6.6 E 6 bbl |
| 436 | Table II-A | 4.7 E 6 bbl |
| 437 | Table II-A | 9.1 E 9 ft3 |
| 462 | Table II-A | 1.533 E 9 ft3 |
| 463 | Table II-A | 365,000 bbl |
| 1007 | Table II-A | 3.68 E 9 gal |

**B. OTHER REQUIREMENTS**

1. The owner/operator shall notify the District in writing by fax or email no less than three calendar days in advance of any scheduled startup or shutdown of any process unit, and, for any unscheduled startup or shutdown of a process unit, within 48 hours or within the next normal business day. The notification shall be sent in writing by fax or email to the Director of Enforcement and Compliance. This requirement is not federally enforceable. [Regulation 2-1-403]

**CONDITION 22478**
For Sources S123 (Tank 168), S124 (Tank 169), S186 (Tank 298), and S334 (Tank 107)

1. The owner/operator shall ensure that S123 contains only petroleum liquid with a true vapor pressure less than or equal to 1.5 psia. [Cumulative Increase]

# VI. Permit Conditions

2. The owner/operator shall ensure that the emissions of S124 do not exceed 6,815 lb VOC in any consecutive 12-month period. S124 shall only contain petroleum liquids. [Cumulative Increase]

3. The owner/operator shall ensure that the emissions of S186 do not exceed 2,231 lb VOC in any consecutive 12-month period. S186 shall only contain petroleum liquids. [Cumulative Increase]

4. The owner/operator shall ensure that S334 contains only crude oil or a less volatile petroleum liquid with a true vapor pressure less than or equal to 6.75 psia. [Cumulative Increase]

5. The owner/operator shall ensure that the throughput of petroleum liquids at S123 does not exceed 3,000,000 barrels/yr. [Cumulative Increase]

6. The owner/operator shall ensure that the throughput of crude oil or other petroleum liquids at S334 does not exceed 5,000,000 barrels/yr. [Cumulative Increase]

7. The owner/operator shall equip S123, S124, S186, and S334 with a BAAQMD approved roof with mechanical shoe primary seal and zero gap secondary seal meeting the design criteria of BAAQMD Regulation 8, Rule 5. The owner/operator shall ensure that there are no ungasketed roof penetrations, no slotted pipe guide poles unless equipped with float and wiper seals, and no adjustable roof legs unless fitted with vapor seal boots or equivalent. [BACT, cumulative increase]

8. The owner/operator shall calculate the emissions of S124 and S186 on a calendar month basis using the AP-42 equations. The owner/operator shall use actual throughputs, actual vapor pressures, and actual temperature data for each month. The owner/operator shall calculate the emissions for the last 12-month period on a monthly basis. The calculations shall be complete within a calendar month after the end of each monthly period. [Cumulative increase]

**CONDITION 22518**
For Sources S135 (Tank 200), S137 (Tank 202)

1. The owner/operator shall ensure that S135 contains only petroleum liquid with a true vapor pressure less than or equal to 11 psia. [Cumulative Increase]

2. The owner/operator shall ensure that S137 contains only petroleum liquid with a true vapor pressure less than or equal to 11 psia. [Cumulative Increase]

3. The owner/operator shall ensure that the throughput of petroleum liquids at S135 and S137 does not exceed 10,000,000 barrels/yr at each tank. [Cumulative Increase]

4. The owner/operator shall ensure that S135 and S137 are controlled at all times that

# VI. Permit Conditions

petroleum fluids are stored in the tanks by A7, Vapor Recovery System. [Cumulative Increase]

5. The owner/operator shall not clean S135 and S137 when switching from one petroleum fluid to another. [Cumulative Increase]

**CONDITION 22549**
Source 318, U76 Gasoline/Mid Barrel Blending Unit

1. The owner/operator shall ensure that the daily throughput of petroleum liquids, excluding diesel, at S318, U76 Gasoline/Mid Barrel Blending Unit, does not exceed 113,150 barrels/day. No daily limit is placed on diesel. [Cumulative Increase]

2. The owner/operator shall keep daily records of throughput of all petroleum fluids at S318, U76 Gasoline/Mid Barrel Blending Unit, in a District-approved log. These records shall be kept for at least five years and shall be made available to the District upon request. [Cumulative Increase]

**CONDITION 22121**
For Sources S452, S453, S455, S457, S458, S500, Cooling Towers (Application 10349)

1. The owner/operator shall take a sample and perform a visual inspection of the cooling tower water at each cooling tower above on a daily basis to check for signs of hydrocarbon in the cooling water. [Regulation 2-6-503]

2. The owner/operator shall take a sample of the cooling tower water 3 times per week at each cooling tower above and analyze for chlorine content as an indicator of hydrocarbon leakage into the cooling water. On a monthly basis, the owner/operator shall sample the water in the inlet line and in the return line of each cooling tower and determine the VOC content in each line using EPA laboratory method 8015. [Regulation 2-6-503]

3. The owner/operator shall maintain monthly records of sodium hypochlorite (NaOCl) usage at each cooling tower above. [Regulation 2-6-501]

4. *The owner/operator shall sample the cooling tower water at each cooling tower at least once per month and subject the sample to a District approved laboratory analysis to determine its total dissolved solids content. [Regulations 2-6-503, Regulation 3]

5. If the monitoring in part 1 or part 2 indicates that there is a hydrocarbon leak into the cooling water, the owner/operator shall submit a report to the Enforcement and the Engineering divisions at the District. The owner/operator shall submit reports on a weekly basis until the monitoring indicates that no hydrocarbon leaks into the cooling water. [Regulation 1-441]

6. If the monitoring in part 1 or part 2 indicates a hydrocarbon leak for longer than 4 weeks, the owner/operator shall estimate the daily amount of VOC emitted using the following procedure.

# VI. Permit Conditions

The owner/operator shall sample the water in the inlet line and in the return line and determine the VOC content in each line using EPA laboratory method 8015. This analysis shall be performed each week until VOC levels return to normal. The owner/operator shall report the VOC estimates to the Enforcement and the Engineering divisions at the District on a monthly basis. If a hydrocarbon leak occurs at Sources S452, S457, S458, or S500, the owner/operator shall use the VOC estimates to confirm that no more than 5 tons VOC per year was emitted at any source. If more than 5 tons VOC per year is emitted at S452, S457, S458, or S500, the facility shall submit an application for a District permit within 90 days of determining that the source is subject to District permits. [Regulations 1-441, 2-1-424, 2-6-416.2, 2-6-501, 2-6-503]

7. The owner/operator shall use the total dissolved solids monitoring to estimate annual emissions of particulate from the cooling towers. The estimated annual emissions shall be reported to the Engineering Divisions by June 30th of each year as part of the annual update. The owner/operator shall use this estimate to confirm that S452 has not emitted more than 5 tons particulate per year. [Regulations 2-1-319.1, 3]

8. The owner/operator shall maintain the following records for five years from the date of record:
   a. Records of daily visual inspection
   b. Records of chlorine content every shift (twice/day)
   c. Records of daily usage of sodium hypochlorite
   d. Records of monthly determination of total dissolved solids
   e. Records of any indications of hydrocarbon leaks
   f. Records of any analyses of VOC content in cooling tower inlet and outlet

   [Regulation 2-6-501]

# VI. Permit Conditions

**CONDITION 22122**
For Source S456, Cooling Tower (Application 10349)

1. The owner/operator shall take a sample and perform a visual inspection of the cooling tower water on a daily basis to check for signs of hydrocarbon in the cooling water. [Regulation 2-6-503]

2. The owner/operator shall sample the cooling tower water at least once per month and subject the sample to a District approved laboratory analysis to determine its total dissolved solids content. [basis: Regulations 2-6-503, 3]

3. If the monitoring in part 1 indicates that there is a hydrocarbon leak into the cooling water, the owner/operator shall submit a report to the Enforcement and the Engineering divisions at the District. The owner/operator shall submit reports on a weekly basis until the monitoring indicates that no hydrocarbon leaks into the cooling water. [Regulation 1-441]

4. If the monitoring in part 1 indicates a hydrocarbon leak for longer than 4 weeks, the owner/operator shall estimate the daily amount of VOC emitted using the following procedure. The owner/operator shall sample the water in the inlet line and in the return line and determine the VOC content in each line using EPA laboratory method 8015. This analysis shall be performed each week until VOC levels return to normal. The owner/operator shall report the VOC estimates to the Enforcement and the Engineering divisions at the District on a monthly basis. If a hydrocarbon leak occurs, the owner/operator shall use the VOC estimates to confirm that no more than 5 tons VOC per year was emitted at the source. If more than 5 tons VOC per year is emitted at the source, the facility shall submit an application for a District permit within 90 days of determining that the source is subject to District permits. [Regulations 1-441, 2-1-424, 2-6-416.2, 2-6-501, 2-6-503]

5. The owner/operator shall use the total dissolved solids monitoring to estimate annual emissions of particulate from the cooling tower. The estimated annual emissions shall be reported to the Engineering Divisions by June 30th of each year as part of the annual update. The owner/operator shall use this estimate to confirm that the cooling tower has not emitted more than 5 tons particulate per year. [Regulation 2-6-501, 3]

**CONDITION 22964**
Sources S301, S302, S303, Sulfur Pits

1. The owner/operator shall ensure that the throughput of molten sulfur at S301, S302, and S303 combined does not exceed 98,915 long tons per consecutive 12-month period. [Cumulative Increase]

4. The owner/operator shall ensure that S301, Molten Sulfur Pit, is abated by A8, Stretford Evaporative Cooler. [Consent Decree Case No. 05-0258, paragraph 123, DATE: 1/27/05; Consent Decree Case No. 05-0258 amendment, paragraph 123, DATE: 5/1/07; 40 CFR 60.104(a)(2)(i)]

5. The owner/operator shall ensure that S302, Molten Sulfur Pit, is abated by A9, Stretford

# VI. Permit Conditions

Evaporative Cooler. [Consent Decree Case No. 05-0258, paragraph 123, DATE: 1/27/05; Consent Decree Case No. 05-0258 amendment, paragraph 123, DATE: 5/1/07; 40 CFR 60.104(a)(2)(i)]

6. The owner/operator shall ensure that S303, Molten Sulfur Pit, is abated by A10, Stretford Evaporative Cooler. [Consent Decree Case No. 05-0258, paragraph 123, DATE: 1/27/05; Consent Decree Case No. 05-0258 amendment, paragraph 123, DATE: 5/1/07; 40 CFR 60.104(a)(2)(i)]

7. Notwithstanding the requirements of parts 4-6, the owner/operator may disconnect the vent lines from S301, S302, and S303, Molten Sulfur Pits, to A8, A9, and A10, Stretford Evaporative Coolers, for periodic maintenance without penalty, as long as the owner/operator takes reasonable measures to minimize emissions while such periodic maintenance is being performed. [Consent Decree Case No. 05-0258 amendment, paragraph 123, DATE: 5/1/07]

# VII. APPLICABLE LIMITS & COMPLIANCE MONITORING REQUIREMENTS

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

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

**Table VII – All Sources**
**Facility-Specific Generally Applicable Requirements**

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| POC | 40 CFR 61.342(a) | Y | | Exemption for facilities with less than 10 Mg/yr of benzene in waste | 40 CFR 61.357 (c) | P/A | Records, report |
| HAP | 40 CFR 63.647(a) | Y | | wastewater standards of 40 CFR 61.340 to 61.355 are applicable | 40 CFR 63.654(a) | P/A | report |
| VOC | BAAQMD 8-2-301 | Y | | emission streams with 15 lb/day AND 300 ppm total carbon on a dry basis prohibited | None | N | None |
| VOC | BAAQMD 8-4-302.1 and SIP 8-4-302 | N<br>Y | | 5 ton/yr per solvent, surface coating source | None | N | None |

# VII. Applicable Limits and Compliance Monitoring Requirements

## Table VII – All Sources
## Facility-Specific Generally Applicable Requirements

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| VOC | BAAQMD 8-5-328.2 | Y | | Tank cleaning control device standard includes 90% abatement efficiency requirement | BAAQMD 8-5-502 | P/A | source test |
| VOC | 40 CFR 60.112b(a)(2) and 63.647(a) | Y | | VOC concentrations shall not exceed 500 ppmv above background | 40 CFR 63.642(e), 63.642(f) and 63.654(i)(4) | P/Q-visual and A measure-ments and reports | Visual inspections, portable HC detector (EPA Method 21) and records of detectable emissions, inspections and repairs |
| Opacity | BAAQMD 6-301 | Y | | Ringelmann No. 1 for no more than 3 minutes/hour | None | N | None |
| FP | BAAQMD 6-305 | Y | | Prohibition of nuisance | None | N | None |
| FP | BAAQMD 6-310.3 | Y | | 0.15 grain/dscf @ 6% O2 | None for gaseous fired sources | N | None |
| FP | BAAQMD 6-311 | Y | | No emissions from source > rate specified in rule | None for gaseous fired sources | N | None |
| SO2 | BAAQMD 9-1-301 | Y | | ground level SO2 concentrations (0.5 ppm for 3 min; 0.25 ppm for 60 min; 0.05 ppm for 24 hr) | at the request of the District, 9-1-501 requires compliance with BAAQMD 1-510 | C | SO2 GLM |

# VII. Applicable Limits and Compliance Monitoring Requirements

## Table VII – All Sources
## Facility-Specific Generally Applicable Requirements

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| SO2 | BAAQMD 9-1-313.2 | N | | operation of a sulfur removal and recovery system that removes and recovers: 95% of H2S from refinery fuel gas, 95% of H2S and ammonia from process water streams; operation of a sulfur recovery plant | None | N | |
| SO2 | SIP 9-1-313.2 | Y | | operation of a sulfur removal and recovery system that removes and recovers: 95% of H2S from refinery fuel gas, 95% of H2S and ammonia from process water streams | None | N | |
| H2S | BAAQMD 9-2-301 | N | | Ground level concentrations < 0.06 ppm averaged over 3 consecutive minutes or < 0.03 ppm averaged over any 60 consecutive minutes | BAAQMD 9-2-501, 1-510, 1-530 1-540, 1-542, 1-543 and 1-544 | C | Area Monitoring |

# VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – A.1**
**Applicable Limits and Compliance Monitoring Requirements**
**S2 – UNIT 229, B-301 HEATER**

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| NOx | BAAQMD 9-10-301 | N | | Refinery-wide emissions: 0.033 lb NOx/ MMbtu | BAAQMD 9-10-502.1<br><br>BAAQMD Condition 21235, Part 7 | P/A | source test |
| NOx | BAAQMD 9-10-303 | Y | | Federal emissions: Refinery-wide emissions: 0.20 lb NOx/MMbtu | None | N | None |
| Heat input | BAAQMD Condition 1694, Part A.1b | Y | | 528 MMbtu/day | BAAQMD Condition 1694, Part A.5 | P/D | records |
| Heat input | BAAQMD Condition 1694, Part F.2 | Y | | 346.5 MMbtu/hr averaged over any year at S2, S3, S4, S5, S7 | BAAQMD Condition 1694, Part F.3 | P/M | records |
| O2 | | N | | No limit | BAAQMD 9-10-502.1<br><br>BAAQMD Condition 21235, Part 2 | C | O2 Monitor |
| CO | BAAQMD 9-10-305 | N | | 400 ppmv (dry, 3% $O_2$) | BAAQMD 9-10-502.1<br><br>BAAQMD Condition 21235, Part 7 | P/A | source test |
| Opacity | BAAQMD 6-301 | Y | | Ringelmann 1 for no more than 3 minutes in any hour | None | N | None |
| FP | BAAQMD 6-305 | Y | | Prohibition of nuisance | None | N | None |

# VII. Applicable Limits and Compliance Monitoring Requirements

## Table VII – A.1
## Applicable Limits and Compliance Monitoring Requirements
## S2 – UNIT 229, B-301 HEATER

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| FP | BAAQMD 6-310.3 | Y | | 0.15 grain/dscf @ 6% O2 | None for gaseous fired sources | N | None |
| SO2 | BAAQMD Condition 1694, Part A.4 | Y | | 1,612 lb/day SO2 over any month from non-cogeneration sources | BAAQMD Condition 1694, Part A.3a | P/3 times per day | TRS analysis |
| H2S | 40 CFR 60.104(a)(1) | Y | | fuel gas H2S concentration limited to 230 mg/dscm (0.10 gr/dscf) | 40 CFR 60.105(a)(4) | C | H2S analyzer |
| Fuel Flow | | Y | | No limit | BAAQMD 9-10-502.2 | C | Fuel Flowmeter |

## Table VII – A.2
## Applicable Limits and Compliance Monitoring Requirements
## S3 – UNIT 230, B-201 HEATER

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| NOx | BAAQMD 9-10-301 | N | | Refinery-wide emissions: 0.033 lb NOx/ MMbtu | BAAQMD 9-10-502.1<br><br>BAAQMD Condition 21235, Part 7 | P/SA | source test |
| NOx | BAAQMD 9-10-303 | Y | | Federal emissions: Refinery-wide emissions: 0.20 lb NOx/MMbtu | None | N | None |
| Heat input | BAAQMD Condition 1694, Part A.1a | Y | | 1,488 MMbtu/day | BAAQMD Condition 1694, Part A.5 | P/D | records |

# VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – A.2**
**Applicable Limits and Compliance Monitoring Requirements**
**S3 – UNIT 230, B-201 HEATER**

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| Heat input | BAAQMD Condition 1694, Part F.2 | Y | | 346.5 MMbtu/hr averaged over any year at S2, S3, S4, S5, S7 | BAAQMD Condition 1694, Part F.3 | P/M | records |
| O2 | | N | | No limit | BAAQMD 9-10-502.1<br><br>BAAQMD Condition 21235, Part 2 | C | O2 Monitor |
| CO | BAAQMD 9-10-305 | N | | 400 ppmv (dry, 3% $O_2$) | BAAQMD 9-10-502.1<br><br>BAAQMD Condition 21235, Part 7 | P/SA | source test |
| Opacity | BAAQMD 6-301 | Y | | Ringelmann 1 for no more than 3 minutes in any hour (gaseous fuel firing) | None | N | None |
| Opacity | BAAQMD 6-301 | Y | | Ringelmann 1 for no more than 3 minutes in any hour (liquid fuel firing) | BAAQMD Condition 1694, Part A.2c | P/E (before 1 million gallons of liquid fuel combusted) | visual inspection |
| Opacity | BAAQMD Condition 1694, Part A.2b | Y | | No visible emissions | BAAQMD Condition 1694, Part A.2b | P/E | visual inspection |
| FP | BAAQMD 6-305 | Y | | Prohibition of nuisance | None | N | None |
| FP | BAAQMD 6-310.3 | Y | | 0.15 grain/dscf @ 6% O2 (gaseous fuel firing) | None | N | None |

# VII. Applicable Limits and Compliance Monitoring Requirements

## Table VII – A.2
## Applicable Limits and Compliance Monitoring Requirements
## S3 – UNIT 230, B-201 HEATER

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| FP | BAAQMD 6-310.3 | Y | | 0.15 grain/dscf @ 6% O2 (liquid fuel firing) | BAAQMD Condition 1694, Part A.2c | P/E (before 1 million gallons of liquid fuel combusted) | visual inspection |
| SO2 | BAAQMD Condition 1694, Part A.4 | Y | | 1,612 lb/day SO2 over any month from non-cogeneration sources | BAAQMD Condition 1694, Part A.3a | P/3 times per day | TRS analysis |
| H2S | 40 CFR 60.104(a)(1) | Y | | fuel gas H2S concentration limited to 230 mg/dscm (0.10 gr/dscf) | 40 CFR 60.105(a)(4) | C | H2S analyzer |
| Fuel Flow | | Y | | No limit | BAAQMD 9-10-502.2 | C | Fuel Flowmeter |

## Table VII – A.3
## Applicable Limits and Compliance Monitoring Requirements
## S4 – UNIT 231, B-101 HEATER

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| NOx | BAAQMD 9-10-301 | N | | Refinery-wide emissions: 0.033 lb NOx/ MMbtu | BAAQMD 9-10-502.1<br><br>BAAQMD Condition 21235, Part 7 | P/SA | source test |
| NOx | BAAQMD 9-10-303 | Y | | Federal emissions: Refinery-wide emissions: 0.20 lb NOx/MMbtu | None | N | None |

# VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – A.3**
**Applicable Limits and Compliance Monitoring Requirements**
**S4 – UNIT 231, B-101 HEATER**

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| Heat input | BAAQMD Condition 1694, Part A.1b | Y | | 2,304 MMbtu/day | BAAQMD Condition 1694, Part A.5 | P/D | records |
| Heat input | BAAQMD Condition 1694, Part F.2 | Y | | 346.5 MMbtu/hr averaged over any year at S2, S3, S4, S5, S7 | BAAQMD Condition 1694, Part F.3 | P/M | records |
| O2 | | N | | No limit | BAAQMD 9-10-502.1<br><br>BAAQMD Condition 21235, Part 2 | C | O2 Monitor |
| CO | BAAQMD 9-10-305 | N | | 400 ppmv (dry, 3% $O_2$) | BAAQMD 9-10-502.1<br><br>BAAQMD Condition 21235, Part 7 | P/SA | source test |
| Opacity | BAAQMD 6-301 | Y | | Ringelmann 1 for no more than 3 minutes in any hour | None for gaseous-fueled sources | N | None |
| FP | BAAQMD 6-305 | Y | | Prohibition of nuisance | None | N | None |
| FP | BAAQMD 6-310.3 | Y | | 0.15 grain/dscf @ 6% O2 | None for gaseous-fueled sources | N | None |
| SO2 | BAAQMD Condition 1694, Part A.4 | Y | | 1,612 lb/day SO2 over any month from non-cogeneration sources | BAAQMD Condition 1694, Part A.3a | P/3 times per day | TRS analysis |

# VII. Applicable Limits and Compliance Monitoring Requirements

## Table VII – A.3
## Applicable Limits and Compliance Monitoring Requirements
## S4 – UNIT 231, B-101 HEATER

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| H2S | 40 CFR 60.104(a)(1) | Y | | fuel gas H2S concentration limited to 230 mg/dscm (0.10 gr/dscf) | 40 CFR 60.105(a)(4) | C | H2S analyzer |
| Fuel Flow | | Y | | No limit | BAAQMD 9-10-502.2 | C | Fuel Flowmeter |

## Table VII – A.4
## Applicable Limits and Compliance Monitoring Requirements
## S5 – UNIT 231, B-102 HEATER

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| NOx | BAAQMD 9-10-301 | N | | Refinery-wide emissions: 0.033 lb NOx/ MMbtu | BAAQMD 9-10-502.1<br><br>BAAQMD Condition 21235, Part 7 | P/SA | source test |
| NOx | BAAQMD 9-10-303 | Y | | Federal emissions: Refinery-wide emissions: 0.20 lb NOx/MMbtu | None | N | None |
| Heat input | BAAQMD Condition 1694, Part A.1b | Y | | 2,496 MMbtu/day | BAAQMD Condition 1694, Part A.5 | P/D | records |
| Heat input | BAAQMD Condition 1694, Part F.2 | Y | | 346.5 MMbtu/hr averaged over any year at S2, S3, S4, S5, S7 | BAAQMD Condition 1694, Part F.3 | P/M | records |

# VII. Applicable Limits and Compliance Monitoring Requirements

## Table VII – A.4
## Applicable Limits and Compliance Monitoring Requirements
## S5 – UNIT 231, B-102 HEATER

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| O2 | | N | | No limit | BAAQMD 9-10-502.1<br><br>BAAQMD Condition 21235, Part 2 | C | O2 Monitor |
| CO | BAAQMD 9-10-305 | N | | 400 ppmv (dry, 3% $O_2$) | BAAQMD 9-10-502.1<br><br>BAAQMD Condition 21235, Part 7 | P/SA | source test |
| Opacity | BAAQMD 6-301 | Y | | Ringelmann 1 for no more than 3 minutes in any hour | None for gaseous-fueled sources | N | None |
| FP | BAAQMD 6-305 | Y | | Prohibition of nuisance | None | N | None |
| FP | BAAQMD 6-310.3 | Y | | 0.15 grain/dscf @ 6% O2 | None for gaseous-fueled sources | N | None |
| SO2 | BAAQMD Condition 1694, Part A.4 | Y | | 1,612 lb/day SO2 over any month from non-cogeneration sources | BAAQMD Condition 1694, Part A.3a | P/3 times per day | TRS analysis |
| H2S | 40 CFR 60.104(a)(1) | Y | | fuel gas H2S concentration limited to 230 mg/dscm (0.10 gr/dscf) | 40 CFR 60.105(a)(4) | C | H2S analyzer |
| Fuel Flow | | Y | | No limit | BAAQMD 9-10-502.2 | C | Fuel Flowmeter |

# VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – A.5**
**Applicable Limits and Compliance Monitoring Requirements**
**S7 – UNIT 231, B-103 HEATER**

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| NOx | BAAQMD 9-10-301 | N | | Refinery-wide emissions: 0.033 lb NOx/ MMbtu | BAAQMD 9-10-502.1<br><br>BAAQMD Condition 21235, Part 7 | P/SA | source test |
| NOx | BAAQMD 9-10-303 | Y | | Federal emissions: Refinery-wide emissions: 0.20 lb NOx/MMbtu | None | N | None |
| Heat input | BAAQMD Condition 1694, Part A.1a | Y | | 1,536 MMbtu/day | BAAQMD Condition 1694, Part A.5 | P/D | records |
| Heat input | BAAQMD Condition 1694, Part F.2 | Y | | 346.5 MMbtu/hr averaged over any year at S2, S3, S4, S5, S7 | BAAQMD Condition 1694, Part F.3 | P/M | records |
| O2 | | N | | No limit | BAAQMD 9-10-502.1<br><br>BAAQMD Condition 21235, Part 2 | C | O2 Monitor |
| CO | BAAQMD 9-10-305 | N | | 400 ppmv (dry, 3% $O_2$) | BAAQMD 9-10-502.1<br><br>BAAQMD Condition 21235, Part 7 | P/SA | source test |
| Opacity | BAAQMD 6-301 | Y | | Ringelmann 1 for no more than 3 minutes in any hour (gaseous fuel firing) | None | N | None |

# VII. Applicable Limits and Compliance Monitoring Requirements

## Table VII – A.5
## Applicable Limits and Compliance Monitoring Requirements
## S7 – UNIT 231, B-103 HEATER

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| Opacity | BAAQMD 6-301 | Y | | Ringelmann 1 for no more than 3 minutes in any hour (liquid fuel firing) | BAAQMD Condition 1694, Part A.2c | P/E (before 1 million gallons of liquid fuel combusted) | visual inspection |
| Opacity | BAAQMD Condition 1694, Part A.2b | Y | | No visible emissions | BAAQMD Condition 1694, Part A.2b | P/E | visual inspection |
| FP | BAAQMD 6-305 | Y | | Prohibition of nuisance | None | N | None |
| FP | BAAQMD 6-310.3 | Y | | 0.15 grain/dscf @ 6% O2 (gaseous fuel firing) | None | N | None |
| FP | BAAQMD 6-310.3 | Y | | 0.15 grain/dscf @ 6% O2 (liquid fuel firing) | BAAQMD Condition 1694, Part A.2c | P/E (before 1 million gallons of liquid fuel combusted) | visual inspection |
| SO2 | BAAQMD Condition 1694, Part A.4 | Y | | 1,612 lb/day SO2 over any month from non-cogeneration sources | BAAQMD Condition 1694, Part A.3a | P/3 times per day | TRS analysis |
| H2S | 40 CFR 60.104(a)(1) | Y | | fuel gas H2S concentration limited to 230 mg/dscm (0.10 gr/dscf) | 40 CFR 60.105(a)(4) | C | H2S analyzer |
| Fuel Flow | | Y | | No limit | BAAQMD 9-10-502.2 | C | Fuel Flowmeter |

# VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – A.6**
**Applicable Limits and Compliance Monitoring Requirements**
**S8 – UNIT 240, B-1 BOILER**

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| NOx | | Y | | CEM for NOx and O2 (or CO2) | BAAQMD 1-520.1 | C | CEM |
| NOx | BAAQMD 9-10-301 | N | | Refinery-wide emissions: 0.033 lb NOx/ MMbtu | BAAQMD 9-10-502.1 | C | CEM |
| NOx | BAAQMD 9-10-303 | Y | | Federal emissions: Refinery-wide emissions: 0.20 lb NOx/MMbtu | None | N | None |
| Heat input | BAAQMD Condition 1694, Part A.1b | Y | | 6,144 MMbtu/day | BAAQMD Condition 1694, Part A.5 | P/D | records |
| Heat input | BAAQMD Condition 1694, Part F.1 | Y | | 993.7 MMbtu/hr averaged over any year at S8, S9, S10, S11, S12, S13, S14 | BAAQMD Condition 1694, Part F.3 | P/M | records |
| O2 | | Y | | | BAAQMD 1-520.1 | C | O2 Monitor |
| O2 | | N | | No limit | BAAQMD 9-10-502.1<br><br>BAAQMD Condition 21235, Part 2 | C | O2 Monitor |
| CO | BAAQMD 9-10-305 | N | | 400 ppmv (dry, 3% $O_2$) | BAAQMD 9-10-502.1<br><br>BAAQMD Condition 21235, Part 8 | P/SA | source test |

# VII. Applicable Limits and Compliance Monitoring Requirements

## Table VII – A.6
## Applicable Limits and Compliance Monitoring Requirements
## S8 – UNIT 240, B-1 BOILER

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| Opacity | BAAQMD 6-304 | Y | | During tube cleaning, Ringelmann No. 2 for 3 min/hr and 6 min/billion btu in 24 hours; applies to sources rated over 140 MMbtu/hr (with tubes) | None for gaseous-fueled sources | N | None |
| Opacity | BAAQMD 6-301 | Y | | Ringelmann 1 for no more than 3 minutes in any hour | None for gaseous-fueled sources | N | None |
| FP | BAAQMD 6-305 | Y | | Prohibition of nuisance | None | N | None |
| FP | BAAQMD 6-310.3 | Y | | 0.15 grain/dscf @ 6% O2 | None for gaseous-fueled sources | N | None |
| SO2 | BAAQMD Condition 1694, Part A.4 | Y | | 1,612 lb/day SO2 over any month from non-cogeneration sources | BAAQMD Condition 1694, Part A.3a | P/3 times per day | TRS analysis |
| H2S | 40 CFR 60.104(a)(1) | Y | | fuel gas H2S concentration limited to 230 mg/dscm (0.10 gr/dscf) | 40 CFR 60.105(a)(4) | C | H2S analyzer |
| Fuel Flow | | Y | | No limit | BAAQMD 9-10-502.2 | C | Fuel Flowmeter |

# VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – A.7**
**Applicable Limits and Compliance Monitoring Requirements**
**S9 – UNIT 240, B-2 BOILER**

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| NOx | BAAQMD 9-10-301 | N | | Refinery-wide emissions: 0.033 lb NOx/ MMbtu | BAAQMD 9-10-502.1<br><br>BAAQMD Condition 21235, Part 7 | P/SA | source test |
| NOx | BAAQMD 9-10-303 | Y | | Federal emissions: Refinery-wide emissions: 0.20 lb NOx/MMbtu | None | N | None |
| Heat input | BAAQMD Condition 1694, Part A.1b | Y | | 1,464 MMbtu/day | BAAQMD Condition 1694, Part A.5 | P/D | records |
| Heat input | BAAQMD Condition 1694, Part F.1 | Y | | 993.7 MMbtu/hr averaged over any year at S8, S9, S10, S11, S12, S13, S14 | BAAQMD Condition 1694, Part F.3 | P/M | records |
| O2 | | N | | No limit | BAAQMD 9-10-502.1<br><br>BAAQMD Condition 21235, Part 2 | C | O2 Monitor |
| CO | BAAQMD 9-10-305 | N | | 400 ppmv (dry, 3% $O_2$) | BAAQMD 9-10-502.1<br><br>BAAQMD Condition 21235, Part 7 | P/SA | source test |
| Opacity | BAAQMD 6-301 | Y | | Ringelmann 1 for no more than 3 minutes in any hour | None for gaseous-fueled sources | N | None |

# VII. Applicable Limits and Compliance Monitoring Requirements

## Table VII – A.7
## Applicable Limits and Compliance Monitoring Requirements
## S9 – UNIT 240, B-2 BOILER

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| FP | BAAQMD 6-305 | Y | | Prohibition of nuisance | None | N | None |
| FP | BAAQMD 6-310.3 | Y | | 0.15 grain/dscf @ 6% O2 | None for gaseous-fueled sources | N | None |
| SO2 | BAAQMD Condition 1694, Part A.4 | Y | | 1,612 lb/day SO2 over any month from non-cogeneration sources | BAAQMD Condition 1694, Part A.3a | P/3 times per day | TRS analysis |
| H2S | 40 CFR 60.104(a)(1) | Y | | fuel gas H2S concentration limited to 230 mg/dscm (0.10 gr/dscf) | 40 CFR 60.105(a)(4) | C | H2S analyzer |
| Fuel Flow | | Y | | No limit | BAAQMD 9-10-502.2 | C | Fuel Flowmeter |

## Table VII – A.8
## Applicable Limits and Compliance Monitoring Requirements
## S10 – UNIT 240, B-101 HEATER

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| NOx | BAAQMD 9-10-301 | N | | Refinery-wide emissions: 0.033 lb NOx/ MMbtu | BAAQMD 9-10-502.1 | C | CEM |
| NOx | BAAQMD 9-10-303 | Y | | Federal emissions: Refinery-wide emissions: 0.20 lb NOx/MMbtu | None | N | None |
| Heat input | BAAQMD Condition 1694, Part A.1b | Y | | 5,352 MMbtu/day | BAAQMD Condition 1694, Part A.5 | P/D | records |

# VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – A.8**
**Applicable Limits and Compliance Monitoring Requirements**
**S10 – UNIT 240, B-101 HEATER**

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| Heat input | BAAQMD Condition 1694, Part F.1 | Y | | 993.7 MMbtu/hr averaged over any year at S8, S9, S10, S11, S12, S13, S14 | BAAQMD Condition 1694, Part F.3 | P/M | records |
| O2 | | N | | No limit | BAAQMD 9-10-502.1<br><br>BAAQMD Condition 21235, Part 2 | C | O2 Monitor |
| CO | BAAQMD 9-10-305 | N | | 400 ppmv (dry, 3% $O_2$) | BAAQMD 9-10-502.1<br><br>BAAQMD Condition 21235, Part 8 | P/SA | source test |
| Opacity | BAAQMD 6-304 | Y | | During tube cleaning, Ringelmann No. 2 for 3 min/hr and 6 min/billion btu in 24 hours; applies to sources rated over 140 MMbtu/hr (with tubes) | None for gaseous-fueled sources | N | None |
| Opacity | BAAQMD 6-301 | Y | | Ringelmann 1 for no more than 3 minutes in any hour | None for gaseous-fueled sources | N | None |
| FP | BAAQMD 6-305 | Y | | Prohibition of nuisance | None | N | None |
| FP | BAAQMD 6-310.3 | Y | | 0.15 grain/dscf @ 6% O2 | None for gaseous-fueled sources | N | None |

# VII. Applicable Limits and Compliance Monitoring Requirements

## Table VII – A.8
## Applicable Limits and Compliance Monitoring Requirements
## S10 – UNIT 240, B-101 HEATER

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| SO2 | BAAQMD Condition 1694, Part A.4 | Y | | 1,612 lb/day SO2 over any month from non-cogeneration sources | BAAQMD Condition 1694, Part A.3a | P/3 times per day | TRS analysis |
| H2S | 40 CFR 60.104(a)(1) | Y | | fuel gas H2S concentration limited to 230 mg/dscm (0.10 gr/dscf) | 40 CFR 60.105(a)(4) | C | H2S analyzer |
| Fuel Flow | | Y | | No limit | BAAQMD 9-10-502.2 | C | Fuel Flowmeter |

## Table VII – A.9
## Applicable Limits and Compliance Monitoring Requirements
## S11 – UNIT 240, B-201 HEATER

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| NOx | BAAQMD 9-10-301 | N | | Refinery-wide emissions: 0.033 lb NOx/ MMbtu | BAAQMD 9-10-502.1<br><br>BAAQMD Condition 21235, Part 7 | P/SA | source test |
| NOx | BAAQMD 9-10-303 | Y | | Federal emissions: Refinery-wide emissions: 0.20 lb NOx/MMbtu | None | N | None |
| Heat input | BAAQMD Condition 1694, Part A.1b | Y | | 2,592 MMbtu/day | BAAQMD Condition 1694, Part A.5 | P/D | records |
| Heat input | BAAQMD Condition 1694, Part F.1 | Y | | 993.7 MMbtu/hr averaged over any year at S8, S9, S10, S11, S12, S13, S14 | BAAQMD Condition 1694, Part F.3 | P/M | records |

# VII. Applicable Limits and Compliance Monitoring Requirements

## Table VII – A.9
## Applicable Limits and Compliance Monitoring Requirements
## S11 – UNIT 240, B-201 HEATER

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| O2 | | N | | No limit | BAAQMD 9-10-502.1<br><br>BAAQMD Condition 21235, Part 2 | C | O2 Monitor |
| CO | BAAQMD 9-10-305 | N | | 400 ppmv (dry, 3% $O_2$) | BAAQMD 9-10-502.1<br><br>BAAQMD Condition 21235, Part 7 | P/SA | source test |
| Opacity | BAAQMD 6-301 | Y | | Ringelmann 1 for no more than 3 minutes in any hour | None for gaseous-fueled sources | N | None |
| FP | BAAQMD 6-305 | Y | | Prohibition of nuisance | None | N | None |
| FP | BAAQMD 6-310.3 | Y | | 0.15 grain/dscf @ 6% O2 | None for gaseous-fueled sources | N | None |
| SO2 | BAAQMD Condition 1694, Part A.4 | Y | | 1,612 lb/day SO2 over any month from non-cogeneration sources | BAAQMD Condition 1694, Part A.3a | P/3 times per day | TRS analysis |
| H2S | 40 CFR 60.104(a)(1) | Y | | fuel gas H2S concentration limited to 230 mg/dscm (0.10 gr/dscf) | 40 CFR 60.105(a)(4) | C | H2S analyzer |
| Fuel Flow | | Y | | No limit | BAAQMD 9-10-502.2 | C | Fuel Flowmeter |

# VII. Applicable Limits and Compliance Monitoring Requirements

## Table VII – A.10
## Applicable Limits and Compliance Monitoring Requirements
## S12 – UNIT 240, B-202 HEATER

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| NOx | BAAQMD 9-10-301 | N | | Refinery-wide emissions: 0.033 lb NOx/ MMbtu | BAAQMD 9-10-502.1<br><br>BAAQMD Condition 21235, Part 7 | P/SA | source test |
| NOx | BAAQMD 9-10-303 | Y | | Federal emissions: Refinery-wide emissions: 0.20 lb NOx/MMbtu | None | N | None |
| Heat input | BAAQMD Condition 1694, Part A.1b | Y | | 1,008 MMbtu/day | BAAQMD Condition 1694, Part A.5 | P/D | records |
| Heat input | BAAQMD Condition 1694, Part F.1 | Y | | 993.7 MMbtu/hr averaged over any year at S8, S9, S10, S11, S12, S13, S14 | BAAQMD Condition 1694, Part F.3 | P/M | records |
| O2 | | N | | No limit | BAAQMD 9-10-502.1<br><br>BAAQMD Condition 21235, Part 2 | C | O2 Monitor |
| CO | BAAQMD 9-10-305 | N | | 400 ppmv (dry, 3% $O_2$) | BAAQMD 9-10-502.1<br><br>BAAQMD Condition 21235, Part 7 | P/SA | source test |
| Opacity | BAAQMD 6-301 | Y | | Ringelmann 1 for no more than 3 minutes in any hour | None for gaseous-fueled sources | N | None |

# VII. Applicable Limits and Compliance Monitoring Requirements

## Table VII – A.10
## Applicable Limits and Compliance Monitoring Requirements
## S12 – UNIT 240, B-202 HEATER

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| FP | BAAQMD 6-305 | Y | | Prohibition of nuisance | None | N | None |
| FP | BAAQMD 6-310.3 | Y | | 0.15 grain/dscf @ 6% O2 | None for gaseous-fueled sources | N | None |
| SO2 | BAAQMD Condition 1694, Part A.4 | Y | | 1,612 lb/day SO2 over any month from non-cogeneration sources | BAAQMD Condition 1694, Part A.3a | P/3 times per day | TRS analysis |
| H2S | 40 CFR 60.104(a)(1) | Y | | fuel gas H2S concentration limited to 230 mg/dscm (0.10 gr/dscf) | 40 CFR 60.105(a)(4) | C | H2S analyzer |
| Fuel Flow | | Y | | No limit | BAAQMD 9-10-502.2 | C | Fuel Flowmeter |

## Table VII – A.11
## Applicable Limits and Compliance Monitoring Requirements
## S13 – UNIT 240, B-301 HEATER

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| NOx | BAAQMD 9-10-301 | N | | Refinery-wide emissions: 0.033 lb NOx/MMbtu | BAAQMD 9-10-502.1 | C | CEM |
| NOx | BAAQMD 9-10-303 | Y | | Federal emissions: Refinery-wide emissions: 0.20 lb NOx/MMbtu | None | N | None |
| Heat input | BAAQMD Condition 1694, Part A.1b | Y | | 4,656 MMbtu/day | BAAQMD Condition 1694, Part A.5 | P/D | records |

# VII. Applicable Limits and Compliance Monitoring Requirements

## Table VII – A.11
## Applicable Limits and Compliance Monitoring Requirements
## S13 – UNIT 240, B-301 HEATER

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| Heat input | BAAQMD Condition 1694, Part F.1 | Y | | 993.7 MMbtu/hr averaged over any year at S8, S9, S10, S11, S12, S13, S14 | BAAQMD Condition 1694, Part F.3 | P/M | records |
| O2 | | N | | No limit | BAAQMD 9-10-502.1<br><br>BAAQMD Condition 21235, Part 2 | C | O2 Monitor |
| CO | BAAQMD 9-10-305 | N | | 400 ppmv (dry, 3% $O_2$) | BAAQMD 9-10-502.1<br><br>BAAQMD Condition 21235, Part 8 | P/SA | source test |
| Opacity | BAAQMD 6-304 | Y | | During tube cleaning, Ringelmann No. 2 for 3 min/hr and 6 min/billion btu in 24 hours; applies to sources rated over 140 MMbtu/hr (with tubes) | None for gaseous-fueled sources | N | None |
| FP | BAAQMD 6-305 | Y | | Prohibition of nuisance | None | N | None |
| Opacity | BAAQMD 6-301 | Y | | Ringelmann 1 for no more than 3 minutes in any hour | None for gaseous-fueled sources | N | None |
| FP | BAAQMD 6-310.3 | Y | | 0.15 grain/dscf @ 6% O2 | None for gaseous-fueled sources | N | None |

# VII. Applicable Limits and Compliance Monitoring Requirements

## Table VII – A.11
## Applicable Limits and Compliance Monitoring Requirements
## S13 – UNIT 240, B-301 HEATER

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| SO2 | BAAQMD Condition 1694, Part A.4 | Y | | 1,612 lb/day SO2 over any month from non-cogeneration sources | BAAQMD Condition 1694, Part A.3a | P/3 times per day | TRS analysis |
| H2S | 40 CFR 60.104(a)(1) | Y | | fuel gas H2S concentration limited to 230 mg/dscm (0.10 gr/dscf) | 40 CFR 60.105(a)(4) | C | H2S analyzer |
| Fuel Flow | | Y | | No limit | BAAQMD 9-10-502.2 | C | Fuel Flowmeter |

## Table VII – A.12
## Applicable Limits and Compliance Monitoring Requirements
## S14 – UNIT 240, B-401 HEATER

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| NOx | BAAQMD 9-10-301 | N | | Refinery-wide emissions: 0.033 lb NOx/ MMbtu | BAAQMD 9-10-502.1 | C | CEM |
| NOx | BAAQMD 9-10-303 | Y | | Federal emissions: Refinery-wide emissions: 0.20 lb NOx/MMbtu | None | N | None |
| Heat input | BAAQMD Condition 1694, Part A.1b | Y | | 13,344 MMbtu/day | BAAQMD Condition 1694, Part A.5 | P/D | records |
| Heat input | BAAQMD Condition 1694, Part F.1 | Y | | 993.7 MMbtu/hr averaged over any year at S8, S9, S10, S11, S12, S13, S14 | BAAQMD Condition 1694, Part F.3 | P/M | records |

# VII. Applicable Limits and Compliance Monitoring Requirements

## Table VII – A.12
## Applicable Limits and Compliance Monitoring Requirements
## S14 – UNIT 240, B-401 HEATER

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| O2 | | N | | No limit | BAAQMD 9-10-502.1<br><br>BAAQMD Condition 21235, Part 2 | C | O2 Monitor |
| CO | BAAQMD 9-10-305 | N | | 400 ppmv (dry, 3% $O_2$) | BAAQMD 9-10-502.1<br><br>BAAQMD Condition 21235, Part 8 | P/SA | source test |
| Opacity | BAAQMD 6-304 | Y | | During tube cleaning, Ringelmann No. 2 for 3 min/hr and 6 min/billion btu in 24 hours; applies to sources rated over 140 MMbtu/hr (with tubes) | None for gaseous-fueled sources | N | None |
| FP | BAAQMD 6-305 | Y | | Prohibition of nuisance | None | N | None |
| Opacity | BAAQMD 6-301 | Y | | Ringelmann 1 for no more than 3 minutes in any hour | None for gaseous-fueled sources | N | None |
| FP | BAAQMD 6-310.3 | Y | | 0.15 grain/dscf @ 6% O2 | None for gaseous-fueled sources | N | None |
| SO2 | BAAQMD Condition 1694, Part A.4 | Y | | 1,612 lb/day SO2 over any month from non-cogeneration sources | BAAQMD Condition 1694, Part A.3a | P/3 times per day | TRS analysis |

# VII. Applicable Limits and Compliance Monitoring Requirements

## Table VII – A.12
## Applicable Limits and Compliance Monitoring Requirements
## S14 – UNIT 240, B-401 HEATER

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| H2S | 40 CFR 60.104(a)(1) | Y | | fuel gas H2S concentration limited to 230 mg/dscm (0.10 gr/dscf) | 40 CFR 60.105(a)(4) | C | H2S analyzer |
| Fuel Flow | | Y | | No limit | BAAQMD 9-10-502.2 | C | Fuel Flowmeter |

## Table VII – A.13
## Applicable Limits and Compliance Monitoring Requirements
## S15 – UNIT 244, B-501 HEATER

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| NOx | BAAQMD 9-10-301 | N | | Refinery-wide emissions: 0.033 lb NOx/ MMbtu | BAAQMD 9-10-502.1 | C | CEM |
| NOx | BAAQMD 9-10-303 | Y | | Federal emissions: Refinery-wide emissions: 0.20 lb NOx/MMbtu | None | N | None |
| Heat input | BAAQMD Condition 1694, Part A.1b | Y | | 5,754 MMbtu/day averaged over any day at S15, S16, S17, S18, S19 | BAAQMD Condition 1694, Part A.5 | P/D | records |
| O2 | | N | | No limit | BAAQMD 9-10-502.1<br><br>BAAQMD Condition 21235, Part 2 | C | O2 Monitor |
| CO | BAAQMD 9-10-305 | N | | 400 ppmv (dry, 3% $O_2$) | BAAQMD 9-10-502.1<br><br>BAAQMD Condition 21235, Part 8 | P/SA | source test |

# VII. Applicable Limits and Compliance Monitoring Requirements

## Table VII – A.13
## Applicable Limits and Compliance Monitoring Requirements
## S15 – UNIT 244, B-501 HEATER

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| Opacity | BAAQMD 6-301 | Y | | Ringelmann 1 for no more than 3 minutes in any hour | None for gaseous-fueled sources | N | None |
| FP | BAAQMD 6-305 | Y | | Prohibition of nuisance | None | N | None |
| FP | BAAQMD 6-310.3 | Y | | 0.15 grain/dscf @ 6% O2 | None for gaseous-fueled sources | N | None |
| SO2 | BAAQMD Condition 1694, Part A.4 | Y | | 1,612 lb/day SO2 over any month from non-cogeneration sources | BAAQMD Condition 1694, Part A.3a | P/3 times per day | TRS analysis |
| H2S | 40 CFR 60.104(a)(1) | Y | | fuel gas H2S concentration limited to 230 mg/dscm (0.10 gr/dscf) | 40 CFR 60.105(a)(4) | C | H2S analyzer |
| Fuel Flow | | Y | | No limit | BAAQMD 9-10-502.2 | C | Fuel Flowmeter |
| throughput | BAAQMD Condition 20989, Part A | Y | | 19.9 E 6 therm/yr (total) at S15, S16, S17, S18, S19 | BAAQMD Condition 20989, Part A | P/M | records |

# VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – A.14**
**Applicable Limits and Compliance Monitoring Requirements**
**S16 – UNIT 244, B-502 HEATER**

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| NOx | BAAQMD 9-10-301 | N | | Refinery-wide emissions: 0.033 lb NOx/ MMbtu | BAAQMD 9-10-502.1 | C | CEM |
| NOx | BAAQMD 9-10-303 | Y | | Federal emissions: Refinery-wide emissions: 0.20 lb NOx/MMbtu | None | N | None |
| Heat input | BAAQMD Condition 1694, Part A.1b | Y | | 5,754 MMbtu/day averaged over any day at S15, S16, S17, S18, S19 | BAAQMD Condition 1694, Part A.5 | P/D | records |
| O2 | | N | | No limit | BAAQMD 9-10-502.1<br><br>BAAQMD Condition 21235, Part 2 | C | O2 Monitor |
| CO | BAAQMD 9-10-305 | N | | 400 ppmv (dry, 3% $O_2$) | BAAQMD 9-10-502.1<br><br>BAAQMD Condition 21235, Part 8 | P/SA | source test |
| Opacity | BAAQMD 6-301 | Y | | Ringelmann 1 for no more than 3 minutes in any hour | None for gaseous-fueled sources | N | None |
| FP | BAAQMD 6-305 | Y | | Prohibition of nuisance | None | N | None |
| FP | BAAQMD 6-310.3 | Y | | 0.15 grain/dscf @ 6% O2 | None for gaseous-fueled sources | N | None |

# VII. Applicable Limits and Compliance Monitoring Requirements

## Table VII – A.14
## Applicable Limits and Compliance Monitoring Requirements
## S16 – UNIT 244, B-502 HEATER

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| SO2 | BAAQMD Condition 1694, Part A.4 | Y | | 1,612 lb/day SO2 over any month from non-cogeneration sources | BAAQMD Condition 1694, Part A.3a | P/3 times per day | TRS analysis |
| H2S | 40 CFR 60.104(a)(1) | Y | | fuel gas H2S concentration limited to 230 mg/dscm (0.10 gr/dscf) | 40 CFR 60.105(a)(4) | C | H2S analyzer |
| Fuel Flow | | Y | | No limit | BAAQMD 9-10-502.2 | C | Fuel Flowmeter |
| throughput | BAAQMD Condition 20989, Part A | Y | | 19.9 E 6 therm/yr (total) at S15, S16, S17, S18, S19 | BAAQMD Condition 20989, Part A | P/M | records |

## Table VII – A.15
## Applicable Limits and Compliance Monitoring Requirements
## S17 – UNIT 244, B-503 HEATER

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| NOx | BAAQMD 9-10-301 | N | | Refinery-wide emissions: 0.033 lb NOx/ MMbtu | BAAQMD 9-10-502.1 | C | CEM |
| NOx | BAAQMD 9-10-303 | Y | | Federal emissions: Refinery-wide emissions: 0.20 lb NOx/MMbtu | None | N | None |
| Heat input | BAAQMD Condition 1694, Part A.1b | Y | | 5,754 MMbtu/day averaged over any day at S15, S16, S17, S18, S19 | BAAQMD Condition 1694, Part A.5 | P/D | records |

# VII. Applicable Limits and Compliance Monitoring Requirements

## Table VII – A.15
## Applicable Limits and Compliance Monitoring Requirements
## S17 – UNIT 244, B-503 HEATER

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| O2 | | N | | No limit | BAAQMD 9-10-502.1<br><br>BAAQMD Condition 21235, Part 2 | C | O2 Monitor |
| CO | BAAQMD 9-10-305 | N | | 400 ppmv (dry, 3% $O_2$) | BAAQMD 9-10-502.1<br><br>BAAQMD Condition 21235, Part 8 | P/SA | source test |
| Opacity | BAAQMD 6-301 | Y | | Ringelmann 1 for no more than 3 minutes in any hour | None for gaseous-fueled sources | N | None |
| FP | BAAQMD 6-305 | Y | | Prohibition of nuisance | None | N | None |
| FP | BAAQMD 6-310.3 | Y | | 0.15 grain/dscf @ 6% O2 | None for gaseous-fueled sources | N | None |
| SO2 | BAAQMD Condition 1694, Part A.4 | Y | | 1,612 lb/day SO2 over any month from non-cogeneration sources | BAAQMD Condition 1694, Part A.3a | P/3 times per day | TRS analysis |
| H2S | 40 CFR 60.104(a)(1) | Y | | fuel gas H2S concentration limited to 230 mg/dscm (0.10 gr/dscf) | 40 CFR 60.105(a)(4) | C | H2S analyzer |
| Fuel Flow | | Y | | No limit | BAAQMD 9-10-502.2 | C | Fuel Flowmeter |

# VII. Applicable Limits and Compliance Monitoring Requirements

## Table VII – A.15
## Applicable Limits and Compliance Monitoring Requirements
## S17 – UNIT 244, B-503 HEATER

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| throughput | BAAQMD Condition 20989, Part A | Y | | 19.9 E 6 therm/yr (total) at S15, S16, S17, S18, S19 | BAAQMD Condition 20989, Part A | P/M | records |

## Table VII – A.16
## Applicable Limits and Compliance Monitoring Requirements
## S18 – UNIT 244, B-504 HEATER

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| NOx | BAAQMD 9-10-301 | N | | Refinery-wide emissions: 0.033 lb NOx/ MMbtu | BAAQMD 9-10-502.1 | C | CEM |
| NOx | BAAQMD 9-10-303 | Y | | Federal emissions: Refinery-wide emissions: 0.20 lb NOx/MMbtu | None | N | None |
| Heat input | BAAQMD Condition 1694, Part A.1b | Y | | 5,754 MMbtu/day averaged over any day at S15, S16, S17, S18, S19 | BAAQMD Condition 1694, Part A.5 | P/D | records |
| O2 | | N | | No limit | BAAQMD 9-10-502.1<br><br>BAAQMD Condition 21235, Part 2 | C | O2 Monitor |
| CO | BAAQMD 9-10-305 | N | | 400 ppmv (dry, 3% $O_2$) | BAAQMD 9-10-502.1<br><br>BAAQMD Condition 21235, Part 8 | P/SA | source test |

# VII. Applicable Limits and Compliance Monitoring Requirements

## Table VII – A.16
## Applicable Limits and Compliance Monitoring Requirements
## S18 – UNIT 244, B-504 HEATER

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| Opacity | BAAQMD 6-301 | Y | | Ringelmann 1 for no more than 3 minutes in any hour | None for gaseous-fueled sources | N | None |
| FP | BAAQMD 6-305 | Y | | Prohibition of nuisance | None | N | None |
| FP | BAAQMD 6-310.3 | Y | | 0.15 grain/dscf @ 6% O2 | None for gaseous-fueled sources | N | None |
| SO2 | BAAQMD Condition 1694, Part A.4 | Y | | 1,612 lb/day SO2 over any month from non-cogeneration sources | BAAQMD Condition 1694, Part A.3a | P/3 times per day | TRS analysis |
| H2S | 40 CFR 60.104(a)(1) | Y | | fuel gas H2S concentration limited to 230 mg/dscm (0.10 gr/dscf) | 40 CFR 60.105(a)(4) | C | H2S analyzer |
| Fuel Flow | | Y | | No limit | BAAQMD 9-10-502.2 | C | Fuel Flowmeter |
| throughput | BAAQMD Condition 20989, Part A | Y | | 19.9 E 6 therm/yr (total) at S15, S16, S17, S18, S19 | BAAQMD Condition 20989, Part A | P/M | records |

# VII. Applicable Limits and Compliance Monitoring Requirements

## Table VII – A.17
## Applicable Limits and Compliance Monitoring Requirements
## S19 – UNIT 244, B-505 HEATER

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| NOx | BAAQMD 9-10-301 | N | | Refinery-wide emissions: 0.033 lb NOx/ MMbtu | BAAQMD 9-10-502.1 | C | CEM |
| NOx | BAAQMD 9-10-303 | Y | | Federal emissions: Refinery-wide emissions: 0.20 lb NOx/MMbtu | None | N | None |
| Heat input | BAAQMD Condition 1694, Part A.1b | Y | | 5,754 MMbtu/day averaged over any day at S15, S16, S17, S18, S19 | BAAQMD Condition 1694, Part A.5 | P/D | records |
| O2 | | N | | No limit | BAAQMD 9-10-502.1<br><br>BAAQMD Condition 21235, Part 2 | C | O2 Monitor |
| CO | BAAQMD 9-10-305 | N | | 400 ppmv (dry, 3% $O_2$) | BAAQMD 9-10-502.1<br><br>BAAQMD Condition 21235, Part 8 | P/SA | source test |
| Opacity | BAAQMD 6-301 | Y | | Ringelmann 1 for no more than 3 minutes in any hour | None for gaseous-fueled sources | N | None |
| FP | BAAQMD 6-305 | Y | | Prohibition of nuisance | None | N | None |
| FP | BAAQMD 6-310.3 | Y | | 0.15 grain/dscf @ 6% O2 | None for gaseous-fueled sources | N | None |

# VII. Applicable Limits and Compliance Monitoring Requirements

## Table VII – A.17
## Applicable Limits and Compliance Monitoring Requirements
## S19 – UNIT 244, B-505 HEATER

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| SO2 | BAAQMD Condition 1694, Part A.4 | Y | | 1,612 lb/day SO2 over any month from non-cogeneration sources | BAAQMD Condition 1694, Part A.3a | P/3 times per day | TRS analysis |
| H2S | 40 CFR 60.104(a)(1) | Y | | fuel gas H2S concentration limited to 230 mg/dscm (0.10 gr/dscf) | 40 CFR 60.105(a)(4) | C | H2S analyzer |
| Fuel Flow | | Y | | No limit | BAAQMD 9-10-502.2 | C | Fuel Flowmeter |
| throughput | BAAQMD Condition 20989, Part A | Y | | 19.9 E 6 therm/yr (total) at S15, S16, S17, S18, S19 | BAAQMD Condition 20989, Part A | P/M | records |

## Table VII – A.18
## Applicable Limits and Compliance Monitoring Requirements
## S20 – UNIT 244, B-506 HEATER

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| NOx | BAAQMD 9-10-301 | N | | Refinery-wide emissions: 0.033 lb NOx/ MMbtu | BAAQMD 9-10-502.1<br><br>BAAQMD Condition 21235, Part 7 | P/A | source test |
| NOx | BAAQMD 9-10-303 | Y | | Federal emissions: Refinery-wide emissions: 0.20 lb NOx/MMbtu | None | N | None |
| Heat input | BAAQMD Condition 1694, Part A.1b | Y | | 552 MMbtu/day | BAAQMD Condition 1694, Part A.5 | P/D | records |

# VII. Applicable Limits and Compliance Monitoring Requirements

## Table VII – A.18
## Applicable Limits and Compliance Monitoring Requirements
## S20 – UNIT 244, B-506 HEATER

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| O2 | | N | | No limit | BAAQMD 9-10-502.1<br><br>BAAQMD Condition 21235, Part 2 | C | O2 Monitor |
| CO | BAAQMD 9-10-305 | N | | 400 ppmv (dry, 3% $O_2$) | BAAQMD 9-10-502.1<br><br>BAAQMD Condition 21235, Part 7 | P/A | source test |
| Opacity | BAAQMD 6-301 | Y | | Ringelmann 1 for no more than 3 minutes in any hour | None for gaseous-fueled sources | N | None |
| FP | BAAQMD 6-305 | Y | | Prohibition of nuisance | None | N | None |
| FP | BAAQMD 6-310.3 | Y | | 0.15 grain/dscf @ 6% O2 | None for gaseous-fueled sources | N | None |
| SO2 | BAAQMD Condition 1694, Part A.4 | Y | | 1,612 lb/day SO2 over any month from non-cogeneration sources | BAAQMD Condition 1694, Part A.3a | P/3 times per day | TRS analysis |
| H2S | 40 CFR 60.104(a)(1) | Y | | fuel gas H2S concentration limited to 230 mg/dscm (0.10 gr/dscf) | 40 CFR 60.105(a)(4) | C | H2S analyzer |
| Fuel Flow | | Y | | No limit | BAAQMD 9-10-502.2 | C | Fuel Flowmeter |

# VII. Applicable Limits and Compliance Monitoring Requirements

## Table VII – A.18
## Applicable Limits and Compliance Monitoring Requirements
## S20 – UNIT 244, B-506 HEATER

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| throughput | BAAQMD Condition 20989, Part A | Y | | 1.9 E 6 therm/yr | BAAQMD Condition 20989, Part A | P/M | records |

## Table VII – A.19
## Applicable Limits and Compliance Monitoring Requirements
## S21 – UNIT 244, B-507 HEATER

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| Heat input | BAAQMD Condition 1694, Part A.1a | Y | | 194.4 MMbtu/day | BAAQMD Condition 1694, Part A.5 | P/D | records |
| Opacity | BAAQMD 6-301 | Y | | Ringelmann 1 for no more than 3 minutes in any hour | None for gaseous-fueled sources | N | None |
| FP | BAAQMD 6-305 | Y | | Prohibition of Nuisance | None for gaseous-fueled sources | N | None |
| FP | BAAQMD 6-310.3 | Y | | 0.15 grain/dscf @ 6% O2 | None for gaseous-fueled sources | N | None |
| SO2 | BAAQMD Condition 1694, Part A.4 | Y | | 1,612 lb/day SO2 over any month from non-cogeneration sources | BAAQMD Condition 1694, Part A.3a | P/3 times per day | TRS analysis |

# VII. Applicable Limits and Compliance Monitoring Requirements

## Table VII – A.19
## Applicable Limits and Compliance Monitoring Requirements
## S21 – UNIT 244, B-507 HEATER

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| H2S | 40 CFR 60.104(a)(1) | Y | | fuel gas H2S concentration limited to 230 mg/dscm (0.10 gr/dscf) | 40 CFR 60.105(a)(4) | C | H2S analyzer |
| throughput | BAAQMD Condition 20989, Part A | Y | | 0.7 E 6 therm/yr | BAAQMD Condition 20989, Part A | P/M | records |

## Table VII – A.20
## Applicable Limits and Compliance Monitoring Requirements
## S22 – UNIT 248, B-606 HEATER

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| NOx | BAAQMD 9-10-301 | N | | Refinery-wide emissions: 0.033 lb NOx/ MMbtu | BAAQMD 9-10-502.1<br><br>BAAQMD Condition 21235, Part 7 | P/SA | source test |
| NOx | BAAQMD 9-10-303 | Y | | Federal emissions: Refinery-wide emissions: 0.20 lb NOx/MMbtu | None | N | None |
| Heat input | BAAQMD Condition 1694, Part A.1b | Y | | 744 MMbtu/day | BAAQMD Condition 1694, Part A.5 | P/D | records |
| O2 | | N | | No limit | BAAQMD 9-10-502.1<br><br>BAAQMD Condition 21235, Part 2 | C | O2 Monitor |

# VII. Applicable Limits and Compliance Monitoring Requirements

## Table VII – A.20
## Applicable Limits and Compliance Monitoring Requirements
## S22 – UNIT 248, B-606 HEATER

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| CO | BAAQMD 9-10-305 | N | | 400 ppmv (dry, 3% $O_2$) | BAAQMD 9-10-502.1<br><br>BAAQMD Condition 21235, Part 7 | P/SA | source test |
| Opacity | BAAQMD 6-301 | Y | | Ringelmann 1 for no more than 3 minutes in any hour | None for gaseous-fueled sources | N | None |
| FP | BAAQMD 6-305 | Y | | Prohibition of nuisance | None | N | None |
| FP | BAAQMD 6-310.3 | Y | | 0.15 grain/dscf @ 6% O2 | None for gaseous-fueled sources | N | None |
| SO2 | BAAQMD Condition 1694, Part A.4 | Y | | 1,612 lb/day SO2 over any month from non-cogeneration sources | BAAQMD Condition 1694, Part A.3a | P/3 times per day | TRS analysis |
| H2S | 40 CFR 60.104(a)(1) | Y | | fuel gas H2S concentration limited to 230 mg/dscm (0.10 gr/dscf) | 40 CFR 60.105(a)(4) | C | H2S analyzer |
| Fuel Flow | | Y | | No limit | BAAQMD 9-10-502.2 | C | Fuel Flowmeter |
| throughput | BAAQMD Condition 20989, Part A | Y | | 2.6 E 6 therm/yr | BAAQMD Condition 20989, Part A | P/M | records |

# VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – A.21**
**Applicable Limits and Compliance Monitoring Requirements**
**S29 – UNIT 200, B-5 HEATER**

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| NOx | BAAQMD 9-10-301 | N | | Refinery-wide emissions: 0.033 lb NOx/ MMbtu | BAAQMD 9-10-502.1<br><br>BAAQMD Condition 21235, Part 7 | P/SA | source test |
| NOx | BAAQMD 9-10-303 | Y | | Federal emissions: Refinery-wide emissions: 0.20 lb NOx/MMbtu | None | N | None |
| Heat input | BAAQMD Condition 1694, Part A.1b | Y | | 2,472 MMbtu/hr | BAAQMD Condition 1694, Part A.5 | P/D | records |
| O2 | | N | | No limit | BAAQMD 9-10-502.1<br><br>BAAQMD Condition 21235, Part 7 | C | O2 Monitor |
| CO | BAAQMD 9-10-305 | N | | 400 ppmv (dry, 3% $O_2$) | BAAQMD 9-10-502.1<br><br>BAAQMD Condition 21235, Part 7 | P/SA | source test |
| Opacity | BAAQMD 6-301 | Y | | Ringelmann 1 for no more than 3 minutes in any hour | None for gaseous-fueled sources | N | None |
| FP | BAAQMD 6-305 | Y | | Prohibition of nuisance | None | N | None |

# VII. Applicable Limits and Compliance Monitoring Requirements

## Table VII – A.21
## Applicable Limits and Compliance Monitoring Requirements
## S29 – UNIT 200, B-5 HEATER

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| FP | BAAQMD 6-310.3 | Y | | 0.15 grain/dscf @ 6% O2 | None for gaseous-fueled sources | N | None |
| SO2 | BAAQMD Condition 1694, Part A.4 | Y | | 1,612 lb/day SO2 over any month from non-cogeneration sources | BAAQMD Condition 1694, Part A.3a | P/3 times per day | TRS analysis |
| H2S | 40 CFR 60.104(a)(1) | Y | | fuel gas H2S concentration limited to 230 mg/dscm (0.10 gr/dscf) | 40 CFR 60.105(a)(4) | C | H2S analyzer |
| Fuel Flow | | Y | | No limit | BAAQMD 9-10-502.2 | C | Fuel Flowmeter |
| throughput | BAAQMD Condition 20989, Part A | Y | | 8.6 E 6 therm/yr | BAAQMD Condition 20989, Part A | P/M | records |

# VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – A.22**
**Applicable Limits and Compliance Monitoring Requirements**
**S30 – UNIT 200, B-101 HEATER**

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| NOx | BAAQMD 9-10-301 | N | | Refinery-wide emissions: 0.033 lb NOx/ MMbtu | BAAQMD 9-10-502.1<br><br>BAAQMD Condition 21235, Part 7 | P/SA | source test |
| NOx | BAAQMD 9-10-303 | Y | | Federal emissions: Refinery-wide emissions: 0.20 lb NOx/MMbtu | None | N | None |
| Heat input | BAAQMD Condition 1694, Part A.1b | Y | | 1,200 MMbtu/hr | BAAQMD Condition 1694, Part A.5 | P/D | records |
| O2 | | N | | No limit | BAAQMD 9-10-502.1<br><br>BAAQMD Condition 21235, Part 7 | C | O2 Monitor |
| CO | BAAQMD 9-10-305 | N | | 400 ppmv (dry, 3% $O_2$) | BAAQMD 9-10-502.1<br><br>BAAQMD Condition 21235, Part 7 | P/SA | source test |
| Opacity | BAAQMD 6-301 | Y | | Ringelmann 1 for no more than 3 minutes in any hour | None for gaseous-fueled sources | N | None |
| FP | BAAQMD 6-305 | Y | | Prohibition of nuisance | None | N | None |

# VII. Applicable Limits and Compliance Monitoring Requirements

## Table VII – A.22
## Applicable Limits and Compliance Monitoring Requirements
## S30 – UNIT 200, B-101 HEATER

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| FP | BAAQMD 6-310.3 | Y | | 0.15 grain/dscf @ 6% O2 | None for gaseous-fueled sources | N | None |
| SO2 | BAAQMD Condition 1694, Part A.4 | Y | | 1,612 lb/day SO2 over any month from non-cogeneration sources | BAAQMD Condition 1694, Part A.3a | P/3 times per day | TRS analysis |
| H2S | 40 CFR 60.104(a)(1) | Y | | fuel gas H2S concentration limited to 230 mg/dscm (0.10 gr/dscf) | 40 CFR 60.105(a)(4) | C | H2S analyzer |
| Fuel Flow | | Y | | No limit | BAAQMD 9-10-502.2 | C | Fuel Flowmeter |
| throughput | BAAQMD Condition 20989, Part A | Y | | 4.2 E 6 therm/yr | BAAQMD Condition 20989, Part A | P/M | records |

## Table VII – A.23
## Applicable Limits and Compliance Monitoring Requirements
## S31 – UNIT 200, B-501 HEATER

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| NOx | BAAQMD 9-10-301 | N | | Refinery-wide emissions: 0.033 lb NOx/ MMbtu | BAAQMD 9-10-502.1<br><br>BAAQMD Condition 21235, Part 7 | P/A | source test |
| NOx | BAAQMD 9-10-303 | Y | | Federal emissions: Refinery-wide emissions: 0.20 lb NOx/MMbtu | None | N | None |

# VII. Applicable Limits and Compliance Monitoring Requirements

## Table VII – A.23
## Applicable Limits and Compliance Monitoring Requirements
## S31 – UNIT 200, B-501 HEATER

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| Heat input | BAAQMD Condition 1694, Part A.1b | Y | | 480 MMbtu/day | BAAQMD Condition 1694, Part A.5 | P/D | records |
| O2 | | N | | No limit | BAAQMD 9-10-502.1<br><br>BAAQMD Condition 21235, Part 2 | C | O2 Monitor |
| CO | BAAQMD 9-10-305 | N | | 400 ppmv (dry, 3% $O_2$) | BAAQMD 9-10-502.1<br><br>BAAQMD Condition 21235, Part 7 | P/A | source test |
| Opacity | BAAQMD 6-301 | Y | | Ringelmann 1 for no more than 3 minutes in any hour | None for gaseous-fueled sources | N | None |
| FP | BAAQMD 6-305 | Y | | Prohibition of nuisance | None | N | None |
| FP | BAAQMD 6-310.3 | Y | | 0.15 grain/dscf @ 6% O2 | None for gaseous-fueled sources | N | None |
| SO2 | BAAQMD Condition 1694, Part A.4 | Y | | 1,612 lb/day SO2 over any month from non-cogeneration sources | BAAQMD Condition 1694, Part A.3a | P/3 times per day | TRS analysis |
| H2S | 40 CFR 60.104(a)(1) | Y | | fuel gas H2S concentration limited to 230 mg/dscm (0.10 gr/dscf) | 40 CFR 60.105(a)(4) | C | H2S analyzer |

# VII. Applicable Limits and Compliance Monitoring Requirements

## Table VII – A.23
## Applicable Limits and Compliance Monitoring Requirements
## S31 – UNIT 200, B-501 HEATER

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| Fuel Flow | | Y | | No limit | BAAQMD 9-10-502.2 | C | Fuel Flowmeter |
| throughput | BAAQMD Condition 20989, Part A | Y | | 1.7 E 6 therm/yr | BAAQMD Condition 20989, Part A | P/M | records |

## Table VII – A.24
## Applicable Limits and Compliance Monitoring Requirements
## S36 – UNIT 200, B-102 HEATER

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| NOx | | Y | | CEM for NOx and O2 (or CO2) | BAAQMD 1-520.8 | C | CEM |
| NOx | BAAQMD Condition 21097, Part 3b | Y | | 10 ppmv NOx at 3% O2 (3 hour average), except startups and shutdowns | BAAQMD Condition 21097, Part 5a | C | CEM |
| Heat input | BAAQMD Condition 21097, Part 2 | Y | | 82.1 MMbtu/hr; 719,200 MMbtu/12-month period | BAAQMD Condition 21097, Part 4 | C | continuous fuel flow monitor |
| O2 | | Y | | No limit | BAAQMD Condition 21097, Part 5a | C | O2 Monitor |
| CO | BAAQMD Condition 21097, Part 3b | Y | | 28 ppmv CO at 3% O2 (8 hour average), except startups and shutdowns | BAAQMD Condition 21097, Part 5b | P/SA | source test |

# VII. Applicable Limits and Compliance Monitoring Requirements

## Table VII – A.24
## Applicable Limits and Compliance Monitoring Requirements
## S36 – UNIT 200, B-102 HEATER

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| POC | BAAQMD Condition 21097, Part 3b | Y | | 5.5 lb POC per MM ft3 of fuel | | N | None |
| PM10 | BAAQMD Condition 21097, Part 3b | Y | | 7.6 lb PM10 per MM ft3 of fuel | | N | None |
| ammonia | BAAQMD Condition 21097, Part 3b | N | | 10 ppmv ammonia at 3% O2 (8 hour average), except startups and shutdowns | | N | None |
| Opacity | BAAQMD 6-301 | Y | | Ringelmann 1 for no more than 3 minutes in any hour | None for gaseous-fueled sources | N | None |
| FP | BAAQMD 6-305 | Y | | Prohibition of nuisance | None for gaseous-fueled sources | N | None |
| FP | BAAQMD 6-310.3 | Y | | 0.15 grain/dscf @ 6% O2 | None for gaseous-fueled sources | N | None |
| SO2 | BAAQMD Condition 1694, Part A.4 | Y | | 1,612 lb/day SO2 over any month from non-cogeneration sources | BAAQMD Condition 1694, Part A.3a | P/3 times per day | GC or total sulfur analysis |
| TRS | BAAQMD Condition 21097, Part 6 | Y | | 100 ppmv TRS (1 day average), 45 ppmv TRS (annual average) | BAAQMD Condition 21097, Part 7a, 7b | C | GC or total sulfur analysis |

# VII. Applicable Limits and Compliance Monitoring Requirements

## Table VII – A.24
## Applicable Limits and Compliance Monitoring Requirements
## S36 – UNIT 200, B-102 HEATER

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| H2S | 40 CFR 60.104(a)(1) | Y | | fuel gas H2S concentration limited to 230 mg/dscm (0.10 gr/dscf) | Condition 21097, part 7c | P/3 times per day | H2S analysis |
| Duration of startup | BAAQMD Condition 21096, Part 3b | Y | | 24 consecutive hours | Condition 21097, part 10 | P/E | Records |
| Duration of shutdown | BAAQMD Condition 21096, Part 3b | Y | | 24 consecutive hours | Condition 21097, part 10 | P/E | Records |
| Duration of heater dryout/ warmup periods | BAAQMD Condition 21096, Part 3b | Y | | 72 consecutive hours | Condition 21097, part 10 | P/E | records |

## Table VII – A.25
## Applicable Limits and Compliance Monitoring Requirements
## S43 – UNIT 200, B-202 HEATER

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| NOx | | Y | | CEM for NOx and O2 (or CO2) | BAAQMD 1-520.8 | C | CEM |
| NOx | BAAQMD 9-10-301 | N | | Refinery-wide emissions: 0.033 lb NOx/ MMbtu | BAAQMD 9-10-502.1 | C | CEM |
| NOx | BAAQMD 9-10-303 | Y | | Federal emissions: Refinery-wide emissions: 0.20 lb NOx/MMbtu | None | N | None |

# VII. Applicable Limits and Compliance Monitoring Requirements

## Table VII – A.25
## Applicable Limits and Compliance Monitoring Requirements
## S43 – UNIT 200, B-202 HEATER

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| NOx | BAAQMD Condition 1694, Part D.2 | Y | | 40 ppmv NOx at 3% O2 over any 8 hours, except startups and shutdowns, at S43, S44 | BAAQMD Condition 1694, Part D.4 | C | NOx, O2 CEM |
| Heat input | BAAQMD Condition 1694, Part A.1b | Y | | 5,520 MMbtu/day | BAAQMD Condition 1694, Part A.5 | P/D | records |
| O2 | | N | | No limit | BAAQMD 9-10-502.1<br><br>BAAQMD Condition 21235, Part 2 | C | O2 Monitor |
| O2 | | Y | | No limit | BAAQMD Condition 1694, Part D.4 | C | O2 Monitor |
| CO | BAAQMD 9-10-305 | N | | 400 ppmv (dry, 3% $O_2$) | BAAQMD 9-10-502.1<br><br>BAAQMD Condition 21235, Part 8 | P/SA | source test |
| CO | BAAQMD Condition 1694, Part D.3 | N | | 50 ppmv CO at 3% O2 over any month, except startups and shutdowns, at S43, S44 | BAAQMD 9-10-502.1<br><br>BAAQMD Condition 21235, Part 8 | P/SA | source test |

# VII. Applicable Limits and Compliance Monitoring Requirements

## Table VII – A.25
## Applicable Limits and Compliance Monitoring Requirements
## S43 – UNIT 200, B-202 HEATER

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| Opacity | BAAQMD 6-304 | Y | | During tube cleaning, Ringelmann No. 2 for 3 min/hr and 6 min/billion btu in 24 hours; applies to sources rated over 140 MMbtu/hr (with tubes) | None for gaseous-fueled sources | N | None |
| Opacity | BAAQMD 6-301 | Y | | Ringelmann 1 for no more than 3 minutes in any hour | None for gaseous-fueled sources | N | None |
| FP | BAAQMD 6-305 | Y | | Prohibition of nuisance | None | N | None |
| FP | BAAQMD 6-310.3 | Y | | 0.15 grain/dscf @ 6% O2 | None for gaseous-fueled sources | N | None |
| SO2 | BAAQMD Condition 1694, Part A.4 | Y | | 1,612 lb/day SO2 over any month from non-cogeneration sources | BAAQMD Condition 1694, Part A.3a | P/3 times per day | TRS analysis |
| H2S | 40 CFR 60.104(a)(1) | Y | | fuel gas H2S concentration limited to 230 mg/dscm (0.10 gr/dscf) except for gas burned as a result of process upset or gas burned at flares from relief valve leaks or other emergency malfunctions; this requirement applies to sources installed/modified after 6/11/73 and burning refinery gas | 40 CFR 60.105(a)(4) | C | H2S analyzer |
| Fuel Flow | | Y | | No limit | BAAQMD 9-10-502.2 | C | Fuel Flowmeter |

# VII. Applicable Limits and Compliance Monitoring Requirements

## Table VII – A.25
## Applicable Limits and Compliance Monitoring Requirements
## S43 – UNIT 200, B-202 HEATER

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| throughput | BAAQMD Condition 20989, Part A | Y | | 19.1 E 6 therm/yr | BAAQMD Condition 20989, Part A | P/M | records |

## Table VII – A.26
## Applicable Limits and Compliance Monitoring Requirements
## S44 – UNIT 200, B-201 HEATER

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| NOx | | Y | | CEM for NOx and O2 (or CO2) | BAAQMD 1-520.8 | C | CEM |
| NOx | BAAQMD 9-10-301 | N | | Refinery-wide emissions: 0.033 lb NOx/ MMbtu | BAAQMD 9-10-502.1 | C | CEM |
| NOx | BAAQMD 9-10-303 | Y | | Federal emissions: Refinery-wide emissions: 0.20 lb NOx/MMbtu | None | N | None |
| NOx | BAAQMD Condition 1694, Part D.2 | Y | | 40 ppmv NOx at 3% O2 over any 8 hours, except startups and shutdowns, at S43, S44 | BAAQMD Condition 1694, Part D.4 | C | CEM |
| Heat input | BAAQMD Condition 1694, Part A.1b | Y | | 1,104 MMbtu/day | BAAQMD Condition 1694, Part A.5 | P/D | records |
| O2 | | N | | No limit | BAAQMD 9-10-502.1<br><br>BAAQMD Condition 21235, Part 2 | C | O2 Monitor |

# VII. Applicable Limits and Compliance Monitoring Requirements

## Table VII – A.26
## Applicable Limits and Compliance Monitoring Requirements
## S44 – UNIT 200, B-201 HEATER

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| O2 | | Y | | No limit | BAAQMD Condition 1694, Part D.4 | C | O2 Monitor |
| CO | BAAQMD 9-10-305 | N | | 400 ppmv (dry, 3% $O_2$) | BAAQMD 9-10-502.1<br><br>BAAQMD Condition 21235, Part 8 | P/SA | source test |
| CO | BAAQMD Condition 1694, Part D.3 | Y | | 50 ppmv CO at 3% O2 over any month, except startups and shutdowns, at S43, S44 | BAAQMD 9-10-502.1<br><br>BAAQMD Condition 21235, Part 8 | P/SA | source test |
| Opacity | BAAQMD 6-301 | Y | | Ringelmann 1 for no more than 3 minutes in any hour | None for gaseous-fueled sources | N | None |
| FP | BAAQMD 6-305 | Y | | Prohibition of nuisance | None | N | None |
| FP | BAAQMD 6-310.3 | Y | | 0.15 grain/dscf @ 6% O2 | None for gaseous-fueled sources | N | None |
| SO2 | BAAQMD Condition 1694, Part A.4 | Y | | 1,612 lb/day SO2 over any month from non-cogeneration sources | BAAQMD Condition 1694, Part A.3a | P/3 times per day | TRS analysis |

# VII. Applicable Limits and Compliance Monitoring Requirements

## Table VII – A.26
## Applicable Limits and Compliance Monitoring Requirements
## S44 – UNIT 200, B-201 HEATER

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| H2S | 40 CFR 60.104(a)(1) | Y | | fuel gas H2S concentration limited to 230 mg/dscm (0.10 gr/dscf) except for gas burned as a result of process upset or gas burned at flares from relief valve leaks or other emergency malfunctions; this requirement applies to sources installed/modified after 6/11/73 and burning refinery gas | 40 CFR 60.105(a)(4) | C | H2S analyzer |
| Fuel Flow | | Y | | No limit | BAAQMD 9-10-502.2 | C | Fuel Flowmeter |
| throughput | BAAQMD Condition 20989, Part A | Y | | 3.8 E 6 therm/yr | BAAQMD Condition 20989, Part A | P/M | records |

## Table VII – A.27
## Applicable Limits and Compliance Monitoring Requirements
## S50, S51, S52 – TURBINE STARTUP ENGINES

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| Opacity | BAAQMD 6-303.1 | Y | | Ringelmann No. 2 for no more than 3 minutes in any hour | None | N | N/A |
| FP | BAAQMD 6-305 | Y | | Prohibition of nuisance | None | N | None |
| FP | BAAQMD 6-310 | Y | | 0.15 gr/dscf | None | N | N/A |

# VII. Applicable Limits and Compliance Monitoring Requirements

## Table VII – A.27
## Applicable Limits and Compliance Monitoring Requirements
## S50, S51, S52 – TURBINE STARTUP ENGINES

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| Hours of operation | 9-8-111.1 | Y | | Exemptions: Engines rated at or below 1000 brake horsepower which operate less than 200 hours in any 12-consecutive month period | BAAQMD 9-8-502 | P/M | records |
| Hours of operation | BAAQMD Condition 19488, Part 1 | N | | up to 100 hour/yr | BAAQMD Condition 19488, Part 2 | P/M | records |
| SO2 | BAAQMD 9-1-304 | Y | | Fuel Sulfur Limit 0.5% by weight | None | P/E | fuel certification |

## Table VII – A.28
## Applicable Limits and Compliance Monitoring Requirements
## S53, S54, S55, S56, S57, S58, S59 – EMERGENCY DIESEL ENGINES

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| Opacity | BAAQMD 6-303.1 | Y | | Ringelmann No. 2 for no more than 3 minutes in any hour | None | N | N/A |
| FP | BAAQMD 6-305 | Y | | Prohibition of nuisance | None | N | None |
| FP | BAAQMD 6-310 | Y | | 0.15 gr/dscf | None | N | N/A |
| Hours of operation | BAAQMD Condition 19488, Part 3 | N | | up to 100 hour/yr (non-emergency) | BAAQMD Condition 19488, Part 6 | C | totalizing meter |
| Hours of operation | BAAQMD 9-8-330 | N | | up to 100 hours for reliability testing | BAAQMD 9-8-530 | C | totalizing meter |

# VII. Applicable Limits and Compliance Monitoring Requirements

## Table VII – A.28
## Applicable Limits and Compliance Monitoring Requirements
## S53, S54, S55, S56, S57, S58, S59 – EMERGENCY DIESEL ENGINES

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| SO2 | BAAQMD 9-1-304 | Y | | Fuel Sulfur Limit 0.5% by weight | None | P/E | fuel certification |

## Table VII – A.29
## Applicable Limits and Compliance Monitoring Requirements
## S336 – UNIT 231, B-104 HEATER

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| NOx | BAAQMD 9-10-301 | N | | Refinery-wide emissions: 0.033 lb NOx/ MMbtu | BAAQMD 9-10-502.1<br><br>BAAQMD Condition 21235, Part 7 | P/SA | source test |
| NOx | BAAQMD 9-10-303 | Y | | Federal emissions: Refinery-wide emissions: 0.20 lb NOx/MMbtu | None | N | None |
| Heat input | BAAQMD Condition 1694, Part A.1a | Y | | 2,664 MMbtu/day | BAAQMD Condition 1694, Part A.5 | P/D | records |
| O2 | | N | | No limit | BAAQMD 9-10-502.1<br><br>BAAQMD Condition 21235, Part 2 | C | O2 Monitor |

# VII. Applicable Limits and Compliance Monitoring Requirements

## Table VII – A.29
## Applicable Limits and Compliance Monitoring Requirements
## S336 – UNIT 231, B-104 HEATER

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| CO | BAAQMD 9-10-305 | N | | 400 ppmv (dry, 3% $O_2$) | BAAQMD 9-10-502.1<br><br>BAAQMD Condition 21235, Part 7 | P/SA | source test |
| Opacity | BAAQMD 6-301 | Y | | Ringelmann 1 for no more than 3 minutes in any hour | None for gaseous-fueled sources | N | None |
| FP | BAAQMD 6-305 | Y | | Prohibition of nuisance | None | N | None |
| FP | BAAQMD 6-310.3 | Y | | 0.15 grain/dscf @ 6% O2 | None for gaseous-fueled sources | N | None |
| SO2 | BAAQMD Condition 1694, Part A.4 | Y | | 1,612 lb/day SO2 over any month from non-cogeneration sources | BAAQMD Condition 1694, Part A.3a | P/3 times per day | TRS analysis |
| H2S | 40 CFR 60.104(a)(1) | Y | | fuel gas H2S concentration limited to 230 mg/dscm (0.10 gr/dscf) except for gas burned as a result of process upset or gas burned at flares from relief valve leaks or other emergency malfunctions; this requirement applies to sources installed/modified after 6/11/73 and burning refinery gas | 40 CFR 60.105(a)(4) | C | H2S analyzer |
| Fuel Flow | | Y | | No limit | BAAQMD 9-10-502.2 | C | Fuel Flowmeter |

# VII. Applicable Limits and Compliance Monitoring Requirements

## Table VII – A.29
## Applicable Limits and Compliance Monitoring Requirements
## S336 – UNIT 231, B-104 HEATER

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| throughput | BAAQMD Condition 20989, Part A | Y | | 9.2 E 6 therm/yr | BAAQMD Condition 20989, Part A | P/M | records |

## Table VII – A.30
## Applicable Limits and Compliance Monitoring Requirements
## S337 – UNIT 231, B-105 HEATER

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| NOx | BAAQMD 9-10-301 | N | | Refinery-wide emissions: 0.033 lb NOx/ MMbtu | BAAQMD 9-10-502.1<br><br>BAAQMD Condition 21235, Part 7 | P/SA | source test |
| NOx | BAAQMD 9-10-303 | Y | | Federal emissions: Refinery-wide emissions: 0.20 lb NOx/MMbtu | None | N | None |
| Heat input | BAAQMD Condition 1694, Part A.1a | Y | | 816 MMbtu/day | BAAQMD Condition 1694, Part A.5 | P/D | records |
| O2 | | N | | No limit | BAAQMD 9-10-502.1<br><br>BAAQMD Condition 21235, Part 2 | C | O2 Monitor |

# VII. Applicable Limits and Compliance Monitoring Requirements

## Table VII – A.30
## Applicable Limits and Compliance Monitoring Requirements
## S337 – UNIT 231, B-105 HEATER

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| CO | BAAQMD 9-10-305 | N | | 400 ppmv (dry, 3% $O_2$) | BAAQMD 9-10-502.1<br><br>BAAQMD Condition 21235, Part 7 | P/SA | source test |
| Opacity | BAAQMD 6-301 | Y | | Ringelmann 1 for no more than 3 minutes in any hour | None for gaseous-fueled sources | N | None |
| FP | BAAQMD 6-305 | Y | | Prohibition of nuisance | None | N | None |
| FP | BAAQMD 6-310.3 | Y | | 0.15 grain/dscf @ 6% O2 | None for gaseous-fueled sources | N | None |
| SO2 | BAAQMD Condition 1694, Part A.4 | Y | | 1,612 lb/day SO2 over any month from non-cogeneration sources | BAAQMD Condition 1694, Part A.3a | P/3 times per day | TRS analysis |
| H2S | 40 CFR 60.104(a)(1) | Y | | fuel gas H2S concentration limited to 230 mg/dscm (0.10 gr/dscf) except for gas burned as a result of process upset or gas burned at flares from relief valve leaks or other emergency malfunctions; this requirement applies to sources installed/modified after 6/11/73 and burning refinery gas | 40 CFR 60.105(a)(4) | C | H2S analyzer |
| Fuel Flow | | Y | | No limit | BAAQMD 9-10-502.2 | C | Fuel Flowmeter |

# VII. Applicable Limits and Compliance Monitoring Requirements

## Table VII – A.30
## Applicable Limits and Compliance Monitoring Requirements
## S337 – UNIT 231, B-105 HEATER

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| throughput | BAAQMD Condition 20989, Part A | Y | | 2.8 E 6 therm/yr | BAAQMD Condition 20989, Part A | P/M | records |

## Table VII – A.31
## Applicable Limits and Compliance Monitoring Requirements
## S351 – UNIT 267, B-601/602 HEATERS

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| NOx | | Y | | CEM for NOx and O2 (or CO2) | BAAQMD 1-520.8 | C | CEM |
| NOx | BAAQMD 9-10-301 | N | | Refinery-wide emissions: 0.033 lb NOx/ MMbtu | BAAQMD 9-10-502.1 | C | CEM |
| NOx | BAAQMD 9-10-303 | Y | | Federal emissions: Refinery-wide emissions: 0.20 lb NOx/MMbtu | None | N | None |
| NOx | BAAQMD Condition 1694, Part B.2 | Y | | 20 ppmv NOx at 3% O2 over any 3 hours, except startups and shutdowns, at S351 | BAAQMD Condition 1694, Part B.3 | C | NOx, O2 CEM |
| Heat input | BAAQMD Condition 1694, Part A.1b | Y | | 2,424 MMbtu/day | BAAQMD Condition 1694, Part A.5 | P/D | records |
| O2 | | N | | No limit | BAAQMD 9-10-502.1<br><br>BAAQMD Condition 21235, Part 2 | C | O2 Monitor |

# VII. Applicable Limits and Compliance Monitoring Requirements

## Table VII – A.31
## Applicable Limits and Compliance Monitoring Requirements
## S351 – UNIT 267, B-601/602 HEATERS

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| O2 | | Y | | No limit | BAAQMD Condition 1694, Part B.3 | C | O2 Monitor |
| CO | BAAQMD 9-10-305 | N | | 400 ppmv (dry, 3% $O_2$) | BAAQMD 9-10-502.1<br><br>BAAQMD Condition 21235, Part 8 | P/SA | source test |
| Opacity | BAAQMD 6-301 | Y | | Ringelmann 1 for no more than 3 minutes in any hour | None for gaseous-fueled sources | N | None |
| FP | BAAQMD 6-305 | Y | | Prohibition of nuisance | None | N | None |
| FP | BAAQMD 6-310.3 | Y | | 0.15 grain/dscf @ 6% O2 | None for gaseous-fueled sources | N | None |
| SO2 | BAAQMD Condition 1694, Part A.4 | Y | | 1,612 lb/day SO2 over any month from non-cogeneration sources | BAAQMD Condition 1694, Part A.3a | P/3 times per day | TRS analysis |

# VII. Applicable Limits and Compliance Monitoring Requirements

## Table VII – A.31
## Applicable Limits and Compliance Monitoring Requirements
## S351 – UNIT 267, B-601/602 HEATERS

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| H2S | 40 CFR 60.104(a)(1) | Y | | fuel gas H2S concentration limited to 230 mg/dscm (0.10 gr/dscf) except for gas burned as a result of process upset or gas burned at flares from relief valve leaks or other emergency malfunctions; this requirement applies to sources installed/modified after 6/11/73 and burning refinery gas | 40 CFR 60.105(a)(4) | C | H2S analyzer |
| Fuel Flow | | Y | | No limit | BAAQMD 9-10-502.2 | C | Fuel Flowmeter |
| throughput | BAAQMD Condition 20989, Part A | Y | | 8.4 E 6 therm/yr | BAAQMD Condition 20989, Part A | P/M | records |

# VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – A.32**
**Applicable Limits and Compliance Monitoring Requirements**
**S371 – UNIT 228, B-520 FURNACE**

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| NOx | BAAQMD 9-10-301 | N | | Refinery-wide emissions: 0.033 lb NOx/ MMbtu | BAAQMD 9-10-502.1 | C | CEM |
| NOx | BAAQMD 9-10-303 | Y | | Federal emissions: Refinery-wide emissions: 0.20 lb NOx/MMbtu | None | N | None |
| NOx | BAAQMD Condition 1694, Part C.2 | Y | | 20 ppmv NOx at 3% O2 over any 3 hours, except startups and shutdowns | None | C | CEM |
| Heat input | BAAQMD Condition 1694, Part A.1b | Y | | 1,392 MMbtu/day averaged over any day at S371 and S372 | BAAQMD Condition 1694, Part A.5 | P/D | records |
| O2 | | N | | No limit | BAAQMD 9-10-502.1<br><br>BAAQMD Condition 21235, Part 2 | C | O2 Monitor |
| CO | BAAQMD 9-10-305 | N | | 400 ppmv (dry, 3% $O_2$) | BAAQMD 9-10-502.1<br><br>BAAQMD Condition 21235, Part 8 | P/SA | source test |
| CO | BAAQMD Condition 1694, Part C.3 | Y | | 50 ppmv CO at 3% O2 over any 3 hours, except startups and shutdowns | BAAQMD 9-10-502.1<br><br>BAAQMD Condition 21235, Part 8 | P/SA | source test |

# VII. Applicable Limits and Compliance Monitoring Requirements

## Table VII – A.32
## Applicable Limits and Compliance Monitoring Requirements
## S371 – UNIT 228, B-520 FURNACE

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| Opacity | BAAQMD 6-301 | Y | | Ringelmann 1 for no more than 3 minutes in any hour | None for gaseous-fueled sources | N | None |
| FP | BAAQMD 6-305 | Y | | Prohibition of nuisance | None | N | None |
| FP | BAAQMD 6-310.3 | Y | | 0.15 grain/dscf @ 6% O2 | None for gaseous-fueled sources | N | None |
| SO2 | BAAQMD Condition 1694, Part A.4 | Y | | 1,612 lb/day SO2 over any month from non-cogeneration sources | BAAQMD Condition 1694, Part A.3a | P/3 times per day | TRS analysis |
| H2S | 40 CFR 60.104(a)(1) | Y | | fuel gas H2S concentration limited to 230 mg/dscm (0.10 gr/dscf) except for gas burned as a result of process upset or gas burned at flares from relief valve leaks or other emergency malfunctions; this requirement applies to sources installed/modified after 6/11/73 and burning refinery gas | 40 CFR 60.105(a)(4) | C | H2S analyzer |
| Fuel Flow | | Y | | No limit | BAAQMD 9-10-502.2 | C | Fuel Flowmeter |
| throughput | BAAQMD Condition 20989, Part A | Y | | 4.8 E 6 therm/yr for S371 and S372 combined | BAAQMD Condition 20989, Part A | P/M | records |

# VII. Applicable Limits and Compliance Monitoring Requirements

## Table VII – A.33
## Applicable Limits and Compliance Monitoring Requirements
## S372 – UNIT 228, B-521 FURNACE

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| NOx | BAAQMD 9-10-301 | N | | Refinery-wide emissions: 0.033 lb NOx/ MMbtu | BAAQMD 9-10-502.1 | C | CEM |
| NOx | BAAQMD 9-10-303 | Y | | Federal emissions: Refinery-wide emissions: 0.20 lb NOx/MMbtu | None | N | None |
| NOx | BAAQMD Condition 1694, Part C.2 | Y | | 20 ppmv NOx at 3% O2 over any 3 hours, except startups and shutdowns | None | C | NOx, O2 CEM |
| Heat input | BAAQMD Condition 1694, Part A.1b | Y | | 1,392 MMbtu/day averaged over any day at S371 and S372 | BAAQMD Condition 1694, Part A.5 | P/D | records |
| O2 | | N | | No limit | BAAQMD 9-10-502.1<br><br>BAAQMD Condition 21235, Part 2 | C | O2 Monitor |
| CO | BAAQMD 9-10-305 | N | | 400 ppmv (dry, 3% $O_2$) | BAAQMD 9-10-502.1<br><br>BAAQMD Condition 21235, Part 8 | P/SA | source test |
| CO | BAAQMD Condition 1694, Part C.3 | Y | | 50 ppmv CO at 3% O2 over any 3 hours, except startups and shutdowns | BAAQMD 9-10-502.1<br><br>BAAQMD Condition 21235, Part 8 | P/SA | source test |

# VII. Applicable Limits and Compliance Monitoring Requirements

## Table VII – A.33
## Applicable Limits and Compliance Monitoring Requirements
## S372 – UNIT 228, B-521 FURNACE

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| Opacity | BAAQMD 6-301 | Y | | Ringelmann 1 for no more than 3 minutes in any hour | None for gaseous-fueled sources | N | None |
| FP | BAAQMD 6-305 | Y | | Prohibition of nuisance | None | N | None |
| FP | BAAQMD 6-310.3 | Y | | 0.15 grain/dscf @ 6% O2 | None for gaseous-fueled sources | N | None |
| SO2 | BAAQMD Condition 1694, Part A.4 | Y | | 1,612 lb/day SO2 over any month from non-cogeneration sources | BAAQMD Condition 1694, Part A.3a | P/3 times per day | TRS analysis |
| H2S | 40 CFR 60.104(a)(1) | Y | | fuel gas H2S concentration limited to 230 mg/dscm (0.10 gr/dscf) except for gas burned as a result of process upset or gas burned at flares from relief valve leaks or other emergency malfunctions; this requirement applies to sources installed/modified after 6/11/73 and burning refinery gas | 40 CFR 60.105(a)(4) | C | H2S analyzer |
| Fuel Flow | | Y | | No limit | BAAQMD 9-10-502.2 | C | Fuel Flowmeter |
| throughput | BAAQMD Condition 20989, Part A | Y | | 4.8 E 6 therm/yr for S371 and S372 combined | BAAQMD Condition 20989, Part A | P/M | records |

# VII. Applicable Limits and Compliance Monitoring Requirements

## Table VII – A.34
## Applicable Limits and Compliance Monitoring Requirements
## S438 – UNIT 110, H-1 FURNACE

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| NOx | BAAQMD Condition 1694, Part E.4 | Y | | 7 ppmv NOx at 3% O2 over any 1 hours, except startups and shutdowns | None | C | CEM |
| Heat input | BAAQMD Condition 1694, Part A.1c | Y | | 250 MMbtu/hr, 6,000 MMbtu/day | BAAQMD Condition 1694, Part A.5 | P/D | records |
| Heat input | BAAQMD Condition 1694, Part E.2 | Y | | 2.19 E 12 btu/yr fuel combustion | BAAQMD Condition 1694, Part E.6 | P/D | records |
| O2 | | Y | | No limit | None | C | O2 Monitor |
| CO | BAAQMD Condition 1694, Part E.4 | Y | | 32 ppmv CO at 3% O2 over any 24 hr, except startups and shutdowns | None | N | None |
| TRS | BAAQMD Condition 1694, Part E.3 | Y | | 1 ppmw TRS in PSA offgas used as fuel | Overall fuel TRS monitored by BAAQMD Condition 1694, Part E.5 | P/D | records |
| TRS | BAAQMD Condition 1694, Part E.5 | Y | | 50 ppmv TRS over any month, in fuel gas | BAAQMD Condition 1694, Part E.5 | P/3 times per day | TRS analysis |
| Opacity | BAAQMD 6-304 | Y | | During tube cleaning, Ringelmann No. 2 for 3 min/hr and 6 min/billion btu in 24 hours; applies to sources rated over 140 MMbtu/hr (with tubes) | None for gaseous-fueled sources | N | None |

# VII. Applicable Limits and Compliance Monitoring Requirements

## Table VII – A.34
## Applicable Limits and Compliance Monitoring Requirements
## S438 – UNIT 110, H-1 FURNACE

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| Opacity | BAAQMD 6-301 | Y | | Ringelmann 1 for no more than 3 minutes in any hour | None for gaseous-fueled sources | N | None |
| FP | BAAQMD 6-305 | Y | | Prohibition of nuisance | None | N | None |
| FP | BAAQMD 6-310.3 | Y | | 0.15 grain/dscf @ 6% O2 | None for gaseous-fueled sources | N | None |
| SO2 | BAAQMD Condition 1694, Part A.4 | Y | | 1,612 lb/day SO2 over any month from non-cogeneration sources | BAAQMD Condition 1694, Part A.3a | P/3 times per day | TRS analysis |
| H2S | 40 CFR 60.104(a)(1) | Y | | fuel gas H2S concentration limited to 230 mg/dscm (0.10 gr/dscf) | 40 CFR 60.105(a)(4) | C | H2S analyzer |

# VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – A.35**
**Applicable Limits and Compliance Monitoring Requirements**
**S461 – UNIT 250, B-701 HEATER**

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| NOx | | Y | | CEM for NOx and O2 (or CO2) | BAAQMD 1-520.8 | C | CEM |
| NOx | BAAQMD Condition 21096, Part 3b | Y | | 10 ppmv NOx at 3% O2 (3 hour average), except startups and shutdowns | BAAQMD Condition 21096, Part 5a | C | CEM |
| Heat input | BAAQMD Condition 21096, Part 2 | Y | | 52 MMbtu/hr; 439,800 MMbtu/12-month period | BAAQMD Condition 21096, Part 4 | C | continuous fuel flow monitor |
| O2 | | Y | | No limit | BAAQMD Condition 21096, Part 5a | C | O2 Monitor |
| CO | BAAQMD Condition 21096, Part 3b | Y | | 28 ppmv CO at 3% O2 (8 hour average) when fired 50% capacity or more and 50 ppmv CO at 3% O2 (8 hour average) when fired less than 50% capacity, except startups and shutdowns | BAAQMD Condition 21096, Part 5b | P/SA | source test |
| POC | BAAQMD Condition 21096, Part 3b | Y | | 5.5 lb POC per MM ft3 of fuel | | N | None |
| PM10 | BAAQMD Condition 21096, Part 3b | Y | | 7.6 lb PM10 per MM ft3 of fuel | | N | None |

# VII. Applicable Limits and Compliance Monitoring Requirements

## Table VII – A.35
## Applicable Limits and Compliance Monitoring Requirements
## S461 – UNIT 250, B-701 HEATER

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| ammonia | BAAQMD Condition 21096, Part 3b | N | | 10 ppmv ammonia at 3% O2 (8 hour average), except startups and shutdowns | | N | None |
| Opacity | BAAQMD 6-301 | Y | | Ringelmann 1 for no more than 3 minutes in any hour | None for gaseous-fueled sources | N | None |
| FP | BAAQMD 6-305 | Y | | Prohibition of nuisance | None for gaseous-fueled sources | N | None |
| FP | BAAQMD 6-310.3 | Y | | 0.15 grain/dscf @ 6% O2 | None for gaseous-fueled sources | N | None |
| SO2 | BAAQMD Condition 1694, Part A.4 | Y | | 1,612 lb/day SO2 over any month from non-cogeneration sources | BAAQMD Condition 1694, Part A.3a | P/3 times per day | GC or total sulfur analysis |
| TRS | BAAQMD Condition 21096, Part 6 | Y | | 100 ppmv TRS (1 day average), 45 ppmv TRS (annual average) | BAAQMD Condition 21096, Part 7a, 7b | C | GC or total sulfur analysis |
| H2S | 40 CFR 60.104(a) (1) | Y | | fuel gas H2S concentration limited to 230 mg/dscm (0.10 gr/dscf) | Condition 21096, part 7c | P/3 times per day | H2S analysis |
| Duration of startup | BAAQMD Condition 21096, Part 3b | Y | | 24 consecutive hours | Condition 21097, part 10 | P/E | records |

# VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – A.35**
**Applicable Limits and Compliance Monitoring Requirements**
**S461 – UNIT 250, B-701 HEATER**

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| Duration of shutdown | BAAQMD Condition 21096, Part 3b | Y | | 24 consecutive hours | Condition 21097, part 10 | P/E | records |
| Duration of heater dryout/ warmup periods | BAAQMD Condition 21096, Part 3b | Y | | 72 consecutive hours | Condition 21097, part 10 | P/E | records |

# VII. Applicable Limits and Compliance Monitoring Requirements

## Table VII – B
## Applicable Limits and Compliance Monitoring Requirements
### S400 WET WEATHER WASTEWATER SUMP
### S401 DRY WEATHER WASTEWATER SUMP

| 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 Condition 1440, Part 4.b | Y | | no detectable VOC emissions | BAAQMD Condition 1440, Part 5 | P/SA | VOC analyzer |
| VOC | 40 CFR 60.692-2(c)(1) | Y | | No visible gaps or cracks in joints or seals, or other problems that could result in VOC emissions | 40 CFR 60.692-2(c)(2) | P/SA | Visual inspections |
| throughput | BAAQMD Condition 20989, Part A | Y | | 3.68 E 9 gal/yr each for S400, S401 | BAAQMD Condition 20989, Part A | P/M | records |

## Table VII - C
## Applicable Limits and Compliance Monitoring Requirements
### S324 API OIL/WASTEWATER SEPARATOR

| 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 Condition 1440, Part 4.a | Y | | no detectable VOC emissions | BAAQMD Condition 1440, Part 5 | P/SA | VOC analyzer |
| VOC | BAAQMD 8-8-306.1 | Y | | No cracks or gaps in roof seals, access doors, and other openings in the **effluent channel** greater than 0.32 cm (0.125 inch) between the roof and wall | BAAQMD 8-8-306.1 | P/SA | Visual inspections |

# VII. Applicable Limits and Compliance Monitoring Requirements

## Table VII - C
## Applicable Limits and Compliance Monitoring Requirements
## S324 API OIL/WASTEWATER SEPARATOR

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| VOC | 40 CFR 60.692-3(a) | Y | | Fixed roof access doors or openings shall be gasketed, latched, and kept closed | 40 CFR 60.692-3(a)(4) | P/SA | Visual inspections |
| through-put | BAAQMD Condition 1440, Part 6 | Y | | maximum design throughput - 7,500 gpm during media filter backwash and 7,000 gpm during all other times | None | N | None |
| Through-put | BAAQMD Condition 20989, Part A | Y | | 3.68 E 9 gal/yr | BAAQMD Condition 20989, Part A | P/M | records |

# VII. Applicable Limits and Compliance Monitoring Requirements

## Table VII – D
## Applicable Limits and Compliance Monitoring Requirements
## S1007 DISSOLVED AIR FLOTATION UNIT

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| VOC | BAAQMD 8-8-307.1 | Y | | Roof seals, access doors, and other openings shall be checked by visual inspection initially and semiannually thereafter to ensure that no cracks or gaps greater than 0.32 cm (0.125 inch) occur in the roof or between the roof and wall; and that the access doors and other openings are closed and gasketed properly | BAAQMD 8-8-307.1 | P/SA | visual |
| VOC | BAAQMD Condition 1440, Part 4.b | Y | | no detectable VOC emissions | BAAQMD Condition 1440, Part 5 | P/SA | VOC analyzer |
| through-put | BAAQMD Condition 1440, Part 6 | Y | | maximum design throughput - 7,500 gpm during media filter backwash and 7,000 gpm during all other times | None | N | None |
| throughput | BAAQMD Condition 20989, Part A | Y | | 3.68 E 9 gal/yr | BAAQMD Condition 20989, Part A | P/M | records |

# VII. Applicable Limits and Compliance Monitoring Requirements

## Table VII - E
## Applicable Limits and Compliance Monitoring Requirements
## S381 AERATION TANK F-201; S382 AERATION TANK F-202; S383 CLARIFIER F-203; S384 CLARIFIER F-204

| 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 Condition 1440, Part 4.c | Y | | no detectable VOC emissions | BAAQMD Condition 1440, Part 5 | P/SA | VOC analyzer |
| Through-put | BAAQMD Condition 20989, Part A | Y | | 3.68 E 9 gal/yr each for S381, S382, S383, S384 | BAAQMD Condition 20989, Part A | P/M | records |

## Table VII - F
## Applicable Limits and Compliance Monitoring Requirements
## S1008 PRIMARY STORMWATER BASIN
## S1009 MAIN STORMWATER BASIN

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| VOC | | | | None | BAAQMD 8-8-501 | P/E | Records of bypassed wastewater, organic compound concen-tration |
| | BAAQMD Condition 1440, Part 2 | | | Minimize diversions | BAAQMD Condition 1440, Part 3 | P/E | records |

# VII. Applicable Limits and Compliance Monitoring Requirements

## Table VII – G
## Applicable Limits and Compliance Monitoring Requirements
## S385 – WASTEWATER EFFLUENT MEDIA FILTER F271-F278
## S386 – PAC REGENERATION SLUDGE THICKENER F-211
## S387 – WET AIR REGENERATION SYSTEM P-202
## S390 – THICKENED SLUDGE STORAGE F-106
## S392 – REGENERATED PAC SLURRY STORAGE F-266

| 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 Condition 1440, Part 4.c | Y | | no detectable VOC emissions | BAAQMD Condition 1440, Part 5 | P/SA | VOC analyzer |
| Through-put | BAAQMD Condition 20989, Part A | Y | | S385: 3.68 E 9 gal/yr<br>S386: 3.2 E 7 gal/yr,<br>S387: 13.14 E 6 gal/yr<br>S390: 7.884 E 6 gal/yr<br>S392: 7.884 E 6 gal/yr | BAAQMD Condition 20989, Part A | P/M | records |

## Table VII – H
## Applicable Limits and Compliance Monitoring Requirements
## WASTEWATER JUNCTION BOXES

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| None | | | | | | | |
| VOC | 40 CFR 60.692-2(b)(2) | Y | | Junction box covers shall have a tight seal around the edge and kept in place at all times | 40 CFR 60.692-2(b)(3) | P/SA | Visual inspections |

# VII. Applicable Limits and Compliance Monitoring Requirements

## Table VII – I
## Applicable Limits and Compliance Monitoring Requirements
### WASTEWATER PROCESS SEWERS/SEWER LINES

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| VOC | 40 CFR 60.692-2(c)(1) | Y | | No visible gaps or cracks in joints or seals, or other problems that could result in VOC emissions | 40 CFR 60.692-2(c)(2) | P/SA | Visual inspections |

## Table VII – J
## Applicable Limits and Compliance Monitoring Requirements
### WASTEWATER GAUGING AND SAMPLING DEVICES

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| VOC | BAAQMD 8-8-303 | Y | | Vapor tight gauging and sampling devices | BAAQMD 8-8-504 8-8-603 | N | Portable hydrocarbon detector |

## Table VII – K
## Applicable Limits and Compliance Monitoring Requirements
### S294 – NON-RETAIL GASOLINE DISPENSING FACILITY

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| VOC | BAAQMD 8-7-301.6 and 8-7-302.5 | Y | | Vapor recovery equipment shall be leak-free and vapor tight | BAAQMD 8-7-301.13 | A | Vapor tightness test |
| VOC | BAAQMD 8-7-301.10 | N | | 98% or highest vapor recovery rate specified by CARB | None | N | None |
| VOC | None | | | None | BAAQMD 8-7-302.14 | A | Backpressure test |
| VOC | BAAQMD 8-7-313.1 | N | | Fugitives $\leq$ 0.42 lb/1000 gallon | None | N | None |

# VII. Applicable Limits and Compliance Monitoring Requirements

## Table VII – K
## Applicable Limits and Compliance Monitoring Requirements
## S294 – NON-RETAIL GASOLINE DISPENSING FACILITY

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| VOC | BAAQMD 8-7-313.2 | N | | Spillage $\leq$ 0.42 lb/1000 gallon | None | N | None |
| VOC | BAAQMD 8-7-313.3 | N | | Liquid Retain + Spitting $\leq$ 0.42 lb/1000 gallon | None | N | None |
| VOC | SIP 8-7-301.2 | Y | | 95% recovery of gasoline vapors | None | N | None |
| VOC | California Air Resources Board Executive Order VR-101 | N | | leakage levels as specified in Executive Order VR-101 | BAAQMD Condition 18680, Part 2 | leak test | P/36 months |
| Through-put | BAAQMD Condition 7523 | N | | 400,000 gal/yr | BAAQMD 8-7-503<br><br>BAAQMD Condition 20989, Part A | P/A<br><br>P/M | Records<br><br>Records |
| Through-put | BAAQMD Condition 20989, Part A | Y | | 20 gpm | None | N | None |

# VII. Applicable Limits and Compliance Monitoring Requirements

## Table VII – L
## Applicable Limits and Compliance Monitoring Requirements
## S296 – C-1 FLARE
## S398 – MP-30 FLARE
## [Flares which are visually inspected upon release, with no remote viewing system]

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Emission Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| Opacity | BAAQMD 6-301 | Y | | Ringelmann No. 1 for no more than 3 minutes/hr | BAAQMD Condition 18255, Part 4 | P/E | Visual Inspection |
| FP | BAAQMD 6-305 | Y | | Prohibition of nuisance | None | N | None |
| FP | BAAQMD 6-310 | Y | | No emissions from source > 0.15 grains per dscf of gas volume | BAAQMD Condition 18255, Part 4 | P/E | Visual Inspection |
| VE | 40 CFR 63.11(b)(4) | Y | | No visible emissions except for 5 min in any two hours whenever emissions from S306 or S308 regeneration vented to flare | 40 CFR 63, Section 63.11(b)(4) and Subpart UUU, Table 18 | P/E | Visual Inspection |
| SO2 | 40 CFR 60.104(a)(1) | Y | | Flares are exempt when they are used only for startup, shutdown, malfunction, and upset gases | None | N | None |
| All | | N | | | BAAQMD 12-11-501 & 12-11-505 | P/C | Flow Rate |
| All | | N | | | BAAQMD 12-11-502.1 & 12-11-505 | P/E | Composition |
| All | | N | | | BAAQMD 12-11-502.3 & 12-11-505 | P/E | Composition |
| All | | N | | | BAAQMD 12-11-503 & 12-11-505 | P/C | Flame Detector |
| All | | N | | | BAAQMD 12-11-504 & 12-11-505 | P/C | Purge Gas Flow Rate |

# VII. Applicable Limits and Compliance Monitoring Requirements

## Table VII – L
## Applicable Limits and Compliance Monitoring Requirements
## S296 – C-1 FLARE
## S398 – MP-30 FLARE
## [Flares which are visually inspected upon release, with no remote viewing system]

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Emission Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| All | | N | | | BAAQMD 12-11-507 | P/C | 1 frame per minute image video recording |
| Presence of flame | 40 CFR 63.11(b)(5) | Y | | Presence of flame whenever emissions from S306 or S308 regeneration vented to flare | 40 CFR 63.11(b)(5) | C | Thermo-couple |
| Heating value | 40 CFR 63.11(b)(6)(ii) | Y | | Net heating value of 300 btu/scf or greater whenever emissions from S306 or S308 regeneration vented to flare | | None (The heating value was determined during the first test.) | |
| Exit velocity | 40 CFR 63.11(b)(7)(i) | Y | | Exit velocity less than 60 ft/sec whenever emissions from S306 or S308 regeneration vented to flare | | None (The exit velocity was determined during the first test.) | |

## Table VII – M
## Applicable Limits and Compliance Monitoring Requirements
## S300 – U-200 DELAYED COKER

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| POC | BAAQMD 8-10-301 | Y | | abatement of emissions from process vessel depressurization is required until pressure is reduced to less than 1000 mm Hg (4.6 psig) | BAAQMD 8-10-501 & 8-10-502 | P/E | Records |

# VII. Applicable Limits and Compliance Monitoring Requirements

## Table VII – M
## Applicable Limits and Compliance Monitoring Requirements
## S300 – U-200 DELAYED COKER

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| POC | SIP 8-10-301 | Y | | abatement of emissions from process vessel depressurization is required until pressure is reduced to less than 1000 mm Hg (4.6 psig) | SIP 8-10-401.2 | P/E | Records |
| Through-put | BAAQMD Condition 21092, Part 1 | Y | | 81,000 bbl/day | BAAQMD Condition 21092, Part 2 | P/D | records |

## Table VII – Na
## Applicable Limits and Compliance Monitoring Requirements
## S304 –U-229 LIGHT NAPHTHA HYDROTREATER;
## S305 – U-230 PREFRACTIONATOR / NAPHTHA HYDROTREATER;
## S307 – U-240 UNICRACKING UNIT; S309 – U-248 UNISAR UNIT;
## S318 – U-76 GASOLINE / MID-BARREL BLENDING UNIT;
## S319 – U-215 GASOLINE FRACTIONATING UNIT;
## S322 – U-40 RAW MATERIALS RECEIVING; S435 – REFORMATE SPLITTER;
## S436 – DEISOPENTANIZER; S437 – HYDROGEN PLANT;
## S460 – U-250 ULSD HYDROTREATER

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| POC | BAAQMD 8-10-301 | Y | | abatement of emissions from process vessel depressurization is required until pressure is reduced to less than 1000 mm Hg (4.6 psig) | BAAQMD 8-10-501 & 8-10-502 | P/E | Records |

# VII. Applicable Limits and Compliance Monitoring Requirements

## Table VII – Na
## Applicable Limits and Compliance Monitoring Requirements
## S304 –U-229 LIGHT NAPHTHA HYDROTREATER;
## S305 – U-230 PREFRACTIONATOR / NAPHTHA HYDROTREATER;
## S307 – U-240 UNICRACKING UNIT; S309 – U-248 UNISAR UNIT;
## S318 – U-76 GASOLINE / MID-BARREL BLENDING UNIT;
## S319 – U-215 GASOLINE FRACTIONATING UNIT;
## S322 – U-40 RAW MATERIALS RECEIVING; S435 – REFORMATE SPLITTER;
## S436 – DEISOPENTANIZER; S437 – HYDROGEN PLANT;
## S460 – U-250 ULSD HYDROTREATER

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| POC | SIP 8-10-301 | Y | | abatement of emissions from process vessel depressurization is required until pressure is reduced to less than 1000 mm Hg (4.6 psig) | SIP 8-10-401.2 | P/E | Records |
| VOC (S307 only) | BAAQMD Condition 6671, Part 2 and 8-2-301 | Y | | emission streams with 15 lb/day AND 300 ppm total carbon on a dry basis prohibited | BAAQMD Condition 6671, Part 4<br><br>BAAQMD Condition 6671, Part 6 | P/D<br><br>P/A | visual inspection<br><br>source test |
| throughput (S304 only) | BAAQMD Condition 21095, Part 1 | Y | | 12,198 bbl/day (monthly average) | BAAQMD Condition 21095, Part 2 | P/D | records |
| throughput (S460 only) | BAAQMD Condition 21094, Part 1 | Y | | 35,000 bbl/day (monthly average) | BAAQMD Condition 21094, Part 2 | P/D | records |
| throughput | BAAQMD Condition 20989, Part A | Y | | S305: 9.23 E 6 bbl/yr<br>S307: 1.39 E 7 bbl/yr<br>S435: 6.6 E 6 bbl/yr<br>S436: 4.7 E 6 bbl/yr<br>S437: 10.4 E 9 ft3/yr | BAAQMD Condition 20989, Part A | P/M | records |

# VII. Applicable Limits and Compliance Monitoring Requirements

## Table VII – Na
## Applicable Limits and Compliance Monitoring Requirements
## S304 –U-229 LIGHT NAPHTHA HYDROTREATER;
## S305 – U-230 PREFRACTIONATOR / NAPHTHA HYDROTREATER;
## S307 – U-240 UNICRACKING UNIT; S309 – U-248 UNISAR UNIT;
## S318 – U-76 GASOLINE / MID-BARREL BLENDING UNIT;
## S319 – U-215 GASOLINE FRACTIONATING UNIT;
## S322 – U-40 RAW MATERIALS RECEIVING; S435 – REFORMATE SPLITTER;
## S436 – DEISOPENTANIZER; S437 – HYDROGEN PLANT;
## S460 – U-250 ULSD HYDROTREATER

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| throughput | BAAQMD Condition 20989, Part A | N | | S309: 6.6 E 8 bbl/yr<br>S318: 3.3 E 7 bbl/yr<br>S319: 3.51 E 6 bbl/yr | BAAQMD Condition 20989, Part A | P/M | records |
| throughput | BAAQMD Condition 22549, Part 1 | Y | | S318: 113,150 bbl/day (except for diesel, which does not have a daily limit) | BAAQMD Condition 22549, Part 2 | P/D | records |

## Table VII – Nb
## Applicable Limits and Compliance Monitoring Requirements
## S306 – U-231 PLATFORMING UNIT; S308 – U-244 REFORMING UNIT;

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| POC | BAAQMD 8-10-301 | Y | | abatement of emissions from process vessel depressurization is required until pressure is reduced to less than 1000 mm Hg (4.6 psig) | BAAQMD 8-10-501 & 8-10-502 | P/E | Records |

# VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – Nb**
**Applicable Limits and Compliance Monitoring Requirements**
**S306 – U-231 PLATFORMING UNIT; S308 – U-244 REFORMING UNIT;**

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| POC | SIP 8-10-301 | Y | | abatement of emissions from process vessel depressurization is required until pressure is reduced to less than 1000 mm Hg (4.6 psig) | SIP 8-10-401.2 | P/E | Records |
| TOC | 40 CFR 63.1566(a)(1)(i) or (1)(ii) as shown below | Y | | Vent to flare meeting control device requirements in 40 CFR 63.11(b) | 40 CFR 63.11(b)(5) | C | Thermo-couple to detect presence of flame |
| TOC | 40 CFR 63.1566(a)(1)(ii) or (1)(i) as shown above | Y | | 98% control of non-methane TOC by weight or concentration of 20 ppmw as hexane, dry @ 3% O2, whichever is less stringent | Monitoring to be determined during initial compliance demon-stration for chosen control and according to Tables 17 & 18 of 40 CFR 63, Subpart UUU. | TBD | TBD |

# VII. Applicable Limits and Compliance Monitoring Requirements

## Table VII – Nb
## Applicable Limits and Compliance Monitoring Requirements
## S306 – U-231 PLATFORMING UNIT; S308 – U-244 REFORMING UNIT;

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| HCl | 40 CFR 63.1567(a)(1) | Y | | 92% reduction or to concentration of 30 ppmv, dry @ 3% O2 | 40 CFR 63.1572(c)(1) and (2) or Monitoring to be determined during initial compliance demon-stration | P/E | Color-metric monitoring |
| throughput | BAAQMD Condition 20989, Part A | Y | | S306: 5.66 E 6 bbl/yr | BAAQMD Condition 20989, Part A | P/M | records |
| throughput | BAAQMD Condition 20989, Part A | N | | S308: 5.11 E 6 bbl/yr | BAAQMD Condition 20989, Part A | P/M | records |

## Table VII – O
## Applicable Limits and Compliance Monitoring Requirements
## S350 – U-267 CRUDE DISTILLATION UNIT

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| POC | BAAQMD 8-10-301 | Y | | abatement of emissions from process vessel depressurization is required until pressure is reduced to less than 1000 mm Hg (4.6 psig) | BAAQMD 8-10-501 & 8-10-502 | P/E | Records |

# VII. Applicable Limits and Compliance Monitoring Requirements

## Table VII – O
## Applicable Limits and Compliance Monitoring Requirements
## S350 – U-267 CRUDE DISTILLATION UNIT

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| POC | SIP 8-10-301 | Y | | abatement of emissions from process vessel depressurization is required until pressure is reduced to less than 1000 mm Hg (4.6 psig) | SIP 8-10-401.2 | P/E | Records |
| SO2 | BAAQMD Condition 383, Part 1a | Y | | crude oil sulfur content limit (1.5 weight%) | BAAQMD Condition 383, Part 1b | P/E | analysis |
| Through-put | BAAQMD Condition 383, Part 2 | Y | | 36,000 bbl/day | BAAQMD Condition 383, Part 3a | P/D | records |

## Table VII – P
## Applicable Limits and Compliance Monitoring Requirements
## S432 – U-215 DEISOBUTANIZER

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| POC | BAAQMD 8-10-301 | Y | | abatement of emissions from process vessel depressurization is required until pressure is reduced to less than 1000 mm Hg (4.6 psig) | BAAQMD 8-10-501 & 8-10-502 | P/E | Records |
| POC | SIP 8-10-301 | Y | | abatement of emissions from process vessel depressurization is required until pressure is reduced to less than 1000 mm Hg (4.6 psig) | SIP 8-10-401.2 | P/E | Records |

# VII. Applicable Limits and Compliance Monitoring Requirements

## Table VII – P
## Applicable Limits and Compliance Monitoring Requirements
## S432 – U-215 DEISOBUTANIZER

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| throughput | BAAQMD Condition 20989, Part A | Y | | 2.8 E 6 bbl/yr | BAAQMD Condition 20989, Part A | P/M | records |

## Table VII – Q.1
## Applicable Limits and Compliance Monitoring Requirements
## S352 - COMBUSTION TURBINE
## S353 - COMBUSTION TURBINE
## S354 - COMBUSTION TURBINE

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| NOx | BAAQMD 9-9-301.3 | Y | | 9 ppmv (note 1) @15% $O_2$ (dry) | BAAQMD 9-9-501, Condition 12122, Part 9b | C | CEM |
| NOx | 40 CFR 60.332 (a)(2) | Y | | 110 ppmv @15% $O_2$ (dry) | BAAQMD 9-9-501, Condition 12122, Part 9b | C | CEM |
| NOx | BAAQMD Condition 12122, Part 9a | Y | | 66 lb/hr and 167 ton/yr for all sources; 528 lb/day for each turbine/duct burner set | BAAQMD Condition 12122, Part 9b | C | CEM |
| NOx | BAAQMD Condition 18629, Part IX.E | Y | | 664 lb/day per turbine/duct burner set AND 83 lb/hr total or 25 ppmv at 15% O2 (3 hr average) | BAAQMD Condition 18629, Part IX.G.1.a | C | CEM |
| CO | BAAQMD Condition 12122, Part 7 | Y | | 39 ppmv @ 15% O2 | BAAQMD Condition 12122, Part 10b | C | CEM |

# VII. Applicable Limits and Compliance Monitoring Requirements

## Table VII – Q.1
## Applicable Limits and Compliance Monitoring Requirements
## S352 - COMBUSTION TURBINE
## S353 - COMBUSTION TURBINE
## S354 - COMBUSTION TURBINE

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| CO | BAAQMD Condition 12122, Part 10a | Y | | 200 ton/yr | BAAQMD Condition 12122, Part 10b | C | CEM |
| POC | BAAQMD Condition 12122, Part 8 | Y | | 6 ppmv @ 15% O2 | BAAQMD Condition 12122, Part 14 | P/A | source test |
| POC | BAAQMD Condition 12122, Part 11 | Y | | 8.3 lb/hr, 30.5 ton/yr | BAAQMD Condition 12122, Part 14 | P/A | source test |
| Opacity | BAAQMD 6-301 | Y | | Ringelmann No. 1 for no more than 3 minutes/hour | None for gaseous-fueled sources | N | None |
| FP | BAAQMD 6-305 | Y | | Prohibition of nuisance | None for gaseous-fueled sources | N | None |
| FP | BAAQMD 6-310 | Y | | 0.15 grain/dscf | None for gaseous-fueled sources | N | None |
| Through-put | BAAQMD Condition 18629, Part IX.D.2 | Y | | 466 MMbtu/hr at each turbine/duct burner set | BAAQMD Condition 18629, Part IX.D.4 | P/M | records |
| Through-put | BAAQMD Condition 18629, Part IX.D.3 | Y | | 1048 MMbtu/hr total | BAAQMD Condition 18629, Part IX.D.4 | P/M | records |
| SO2 | 40 CFR 60.333(b) | Y | | 0.8 % sulfur in fuel by weight | Condition 12122, Part 12 | P/3 times per day | TRS analysis |

# VII. Applicable Limits and Compliance Monitoring Requirements

## Table VII – Q.1
## Applicable Limits and Compliance Monitoring Requirements
## S352 - COMBUSTION TURBINE
## S353 - COMBUSTION TURBINE
## S354 - COMBUSTION TURBINE

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| SO2 | BAAQMD Condition 18629, Part IX.F | Y | | 15.6 lb/hr at each turbine/duct burner set AND 44 lb/hr total (3-hr average); 34 lb/hr total (3-hr average) for more than 36 days per year AND 153 ton/yr total | BAAQMD Condition 18629, Part IX.G.1.a | C/P | H2S CEM for fuel gas AND daily total sulfur sampling of fuel gas |
| H2S | 40 CFR 60.104(a)(1) | Y | | fuel gas H2S concentration limited to 230 mg/dscm (0.10 gr/dscf) except for gas burned as a result of process upset or gas burned at flares from relief valve leaks or other emergency malfunctions | 40 CFR 60.105(a)(4) | C | H2S analyzer |

1 BAAQMD Regulation 9-9-301.2, 9-9-301.3, 9-9-303, and 9-9-305 emission limits may be adjusted pursuant to BAAQMD Regulation 9-9-401.

## Table VII – Q.2
## Applicable Limits and Compliance Monitoring Requirements
## S355 – SUPPLEMENTAL DUCT BURNERS FOR S352
## S356 – SUPPLEMENTAL DUCT BURNERS FOR S353
## S357 – SUPPLEMENTAL DUCT BURNERS FOR S354

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

# VII. Applicable Limits and Compliance Monitoring Requirements

## Table VII – Q.2
## Applicable Limits and Compliance Monitoring Requirements
## S355 – SUPPLEMENTAL DUCT BURNERS FOR S352
## S356 – SUPPLEMENTAL DUCT BURNERS FOR S353
## S357 – SUPPLEMENTAL DUCT BURNERS FOR S354

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| NOx | BAAQMD Condition 12122, Part 9a | Y | | 66 lb/hr and 167 ton/yr for all sources; 528 lb/day for each turbine/duct burner set | BAAQMD Condition 12122, Part 9b | C | CEM |
| NOx | 40 CFR 60.44b(a)(4)(i) | Y | | 0.20 lb/MMbtu for natural gas firing only conditions | 40 CFR 60.48b(h) – Exempt from NOx CEM during natural gas firing only conditions | N | None |
| NOx | 40 CFR 60.44b(f) | Y | | 25 ppmv @ 15% O2 (3-hr average) (based on PSD Permit Condition 18629, Part IX.E) | 40 CFR 60.48b(b)(l) and BAAQMD Condition 18629, Part IX.G.1.a | C | CEM |
| NOx | BAAQMD Condition 18629, Part IX.E | Y | | 664 lb/day per turbine/duct burner set AND 83 lb/hr total or 25 ppmv at 15% O2 (3 hr average) | BAAQMD Condition 18629, Part IX.G.1.a | C | CEM |
| CO | BAAQMD Condition 12122, Part 7 | Y | | 39 ppmv @ 15% O2 | BAAQMD Condition 12122, Part 10b | C | CEM |
| CO | BAAQMD Condition 12122, Part 10a | Y | | 200 ton/yr | BAAQMD Condition 12122, Part 10b | C | CEM |

# VII. Applicable Limits and Compliance Monitoring Requirements

## Table VII – Q.2
## Applicable Limits and Compliance Monitoring Requirements
## S355 – SUPPLEMENTAL DUCT BURNERS FOR S352
## S356 – SUPPLEMENTAL DUCT BURNERS FOR S353
## S357 – SUPPLEMENTAL DUCT BURNERS FOR S354

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| POC | BAAQMD Condition 12122, Part 8 | Y | | 6 ppmv @ 15% O2 | BAAQMD Condition 12122, Part 14 | P/A | source test |
| POC | BAAQMD Condition 12122, Part 11 | Y | | 8.3 lb/hr, 30.5 ton/yr | BAAQMD Condition 12122, Part 14 | P/A | source test |
| Opacity | BAAQMD 6-301 | Y | | Ringelmann No. 1 for no more than 3 minutes/hour | None for gaseous-fueled sources | N | None |
| FP | BAAQMD 6-305 | Y | | Prohibition of nuisance | None for gaseous-fueled sources | N | None |
| FP | BAAQMD 6-310 | Y | | 0.15 grain/dscf | None for gaseous-fueled sources | N | None |
| Through-put | BAAQMD Condition 12122, Part 6 | Y | | 2.42 E 12 btu/yr at S355, S356, S357 (combined) | BAAQMD Condition 12122, Part 15 | P/D | records |
| Through-put | BAAQMD Condition 18629, Part IX.D.2 | Y | | 466 MMbtu/hr at each turbine/duct burner set | BAAQMD Condition 18629, Part IX.D.4 | P/M | records |
| Through-put | BAAQMD Condition 18629, Part IX.D.3 | Y | | 1048 MMbtu/hr total | BAAQMD Condition 18629, Part IX.D.4 | P/M | records |

# VII. Applicable Limits and Compliance Monitoring Requirements

## Table VII – Q.2
## Applicable Limits and Compliance Monitoring Requirements
## S355 – SUPPLEMENTAL DUCT BURNERS FOR S352
## S356 – SUPPLEMENTAL DUCT BURNERS FOR S353
## S357 – SUPPLEMENTAL DUCT BURNERS FOR S354

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| SO2 | BAAQMD Condition 18629, Part IX.F | Y | | 15.6 lb/hr at each turbine/duct burner set AND 44 lb/hr total (3-hr average); 34 lb/hr total (3-hr average) for more than 36 days per year AND 153 ton/yr total | BAAQMD Condition 18629, Part IX.G.1.a | C/P | H2S CEM for fuel gas AND daily total sulfur sampling of fuel gas |
| H2S | 40 CFR 60.104(a)(1) | Y | | fuel gas H2S concentration limited to 230 mg/dscm (0.10 gr/dscf) except for gas burned as a result of process upset or gas burned at flares from relief valve leaks or other emergency malfunctions | 40 CFR 60.105(a)(4) | C | H2S analyzer |

## Table VII - R
## Applicable Limits and Compliance Monitoring Requirements
## S376 - TOOL ROOM COLD CLEANER
## S377 – MACHINE SHOP COLD CLEANER
## S378 – AUTO SHOP COLD CLEANER

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| POC | BAAQMD Condition 16677, Part 1 | Y | | 150 gal/yr of citrus-based solvents, or equivalent amount as allowed in Part 2 | BAAQMD Condition 16677, Part 3a | P/M | usage records |

# VII. Applicable Limits and Compliance Monitoring Requirements

# VII. Applicable Limits and Compliance Monitoring Requirements

## Table VII – S
## Applicable Limits and Compliance Monitoring Requirements
## S425 – MARINE LOADING BERTH M1
## S426 – MARINE LOADING BERTH M2

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| POC | BAAQMD 8-44-304.1 | N | | POC Emission ≤ 5.7 grams per cubic meter (2 lb/1000 barrel) loaded, or | BAAQMD Condition 4336, Part 1 | C | A420 temperature |
| POC | BAAQMD 8-44-304.1 | N | | Controlled ≥ 95% weight | BAAQMD Condition 4336, Part 1 | C | A420 temperature |
| POC | SIP 8-44-301.1 | Y | | POC Emission ≤ 5.7 grams per cubic meter (2 lb/1000 barrel) loaded, or | BAAQMD Condition 4336, Part 1 | C | A420 temperature |
| POC | SIP 8-44-301.2 | Y | | Controlled ≥ 95% weight | BAAQMD Condition 4336, Part 1 | C | A420 temperature |
| POC | BAAQMD Condition 4336, Part 9 | Y | | Controlled ≥ 98.5% weight | BAAQMD Condition 4336, Part 1 | C | A420 temperature |
| POC | BAAQMD 8-44-305.2 | N | | Vessels hatches, P/V valves, connections, gauging ports and vents, and other equipment up to and including first connection<br>< 3 drops/minute for liquid leak;<br>< 10,000 ppm for gaseous leak | BAAQMD 8-44-305.3 & 8-44-603 | P/E (after 1/1/07, during every operation) | inspection with portable VOC monitor |

# VII. Applicable Limits and Compliance Monitoring Requirements

## Table VII – S
## Applicable Limits and Compliance Monitoring Requirements
## S425 – MARINE LOADING BERTH M1
## S426 – MARINE LOADING BERTH M2

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| POC | SIP 8-44-303 | Y | | Leak free and gas tight | Equipment leak inspections as specified in BAAQMD Regulation 8, Rule 18 | P/Q | inspection with portable VOC monitor |
| POC | BAAQMD Condition 4336, Part 1 | Y | | 1300 degrees F minimum temperature during startup not to exceed 15 minutes, 1400 degrees F minimum temperature after startup | BAAQMD Condition 4336, Part 2b | C | A420 temperature |
| POC | BAAQMD Condition 4336, Part 5 | Y | | maximum loading pressure relative to lowest relief valve setting (80%) | BAAQMD Condition 4336, Part 2a | C | loading pressure |
| POC | BAAQMD Condition 4336, Part 6a | Y | | 25,000 bbl/day of gasoline, naphtha and C5/C6 compounds, annual average basis | BAAQMD Condition 4336, Part 8 | P/D | loading records |
| POC | BAAQMD Condition 4336, Part 6b | Y | | 20,000 bbl/hr of gasoline, naphtha and C5/C6 compounds | BAAQMD Condition 4336, Part 8 | P/D | loading records |

# VII. Applicable Limits and Compliance Monitoring Requirements

## Table VII – S
## Applicable Limits and Compliance Monitoring Requirements
## S425 – MARINE LOADING BERTH M1
## S426 – MARINE LOADING BERTH M2

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| H2S | 40 CFR 60 Subpart J 60.104(a) (1) | Y | | fuel gas H2S concentration limited to 230 mg/dscm (0.10 gr/dscf) except for gas burned as a result of process upset or gas burned at flares from relief valve leaks or other emergency malfunctions; this requirement applies to sources installed/modified after 6/11/73 and burning refinery gas | 40 CFR 60.13(i); BAAQMD Condition 4336, part 11 | P/E | Detector tube analysis |
| Through-put | BAAQMD Condition 4336, Part 7 | Y | | 30,000 bbl/day of crude oil received on an annual average basis | BAAQMD Condition 4336, Part 8 | P/D | loading records |

## Table VII – T
## Applicable Limits and Compliance Monitoring Requirements
## S450 – GROUNDWATER EXTRACTION TRENCHES

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| None | | | | | | | |

# VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – U**
**Applicable Limits and Compliance Monitoring Requirements**
**S1001 - SULFUR PLANT UNIT 234; S1002 - SULFUR PLANT UNIT 236; S1003 - SULFUR PLANT UNIT 238; S301 - MOLTEN SULFUR PIT 234; S302 - MOLTEN SULFUR PIT 236; S303 - MOLTEN SULFUR PIT 238**

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| (H2S, ammonia) | BAAQMD 9-1-313.2 and SIP 9-1-313.2 | N<br>Y | | 95% of H2S in refinery fuel gas is removed and recovered on a refinery-wide basis AND 95% of H2S in process water streams is removed and recovered on a refinery-wide basis AND 95% of ammonia in process water streams is removed | None | N | None |
| Opacity | BAAQMD 6-301 | Y | | Ringelmann No. 1 for no more than 3 minutes/hour | BAAQMD Condition 19278 Part 4 | Y | Visible emissions inspection |
| FP | BAAQMD 6-305 | Y | | Prohibition of nuisance | BAAQMD Condition 19278 Part 5 | Y/annual or every 5 years | Source test on thermal oxidizer stack |
| **FP** | BAAQMD 6-310 | Y | | 0.15 grain/dscf | BAAQMD Condition 19278 Part 5 | Y/annual or every 5 years | Source test on thermal oxidizer stack |
| FP | BAAQMD 6-311 | Y | After turn-around | $4.10P^{0.67}$ lb/hr, where P is process weight, ton/hr | BAAQMD Condition 19278 Part 5 | Y/annual or every 5 years | Source test on thermal oxidizer stack |
| SO2 | 40 CFR 60.104(a)(2) | Y | | 250 ppm at 0% excess air, 12-hr rolling average | 40 CFR 60.105(a)(5) | C | CEM on thermal oxidizer stack |

# VII. Applicable Limits and Compliance Monitoring Requirements

## Table VII – U
## Applicable Limits and Compliance Monitoring Requirements
## S1001 - SULFUR PLANT UNIT 234; S1002 - SULFUR PLANT UNIT 236; S1003 - SULFUR PLANT UNIT 238; S301 - MOLTEN SULFUR PIT 234; S302 - MOLTEN SULFUR PIT 236; S303 - MOLTEN SULFUR PIT 238

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| SO2 | 40 CFR 63.1568(a)(1)(i) | Y | | 250 ppm at 0% excess air, 12-hr rolling average | 40 CFR 63.1572 | C | CEM on thermal oxidizer stack |
| SO3, H2SO4 | BAAQMD 6-330 | Y | | 0.08 grain/dscf exhaust concentration of SO3 and H2SO4, expressed as 100% H2SO4 | BAAQMD Condition 19278 Part 3 | P/A | Source test on thermal oxidizer stack |
| throughput | BAAQMD Condition 19278, , part 6 | Y | | 98,915 long ton/yr for S1001, S1002, S1003, S301, S302, S303 | BAAQMD Condition 19278, Part 6 | P/M | records |

## Table VII – V
## Applicable Limits and Compliance Monitoring Requirements
## S370 – ISOMERIZATION UNIT 228

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| POC | BAAQMD 8-10-301 | Y | | abatement of emissions from process vessel depressurization is required until pressure is reduced to less than 1000 mm Hg (4.6 psig) | BAAQMD 8-10-501 & 8-10-502 | P/E | Records |
| POC | SIP 8-10-301 | Y | | abatement of emissions from process vessel depressurization is required until pressure is reduced to less than 1000 mm Hg (4.6 psig) | SIP 8-10-401.2 | P/E | Records |

# VII. Applicable Limits and Compliance Monitoring Requirements

## Table VII – V
## Applicable Limits and Compliance Monitoring Requirements
## S370 – ISOMERIZATION UNIT 228

| 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 Condition 12121, Part 1 | Y | | daily feed rate limit (11,040 bbl/day) | BAAQMD Condition 12121, Part 2 | P/D | records |
| throughput | BAAQMD Condition 20989, Part A | Y | | 4.03 E 6 bbl/yr | BAAQMD Condition 20989, Part A | P/M | records |

## Table VII – W
## Applicable Limits and Compliance Monitoring Requirements
## S380 – ACTIVATED CARBON SILO (P-204)

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| Opacity | BAAQMD 6-301 | Y | | Ringelmann No. less than 1 for more than 3 minutes/hr | BAAQMD Condition 18251, Part 2b | P/Q | Pressure Drop |
| FP | BAAQMD 6-305 | Y | | Prohibition of nuisance | BAAQMD Condition 18251, Part 2b | P/Q | Pressure Drop |
| FP | BAAQMD 6-310 | Y | | No emissions from source > 0.15 grains per dscf of gas volume | BAAQMD Condition 18251, Part 2b | P/Q | Pressure Drop |
| FP | BAAQMD 6-311 | Y | | No emissions from source > rate specified in rule | BAAQMD Condition 18251, Part 2b | P/Q | Pressure Drop |
| throughput | BAAQMD Condition 20989, Part A | Y | | 3,942 ton/yr | BAAQMD Condition 20989, Part A | P/M | records |

# VII. Applicable Limits and Compliance Monitoring Requirements

## Table VII - X
## Applicable Limits and Compliance Monitoring Requirements
## S389 – DIATOMACEOUS EARTH SILO (F-214)

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| Opacity | BAAQMD 6-301 | Y | | Ringelmann No. less than 1 for more than 3 minutes/hr | BAAQMD Condition 18251, Part 2c | P/E (baghouse operation) | Pressure Drop |
| FP | BAAQMD 6-305 | Y | | Prohibition of nuisance | BAAQMD Condition 18251, Part 2c | P/E (baghouse operation) | Pressure Drop |
| FP | BAAQMD 6-310 | Y | | No emissions from source > 0.15 grains per dscf of gas volume | BAAQMD Condition 18251, Part 2c | P/E (baghouse operation) | Pressure Drop |
| FP | BAAQMD 6-311 | Y | | No emissions from source > rate specified in rule | BAAQMD Condition 18251, Part 2c | P/E (baghouse operation) | Pressure Drop |
| throughput | BAAQMD Condition 20989, Part A | Y | | 1,840 ton/yr | BAAQMD Condition 20989, Part A | P/M | records |

## Table VII – Y
## Applicable Limits and Compliance Monitoring Requirements
## S462 – U-215 FUEL GAS CAUSTIC TREATMENT SYSTEM
## S463 – U-215 BUTANE CAUSTIC TREATMENT SYSTEM

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| throughput | BAAQMD Condition 20989, Part A | Y | startup | S462: 1.533 E 9 ft3/yr<br>S463: .365,000 bbl/yr | BAAQMD Condition 20989, Part A | P/M | records |

# VII. Applicable Limits and Compliance Monitoring Requirements

## Table VII – AB
## Applicable Limits and Compliance Monitoring Requirements
### COMPONENTS

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| POC | BAAQMD 8-18-301 | Y | | General equipment leak ≤ 100 ppm | BAAQMD 8-18-401.2 | P/Q | Inspection |
| POC | BAAQMD 8-18-302 | Y | | Valve leak ≤ 100 ppm | BAAQMD 8-18-401.2 | P/Q | Inspection |
| POC | BAAQMD 8-18-303 | Y | | Pump and compressor leak ≤ 500 ppm | BAAQMD 8-18-401.2 | P/Q | Inspection |
| POC | BAAQMD 8-18-304 | Y | | Connection leak ≤ 100 ppm | BAAQMD 8-18-401.2e | P/Q | Inspection |
| POC | BAAQMD 8-18-305 | Y | | Pressure relief valve leak ≤ 500 ppm | BAAQMD 8-18-401.2 | P/Q | Inspection |
| POC | BAAQMD 8-18-306.1 | Y | | Valve, pressure relief, pump or compressor must be repaired within 5 years or at the next scheduled turnaround | BAAQMD 8-18-502.4 | P/quarterly | report |
| POC | BAAQMD 8-18-306.2 | Y | | Awaiting repair<br>Valves ≤ 0.5%<br>Pressure Relief ≤ 1%<br>Pump and Connector ≤ 1% | BAAQMD 8-18-401.5 | P/within 24 hours | Inspection |
| POC | BAAQMD 8-18-306.3.2 | Y | | Mass emissions & non-repairable equipment allowed<br>Valve ≤ 0.1 lb/day & ≤1.0%<br>Pressure Relief ≤ 0.2 lb/day & ≤ 5%<br>Pump and Connector ≤ 0.2 lb/day & ≤ 5% | BAAQMD 8-18-401.3 | P/D | Inspection |
| POC | BAAQMD 8-18-306.3.3 | Y | | Total valve, pressure relief, pump or compressor leaks ≥ 15 lb/day, they must be repaired within 7 days | BAAQMD 8-18-502.4 | P/Q | sampling or equivalent |

# VII. Applicable Limits and Compliance Monitoring Requirements

## Table VII – AB
## Applicable Limits and Compliance Monitoring Requirements
### COMPONENTS

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| POC | BAAQMD 8-28-303 | Y | | Vent Pressure Relief Devices to an Abatement Device with at least 95% by weight control efficiency or Meet Prevention Measures Procedures | BAAQMD 8-28-405 | P/turn-around | None |
| POC | BAAQMD 8-28-304 | Y | | PHA within 90 days and meet Prevention Measures Procedures. After 2nd release Vent Pressure Relief Devices to an Abatement Device with at least 95% by weight control efficiency. | BAAQMD 8-28-405 | P/release per 5 calendar year | None |
| **60; Subpart VV** | | | | | | | |
| POC | 40 CFR 60.482-2 (b)(1) | Y | | Pump leak: 10,000 ppm | 40 CFR 60.482-2 (a)(1) | P/M | Measure for leaks |
| POC | 40 CFR 60.482-2 (b)(2) | Y | | Pump leak Indicated by dripping liquid | 40 CFR 60.482-2 (a)(2) | P/W | Visual Inspection |
| POC | 40 CFR 60.482-2(e) | Y | | Designated "No detectable emissions": 500 ppm | 40 CFR 60.482-2(e)(3) | P/A | Measure for leaks |
| POC | 40 CFR 60.482-8 (b) | Y | | Pump leak : 10,000 ppm | 40 CFR 60.482-8 (a) | P/5 days | Visual, audible, olfactory Inspection; Measure for leaks |
| POC | 40 CFR 60.482-4(b) | Y | | Pressure relief valve (gas/vapor) leak: 500 ppm within 5 days after a pressure release event | 40 CFR 60.482-4(b) | P/E | Measure for leaks within 5 days after release |
| POC | 40 CFR 60.482-7(b) | Y | | Valve leak: 10,000 ppm | 40 CFR 60.482-7(a) | P/M | Measure for leaks |

# VII. Applicable Limits and Compliance Monitoring Requirements

## Table VII – AB
## Applicable Limits and Compliance Monitoring Requirements
### COMPONENTS

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| POC | 40 CFR 60.482-7(b) | Y | | Valve leak: 10,000 ppm; 2 successive months w/o leaking | 40 CFR 60.482-7(c) | P/Q | Measure for leaks |
| POC | 40 CFR 60.482-7(f) | Y | | Designated "No detectable emissions": 500 ppm | 40 CFR 60.482-7 (f)(3) | P/A | Measure for leaks |
| POC | 40 CFR 60.482-8(a) | Y | | Pumps and valves in heavy liquid service, Pressure Relief devices (light or heavy liquid), Flanges, Connectors leak shall be measured for leak in 5 days if detected by inspection | 40 CFR 60.482-8(a) | P/E | Visible, Audible, or olfactory Inspection |
| POC | 40 CFR 60.482-8(b) | Y | | Pressure Relief devices (liquid), Flanges, Connectors leak: 10,000 ppm | 40 CFR 60.482-8(a) | P/E | Measure for leaks |
| POC | 40 CFR 60.483 and<br><br>BAAQMD 8-18-404.1 | Y | | Individual valve that measures <100 ppm for 5 consecutive quarters may be monitored annually, if in a process unit with 5 consecutive quarters <2% valves leaking: 10,000 ppm. | same as limit | P/Q<br><br>P/A | Measure for leaks |
| **61; Subpart FF** | | | | | | | |
| POC | 40 CFR 61.342 (a) | Y | | Exemption for facilities with less than 10 Mg/yr of benzene in waste | 40 CFR 61.357 (c) | P/A | report |

# VII. Applicable Limits and Compliance Monitoring Requirements

## Table VII – BB.1
## Applicable Limits and Compliance Monitoring Requirements
## NSPS Kb Low Vapor Pressure Permitted Wastewater Sludge Tanks with Vapor Recovery to Fuel Gas
## S433 (F224 - MOSC)

| Type of Limit | Emission Limit Citation | FE Y/N | Future Effective Date | Emission Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| | **BAAQMD Regulation 8, Rule 5 - Organic Compounds - STORAGE OF ORGANIC LIQUIDS Exempt per 8-5-117. Low vapor pressure** | | | | | | |
| POC | BAAQMD 8-5-117 & Condition 20773, Part 1 | Y | | Exemption from Regulation 8-5 when true vapor pressure is less than 25.8 mm Hg (0.5 psia). | BAAQMD 2-6-409.2 & Condition 20773, Part 2 | P/E | Vapor pressure determination upon material change |
| | **BAAQMD 8, Rule 8 – Organic Compounds – Wastewater (Oil Water Separators)** | | | | | | |
| VOC | BAAQMD 8-8-303 | Y | | Vapor tight gauging and sampling devices | BAAQMD 8-8-504 8-8-603 | N | Portable hydrocarbon detector |
| VOC | BAAQMD 8-8-304 | Y | | Combined collection/destruction efficiency of 95% by weight. | BAAQMD 8-8-602 | N | Source test or EPA Method 25 or 25A |
| **NONE** | **40 CFR 63, Subpart CC – NESHAPS for Petroleum Refineries Exempt per 63.640(d)(5). Emission point routed to fuel gas system.** | | | | | | |
| | **40 CFR 60, Subpart QQQ – VOC Emissions from Petroleum Refinery Wastewater Systems** | | | | | | |
| VOC | 40 CFR 60.692-3(a) | Y | | Fixed roof closure standards | 40 CFR 60.692-3(a)(4) | periodic initially and semi-annually | Visual inspection |
| VOC | | Y | | Problems identified during 60.692-3(a) inspections that could result in VOC emissions | 40 CFR 60.697(c) | periodic when problem is identified | Records |
| VOC | | Y | | Problems identified during 60.692-3(a) inspections that could result in VOC emissions | 40 CFR 60.698(c) | periodic initially and semi-annually | Report |

# VII. Applicable Limits and Compliance Monitoring Requirements

## Table VII – BB.1
## Applicable Limits and Compliance Monitoring Requirements
## NSPS Kb Low Vapor Pressure Permitted Wastewater Sludge Tanks with Vapor Recovery to Fuel Gas
## S433 (F224 - MOSC)

| Type of Limit | Emission Limit Citation | FE Y/N | Future Effective Date | Emission Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| | **40 CFR 60, Subpart Kb – NSPS for VOL Storage Vessels MONITORING FOR RECORDKEEPING ONLY** | | | | | | |
| VOC | 40 CFR 60.110b(c) | Y | | True vapor pressure less than 3.5 kPa. | 40 CFR 60.116b (b) | periodic initially and upon change of service | Record |
| | **BAAQMD PERMIT CONDITIONS** | | | | | | |
| throughput | BAAQMD Condition 7353, Part 4 | Y | | 138,700 bbl/yr | BAAQMD Condition 7353, Part 5 | P/W | records |

## Table VII – BB.2
## Applicable Limits and Compliance Monitoring Requirements
## Low Vapor Pressure Permitted Tanks
## Subject to MACT Recordkeeping
## S118 (Tank 163 )

| Type of Limit | Emission Limit Citation | FE Y/N | Future Effective Date | Emission Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| | **BAAQMD Regulation 8, Rule 5 - Organic Compounds - STORAGE OF ORGANIC LIQUIDS Exempt per 8-5-117. Low vapor pressure** | | | | | | |
| POC | BAAQMD 8-5-117 & Condition 20773, Part 1 | Y | | Exemption from Regulation 8-5 when true vapor pressure is less than 25.8 mm Hg (0.5 psia). | BAAQMD 2-6-409.2 & Condition 20773, Part 2 | P/E | Vapor pressure determination upon material change |
| | **40 CFR 63, Subpart CC – NESHAP for Petroleum Refineries MONITORING FOR RECORDKEEPING ONLY** | | | | | | |
| HAP | 40 CFR 63.641 | Y | | Retain weight percent total organic HAP in stored liquid for Group 2 determination. | 40 CFR 63.654(i)(1)(iv) | periodic initially and upon change in service | Records |
| | **BAAQMD PERMIT CONDITIONS** | | | | | | |

# VII. Applicable Limits and Compliance Monitoring Requirements

## Table VII – BB.2
## Applicable Limits and Compliance Monitoring Requirements
## LOW VAPOR PRESSURE PERMITTED TANKS
## SUBJECT TO MACT RECORDKEEPING
## S118 (TANK 163 )

| Type of Limit | Emission Limit Citation | FE Y/N | Future Effective Date | Emission Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| throughput | BAAQMD Condition 20989, Part A | N | | 15,000 bbl/yr | BAAQMD Condition 20989, Part A | P/M | Records |

## Table VII – BB.3
## Applicable Limits and Compliance Monitoring Requirements
## LOW VAPOR PRESSURE PERMITTED TANKS < 10,000 GALLONS
## S117 (TANK 162), S193 (TANK 305), S194 (TANK 306)

| Type of Limit | Emission Limit Citation | FE Y/N | Future Effective Date | Emission Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| | **BAAQMD Regulation 8, Rule 5 - Organic Compounds - STORAGE OF ORGANIC LIQUIDS Exempt per 8-5-117. Low vapor pressure** | | | | | | |
| POC | BAAQMD 8-5-117 & Condition 20773, Part 1 | Y | | Exemption from Regulation 8, Rule 5 when true vapor pressure is less than 25.8 mm Hg (0.5 psia). | BAAQMD 2-6-409.2 & Condition 20773, Part 2 | P/E | Vapor pressure determination upon material change |
| **NONE** | **40 CFR 63, Subpart CC – NESHAPS for Petroleum Refineries Exempt per 63.641 storage vessel definition. Size less than or equal to 10,000 gallons.** | | | | | | |
| | **BAAQMD PERMIT CONDITIONS** | | | | | | |
| throughput | BAAQMD Condition 20989, Part A | N | | S117: 8.76 E 5 bbl/yr<br>S193: 100 bbl/yr<br>S194: 100 bbl/yr | BAAQMD Condition 20989, Part A | P/M | Records |

# VII. Applicable Limits and Compliance Monitoring Requirements

## Table VII – BB.4
## Applicable Limits and Compliance Monitoring Requirements
## LOW VAPOR PRESSURE PERMITTED TANKS
## VENTED TO FUEL GAS
## S238 (TANK 211), S239 (TANK 212)

| Type of Limit | Emission Limit Citation | FE Y/N | Future Effective Date | Emission Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| | **BAAQMD Regulation 8, Rule 5 - Organic Compounds - STORAGE OF ORGANIC LIQUIDS**<br>**Exempt per 8-5-117. Low vapor pressure** | | | | | | |
| POC | BAAQMD 8-5-117 & Condition 20773, Part 1 | Y | | Exemption from Regulation 8, Rule 5 when true vapor pressure is less than 25.8 mm Hg (0.5 psia). | BAAQMD 2-6-409.2 & Condition 20773, Part 2 | P/E | Vapor pressure determination upon material change |
| **NONE** | **63 Subpart CC – NESHAPS for Petroleum Refineries**<br>**Exempt per 63.640(d)(5). Emission point routed to fuel gas system.** | | | | | | |
| | **BAAQMD PERMIT CONDITIONS** | | | | | | |
| throughput | BAAQMD Condition 20989, Part A | N | | S238: 1.0 E 6 bbl/yr<br>S239: 8.76 E 6 bbl/yr | BAAQMD Condition 20989, Part A | P/M | Records |

## Table VII – BB.5
## Applicable Limits and Compliance Monitoring Requirements
## NSPS KB LOW VAPOR PRESSURE PERMITTED WASTEWATER SLUDGE TANKS
## S195 (TANK 501), S196 (TANK 502), S388 (TANK 276/F205)

| Type of Limit | Emission Limit Citation | FE Y/N | Future Effective Date | Emission Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| | **BAAQMD Regulation 8, Rule 5 - Organic Compounds - STORAGE OF ORGANIC LIQUIDS**<br>**Exempt per 8-5-117. Low vapor pressure** | | | | | | |
| POC | BAAQMD 8-5-117 & Condition 20773, Part 1 | Y | | Exemption from Regulation 8, Rule 5 when true vapor pressure is less than 25.8 mm Hg (0.5 psia). | BAAQMD 2-6-409.2 & Condition 20773, Part 2 | P/E | Vapor pressure determination upon material change |
| | **BAAQMD 8, Rule 8 – Organic Compounds – Wastewater (Oil Water Separators)** | | | | | | |
| VOC | BAAQMD 8-8-303 | Y | | Vapor tight gauging and sampling devices | BAAQMD 8-8-504 8-8-603 | N | Portable hydrocarbon detector |

# VII. Applicable Limits and Compliance Monitoring Requirements

## Table VII – BB.5
## Applicable Limits and Compliance Monitoring Requirements
## NSPS Kb Low Vapor Pressure Permitted Wastewater Sludge Tanks
## S195 (Tank 501), S196 (Tank 502), S388 (Tank 276/F205)

| Type of Limit | Emission Limit Citation | FE Y/N | Future Effective Date | Emission Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| VOC | BAAQMD 8-8-305.1 | Y | | Slop oil tank vessel roof criteria; includes gap criteria | BAAQMD 8-8-305.1 | periodic initially & semi-annually | visual inspection |
| | **40 CFR 60, Subpart Kb - NSPS for VOL Storage Vessels at Petroleum Refineries**<br>**40 CFR 63, Subpart CC – National Emission Standards for Hazardous Air Pollutants for Petroleum Refineries**<br>**RECORDKEEPING ONLY** | | | | | | |
| Vapor pressure | 40 CFR 63.640(n)(1) 60.110b(c) | Y | | True vapor pressure less than 3.5 kPa. | 40 CFR 63.640(n)(8) 60.116b(b) | P/E | Record |
| Vapor pressure | | Y | | TVP exceedances (> 5.2 kPa). | 40 CFR 63.640(n)(8) 60.116b(d) | periodic within 30 days of exceedance | Notification |
| | **40 CFR 60, Subpart QQQ – VOC Emissions from Petroleum Refinery Wastewater Systems** | | | | | | |
| VOC | 40 CFR 60.692-3(a) | Y | | Fixed roof closure standards | 40 CFR 60.692-3(a)(4) | periodic initially and semi-annually | Visual inspection |
| VOC | | Y | | Problems identified during 60.692-3(a) inspections that could result in VOC emissions | 40 CFR 60.697(c) | periodic when problem is identified | Records |
| VOC | | Y | | Problems identified during 60.692-3(a) inspections that could result in VOC emissions | 40 CFR 60.698(c) | periodic initially and semi-annually | Report |
| | **BAAQMD PERMIT CONDITIONS** | | | | | | |
| throughput | BAAQMD Condition 20989, Part A | Y | | S195, S196, S388: 525,600 bbl/yr | BAAQMD Condition 20989, Part A | P/M | Records |

# VII. Applicable Limits and Compliance Monitoring Requirements

## Table VII – BB.6
## Applicable Limits and Compliance Monitoring Requirements
## MACT (SMALL) ZERO GAP EXTERNAL FLOATING ROOF TANK
## S121 (TANK 166)

| Type of Limit | Emission Limit Citation | FE Y/N | Future Effective Date | Emission Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| | **BAAQMD Regulation 8, Rule 5, Organic Compounds - STORAGE OF ORGANIC LIQUIDS LIMITS AND MONITORING FOR EXTERNAL FLOATING-ROOF TANKS** | | | | | | |
| VOC | BAAQMD 8-5-301 | Y | | Record of liquids stored and true vapor pressure | BAAQMD 8-5-501.1 | periodic initially and upon change of service | Records |
| VOC | BAAQMD 8-5-320 | Y | | Floating roof fitting closure standards; includes gasketed covers | BAAQMD 8-5-401.2 | P/SA | Measurement and visual inspection |
| VOC | BAAQMD 8-5-321 | Y | | Primary rim-seal standards; includes gap criteria | BAAQMD 8-5-401.1 | P/SA and every time a seal is replaced | Seal inspection |
| VOC | BAAQMD 8-5-322 | Y | | Secondary rim-seal standards; includes gap criteria | BAAQMD 8-5-401.1 | P/SA and every time a seal is replaced | Seal inspection |
| VOC | BAAQMD 8-5-328.1.2 | Y | | Concentration of < 10,000 ppm as methane after degassing | BAAQMD 8-5-503 | periodic each time emptied & degassed | Portable hydrocarbon detector |
| VOC | | Y | | Certification reports on tank inspections and source tests | BAAQMD 8-5-404 8-5-405 | periodic after each tank inspection and source test | Certification Report |
| VOC | | Y | | Records of tank seal replacement | BAAQMD 8-5-501.2 | periodic after each tank seal replacement | Records |
| VOC | | Y | | Determination of applicability | BAAQMD 8-5-604 | P/E | look-up table or sample analysis |

# VII. Applicable Limits and Compliance Monitoring Requirements

## Table VII – BB.6
## Applicable Limits and Compliance Monitoring Requirements
## MACT (SMALL) ZERO GAP EXTERNAL FLOATING ROOF TANK
## S121 (TANK 166)

| Type of Limit | Emission Limit Citation | FE Y/N | Future Effective Date | Emission Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| | **40 CFR 63 Subpart CC – NESHAPS for Petroleum Refineries MONITORING FOR RECORDKEEPING ONLY** | | | | | | |
| HAP | 40 CFR 63.641 | Y | | Retain weight percent total organic HAP in stored liquid for Group 2 determination. | 40 CFR 63.654(i)(1)(iv) | periodic initially and upon change in service | Records |
| | **BAAQMD PERMIT CONDITIONS** | | | | | | |
| throughput | BAAQMD Condition 20989, Part A | N | | 3.52 E 4 bbl/yr | BAAQMD Condition 20989, Part A | P/M | records |

# VII. Applicable Limits and Compliance Monitoring Requirements

## Table VII – BB.7
## Applicable Limits and Compliance Monitoring Requirements
### NSPS Kb Zero gap External Floating Roof Tanks
### S439 (Tank 109), S440 (Tank 110), S442 (Tank 112), S444 (Tank 243), S451 (Tank 695)

| Type of Limit | Emission Limit Citation | FE Y/N | Future Effective Date | Emission Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| | **BAAQMD Regulation 8, Rule 5, Organic Compounds - STORAGE OF ORGANIC LIQUIDS LIMITS AND MONITORING FOR EXTERNAL FLOATING-ROOF TANKS** | | | | | | |
| VOC | BAAQMD 8-5-301 | Y | | Record of liquids stored and true vapor pressure | BAAQMD 8-5-501.1 | periodic initially and upon change of service | records |
| VOC | BAAQMD 8-5-320 | Y | | Floating roof fitting closure standards; includes gasketed covers | BAAQMD 8-5-401.2 | P/SA | Measurement and visual inspection |
| VOC | BAAQMD 8-5-321 | Y | | Primary rim-seal standards; includes gap criteria | BAAQMD 8-5-401.1 | P/SA and every time a seal is replaced | Seal inspection |
| VOC | BAAQMD 8-5-322 | Y | | Secondary rim-seal standards; includes gap criteria | BAAQMD 8-5-401.1 | P/SA and every time a seal is replaced | Seal inspection |
| VOC | BAAQMD 8-5-328.1.2 | Y | | Concentration of < 10,000 ppm as methane after degassing | BAAQMD 8-5-503 | periodic each time emptied & degassed | Portable hydrocarbon detector |
| VOC | | Y | | Certification reports on tank inspections and source tests | BAAQMD 8-5-404 8-5-405 | periodic after each tank inspection and source test | Certification report |
| VOC | | Y | | Records of tank seal replacement | BAAQMD 8-5-501.2 | periodic after each tank seal replacement | records |
| VOC | | Y | | Determination of applicability | BAAQMD 8-5-604 | P/E | look-up table or sample analysis |

# VII. Applicable Limits and Compliance Monitoring Requirements

## Table VII – BB.7
## Applicable Limits and Compliance Monitoring Requirements
## NSPS Kb Zero gap External Floating Roof Tanks
## S439 (Tank 109), S440 (Tank 110), S442 (Tank 112), S444 (Tank 243), S451 (Tank 695)

| Type of Limit | Emission Limit Citation | FE Y/N | Future Effective Date | Emission Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| | **40 CFR 60, Subpart Kb – NSPS for VOL Storage Vessels**<br>**40 CFR 63, Subpart CC – NESHAPS for Petroleum Refineries**<br>**LIMITS AND MONITORING FOR EXTERNAL FLOATING ROOF TANKS** | | | | | | |
| VOC | 40 CFR 63.640 (n)(1), 60.112b (a)(2)(ii) | Y | | Deck fitting closure standards; includes gasketed covers | 40 CFR 63.640(n)(8), 60.113b (b)(6) | periodic initially & each time emptied & degassed | visual inspection |
| VOC | 40 CFR 63.640 (n)(1), 60.113b (b)(4)(i) | Y | | Primary rim-seal standards; includes gap criteria | 40 CFR 63.640(n)(8), 60.113b (b)(1)-(b)(3) | periodic initially & at 5 yr intervals | measurement and visual inspection |
| VOC | 40 CFR 63.640 (n)(1), 60.113b (b)(4)(ii) | Y | | Secondary rim-seal standards; includes gap criteria | 40 CFR 63.640(n)(8), 60.113b (b)(1)-(b)(3) | periodic initially & annually | measurement and visual inspection |
| VOC | 40 CFR 63.640 (n)(1), 60.116b (c) | Y | | Record of liquid stored and rue vapor pressure | 40 CFR 63.640(n)(8), 60.116b (c) & (e) | periodic upon change of service | Records |
| VOC | | Y | | Seal inspection records for report in 60.115b(b)(2) | 40 CFR 63.640(n)(8), 60.115b(b)(3) | periodic For each gap measurement | Records |
| VOC | | Y | | Inspection report for seal gap measurements | 40 CFR 63.640(n)(8), 60.115b(b)(2) | periodic Within 60 days of seal gap measurement | Report |
| VOC | | Y | | Inspection report for non-compliant seals | 40 CFR 63.640(n)(8), 60.115b(b)(4) | periodic Within 30 days of seal inspection | Report |

# VII. Applicable Limits and Compliance Monitoring Requirements

## Table VII – BB.7
## Applicable Limits and Compliance Monitoring Requirements
## NSPS Kb Zero gap External Floating Roof Tanks
## S439 (Tank 109), S440 (Tank 110), S442 (Tank 112), S444 (Tank 243), S451 (Tank 695)

| Type of Limit | Emission Limit Citation | FE Y/N | Future Effective Date | Emission Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| | **BAAQMD PERMIT CONDITIONS** | | | | | | |
| **The following applies to S439 only** | | | | | | | |
| throughput | BAAQMD Condition 12124, Part 1 | Y | | 3,650,000 bbl/yr | BAAQMD Condition 12124, Part 3 | P/M | records |
| **The following applies to S440 only** | | | | | | | |
| throughput | BAAQMD Condition 12125, Part 1 | Y | | 3,600,000 bbl/yr | BAAQMD Condition 12125, Part 3 | P/M | records |
| **The following applies to S442 only** | | | | | | | |
| throughput | BAAQMD Condition 12127, Part 1 | Y | | 2,740,000 bbl/yr | BAAQMD Condition 12127, Part 3 | P/M | records |
| **The following applies to S444 only** | | | | | | | |
| throughput | BAAQMD Condition 12129, Part 1 | Y | | 4,380,000 bbl/yr | BAAQMD Condition 12129, Part 3 | P/M | records |
| **The following applies to S451 only** | | | | | | | |
| throughput | BAAQMD Condition 19476, Part 1 | Y | | 11,000,000 bbl/yr | BAAQMD Condition 19476, Part 3 | P/M | Records |

# VII. Applicable Limits and Compliance Monitoring Requirements

## Table VII – BB.8
## Applicable Limits and Compliance Monitoring Requirements
## NSPS Kb Zero gap External Floating Roof Stormwater Equalization Tanks S101 (Tank 104), S102 (Tank 105), S106 (Tank 130)

| Type of Limit | Emission Limit Citation | FE Y/N | Future Effective Date | Emission Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| | **BAAQMD Regulation 8, Rule 5, Organic Compounds - STORAGE OF ORGANIC LIQUIDS LIMITS AND MONITORING FOR EXTERNAL FLOATING-ROOF TANKS** | | | | | | |
| VOC | BAAQMD 8-5-301 | Y | | Record of liquids stored and true vapor pressure | BAAQMD 8-5-501.1 | periodic initially and upon change of service | records |
| VOC | BAAQMD 8-5-320 | Y | | Floating roof fitting closure standards; includes gasketed covers | BAAQMD 8-5-401.2 | P/SA | Measurement and visual inspection |
| VOC | BAAQMD 8-5-321 | Y | | Primary rim-seal standards; includes gap criteria | BAAQMD 8-5-401.1 | P/SA and every time a seal is replaced | Seal inspection |
| VOC | BAAQMD 8-5-322 | Y | | Secondary rim-seal standards; includes gap criteria | BAAQMD 8-5-401.1 | P/SA and every time a seal is replaced | Seal inspection |
| VOC | BAAQMD 8-5-328.1.2 | Y | | Concentration of < 10,000 ppm as methane after degassing | BAAQMD 8-5-503 | periodic each time emptied & degassed | Portable hydrocarbon detector |
| VOC | | Y | | Certification reports on tank inspections and source tests | BAAQMD 8-5-404 8-5-405 | periodic after each tank inspection and source test | Certification report |
| VOC | | Y | | Records of tank seal replacement | BAAQMD 8-5-501.2 | periodic after each tank seal replacement | records |
| VOC | | Y | | Determination of applicability | BAAQMD 8-5-604 | P/E | look-up table or sample analysis |

# VII. Applicable Limits and Compliance Monitoring Requirements

## Table VII – BB.8
## Applicable Limits and Compliance Monitoring Requirements
## NSPS Kb Zero gap External Floating Roof Stormwater Equalization Tanks
## S101 (Tank 104), S102 (Tank 105), S106 (Tank 130)

| Type of Limit | Emission Limit Citation | FE Y/N | Future Effective Date | Emission Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| **The following apply to S106 only** | | | | | | | |
| VOC | BAAQMD 8-5-303.1 | Y | | Pressure vacuum valve set pressure within 10% of maximum allowable working pressure of the tank, or at least 0.5 psig | BAAQMD 8-5-403 | P/SA | visual inspection |
| VOC | BAAQMD 8-5-303.2 | Y | | Pressure vacuum valve must be gas-tight: < 500 ppm (as methane) above background | BAAQMD 8-5-403 8-5-503 8-5-605 | P/SA | Method 21 portable hydrocarbon detector |
| **The following apply to S106 only** | | | | | | | |
| | **BAAQMD Regulation 8, Rule 8 – Organic Compounds – Wastewater (Oil Water Separators)** | | | | | | |
| VOC | BAAQMD 8-8-302.2 8-8-302.2.1 | Y | | Primary seal gap criteria | BAAQMD 8-8-302.2.3 | periodic initially and every 5 years | measurement and inspection |
| VOC | BAAQMD 8-8-302.2 8-8-302.2.2 | Y | | Secondary and wiper seal gap criteria | BAAQMD 8-8-302.2.3 | periodic initially and every 5 years | measurement and inspection |
| VOC | BAAQMD 8-8-303 | Y | | Vapor tight gauging and sampling devices | BAAQMD 8-8-504 8-8-603 | N | Portable hydrocarbon detector |
| **NONE** | **40 CFR 63, Subpart CC – NESHAPS for Petroleum Refineries**<br>**NO MONITORING REQUIREMENTS FOR GROUP 2 WASTEWATER SOURCES** | | | | | | |
| | **40 CFR 60, Subpart Kb – NSPS for VOL Storage Vessels**<br>**40 CFR 60, Subpart QQQ – VOC Emissions from Petroleum Refinery Wastewater Systems**<br>**LIMITS AND MONITORING FOR EXTERNAL FLOATING ROOF TANKS** | | | | | | |
| VOC | 40 CFR 60.692-3(d) 60.112b (a)(2)(ii) | Y | | Deck fitting closure standards; includes gasketed covers | 40 CFR 60.692-3(d) 60.113b (b)(6) | periodic initially & each time emptied & degassed | visual inspection |
| VOC | 40 CFR 60.692-3(d) 60.113b (b)(4)(i) | Y | | Primary rim-seal standards; includes gap criteria | 40 CFR 60.692-3(d) 60.113b (b)(1)-(b)(3) | periodic initially & at 5 yr intervals | measurement and visual inspection |

# VII. Applicable Limits and Compliance Monitoring Requirements

## Table VII – BB.8
## Applicable Limits and Compliance Monitoring Requirements
## NSPS KB ZERO GAP EXTERNAL FLOATING ROOF STORMWATER EQUALIZATION TANKS S101 (TANK 104), S102 (TANK 105), S106 (TANK 130)

| Type of Limit | Emission Limit Citation | FE Y/N | Future Effective Date | Emission Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| VOC | 40 CFR 60.692-3(d) 60.113b (b)(4)(ii) | Y | | Secondary rim-seal standards; includes gap criteria | 40 CFR 60.692-3(d) 60.113b (b)(1)-(b)(3) | periodic initially & annually | measurement and visual inspection |
| VOC | 40 CFR 60.692-3(d) 60.116b (c) | Y | | Record of liquid stored and true vapor pressure | 40 CFR 60.692-3(d) 60.116b (c) & (e) | periodic upon change of service | Records |
| VOC | | Y | | Seal inspection records for report in 60.115b(b)(2) | 40 CFR 60.692-3(d) 60.115b(b)(3) | periodic For each gap measurement | Records |
| VOC | | Y | | Inspection report for seal gap measurements | 40 CFR 60.692-3(d) 60.115b(b)(2) | periodic Within 60 days of seal gap measurement | Report |
| VOC | | Y | | Inspection report for non-compliant seals | 40 CFR 60.692-3(d) 60.115b(b)(4) | periodic Within 30 days of seal inspection | Report |
| | **BAAQMD PERMIT CONDITIONS** | | | | | | |
| throughput | BAAQMD Condition 20989, Part A | Y | | S101: 3.68 E 9 gal/yr<br>S102: 3.68 E 9 gal/yr<br>S106: 3.68 E 9 gal/yr | BAAQMD Condition 20989, Part A | P/M | records |

# VII. Applicable Limits and Compliance Monitoring Requirements

## Table VII – BB.9
## Applicable Limits and Compliance Monitoring Requirements
## NSPS KB ZERO GAP INTERNAL FLOATING ROOF TANK
## S448 (TANK 1007)

| Type of Limit | Emission Limit Citation | FE Y/N | Future Effective Date | Emission Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| | **BAAQMD Regulation 8, Rule 5, Organic Compounds - STORAGE OF ORGANIC LIQUIDS LIMITS AND MONITORING FOR INTERNAL FLOATING-ROOF TANKS** | | | | | | |
| VOC | BAAQMD 8-5-301 | Y | | Record of liquids stored and true vapor pressure | BAAQMD 8-5-501.1 | periodic initially and upon change of service | Records |
| VOC | BAAQMD 8-5-320 | Y | | Floating roof fitting closure standards; includes gasketed covers | BAAQMD 8-5-402.3 | P/SA | Measurement and visual inspection |
| VOC | BAAQMD 8-5-321 | Y | | Primary rim-seal standards; includes gap criteria | BAAQMD 8-5-402.1 | periodic 10 year intervals and every time a seal is replaced | Seal inspection |
| VOC | BAAQMD 8-5-322 | Y | | Secondary rim-seal standards; includes gap criteria | BAAQMD 8-5-402.1 | periodic 10 year intervals and every time a seal is replaced | Seal inspection |
| VOC | BAAQMD 8-5-305, 8-5-321.1, 8-5-322.1 | Y | | Visual inspection of outer most seal | BAAQMD 8-5-402.2 | P/SA | Visual inspection |
| VOC | BAAQMD 8-5-328.1.2 | Y | | Concentration of < 10,000 ppm as methane after degassing | BAAQMD 8-5-503 | periodic each time emptied & degassed | Portable hydrocarbon detector |
| VOC | | Y | | Certification reports on tank inspections and source tests | BAAQMD 8-5-404 8-5-405 | periodic after each tank inspection and source test | Certification report |
| VOC | | Y | | Records of tank seal replacement | BAAQMD 8-5-501.2 | periodic after each tank seal replacement | Records |

# VII. Applicable Limits and Compliance Monitoring Requirements

## Table VII – BB.9
## Applicable Limits and Compliance Monitoring Requirements
## NSPS Kb Zero Gap Internal Floating Roof Tank
## S448 (Tank 1007)

| Type of Limit | Emission Limit Citation | FE Y/N | Future Effective Date | Emission Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| VOC | | Y | | Determination of applicability | BAAQMD 8-5-604 | P/E | look-up table or sample analysis |
| | **40 CFR 60 Subpart Kb – NSPS for VOL Storage Vessels**<br>**40 CFR 63 Subpart CC – NESHAPS for Petroleum Refineries**<br>**LIMITS AND MONITORING FOR INTERNAL FLOATING ROOF TANKS** | | | | | | |
| VOC | 40 CFR 63.640 (n)(1), 60.112b (a)(1) | Y | | Deck fitting closure standards; includes gasketed covers | 40 CFR 63.640(n)(8), 60.113b (a)(3) & (4) | periodic initially & each time emptied & degassed, at least every 10 yr | visual inspection |
| VOC | 40 CFR 63.640 (n)(1), 60.113b (a)(1) & (4) | Y | | Primary rim-seal standards; no holes or tears | 40 CFR 63.640(n)(8), 60.113b (a)(3) & (4) | periodic initially & each time emptied & degassed, at least every 10 yr | visual inspection |
| VOC | 40 CFR 63.640 (n)(1), 60.113b (a)(1) & (4) | Y | | Secondary rim-seal standards; no holes or tears | 40 CFR 63.640(n)(8), 60.113b (a)(3) & (4) | periodic initially & each time emptied & degassed, at least every 10 yr | visual inspection |
| VOC | 40 CFR 63.640 (n)(1), 60.113b (a)(2) | Y | | Internal visual inspection from viewports of fixed roof | 40 CFR 63.640(n)(8), 60.113b (a)(2) & (3) | periodic initially & annually | visual inspection |
| VOC | 40 CFR 63.640 (n)(1), 60.116b (c) | Y | | Record of liquid stored and true vapor pressure | 40 CFR 63.640(n)(8), 60.116b (c) & (e) | periodic upon change of service | records |
| VOC | | Y | | Record of each initial, annual, and 10-year tank inspection | 40 CFR 63.640(n)(8), 60.115b(a)(2) | periodic for each tank inspection | records |

# VII. Applicable Limits and Compliance Monitoring Requirements

## Table VII – BB.9
## Applicable Limits and Compliance Monitoring Requirements
## NSPS Kb Zero Gap Internal Floating Roof Tank
## S448 (Tank 1007)

| Type of Limit | Emission Limit Citation | FE Y/N | Future Effective Date | Emission Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| VOC | | Y | | Report of non-compliant annual inspection for tanks with secondary seals | 40 CFR 63.640(n)(8), 60.115b(a)(4) | periodic within 30 days of tank inspection | report |
| | **BAAQMD PERMIT CONDITIONS** | | | | | | |
| throughput | BAAQMD Condition 12133, Part 1 | Y | | 2,190,000 bbl/yr | BAAQMD Condition 12133, Part 3 | P/M | records |

## Table VII – BB.10
## Applicable Limits and Compliance Monitoring Requirements
## Internal Floating Roof Tanks with Dome Roofs
## Previously External Floating Roof Tanks
## S126 (Tank 172), S257 (Tank 1004), S258 (Tank 1005)

| Type of Limit | Emission Limit Citation | FE Y/N | Future Effective Date | Emission Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| | **BAAQMD Regulation 8, Rule 5, Organic Compounds - STORAGE OF ORGANIC LIQUIDS LIMITS AND MONITORING FOR INTERNAL FLOATING-ROOF TANKS** | | | | | | |
| VOC | BAAQMD 8-5-301 | Y | | Record of liquids stored and true vapor pressure | BAAQMD 8-5-501.1 | periodic initially and upon change of service | Records |
| VOC | BAAQMD 8-5-320 | Y | | Floating roof fitting closure standards; includes gasketed covers | BAAQMD 8-5-402.3 | P/SA | Measurement and visual inspection |
| VOC | BAAQMD 8-5-321 | Y | | Primary rim-seal standards; includes gap criteria | BAAQMD 8-5-402.1 | periodic 10 year intervals and every time a seal is replaced | Seal inspection |

# VII. Applicable Limits and Compliance Monitoring Requirements

## Table VII – BB.10
## Applicable Limits and Compliance Monitoring Requirements
### INTERNAL FLOATING ROOF TANKS WITH DOME ROOFS
### PREVIOUSLY EXTERNAL FLOATING ROOF TANKS
### S126 (Tank 172), S257 (Tank 1004), S258 (Tank 1005)

| Type of Limit | Emission Limit Citation | FE Y/N | Future Effective Date | Emission Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| VOC | BAAQMD 8-5-322 | Y | | Secondary rim-seal standards; includes gap criteria | BAAQMD 8-5-402.1 | periodic 10 year intervals and every time a seal is replaced | Seal inspection |
| VOC | BAAQMD 8-5-305, 8-5-321.1, 8-5-322.1 | Y | | Visual inspection of outer most seal | BAAQMD 8-5-402.2 | P/SA | Visual inspection |
| VOC | BAAQMD 8-5-328.1.2 | Y | | Concentration of < 10,000 ppm as methane after degassing | BAAQMD 8-5-503 | periodic each time emptied & degassed | Portable hydrocarbon detector |
| VOC | | Y | | Certification reports on tank inspections and source tests | BAAQMD 8-5-404 8-5-405 | periodic after each tank inspection and source test | Certification report |
| VOC | | Y | | Records of tank seal replacement | BAAQMD 8-5-501.2 | periodic after each tank seal replacement | Records |
| VOC | | Y | | Determination of applicability | BAAQMD 8-5-604 | P/E | look-up table or sample analysis |
| **The following apply only to S126 and S258** | | | | | | | |
| VOC | BAAQMD 8-5-303.1 | Y | | Pressure vacuum valve set pressure within 10% of maximum allowable working pressure of the tank, or at least 0.5 psig | BAAQMD 8-5-403 | P/SA | visual inspection |
| VOC | BAAQMD 8-5-303.2 | Y | | Pressure vacuum valve must be gas-tight: < 500 ppm (as methane) above background | BAAQMD 8-5-403 8-5-503 8-5-605 | P/SA | Method 21 portable hydrocarbon detector |

# VII. Applicable Limits and Compliance Monitoring Requirements

## Table VII – BB.10
## Applicable Limits and Compliance Monitoring Requirements
### INTERNAL FLOATING ROOF TANKS WITH DOME ROOFS
### PREVIOUSLY EXTERNAL FLOATING ROOF TANKS
### S126 (Tank 172), S257 (Tank 1004), S258 (Tank 1005)

| Type of Limit | Emission Limit Citation | FE Y/N | Future Effective Date | Emission Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| **The following apply only to S126 and S258** | | | | | | | |
| | **CFR 63, Subpart G – SOCMI HON**<br>**40 CFR 63, Subpart CC – NESHAPS for Petroleum Refineries**<br>**40 LIMITS AND MONITORING FOR INTERNAL FLOATING ROOF TANKS** | | | | | | |
| HAP | 40 CFR 63.646(f) | Y | | Deck fitting closure standards | 40 CFR 63.646 (a) & (e) 63.120(a)(3) | periodic each time emptied & degassed, at least every 10 years | visual inspection |
| HAP | 40 CFR 63.646(a) 63.120(a)(7) | Y | | Primary rim-seal standards; no holes or tears | 40 CFR 63.646(a) 63.120(a)(3) | periodic each time emptied & degassed, at least every 10 years | visual inspection |
| HAP | 40 CFR 63.646(a) 63.120(a)(4) | Y | | No gaps visible from the tank top | 40 CFR 63.646(a) 63.120(a)(3) | P/A | visual inspection |
| HAP | 40 CFR 63.646(a) 63.120(a)(4) | Y | | No liquid on the floating roof or other obvious defects visible from the tank top | 40 CFR 63.646(a) 63.120(a)(3) | P/A | visual inspection |
| | **BAAQMD PERMIT CONDITIONS** | | | | | | |
| throughput | BAAQMD Condition 20989, Part A | N | | S126: 1.05 E 7 bbl/yr<br>S257: 7.01 E 7 bbl/yr<br>S258: 7.01 E 7 bbl/yr | BAAQMD Condition , Part A | P/M | records |

# VII. Applicable Limits and Compliance Monitoring Requirements

## Table VII – BB.11
## Applicable Limits and Compliance Monitoring Requirements
## NSPS Kb Fixed Roof Tanks with Vapor Recovery to Fuel Gas
## S135 (Tank 200), S360 (Tank 223), S445 (Tank 271), S449 (Tank 285)

| Type of Limit | Emission Limit Citation | FE Y/N | Future Effective Date | Emission Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| | **BAAQMD Regulation 8, Rule 5, Organic Compounds - STORAGE OF ORGANIC LIQUIDS LIMITS AND MONITORING FOR CVS & CONTROL DEVICES** | | | | | | |
| VOC | BAAQMD 8-5-301 | Y | | Record of liquids stored and true vapor pressure | BAAQMD 8-5-501.1 | periodic initially and upon change of service | records |
| VOC | BAAQMD 8-5-303.1 | Y | | Pressure vacuum valve set pressure within 10% of maximum allowable working pressure of the tank, or at least 0.5 psig | BAAQMD 8-5-403 | P/SA | visual inspection |
| VOC | BAAQMD 8-5-303.2 | Y | | Pressure vacuum valve must be gas-tight: < 500 ppm (as methane) above background | BAAQMD 8-5-403 8-5-503 8-5-605 | P/SA | Method 21 portable hydrocarbon detector |
| VOC | BAAQMD 8-5-306 | Y | | Control device standards; includes 95% efficiency requirement | BAAQMD 8-5-603.1 | not specified | MOP Volume IV ST-4 |
| VOC | BAAQMD 8-5-328.1.2 | Y | | Organic concentration in tank <10,000 ppm as methane after cleaning | BAAQMD 8-5-503 | periodic each time emptied & degassed | portable hydrocarbon detector |
| VOC | | Y | | Determination of applicability | BAAQMD 8-5-604 | P/E | look-up table or sample analysis |
| **NONE** | **40 CFR 63 Subpart CC – NESHAPS for Petroleum Refineries Exempt per 63.640(d)(5). Emission point routed to fuel gas system.** | | | | | | |
| | **40 CFR 60 Subpart Kb – NSPS for VOL Storage Vessels LIMITS AND MONITORING FOR CVS & CONTROL DEVICES (NOT A FLARE)** | | | | | | |
| VOC | 40 CFR 60.112b (a)(3)(i) | Y | | Closed vent system leak tightness standards (< 500 ppmw) | 40 CFR 60.112b (a)(3)(i) | as required in 60.485(b) [Subpart VV] | Method 21 |
| VOC | 40 CFR 60.112b (a)(3)(ii) | Y | | Control device standards; includes 95% efficiency requirement | 40 CFR 60.113b (c)(2) | as approved | specified parameter |
| | **BAAQMD PERMIT CONDITIONS** | | | | | | |
| **The following applies to S135 only** | | | | | | | |

# VII. Applicable Limits and Compliance Monitoring Requirements

## Table VII – BB.11
## Applicable Limits and Compliance Monitoring Requirements
## NSPS Kb Fixed Roof Tanks with Vapor Recovery to Fuel Gas
## S135 (Tank 200), S360 (Tank 223), S445 (Tank 271), S449 (Tank 285)

| Type of Limit | Emission Limit Citation | FE Y/N | Future Effective Date | Emission Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| VOC | BAAQMD Condition 22518, Part 1 | Y | | Vapor pressure < 11 psia | BAAQMD 8-5-501.1 | periodic initially and upon change of service | records |
| | BAAQMD Condition 22518, Part 3 | Y | | 10 E 6 bbl/yr | BAAQMD 8-5-501.1 | P/E | Records |
| **The following applies to S445 only.** | | | | | | | |
| VOC | BAAQMD Condition 12130, Part 1 | Y | | Requirement to vent working emissions to fuel gas system | None | N | None |
| **The following applies to S449 only.** | | | | | | | |
| VOC | BAAQMD Condition 11219, Part 1 | Y | | Requirement to vent working emissions to fuel gas system | None | N | None |
| **The following applies to S360 only.** | | | | | | | |
| throughput | BAAQMD Condition 20989, Part A | Y | | 2.78 E 6 bbl/yr | BAAQMD Condition 20989, Part A | P/M | records |

# VII. Applicable Limits and Compliance Monitoring Requirements

## Table VII – BB.12
## Applicable Limits and Compliance Monitoring Requirements
## NSPS Kb Fixed Roof Tanks with Vapor Pressure >= 76.6 kPa (11 psia) with Vapor Recovery to Fuel Gas
## S446 (Tank 310), S447 (Tank 311)

| Type of Limit | Emission Limit Citation | FE Y/N | Future Effective Date | Emission Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| | **BAAQMD Regulation 8, Rule 5, Organic Compounds - STORAGE OF ORGANIC LIQUIDS LIMITS AND MONITORING FOR CVS & CONTROL DEVICES** | | | | | | |
| VOC | BAAQMD 8-5-301 | Y | | Record of liquids stored and true vapor pressure | BAAQMD 8-5-501.1 | periodic initially and upon change of service | records |
| VOC | BAAQMD 8-5-303.1 | Y | | Pressure vacuum valve set pressure within 10% of maximum allowable working pressure of the tank, or at least 0.5 psig | BAAQMD 8-5-403 | P/SA | visual inspection |
| VOC | BAAQMD 8-5-303.2 | Y | | Pressure vacuum valve must be gas-tight: < 500 ppm (as methane) above background | BAAQMD 8-5-403 8-5-503 8-5-605 | P/SA | Method 21 portable hydrocarbon detector |
| VOC | BAAQMD 8-5-306 | Y | | Control device standards; includes 95% efficiency requirement | BAAQMD 8-5-603.1 | not specified | MOP Volume IV ST-4 |
| VOC | BAAQMD 8-5-328.1.2 | Y | | Organic concentration in tank <10,000 ppm as methane after cleaning | BAAQMD 8-5-503 | periodic each time emptied & degassed | portable hydrocarbon detector |
| VOC | | Y | | Determination of applicability | BAAQMD 8-5-604 | P/E | look-up table or sample analysis |
| **NONE** | **40 CFR 63, Subpart CC – NESHAPS for Petroleum Refineries Exempt per 63.640(d)(5). Emission point routed to fuel gas system.** | | | | | | |
| | **40 CFR 60, Subpart Kb – NSPS for VOL Storage Vessels LIMITS AND MONITORING FOR CVS & CONTROL DEVICES (NOT A FLARE)** | | | | | | |
| VOC | 40 CFR 60.112b (a)(3)(i) | Y | | Closed vent system leak tightness standards (< 500 ppmw) | 40 CFR 60.112b (a)(3)(i) | as required in 60.485(b) [Subpart VV] | Method 21 |
| VOC | 40 CFR 60.112b (a)(3)(ii) | Y | | Control device standards; includes 95% efficiency requirement | 40 CFR 60.113b(c)(2) | as approved | specified parameter |
| | **BAAQMD PERMIT CONDITIONS** | | | | | | |

# VII. Applicable Limits and Compliance Monitoring Requirements

## Table VII – BB.12
## Applicable Limits and Compliance Monitoring Requirements
## NSPS KB FIXED ROOF TANKS WITH VAPOR PRESSURE >= 76.6 KPA (11 PSIA) WITH VAPOR RECOVERY TO FUEL GAS
## S446 (TANK 310), S447 (TANK 311)

| Type of Limit | Emission Limit Citation | FE Y/N | Future Effective Date | Emission Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| **The following applies only to S446** | | | | | | | |
| VOC | BAAQMD Condition 12131, Part 1 | Y | | Requirement to vent working emissions to fuel gas system | None | N | None |
| **The following applies only to S447** | | | | | | | |
| VOC | BAAQMD Condition 12132, Part 1 | Y | | Requirement to vent working emissions to fuel gas system | None | N | None |

# VII. Applicable Limits and Compliance Monitoring Requirements

## Table VII – BB.13
## Applicable Limits and Compliance Monitoring Requirements
## MACT ZERO-GAP EXTERNAL FLOATING-ROOF TANKS
## S97 (TANK 100), S100 (TANK 103), S107 (TANK 150), S110 (TANK 155), S111 (TANK 156), S112 (TANK 157), S114 (TANK 159), S115 (TANK 160), S122 (TANK 167), S123 (TANK 168), S124 (TANK 169), S128 (TANK 174), S129 (TANK 180), S150 (TANK 241), S151 (TANK 242), S177 (TANK 287), S178 (TANK 288), S186 (TANK 298), S254 (TANK 1001), S255 (TANK 1002), S256 (TANK 1003), S259 (TANK 1006)

| Type of Limit | Emission Limit Citation | FE Y/N | Future Effective Date | Emission Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| | **BAAQMD Regulation 8, Rule 5, Organic Compounds - STORAGE OF ORGANIC LIQUIDS LIMITS AND MONITORING FOR EXTERNAL FLOATING-ROOF TANKS** | | | | | | |
| VOC | BAAQMD 8-5-301 | Y | | Record of liquids stored and true vapor pressure | BAAQMD 8-5-501.1 | periodic initially and upon change of service | Records |
| VOC | BAAQMD 8-5-320 | Y | | Floating roof fitting closure standards; includes gasketed covers | BAAQMD 8-5-401.2 | P/SA | Measurement and visual inspection |
| VOC | BAAQMD 8-5-321 | Y | | Primary rim-seal standards; includes gap criteria | BAAQMD 8-5-401.1 | P/SA and every time a seal is replaced | Seal inspection |
| VOC | BAAQMD 8-5-322 | Y | | Secondary rim-seal standards; includes gap criteria | BAAQMD 8-5-401.1 | P/SA and every time a seal is replaced | Seal inspection |
| VOC | BAAQMD 8-5-328.1.2 | Y | | Concentration of < 10,000 ppm as methane after degassing | BAAQMD 8-5-503 | periodic each time emptied & degassed | Portable hydrocarbon detector |
| VOC | | Y | | Certification reports on tank inspections and source tests | BAAQMD 8-5-404 8-5-405 | periodic after each tank inspection and source test | Reports |
| VOC | | Y | | Records of tank seal replacement | BAAQMD 8-5-501.2 | periodic after each tank seal replacement | Records |
| VOC | | Y | | Determination of applicability | BAAQMD 8-5-604 | P/E | look-up table or sample analysis |

# VII. Applicable Limits and Compliance Monitoring Requirements

## Table VII – BB.13
## Applicable Limits and Compliance Monitoring Requirements
## MACT ZERO-GAP EXTERNAL FLOATING-ROOF TANKS
## S97 (TANK 100), S100 (TANK 103), S107 (TANK 150), S110 (TANK 155), S111 (TANK 156), S112 (TANK 157), S114 (TANK 159), S115 (TANK 160), S122 (TANK 167), S123 (TANK 168), S124 (TANK 169), S128 (TANK 174), S129 (TANK 180), S150 (TANK 241), S151 (TANK 242), S177 (TANK 287), S178 (TANK 288), S186 (TANK 298), S254 (TANK 1001), S255 (TANK 1002), S256 (TANK 1003), S259 (TANK 1006)

| Type of Limit | Emission Limit Citation | FE Y/N | Future Effective Date | Emission Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| **The following apply only to S107 (Tank 150), S110 (Tank 155), S115 (Tank 160), S123 (Tank 168), S128 (Tank 174), S129 (Tank 180), and S178 (Tank 288)** | | | | | | | |
| VOC | BAAQMD 8-5-303.1 | Y | | Pressure vacuum valve set pressure within 10% of maximum allowable working pressure of the tank, or at least 0.5 psig | BAAQMD 8-5-403 | P/SA | visual inspection |
| VOC | BAAQMD 8-5-303.2 | Y | | Pressure vacuum valve must be gas-tight: < 500 ppm (as methane) above background | BAAQMD 8-5-403 8-5-503 8-5-605 | P/SA | Method 21 portable hydrocarbon detector |
| **The following apply only to S107 (Tank 150), S110 (Tank 155), S115 (Tank 160), S123 (Tank 168), S128 (Tank 174), S129 (Tank 180), and S178 (Tank 288)** | | | | | | | |
| | **40 CFR 63, Subpart G – SOCMI HON**<br>**40 CFR 63 Subpart CC – NESHAPS for Petroleum Refineries**<br>**LIMITS AND MONITORING FOR EXTERNAL FLOATING ROOF TANKS** | | | | | | |
| HAP | 40 CFR 63.646(f) | Y | | Deck fitting closure standards | 40 CFR 63.646 (a) & (e) 63.120 (b)(10) | periodic initially & each time emptied & degassed | visual inspection |
| HAP | 40 CFR 63.646(a) 63.120 (b)(3)&(5) | Y | | Primary rim-seal standards; includes gap criteria | 40 CFR 63.646(a) 63.120 (b)(1) & (2) | periodic initially & at 5 yr intervals | measurement and visual inspection |
| HAP | 40 CFR 63.646(a) 63.120 (b)(4)&(6) | Y | | Secondary rim-seal standards; includes gap criteria | 40 CFR 63.646(a) 63.120 (b)(1) & (2) | periodic initially & annually | measurement and visual inspection |
| | **BAAQMD PERMIT CONDITIONS** | | | | | | |

# VII. Applicable Limits and Compliance Monitoring Requirements

## Table VII – BB.13
## Applicable Limits and Compliance Monitoring Requirements
## MACT ZERO-GAP EXTERNAL FLOATING-ROOF TANKS
## S97 (TANK 100), S100 (TANK 103), S107 (TANK 150), S110 (TANK 155), S111 (TANK 156), S112 (TANK 157), S114 (TANK 159), S115 (TANK 160), S122 (TANK 167), S123 (TANK 168), S124 (TANK 169), S128 (TANK 174), S129 (TANK 180), S150 (TANK 241), S151 (TANK 242), S177 (TANK 287), S178 (TANK 288), S186 (TANK 298), S254 (TANK 1001), S255 (TANK 1002), S256 (TANK 1003), S259 (TANK 1006)

| Type of Limit | Emission Limit Citation | FE Y/N | Future Effective Date | Emission Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| VOC | BAAQMD Condition 22478, Part 2 | Y | | S124: 6,815 lb/12-month period | BAAQMD Condition 22478, Part 8 | P/M | Records and calculations |
| | BAAQMD Condition 22478, Part 3 | Y | | S186: 2,231 lb/12-month period | BAAQMD Condition 22478, Part 8 | P/M | Records and calculations |
| throughput | BAAQMD Condition 20989, Part A | N | | S97: 1.1 E 7 bbl/yr<br>S100: 4.38 E 6 bbl/yr<br>S107: 8.76 E 6 bbl/yr<br>S110: 1.40 E 7 bbl/yr<br>S111: 1.31 E 7 bbl/yr<br>S112: 1.49 E 7 bbl/yr<br>S114: 1.31 E 7 bbl/yr<br>S115: 4.38 E 6 bbl/yr<br>S122: 4.38 E 6 bbl/yr<br>S128: 5.1 E 6 bbl/yr<br>S177: 2.63 E 7 bbl/yr<br>S254: 7.01 E 7 bbl/yr<br>S255: 7.01 E 7 bbl/yr<br>S256: 7.01 E 7 bbl/yr<br>S259: 7.01 E 7 bbl/yr | BAAQMD Condition 20989, Part A | P/M | Records |
| throughput | BAAQMD Condition 20989, Part A | Y | | S129: 4.6 E 6 bbl/yr<br>S150: 4.38 E 7 bbl/yr<br>S151: 4.38 E 7 bbl/yr<br>S178: 3.50 E 7 bbl/yr | BAAQMD Condition 20989, Part A | P/M | records |

# VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – BB.13**
**Applicable Limits and Compliance Monitoring Requirements**
**MACT ZERO-GAP EXTERNAL FLOATING-ROOF TANKS**
**S97 (TANK 100), S100 (TANK 103), S107 (TANK 150), S110 (TANK 155), S111 (TANK 156), S112 (TANK 157), S114 (TANK 159), S115 (TANK 160), S122 (TANK 167), S123 (TANK 168), S124 (TANK 169), S128 (TANK 174), S129 (TANK 180), S150 (TANK 241), S151 (TANK 242), S177 (TANK 287), S178 (TANK 288), S186 (TANK 298), S254 (TANK 1001), S255 (TANK 1002), S256 (TANK 1003), S259 (TANK 1006)**

| Type of Limit | Emission Limit Citation | FE Y/N | Future Effective Date | Emission Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| throughput | BAAQMD Condition 22478, Part 5 | Y | | S123: 5.1 E 6 bbl/yr | BAAQMD 8-5-501.1 | periodic initially and upon change of service | Records |
| Vapor pressure | BAAQMD Condition 22478, Part 1 | Y | | S123: $\leq$ 3.4 psia | BAAQMD 8-5-501.1 | periodic initially and upon change of service | Records |

# VII. Applicable Limits and Compliance Monitoring Requirements

## Table VII – BB.14
## Applicable Limits and Compliance Monitoring Requirements
## NSPS K AND NSPS KA ZERO-GAP EXTERNAL FLOATING ROOF TANKS
## NSPS K - S334 (TANK 107),
## NSPS KA - S341 (TANK 208), S342 (TANK 209), S343 (TANK 210)

| Type of Limit | Emission Limit Citation | FE Y/N | Future Effective Date | Emission Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| | **BAAQMD Regulation 8, Rule 5, Organic Compounds - STORAGE OF ORGANIC LIQUIDS LIMITS AND MONITORING FOR EXTERNAL FLOATING-ROOF TANKS** | | | | | | |
| VOC | BAAQMD 8-5-301 | Y | | Record of liquids stored and true vapor pressure | BAAQMD 8-5-501.1 | periodic initially and upon change of service | Records |
| VOC | BAAQMD 8-5-320 | Y | | Floating roof fitting closure standards; includes gasketed covers | BAAQMD 8-5-401.2 | P/SA | Measurement and visual inspection |
| VOC | BAAQMD 8-5-321 | Y | | Primary rim-seal standards; includes gap criteria | BAAQMD 8-5-401.1 | P/SA and every time a seal is replaced | Seal inspection |
| VOC | BAAQMD 8-5-322 | Y | | Secondary rim-seal standards; includes gap criteria | BAAQMD 8-5-401.1 | P/SA and every time a seal is replaced | Seal inspection |
| VOC | BAAQMD 8-5-328.1.2 | Y | | Concentration of < 10,000 ppm as methane after degassing | BAAQMD 8-5-503 | periodic each time emptied & degassed | Portable hydrocarbon detector |
| VOC | | Y | | Certification reports on tank inspections and source tests | BAAQMD 8-5-404 8-5-405 | periodic after each tank inspection and source test | Reports |
| VOC | | Y | | Records of tank seal replacement | BAAQMD 8-5-501.2 | periodic after each tank seal replacement | Records |
| VOC | | Y | | Determination of applicability | BAAQMD 8-5-604 | P/E | look-up table or sample analysis |

# VII. Applicable Limits and Compliance Monitoring Requirements

## Table VII – BB.14
## Applicable Limits and Compliance Monitoring Requirements
## NSPS K AND NSPS KA ZERO-GAP EXTERNAL FLOATING ROOF TANKS
## NSPS K - S334 (TANK 107),
## NSPS KA - S341 (TANK 208), S342 (TANK 209), S343 (TANK 210)

| Type of Limit | Emission Limit Citation | FE Y/N | Future Effective Date | Emission Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| | **40 CFR 60, Subpart K – NSPS for Petroleum Storage Vessels (note 2)**<br>**40 CFR 60, Subpart Ka – NSPS for Petroleum Storage Vessels (note 3)**<br>**40 CFR 63, Subpart G – SOCMI HON**<br>**40 CFR 63, Subpart CC – NESHAPS for Petroleum Refineries**<br>**LIMITS AND MONITORING FOR EXTERNAL FLOATING ROOF TANKS** | | | | | | |
| HAP | 40 CFR 63.640(n)(5) 63.646(f) | Y | | Deck fitting closure standards | 40 CFR 63.640(n)(5) 63.646 (a) & (e) 63.120 (b)(10) | periodic initially & each time emptied & degassed | visual inspection |
| HAP | 40 CFR 63.640(n)(5) 63.646(a) 63.120 (b)(3)&(5) | Y | | Primary rim-seal standards; includes gap criteria | 40 CFR 63.640(n)(5) 63.646(a) 63.120 (b)(1) & (2) | periodic initially & at 5 yr intervals | measurement and visual inspection |
| HAP | 40 CFR 63.640(n)(5) 63.646(a) 63.120 (b)(4)&(6) | Y | | Secondary rim-seal standards; includes gap criteria | 40 CFR 63.640(n)(5) 63.646(a) 63.120 (b)(1) & (2) | periodic initially & annually | measurement and visual inspection |
| | BAAQMD **PERMIT CONDITIONS** | | | | | | |
| throughput | BAAQMD Condition 20989, Part A | Y | | S341: 4.38 E 7 bbl/yr<br>S342: 4.38 E 7 bbl/yr<br>S343: 4.38 E 7 bbl/yr | BAAQMD Condition 20989, Part A | P/M | Records |
| throughput | BAAQMD Condition 22478, Part 8 | Y | | S334: 6.51 E 6 bbl/yr | BAAQMD 8-5-501.1 | periodic initially and upon change of service | Records |
| Vapor pressure | BAAQMD Condition 22478, Part 4 | Y | | S334: $\leq$ 5.8 psia | BAAQMD 8-5-501.1 | periodic initially and upon change of service | Records |

2. Tanks subject to 63 Subpart CC (MACT) and NSPS K are subject only to MACT per 63.640(n)(5). Source S334 (Tank 107)

# VII. Applicable Limits and Compliance Monitoring Requirements

is subject to NSPS K and MACT.

3. Tanks subject to 63 Subpart CC (MACT) and NSPS Ka are subject only to MACT per 63.640(n)(5). Sources S341 (Tank 208), S342 (Tank 209), and S343 (Tank 210) are subject to NSPS Ka and MACT.

## Table VII – BB.15a
## Applicable Limits and Compliance Monitoring Requirements
## MACT FIXED ROOF TANKS WITH VAPOR RECOVERY TO FUEL GAS
## S137 (Tank 202), S139 (Tank 204), S140 (Tank 205)

| Type of Limit | Emission Limit Citation | FE Y/N | Future Effective Date | Emission Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| | **BAAQMD Regulation 8, Rule 5, Organic Compounds - STORAGE OF ORGANIC LIQUIDS LIMITS AND MONITORING FOR CVS & CONTROL DEVICES** | | | | | | |
| VOC | BAAQMD 8-5-301 | Y | | Record of liquids stored and true vapor pressure | BAAQMD 8-5-501.1 | periodic initially and upon change of service | records |
| VOC | BAAQMD 8-5-303.1 | Y | | Pressure vacuum valve set pressure within 10% of maximum allowable working pressure of the tank, or at least 0.5 psig | BAAQMD 8-5-403 | P/SA | visual inspection |
| VOC | BAAQMD 8-5-303.2 | Y | | Pressure vacuum valve must be gas-tight: < 500 ppm (as methane) above background | BAAQMD 8-5-403 8-5-503 8-5-605 | P/SA | Method 21 portable hydrocarbon detector |
| VOC | BAAQMD 8-5-306 | Y | | Control device standards; includes 95% efficiency requirement | BAAQMD 8-5-603.1 | not specified | MOP Volume IV ST-4 |
| VOC | BAAQMD 8-5-328.1.2 | Y | | Organic concentration in tank <10,000 ppm as methane after cleaning | BAAQMD 8-5-503 | periodic each time emptied & degassed | portable hydrocarbon detector |
| VOC | | Y | | Determination of applicability | BAAQMD 8-5-604 | P/E | look-up table or sample analysis |
| | **BAAQMD Regulation 8, Rule -8 – Organic Compounds – Wastewater (Oil Water Separators)** | | | | | | |
| VOC | BAAQMD 8-8-302.3 | | Y | 95% collection and destruction of VOC, by weight | | N | |
| **NONE** | **40 CFR 63 Subpart CC – NESHAPS for Petroleum Refineries Exempt per 63.640(d)(5). Emission point routed to fuel gas system.** | | | | | | |
| | **BAAQMD PERMIT CONDITIONS** | | | | | | |
| **The following applies to S137 only** | | | | | | | |

# VII. Applicable Limits and Compliance Monitoring Requirements

## Table VII – BB.15a
## Applicable Limits and Compliance Monitoring Requirements
## MACT FIXED ROOF TANKS WITH VAPOR RECOVERY TO FUEL GAS
## S137 (Tank 202), S139 (Tank 204), S140 (Tank 205)

| Type of Limit | Emission Limit Citation | FE Y/N | Future Effective Date | Emission Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| VOC | BAAQMD Condition 22518, Part 2 | Y | | Vapor pressure < 11 psia | BAAQMD 8-5-501.1 | periodic initially and upon change of service | records |
| | BAAQMD Condition 22518, Part 3 | Y | | 10 E 6 bbl/yr | BAAQMD 8-5-501.1 | P/E | Records |
| **The following applies to S139 and S140 only** | | | | | | | |
| throughput | BAAQMD Condition 20989, Part A | N | | S139: 2.74 E 6 bbl/yr<br>S140: 2.74 E 6 bbl/yr | BAAQMD Condition 20989, Part A | P/M | records |

## Table VII – BB.15b
## Applicable Limits and Compliance Monitoring Requirements
## MACT FIXED ROOF TANKS WITH VAPOR RECOVERY TO FUEL GAS
## S182 (Tank 294)

| Type of Limit | Emission Limit Citation | FE Y/N | Future Effective Date | Emission Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| | **BAAQMD Regulation 8, Rule 5, Organic Compounds - STORAGE OF ORGANIC LIQUIDS LIMITS AND MONITORING FOR CVS & CONTROL DEVICES** | | | | | | |
| VOC | BAAQMD 8-5-301 | Y | | Record of liquids stored and true vapor pressure | BAAQMD 8-5-501.1 | periodic initially and upon change of service | records |
| VOC | BAAQMD 8-5-303.1 | Y | | Pressure vacuum valve set pressure within 10% of maximum allowable working pressure of the tank, or at least 0.5 psig | BAAQMD 8-5-403 | P/SA | visual inspection |

# VII. Applicable Limits and Compliance Monitoring Requirements

## Table VII – BB.15b
## Applicable Limits and Compliance Monitoring Requirements
## MACT FIXED ROOF TANKS WITH VAPOR RECOVERY TO FUEL GAS
## S182 (Tank 294)

| Type of Limit | Emission Limit Citation | FE Y/N | Future Effective Date | Emission Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| VOC | BAAQMD 8-5-303.2 | Y | | Pressure vacuum valve must be gas-tight: < 500 ppm (as methane) above background | BAAQMD 8-5-403 8-5-503 8-5-605 | P/SA | Method 21 portable hydrocarbon detector |
| VOC | BAAQMD 8-5-306 | Y | | Control device standards; includes 95% efficiency requirement | BAAQMD 8-5-603.1 | not specified | MOP Volume IV ST-4 |
| VOC | BAAQMD 8-5-328.1.2 | Y | | Organic concentration in tank <10,000 ppm as methane after cleaning | BAAQMD 8-5-503 | periodic each time emptied & degassed | portable hydrocarbon detector |
| VOC | | Y | | Determination of applicability | BAAQMD 8-5-604 | P/E | look-up table or sample analysis |
| **NONE** | **40 CFR 63 Subpart CC – NESHAPS for Petroleum Refineries Exempt per 63.640(d)(5). Emission point routed to fuel gas system.** | | | | | | |
| | **BAAQMD PERMIT CONDITIONS** | | | | | | |
| VOC | BAAQMD Condition 13184, Part 1 | Y | | Requirement to vent working emissions to fuel gas system | | N | |

# VII. Applicable Limits and Compliance Monitoring Requirements

## Table VII – BB.16
## Applicable Limits and Compliance Monitoring Requirements
## MACT ZERO GAP EXTERNAL FLOATING ROOF WASTEWATER SLOP OIL TANK
## S133 (TANK 193)

| Type of Limit | Emission Limit Citation | FE Y/N | Future Effective Date | Emission Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| | **BAAQMD Regulation 8, Rule 5, Organic Compounds - STORAGE OF ORGANIC LIQUIDS LIMITS AND MONITORING FOR EXTERNAL FLOATING-ROOF TANKS** | | | | | | |
| VOC | BAAQMD 8-5-301 | Y | | Record of liquids stored and true vapor pressure | BAAQMD 8-5-501.1 | periodic initially and upon change of service | Records |
| VOC | BAAQMD 8-5-303.1 | Y | | Pressure vacuum valve set pressure within 10% of maximum allowable working pressure of the tank, or at least 0.5 psig | BAAQMD 8-5-403 | P/SA | visual inspection |
| VOC | BAAQMD 8-5-303.2 | Y | | Pressure vacuum valve must be gas-tight: < 500 ppm (as methane) above background | BAAQMD 8-5-403 8-5-503 8-5-605 | P/SA | Method 21 portable hydrocarbon detector |
| VOC | BAAQMD 8-5-320 | Y | | Floating roof fitting closure standards; includes gasketed covers | BAAQMD 8-5-401.2 | P/SA | Measurement and visual inspection |
| VOC | BAAQMD 8-5-321 | Y | | Primary rim-seal standards; includes gap criteria | BAAQMD 8-5-401.1 | P/SA and every time a seal is replaced | Seal inspection |
| VOC | BAAQMD 8-5-322 | Y | | Secondary rim-seal standards; includes gap criteria | BAAQMD 8-5-401.1 | P/SA and every time a seal is replaced | Seal inspection |
| VOC | BAAQMD 8-5-328.1.2 | Y | | Concentration of < 10,000 ppm as methane after degassing | BAAQMD 8-5-503 | periodic each time emptied & degassed | Portable hydrocarbon detector |
| VOC | | Y | | Certification reports on tank inspections and source tests | BAAQMD 8-5-404 8-5-405 | periodic after each tank inspection and source test | reports |

# VII. Applicable Limits and Compliance Monitoring Requirements

## Table VII – BB.16
## Applicable Limits and Compliance Monitoring Requirements
## MACT ZERO GAP EXTERNAL FLOATING ROOF WASTEWATER SLOP OIL TANK
## S133 (TANK 193)

| Type of Limit | Emission Limit Citation | FE Y/N | Future Effective Date | Emission Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| VOC | | Y | | Records of tank seal replacement | BAAQMD 8-5-501.2 | periodic after each tank seal replacement | records |
| VOC | | Y | | Determination of applicability | BAAQMD 8-5-604 | P/E | look-up table or sample analysis |
| | **BAAQMD Regulation 8, Rule 8 – Organic Compounds – Wastewater (Oil Water Separators)** | | | | | | |
| VOC | BAAQMD 8-8-303 | Y | | Vapor tight gauging and sampling devices | BAAQMD 8-8-504 8-8-603 | N | Portable hydrocarbon detector |
| VOC | BAAQMD 8-8-305.1 | Y | | Slop oil tank vessel roof criteria; includes gap criteria | BAAQMD 8-8-305.1 | periodic initially & semi-annually | visual inspection |
| | **40 CFR 63, Subpart G – SOCMI HON**<br>**40 CFR 63, Subpart CC – NESHAPS for Petroleum Refineries**<br>**LIMITS AND MONITORING FOR EXTERNAL FLOATING ROOF TANKS** | | | | | | |
| HAP | 40 CFR 63.646(f) | Y | | Deck fitting closure standards | 40 CFR 63.646 (a) & (e) 63.120 (b)(10) | periodic initially & each time emptied & degassed | visual inspection |
| HAP | 40 CFR 63.646(a) 63.120 (b)(3)&(5) | Y | | Primary rim-seal standards; includes gap criteria | 40 CFR 63.646(a) 63.120 (b)(1) & (2) | periodic initially & at 5 yr intervals | measurement and visual inspection |
| HAP | 40 CFR 63.646(a) 63.120 (b)(4)&(6) | Y | | Secondary rim-seal standards; includes gap criteria | 40 CFR 63.646(a) 63.120 (b)(1) & (2) | periodic initially & annually | measurement and visual inspection |
| | **BAAQMD PERMIT CONDITIONS** | | | | | | |
| throughput | BAAQMD Condition 20989, Part A | Y | | 8.76 E 5 bbl/yr | BAAQMD Condition 20989, Part A | P/M | Records |

# VII. Applicable Limits and Compliance Monitoring Requirements

## Table VII – BB.17
## Applicable Limits and Compliance Monitoring Requirements
## NSPS KA EXTERNAL FLOATING ROOF TANK W/O ZERO-GAP SEALS
## S340 (TANK 108)

| Type of Limit | Emission Limit Citation | FE Y/N | Future Effective Date | Emission Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| | **BAAQMD Regulation 8, Rule 5, Organic Compounds - STORAGE OF ORGANIC LIQUIDS LIMITS AND MONITORING FOR EXTERNAL FLOATING-ROOF TANKS** | | | | | | |
| VOC | BAAQMD 8-5-301 | Y | | Record of liquids stored and true vapor pressure | BAAQMD 8-5-501.1 | periodic initially and upon change of service | Records |
| VOC | BAAQMD 8-5-320 | Y | | Floating roof fitting closure standards; includes gasketed covers | BAAQMD 8-5-401.2 | P/SA | Measurement and visual inspection |
| VOC | BAAQMD 8-5-321 | Y | | Primary rim-seal standards; includes gap criteria | BAAQMD 8-5-401.1 | P/SA and every time a seal is replaced | Seal inspection |
| VOC | BAAQMD 8-5-322 | Y | | Secondary rim-seal standards; includes gap criteria | BAAQMD 8-5-401.1 | P/SA and every time a seal is replaced | Seal inspection |
| VOC | BAAQMD 8-5-328.1.2 | Y | | Concentration of < 10,000 ppm as methane after degassing | BAAQMD 8-5-503 | periodic each time emptied & degassed | Portable hydrocarbon detector |
| VOC | | Y | | Certification reports on tank inspections and source tests | BAAQMD 8-5-404 8-5-405 | periodic after each tank inspection and source test | reports |
| VOC | | Y | | Records of tank seal replacement | BAAQMD 8-5-501.2 | periodic after each tank seal replacement | records |
| VOC | | Y | | Determination of applicability | BAAQMD 8-5-604 | P/E | look-up table or sample analysis |

# VII. Applicable Limits and Compliance Monitoring Requirements

## Table VII – BB.17
## Applicable Limits and Compliance Monitoring Requirements
## NSPS KA EXTERNAL FLOATING ROOF TANK W/O ZERO-GAP SEALS
## S340 (TANK 108)

| Type of Limit | Emission Limit Citation | FE Y/N | Future Effective Date | Emission Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| | **40 CFR 60 Subpart Ka – NSPS for Petroleum Storage Vessels (Note 2)**<br>**40 CFR 63 Subpart CC – NESHAPS for Petroleum Refineries**<br>**40 CFR 63 Subpart G – SOCMI HON**<br>**LIMITS AND MONITORING FOR EXTERNAL FLOATING ROOF TANKS** | | | | | | |
| HAP | 40 CFR 63.640(n)(5) 63.646(f) | Y | | Deck fitting closure standards | 40 CFR 63.640(n)(5) 63.646 (a) & (e) 63.120 (b)(10) | periodic initially & each time emptied & degassed | visual inspection |
| HAP | 40 CFR 63.640(n)(5) 63.646(a) 63.120 (b)(3)&(5) | Y | | Primary rim-seal standards; includes gap criteria | 40 CFR 63.640(n)(5) 63.646(a) 63.120 (b)(1) & (2) | periodic initially & at 5 yr intervals | measurement and visual inspection |
| HAP | 40 CFR 63.640(n)(5) 63.646(a) 63.120 (b)(4)&(6) | Y | | Secondary rim-seal standards; includes gap criteria | 40 CFR 63.640(n)(5) 63.646(a) 63.120 (b)(1) & (2) | periodic initially & annually | measurement and visual inspection |
| | **BAAQMD PERMIT CONDITIONS** | | | | | | |
| throughput | BAAQMD Condition 20989, Part A | Y | | 7.67 E 6 bbl/yr | BAAQMD Condition 20989, Part A | P/M | Records |

2. Tanks subject to 63 Subpart CC (MACT) and NSPS Ka are subject only to MACT per 63.640(n)(5). Source S340 (Tank 108) is subject to NSPS Ka and MACT.

# VII. Applicable Limits and Compliance Monitoring Requirements

## Table VII – BB.18
## Applicable Limits and Compliance Monitoring Requirements
## MACT EXTERNAL FLOATING-ROOF TANKS W/O ZERO-GAP SEALS
## S113 (TANK 158), S125 (TANK 170), S183 (TANK 295), S184 (TANK 296), S261 (TANK 1010)

| Type of Limit | Emission Limit Citation | FE Y/N | Future Effective Date | Emission Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| | **BAAQMD Regulation 8, Rule 5, Organic Compounds - STORAGE OF ORGANIC LIQUIDS LIMITS AND MONITORING FOR EXTERNAL FLOATING-ROOF TANKS** | | | | | | |
| VOC | BAAQMD 8-5-301 | Y | | Record of liquids stored and true vapor pressure | BAAQMD 8-5-501.1 | periodic initially and upon change of service | Records |
| VOC | BAAQMD 8-5-320 | Y | | Floating roof fitting closure standards; includes gasketed covers | BAAQMD 8-5-401.2 | P/SA | Measurement and visual inspection |
| VOC | BAAQMD 8-5-321 | Y | | Primary rim-seal standards; includes gap criteria | BAAQMD 8-5-401.1 | P/SA and every time a seal is replaced | Seal inspection |
| VOC | BAAQMD 8-5-322 | Y | | Secondary rim-seal standards; includes gap criteria | BAAQMD 8-5-401.1 | P/SA and every time a seal is replaced | Seal inspection |
| VOC | BAAQMD 8-5-328.1.2 | Y | | Concentration of < 10,000 ppm as methane after degassing | BAAQMD 8-5-503 | periodic each time emptied & degassed | Portable hydrocarbon detector |
| VOC | | Y | | Certification reports on tank inspections and source tests | BAAQMD 8-5-404 8-5-405 | periodic after each tank inspection and source test | reports |
| VOC | | Y | | Records of tank seal replacement | BAAQMD 8-5-501.2 | periodic after each tank seal replacement | records |
| VOC | | Y | | Determination of applicability | BAAQMD 8-5-604 | P/E | look-up table or sample analysis |

# VII. Applicable Limits and Compliance Monitoring Requirements

## Table VII – BB.18
## Applicable Limits and Compliance Monitoring Requirements
## MACT EXTERNAL FLOATING-ROOF TANKS W/O ZERO-GAP SEALS
## S113 (TANK 158), S125 (TANK 170), S183 (TANK 295), S184 (TANK 296), S261 (TANK 1010)

| Type of Limit | Emission Limit Citation | FE Y/N | Future Effective Date | Emission Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| **The following apply only to S113 (Tank 158), S125 (Tank 170)** | | | | | | | |
| VOC | BAAQMD 8-5-303.1 | Y | | Pressure vacuum valve set pressure within 10% of maximum allowable working pressure of the tank, or at least 0.5 psig | BAAQMD 8-5-403 | P/SA | visual inspection |
| VOC | BAAQMD 8-5-303.2 | Y | | Pressure vacuum valve must be gas-tight: < 500 ppm (as methane) above background | BAAQMD 8-5-403 8-5-503 8-5-605 | P/SA | Method 21 portable hydrocarbon detector |
| **The following apply only to S113 (Tank 158), S125 (Tank 170)** | | | | | | | |
| | **40 CFR 63 Subpart G – SOCMI HON**<br>**40 CFR 63 Subpart CC – NESHAPS for Petroleum Refineries**<br>**LIMITS AND MONITORING FOR EXTERNAL FLOATING ROOF TANKS** | | | | | | |
| HAP | 40 CFR 63.646(f) | Y | | Deck fitting closure standards | 40 CFR 63.646 (a) & (e) 63.120 (b)(10) | periodic initially & each time emptied & degassed | visual inspection |
| HAP | 40 CFR 63.646(a) 63.120 (b)(3)&(5) | Y | | Primary rim-seal standards; includes gap criteria | 40 CFR 63.646(a) 63.120 (b)(1) & (2) | periodic initially & at 5 yr intervals | measurement and visual inspection |
| HAP | 40 CFR 63.646(a) 63.120 (b)(4)&(6) | Y | | Secondary rim-seal standards; includes gap criteria | 40 CFR 63.646(a) 63.120 (b)(1) & (2) | periodic initially & annually | measurement and visual inspection |
| | **BAAQMD PERMIT CONDITIONS** | | | | | | |
| throughput | BAAQMD Condition 20989, Part A | N | | S113: 1.49 E 7 bbl/yr<br>S125: 1.05 E 7 bbl/yr<br>S261: 7.01 E 7 bbl/yr | BAAQMD Condition 20989, Part A | P/M | Records |
| throughput | BAAQMD Condition 20989, Part A | Y | | S183: 4.38 E 5 bbl/yr<br>S184: 4.38 E 6 bbl/yr | BAAQMD Condition 20989, Part A | P/M | records |

# VII. Applicable Limits and Compliance Monitoring Requirements

## Table VII – BB.19
## Applicable Limits and Compliance Monitoring Requirements
## RIVETED MACT EXTERNAL FLOATING ROOF TANK
## S216 (TANK 695)

| Type of Limit | Emission Limit Citation | FE Y/N | Future Effective Date | Emission Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| | **BAAQMD Regulation 8, Rule 5, Organic Compounds - STORAGE OF ORGANIC LIQUIDS LIMITS AND MONITORING FOR EXTERNAL FLOATING-ROOF TANKS** | | | | | | |
| VOC | BAAQMD 8-5-301 | Y | | Record of liquids stored and true vapor pressure | BAAQMD 8-5-501.1 | periodic initially and upon change of service | Records |
| VOC | BAAQMD 8-5-320 | Y | | Floating roof fitting closure standards; includes gasketed covers | BAAQMD 8-5-401.2 | P/SA | Measurement and visual inspection |
| VOC | BAAQMD 8-5-321 | Y | | Primary rim-seal standards; includes gap criteria | BAAQMD 8-5-401.1 | P/SA and every time a seal is replaced | Seal inspection |
| VOC | BAAQMD 8-5-322 | Y | | Secondary rim-seal standards; includes gap criteria | BAAQMD 8-5-401.1 | P/SA and every time a seal is replaced | Seal inspection |
| VOC | BAAQMD 8-5-328.1.2 | Y | | Concentration of < 10,000 ppm as methane after degassing | BAAQMD 8-5-503 | periodic each time emptied & degassed | Portable hydrocarbon detector |
| VOC | | Y | | Certification reports on tank inspections and source tests | BAAQMD 8-5-404 8-5-405 | periodic after each tank inspection and source test | reports |
| VOC | | Y | | Records of tank seal replacement | BAAQMD 8-5-501.2 | periodic after each tank seal replacement | records |
| VOC | | Y | | Determination of applicability | BAAQMD 8-5-604 | P/E | look-up table or sample analysis |

# VII. Applicable Limits and Compliance Monitoring Requirements

## Table VII – BB.19
## Applicable Limits and Compliance Monitoring Requirements
## RIVETED MACT EXTERNAL FLOATING ROOF TANK
## S216 (TANK 695)

| Type of Limit | Emission Limit Citation | FE Y/N | Future Effective Date | Emission Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| | **40 CFR 63, Subpart G – SOCMI HON**<br>**40 CFR 63, Subpart CC – NESHAPS for Petroleum Refineries**<br>**LIMITS AND MONITORING FOR EXTERNAL FLOATING ROOF TANKS** | | | | | | |
| HAP | 40 CFR 63.646(f) | Y | | Deck fitting closure standards | 40 CFR 63.646 (a) & (e) 63.120 (b)(10) | periodic initially & each time emptied & degassed | visual inspection |
| HAP | 40 CFR 63.646(a) 63.120 (b)(3)&(5) | Y | | Primary rim-seal standards; includes gap criteria | 40 CFR 63.646(a) 63.120 (b)(1) & (2) | periodic initially & at 5 yr intervals | measurement and visual inspection |
| HAP | 40 CFR 63.646(a) 63.120 (b)(4)&(6) | Y | | Secondary rim-seal standards; includes gap criteria | 40 CFR 63.646(a) 63.120 (b)(1) & (2) | periodic initially & annually | measurement and visual inspection |
| | **BAAQMD PERMIT CONDITIONS** | | | | | | |
| throughput | BAAQMD Condition 20989, Part A | N | | 4.6 E 6 bbl/yr | BAAQMD Condition 20989, Part A | P/M | Records |

# VII. Applicable Limits and Compliance Monitoring Requirements

## Table VII – BB.20
## Applicable Limits and Compliance Monitoring Requirements
## MACT EXTERNAL FLOATING-ROOF WASTEWATER SLOP OIL TANK W/O ZERO-GAP SEALS
## S134 (TANK 194)

| Type of Limit | Emission Limit Citation | FE Y/N | Future Effective Date | Emission Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| | **BAAQMD Regulation 8, Rule 5, Organic Compounds - STORAGE OF ORGANIC LIQUIDS LIMITS AND MONITORING FOR EXTERNAL FLOATING-ROOF TANKS** | | | | | | |
| VOC | BAAQMD 8-5-301 | Y | | Record of liquids stored and true vapor pressure | BAAQMD 8-5-501.1 | periodic initially and upon change of service | Records |
| VOC | BAAQMD 8-5-303.1 | Y | | Pressure vacuum valve set pressure within 10% of maximum allowable working pressure of the tank, or at least 0.5 psig | BAAQMD 8-5-403 | P/SA | visual inspection |
| VOC | BAAQMD 8-5-303.2 | Y | | Pressure vacuum valve must be gas-tight: < 500 ppm (as methane) above background | BAAQMD 8-5-403 8-5-503 8-5-605 | P/SA | Method 21 portable hydrocarbon detector |
| VOC | BAAQMD 8-5-320 | Y | | Floating roof fitting closure standards; includes gasketed covers | BAAQMD 8-5-401.2 | P/SA | Measurement and visual inspection |
| VOC | BAAQMD 8-5-321 | Y | | Primary rim-seal standards; includes gap criteria | BAAQMD 8-5-401.1 | P/SA and every time a seal is replaced | Seal inspection |
| VOC | BAAQMD 8-5-322 | Y | | Secondary rim-seal standards; includes gap criteria | BAAQMD 8-5-401.1 | P/SA and every time a seal is replaced | Seal inspection |
| VOC | BAAQMD 8-5-328.1.2 | Y | | Concentration of < 10,000 ppm as methane after degassing | BAAQMD 8-5-503 | periodic each time emptied & degassed | Portable hydrocarbon detector |
| VOC | | Y | | Certification reports on tank inspections and source tests | BAAQMD 8-5-404 8-5-405 | periodic after each tank inspection and source test | reports |

# VII. Applicable Limits and Compliance Monitoring Requirements

## Table VII – BB.20
## Applicable Limits and Compliance Monitoring Requirements
## MACT EXTERNAL FLOATING-ROOF WASTEWATER SLOP OIL TANK W/O ZERO-GAP SEALS
## S134 (TANK 194)

| Type of Limit | Emission Limit Citation | FE Y/N | Future Effective Date | Emission Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| VOC | | Y | | Records of tank seal replacement | BAAQMD 8-5-501.2 | periodic after each tank seal replacement | records |
| VOC | | Y | | Determination of applicability | BAAQMD 8-5-604 | P/E | look-up table or sample analysis |
| | **BAAQMD Regulation 8, Rule 8 – Organic Compounds – Wastewater (Oil Water Separators)** | | | | | | |
| VOC | BAAQMD 8-8-303 | Y | | Vapor tight gauging and sampling devices | BAAQMD 8-8-504 8-8-603 | N | Portable hydrocarbon detector |
| VOC | BAAQMD 8-8-305.1 | Y | | Slop oil tank vessel roof criteria; includes gap criteria | BAAQMD 8-8-305.1 | periodic initially & semi-annually | visual inspection |
| | **40 CFR 63, Subpart G – SOCMI HON**<br>**40 CFR 63, Subpart CC – NESHAPS for Petroleum Refineries**<br>**LIMITS AND MONITORING FOR EXTERNAL FLOATING ROOF TANKS** | | | | | | |
| HAP | 40 CFR 63.646(f) | Y | | Deck fitting closure standards | 40 CFR 63.646 (a) & (e) 63.120 (b)(10) | periodic initially & each time emptied & degassed | visual inspection |
| HAP | 40 CFR 63.646(a) 63.120 (b)(3)&(5) | Y | | Primary rim-seal standards; includes gap criteria | 40 CFR 63.646(a) 63.120 (b)(1) & (2) | periodic initially & at 5 yr intervals | measurement and visual inspection |
| HAP | 40 CFR 63.646(a) 63.120 (b)(4)&(6) | Y | | Secondary rim-seal standards; includes gap criteria | 40 CFR 63.646(a) 63.120 (b)(1) & (2) | periodic initially & annually | measurement and visual inspection |
| | **BAAQMD PERMIT CONDITIONS** | | | | | | |
| throughput | BAAQMD Condition 20989, Part A | N | | 1.31 E 7 bbl/yr | BAAQMD Condition 20989, Part A | P/M | records |

# VII. Applicable Limits and Compliance Monitoring Requirements

## Table VII – BB.21
## Applicable Limits and Compliance Monitoring Requirements
### EXEMPT TANKS SUBJECT TO MACT RECORDKEEPING
### S91 (TANK 73), S94 (TANK 78), S98 (TANK 101), S99 (TANK 102), S103 (TANK 106), S120 (TANK 165), S130 (TANK 188), S131 (TANK 189), S132 (TANK 191), S136 (TANK 201), S138 (TANK 203), S141 (TANK 213), S142 (TANK 214), S143 (TANK 215), S144 (TANK 216), S145 (TANK 217), S148 (TANK 231), S149 (TANK 232), S157 (TANK 252), S162 (TANK 262), S164 (TANK 264), S165 (TANK 265), S166 (TANK 266), S167 (TANK 268), S168 (TANK 269), S169 (TANK 270), S171 (TANK 273), S172 (TANK 279), S173 (TANK 280), S174 (TANK 281), S179 (TANK 291), S180 (TANK 292), S187 (TANK 299), S191 (TANK 303), S192 (TANK 304), S202 (TANK 521), S204 (TANK 528), S205 (TANK 529), S206 (TANK 530), S207 (TANK 531), S209 (TANK 674), S224 (TANK 746), S225 (TANK 747), S226 (TANK 748), S227 (TANK 749), S228 (TANK 750), S229 (TANK 751), S230 (TANK 752), S231 (TANK 753), S236 (TANK 770), S237 (TANK 771), S240 (TANK 774), S241 (TANK 775), S260 (TANK 1009), S262 (TANK 1011), S263 (TANK 1012), S266 (TANK 1345), S267 (TANK 1346), S286 (F3), S287 (F10), S293 (F805)

| Type of Limit | Emission Limit Citation | FE Y/N | Future Effective Date | Emission Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| | **BAAQMD Regulation 8, Rule 5 - Organic Compounds - STORAGE OF ORGANIC LIQUIDS Exempt per 8-5-117. Low vapor pressure** | | | | | | |
| POC | BAAQMD 8-5-117 & Condition 20773, Part 1 | Y | | Exemption from Regulation 8-5 when true vapor pressure is less than 25.8 mm Hg (0.5 psia). | BAAQMD 2-6-409.2 & Condition 20773, Part 2 | P/E | Vapor pressure determination upon material change |
| | **40 CFR 63, Subpart CC – NESHAP for Petroleum Refineries MONITORING FOR RECORDKEEPING ONLY** | | | | | | |
| **HAP** | 40 CFR 63.641 | Y | | Retain weight percent total organic HAP in stored liquid for Group 2 determination. | 40 CFR 63.654(i)(1)(iv) | periodic initially and upon change in service | Records |

# VII. Applicable Limits and Compliance Monitoring Requirements

## Table VII – BB.22
## Applicable Limits and Compliance Monitoring Requirements
### EXEMPT FIXED ROOF TANKS WITH VAPOR RECOVERY TO FUEL GAS
### S158 (TANK 258), S175 (TANK 284)

| Type of Limit | Emission Limit Citation | FE Y/N | Future Effective Date | Emission Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| | **BAAQMD Regulation 8, Rule 5 - Organic Compounds - STORAGE OF ORGANIC LIQUIDS**<br>**Exempt per 8-5-117. Low vapor pressure** | | | | | | |
| POC | BAAQMD 8-5-117 & Condition 20773, Part 1 | Y | | Exemption from Regulation 8-5 when true vapor pressure is less than 25.8 mm Hg (0.5 psia). | BAAQMD 2-6-409.2 & Condition 20773, Part 2 | P/E | Vapor pressure determination upon material change |
| **NONE** | **40 CFR 63 Subpart CC – NESHAPS for Petroleum Refineries**<br>**Exempt per 63.640(d)(5). Emission point routed to fuel gas system.** | | | | | | |

## Table VII – BB.23A
## Applicable Limits and Compliance Monitoring Requirements
### EXEMPT EXTERNAL FLOATING ROOF TANKS
### SUBJECT TO MACT RECORDKEEPING [+]
### BUT WITH GROUP I MACT FLEXIBILITY
### S108 (TANK 153), S109 (TANK 154), S127 (TANK 173)

| Type of Limit | Emission Limit Citation | FE Y/N | Future Effective Date | Emission Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| | **BAAQMD Regulation 8, Rule 5 - Organic Compounds - STORAGE OF ORGANIC LIQUIDS**<br>**Exempt per 8-5-117. Low vapor pressure** | | | | | | |
| POC | BAAQMD 8-5-117 & Condition 20773, Part 1 | Y | | Exemption from Regulation 8-5 when true vapor pressure is less than 25.8 mm Hg (0.5 psia). | BAAQMD 2-6-409.2 & Condition 20773, Part 2 | P/E | Vapor pressure determination upon material change |
| | **40 CFR 63, Subpart CC – NESHAP for Petroleum Refineries**<br>**MONITORING FOR RECORDKEEPING ONLY** | | | | | | |

[+] Sources S108, S109, and S127 currently contain low vapor pressure liquids, are exempt from BAAQMD permitting requirements, and fall under the MACT Group II requirements for recordkeeping. However, these tanks may be operated as MACT Group I tanks in the future. Table B23A shows the appropriate applicability for these tanks as MACT Group II tanks. Table B23B shows the appropriate applicability for these tanks as MACT Group I tanks including the BAAQMD Regulation 8, Rule 5 requirements for zero-gap secondary seals.

# VII. Applicable Limits and Compliance Monitoring Requirements

## Table VII – BB.23A
## Applicable Limits and Compliance Monitoring Requirements
## EXEMPT EXTERNAL FLOATING ROOF TANKS
## SUBJECT TO MACT RECORDKEEPING [+]
## BUT WITH GROUP I MACT FLEXIBILITY
## S108 (TANK 153), S109 (TANK 154), S127 (TANK 173)

| Type of Limit | Emission Limit Citation | FE Y/N | Future Effective Date | Emission Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| | **BAAQMD Regulation 8, Rule 5 - Organic Compounds - STORAGE OF ORGANIC LIQUIDS Exempt per 8-5-117. Low vapor pressure** | | | | | | |
| HAP | 40 CFR 63.641 | Y | | Retain weight percent total organic HAP in stored liquid for Group 2 determination. | 40 CFR 63.654(i)(1)(iv) | periodic initially and upon change in service | Records |

## Table VII – BB.23B
## Applicable Limits and Compliance Monitoring Requirements
## EXEMPT EXTERNAL FLOATING ROOF TANKS
## SUBJECT TO MACT RECORDKEEPING [+]
## BUT WITH GROUP I MACT FLEXIBILITY
## S108 (TANK 153), S109 (TANK 154), S127 (TANK 173)

| Type of Limit | Emission Limit Citation | FE Y/N | Future Effective Date | Emission Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| | **BAAQMD Regulation 8, Rule 5, Organic Compounds - STORAGE OF ORGANIC LIQUIDS LIMITS AND MONITORING FOR EXTERNAL FLOATING-ROOF TANKS** | | | | | | |
| VOC | BAAQMD 8-5-301 | Y | | Record of liquids stored and true vapor pressure | BAAQMD 8-5-501.1 | periodic initially and upon change of service | Records |
| VOC | BAAQMD 8-5-320 | Y | | Floating roof fitting closure standards; includes gasketed covers | BAAQMD 8-5-401.2 | P/SA | Measurement and visual inspection |

[+] Sources S108, S109, and S127 currently contain low vapor pressure liquids, are exempt from BAAQMD permitting requirements, and fall under the MACT Group II requirements for recordkeeping. However, these tanks may be operated as MACT Group I tanks in the future. Table B23A shows the appropriate applicability for these tanks as MACT Group II tanks. Table B23B shows the appropriate applicability for these tanks as MACT Group I tanks including the BAAQMD Regulation 8, Rule 5 requirements for zero-gap secondary seals.

# VII. Applicable Limits and Compliance Monitoring Requirements

## Table VII – BB.23B
## Applicable Limits and Compliance Monitoring Requirements
## EXEMPT EXTERNAL FLOATING ROOF TANKS
## SUBJECT TO MACT RECORDKEEPING +
## BUT WITH GROUP I MACT FLEXIBILITY
## S108 (TANK 153), S109 (TANK 154), S127 (TANK 173)

| Type of Limit | Emission Limit Citation | FE Y/N | Future Effective Date | Emission Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| VOC | BAAQMD 8-5-321 | Y | | Primary rim-seal standards; includes gap criteria | BAAQMD 8-5-401.1 | P/SA and every time a seal is replaced | Seal inspection |
| VOC | BAAQMD 8-5-322 | Y | | Secondary rim-seal standards; includes gap criteria | BAAQMD 8-5-401.1 | P/SA and every time a seal is replaced | Seal inspection |
| VOC | BAAQMD 8-5-328.1.2 | Y | | Concentration of < 10,000 ppm as methane after degassing | BAAQMD 8-5-503 | periodic each time emptied & degassed | Portable hydrocarbon detector |
| VOC | | Y | | Certification reports on tank inspections and source tests | BAAQMD 8-5-404 8-5-405 | periodic after each tank inspection and source test | Reports |
| VOC | | Y | | Records of tank seal replacement | BAAQMD 8-5-501.2 | periodic after each tank seal replacement | Records |
| VOC | | Y | | Determination of applicability | BAAQMD 8-5-604 | P/E | look-up table or sample analysis |
| | **40 CFR 63 Subpart G – SOCMI HON**<br>**40 CFR 63 Subpart CC – NESHAPS for Petroleum Refineries**<br>**LIMITS AND MONITORING FOR EXTERNAL FLOATING ROOF TANKS** | | | | | | |
| HAP | 40 CFR 63.646(f) | Y | | Deck fitting closure standards | 40 CFR 63.646 (a) & (e) 63.120 (b)(10) | periodic initially & each time emptied & degassed | visual inspection |
| HAP | 40 CFR 63.646(a) 63.120 (b)(3)&(5) | Y | | Primary rim-seal standards; includes gap criteria | 40 CFR 63.646(a) 63.120 (b)(1) & (2) | periodic initially & at 5 yr intervals | measurement and visual inspection |

# VII. Applicable Limits and Compliance Monitoring Requirements

## Table VII – BB.23B
## Applicable Limits and Compliance Monitoring Requirements
## EXEMPT EXTERNAL FLOATING ROOF TANKS
## SUBJECT TO MACT RECORDKEEPING +
## BUT WITH GROUP I MACT FLEXIBILITY
## S108 (TANK 153), S109 (TANK 154), S127 (TANK 173)

| Type of Limit | Emission Limit Citation | FE Y/N | Future Effective Date | Emission Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| HAP | 40 CFR 63.646(a) 63.120 (b)(4)&(6) | Y | | Secondary rim-seal standards; includes gap criteria | 40 CFR 63.646(a) 63.120 (b)(1) & (2) | periodic initially & annually | measurement and visual inspection |

## Table VII – BB.24
## Applicable Limits and Compliance Monitoring Requirements
## NSPS K EXEMPT TANKS SUBJECT TO MACT RECORDKEEPING
## S90 (TANK 67), S105 (TANK 129)

| Type of Limit | Emission Limit Citation | FE Y/N | Future Effective Date | Emission Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| | **BAAQMD Regulation 8, Rule 5 - Organic Compounds - STORAGE OF ORGANIC LIQUIDS Exempt per 8-5-117. Low vapor pressure** | | | | | | |
| POC | BAAQMD 8-5-117 & Condition 20773, Part 1 | Y | | Exemption from Regulation 8-5 when true vapor pressure is less than 25.8 mm Hg (0.5 psia). | BAAQMD 2-6-409.2 & Condition 20773, Part 2 | P/E | Vapor pressure determination upon material change |
| | **40 CFR 60, Subpart K – NSPS for Petroleum Storage Vessels [1] 40 CFR 63, Subpart CC – NESHAP for Petroleum Refineries MONITORING FOR RECORDKEEPING ONLY** | | | | | | |
| HAP | 63.640(n)(7) 63.641 | Y | | Retain weight percent total organic HAP in stored liquid for Group 2 determination. | 63.654(i)(1)(iv) | periodic initially and upon change in service | Records |

[1] Group 2 storage vessels as defined in 40 CFR 63, Subpart CC (MACT) that are subject to NSPS K but are exempt from control requirements in NSPS K are subject only to MACT per 63.640(n)(7).

# VII. Applicable Limits and Compliance Monitoring Requirements

## Table VII – BB.25
## Applicable Limits and Compliance Monitoring Requirements
### EXEMPT BUTANE SPHERES
### S188 (TANK 300), S189 (TANK 301), S190 (TANK 302), S253 (TANK 833)

| Type of Limit | Emission Limit Citation | FE Y/N | Future Effective Date | Emission Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| | **BAAQMD Regulation 8, Rule 5, Organic Compounds - STORAGE OF ORGANIC LIQUIDS LIMITS AND MONITORING FOR PRESSURE TANKS** | | | | | | |
| VOC | BAAQMD 8-5-301 | Y | | Record of liquids stored and true vapor pressure | BAAQMD 8-5-501.1 | periodic initially and upon change of service | records |
| VOC | BAAQMD 8-5-303.1 | Y | | Pressure vacuum valve set pressure within 10% of maximum allowable working pressure of the tank, or at least 0.5 psig | BAAQMD 8-5-403 | P/SA | visual inspection |
| VOC | BAAQMD 8-5-303.2 | Y | | Pressure vacuum valve must be gas-tight: < 500 ppm (as methane) above background | BAAQMD 8-5-403 8-5-503 8-5-605 | P/SA | Method 21 portable hydrocarbon detector |
| VOC | BAAQMD 8-5-307 | Y | | Pressure tank must be gas tight: < 100 ppm (as methane) above background | BAAQMD 8-5-503 8-5-605 | not specified | Method 21 portable hydrocarbon detector |
| VOC | BAAQMD 8-5-328.1.2 | Y | | Organic concentration in tank <10,000 ppm as methane after cleaning | BAAQMD 8-5-503 | periodic each time emptied & degassed | portable hydrocarbon detector |
| VOC | | Y | | Determination of applicability | BAAQMD 8-5-604 | P/E | look-up table or sample analysis |
| **NONE** | **40 CFR 63, Subpart CC – NESHAPS for Petroleum Refineries Exempt per 63.640(d)(5). Emission point routed to fuel gas system** | | | | | | |
| **The following applies to S188 only** | | | | | | | |
| **NONE** | **40 CFR 60, Subpart Kb – NESHAPS for Petroleum Refineries Exempt per 60.110b(d)(2). Pressure vessel designed to operate in excess of 204.9 kPa and without emissions to the atmosphere.** | | | | | | |

# VII. Applicable Limits and Compliance Monitoring Requirements

## Table VII – BB.27
## Applicable Limits and Compliance Monitoring Requirements
## NSPS Kb Exempt Fixed Roof Wastewater Tanks Vented to Fuel Gas
## Tank 235, Tank 236

| Type of Limit | Emission Limit Citation | FE Y/N | Future Effective Date | Emission Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| | **BAAQMD Regulation 8, Rule 5 - Organic Compounds - STORAGE OF ORGANIC LIQUIDS**<br>**Exempt per 8-5-117. Low vapor pressure** | | | | | | |
| POC | BAAQMD 8-5-117 & Condition 20773, Part 1 | Y | | Exemption from Regulation 8-5 when true vapor pressure is less than 25.8 mm Hg (0.5 psia). | BAAQMD 2-6-409.2 & Condition 20773, Part 2 | P/E | Vapor pressure determination upon material change |
| **NONE** | **40 CFR 63, Subpart CC – NESHAPS for Petroleum Refineries**<br>**Exempt per 63.640(d)(5). Emission point routed to fuel gas system.** | | | | | | |
| | **40 CFR 60, Subpart Kb - NSPS for VOL Storage Vessels at Petroleum Refineries**<br>**RECORDKEEPING ONLY** | | | | | | |
| Vapor pressure | 40 CFR 60.110b(c) | Y | | True vapor pressure less than 3.5 kPa. | 40 CFR 60.116b(b) | P/E | Record |
| **NSPS QQQ** | **60 Subpart QQQ – VOC Emissions from Petroleum Refinery Wastewater Systems** | | | | | | |
| VOC | 40 CFR 60.692-3(a) | Y | | Fixed roof closure standards | 40 CFR 60.692-3(a)(4) | periodic initially and semi-annually | Visual inspection |
| VOC | | Y | | Problems identified during 60.692-3(a) inspections that could result in VOC emissions | 40 CFR 60.697(c) | periodic when problem is identified | Records |
| VOC | | Y | | Problems identified during 60.692-3(a) inspections that could result in VOC emissions | 40 CFR 60.698(c) | periodic initially and semi-annually | Report |

# VII. Applicable Limits and Compliance Monitoring Requirements

## Table VII – BB.28
## Applicable Limits and Compliance Monitoring Requirements
### NSPS Kb Exempt Fixed Roof Wastewater Tank
### Tank 237

| Type of Limit | Emission Limit Citation | FE Y/N | Future Effective Date | Emission Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| | **BAAQMD Regulation 8, Rule 5 - Organic Compounds - STORAGE OF ORGANIC LIQUIDS**<br>**Exempt per 8-5-117. Low vapor pressure** | | | | | | |
| POC | BAAQMD 8-5-117 & Condition 20773, Part 1 | Y | | Exemption from Regulation 8-5 when true vapor pressure is less than 25.8 mm Hg (0.5 psia). | BAAQMD 2-6-409.2 & Condition 20773, Part 2 | P/E | Vapor pressure determination upon material change |
| **NONE** | **40 CFR 63 Subpart CC – NESHAPS for Petroleum Refineries**<br>**NO MONITORING REQUIREMENTS FOR GROUP 2 WASTEWATER SOURCES** | | | | | | |
| | **40 CFR 60 Subpart Kb - NSPS for VOL Storage Vessels at Petroleum Refineries**<br>**RECORDKEEPING ONLY** | | | | | | |
| Vapor pressure | 40 CFR 60.110b(c) | Y | | True vapor pressure less than 3.5 kPa. | 40 CFR 60.116b(b) | P/E | Record |
| Vapor pressure | | Y | | TVP exceedances (> 5.2 kPa). | 40 CFR 60.116b(d) | periodic within 30 days of exceedance | Notification |
| | **40 CFR 60, Subpart QQQ – VOC Emissions from Petroleum Refinery Wastewater Systems** | | | | | | |
| VOC | 40 CFR 60.692-3(a) | Y | | Fixed roof closure standards | 40 CFR 60.692-3(a)(4) | periodic initially and semi-annually | Visual inspection |
| VOC | | Y | | Problems identified during 60.692-3(a) inspections that could result in VOC emissions | 40 CFR 60.697(c) | periodic when problem is identified | Records |
| VOC | | Y | | Problems identified during 60.692-3(a) inspections that could result in VOC emissions | 40 CFR 60.698(c) | periodic initially and semi-annually | Report |

# VII. Applicable Limits and Compliance Monitoring Requirements

## Table VII – BB.29
## Applicable Limits and Compliance Monitoring Requirements
## NSPS KB EXEMPT FIXED ROOF TANK
## TANK 224

| Type of Limit | Emission Limit Citation | FE Y/N | Future Effective Date | Emission Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| | **BAAQMD Regulation 8, Rule 5 - Organic Compounds - STORAGE OF ORGANIC LIQUIDS**<br>**Exempt per 8-5-117. Low vapor pressure** | | | | | | |
| POC | BAAQMD 8-5-117 & Condition 20773, Part 1 | Y | | Exemption from Regulation 8-5 when true vapor pressure is less than 25.8 mm Hg (0.5 psia). | BAAQMD 2-6-409.2 & Condition 20773, Part 2 | P/E | Vapor pressure determination upon material change |
| | **40 CFR 60, Subpart Kb - NSPS for VOL Storage Vessels at Petroleum Refineries**<br>**40 CFR 63, Subpart CC – National Emission Standards for Hazardous Air Pollutants for Petroleum Refineries**<br>**RECORDKEEPING ONLY** | | | | | | |
| Vapor pressure | 40 CFR 63.640(n)(1) 60.110b(c) | Y | | True vapor pressure less than 3.5 kPa. | 40 CFR 63.640(n)(8) 60.116b(b) | P/E | Record |
| Vapor pressure | | Y | | TVP exceedances (> 5.2 kPa). | 40 CFR 60.116b(d) | periodic within 30 days of exceedance | Notification |

## Table VII – BB.30
## Applicable Limits and Compliance Monitoring Requirements
## EXEMPT EXTERNAL FLOATING ROOF WASTEWATER TANKS
## TANK 206, TANK 207

| Type of Limit | Emission Limit Citation | FE Y/N | Future Effective Date | Emission Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| | **BAAQMD Regulation 8, Rule 5 - Organic Compounds - STORAGE OF ORGANIC LIQUIDS**<br>**Exempt per 8-5-117. Low vapor pressure** | | | | | | |
| POC | BAAQMD 8-5-117 & Condition 20773, Part 1 | Y | | Exemption from Regulation 8-5 when true vapor pressure is less than 25.8 mm Hg (0.5 psia). | BAAQMD 2-6-409.2 & Condition 20773, Part 2 | P/E | Vapor pressure determination upon material change |
| **NONE** | **63 Subpart CC – NESHAPS for Petroleum Refineries**<br>**NO MONITORING REQUIREMENTS FOR GROUP 2 WASTEWATER SOURCES** | | | | | | |

# VII. Applicable Limits and Compliance Monitoring Requirements

## Table VII – CC.1
## Applicable Limits and Compliance Monitoring Requirements
## S452, S453, S455, S457, S458, S500, COOLING TOWERS

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| Opacity | BAAQMD Regulation 6-301 | Y | | Ringelmann No. 1 for no more than 3 minutes/hour | None | N | None |
| FP | BAAQMD 6-310 | Y | | 0.15 grain/dscf | None | N | None |
| | BAAQMD 6-311 | Y | | 40 lb/hr | None | N | None |
| PM | | | | None | BAAQMD Condition 22121, part 4 | P/M | Analysis total dissolved solids |
| Organic com-pounds | BAAQMD 8-2-301 | Y | | 300 ppm as carbon and 15 lb organic compounds/day | BAAQMD Condition 22121, part 1 | P/D | Visual inspection |
| Organic com-pounds | BAAQMD 8-2-301 | Y | | 300 ppm as carbon and 15 lb organic compounds/day | BAAQMD Condition 22121, part 2 | P/3 times per week | Analysis of chlorine content |
| | BAAQMD 8-2-301 | Y | | 300 ppm as carbon and 15 lb organic compounds/day | BAAQMD Condition 22121, part 6 | P/E, after 4 weeks of indication of hydrocarbon leak | Estimate of daily VOC loss |
| | BAAQMD 8-2-301 | Y | | 300 ppm as carbon and 15 lb organic compounds/day | BAAQMD Condition 22121, part 2 | P/M | VOC analysis |
| Chloro-form | | | | None | BAAQMD Condition 22121, part 3 | P/M | Records of NaOCl usage |

# VII. Applicable Limits and Compliance Monitoring Requirements

## Table VII – CC.2
## Applicable Limits and Compliance Monitoring Requirements
## S456, COOLING TOWER

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|---|---|---|---|---|---|
| Opacity | BAAQMD Regulation 6-301 | Y | | Ringelmann No. 1 for no more than 3 minutes/hour | None | N | None |
| FP | BAAQMD 6-310 | Y | | 0.15 grain/dscf | None | N | None |
| PM | | | | None | BAAQMD Condition 22122, part 2 | P/M | Analysis total dissolved solids |
| Organic com-pounds | BAAQMD 8-2-301 | Y | | 300 ppm as carbon and 15 lb organic compounds/day | BAAQMD Condition 22122, part 1 | P/D | Visual inspection |
| | | | | None | BAAQMD Condition 22122, part 4 | P/E, after 4 weeks of indication of hydrocarbon leak | Estimate of daily VOC loss |

# VIII. TEST METHODS

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

**Table VIII**
**Test Methods**

| Applicable Requirement | Description of Requirement | Acceptable Test Methods |
|---|---|---|
| **BAAQMD Regulations** | | |
| 6-301 | Ringelmann No. 1 Limitation | Manual of Procedures, Volume I, Evaluation of Visible Emissions; EPA Method 9 |
| 6-304 | Tube Cleaning | Manual of Procedures, Volume I, Evaluation of Visible Emissions |
| 6-310 | Particulate Weight Limitation | Manual of Procedures, Volume IV, ST-15, Particulates Sampling U.S. EPA Method 5 |
| 6-311 | General Operations | Manual of Procedures, Volume IV, ST-15, Particulates Sampling U.S. EPA Method 5 |
| 8-2-301 | VOC Emission Limit for Miscellaneous Operations | Manual of Procedures, Volume IV, ST-7 or EPA Method 25 or 25A |
| 8-5-301 | Tank Emission Control System Requirements, 95% Abatement Efficiency | Manual of Procedures, Volume IV, ST-4 |
| 8-5-303.2 8-5-306, and 8-5-307 | Gas Tight Requirements for Organic Liquid Storage Tanks | Organic compounds shall be measured using a portable gas detector as prescribed in EPA Reference Method 21 (60, Appendix A) |
| 8-5-320 | Floating Roof Tank (internal and external) tank fitting gap measurement | Physical measurements as described in BAAQMD 8-5-320 when required in BAAQMD 8-5-401 or BAAQMD 8-5-402. |
| 8-5-321 | Floating Roof Tank (internal and external) primary rim seal gap measurement | Physical measurements as described in BAAQMD 8-5-321 when required in BAAQMD 8-5-401 or BAAQMD 8-5-402. |
| 8-5-322 | Floating Roof Tank (internal and external) secondary rim seal gap measurement | Physical measurements as described in BAAQMD 8-5-322 when required in BAAQMD 8-5-401 or BAAQMD 8-5-402. |
| 8-5-328.1.2 | Tank Degassing Emission Control System Requirements | Manual of Procedures, Volume IV, ST-7 |

# VIII. Test Methods

## Table VIII
## Test Methods

| Applicable Requirement | Description of Requirement | Acceptable Test Methods |
|---|---|---|
| 8-7-301 | Phase I Vapor Recovery Requirements | Manual of Procedures, Volume IV, ST-30, Gasoline Vapor Recovery Leak Test Procedure; and ST-36, Gasoline Dispensing Facility Phase I Volumetric Efficiency |
| 8-7-302 | Phase II Vapor Recovery Requirements | Manual of Procedures, Volume IV, ST-30, Vapor Tightness; ST-37, Liquid Removal; and ST-41, Liquid Retain and Spitting from Nozzles |
| 8-8-302.3 | Oil-Water Separator Vapor Recovery System Requirements | Manual of Procedures, Volume IV, ST-7 or EPA Method 25 or 25A |
| 8-8-307.2 | Air Flotation Unit Vapor Recovery System Requirements | Manual of Procedures, Volume IV, ST-7 or EPA Method 25 or 25A |
| 8-8-504 | Portable Hydrocarbon Detector | A gas detector that meets the specifications and performance criteria of and has been calibrated in accordance with EPA Reference Method 21 (60, Appendix A) |
| 8-8-601 | Wastewater Analysis for Critical OCs | Samples of wastewater shall be taken at the influent stream for each unit and analyzed for the concentration of dissolved critical organic compounds as prescribed in the District's Manual of Procedures, Volume III, Lab Method 33. |
| 8-8-602, 8-8-301.3, 8-8-302.3, 8-8-304, 8-8-305.2, 8-8-306.2, and 8-8-307.2 | Determination of Emissions | Emissions of POCs, as specified in Sections 8-8-301.3, 8-8-302.3, 8-8-304, 8-8-305.2, 8-8-306.2, and 8-8-307.2 shall be measured by as prescribed by any of the following methods: 1). BAAQMD MOP, Volume IV, ST-7 or; 2). EPA Method 25 or 25(A). |
| 8-8-603, 8-8-301, 8-8-302, 8-8-303, and 8-8-304 | Inspection Procedures | For the purposes of 8-8-301, 302, 303, and 304, leaks shall be measured using a portable gas detector as prescribed in EPA Reference Method 21 (60, Appendix A) |
| 8-18 | Fugitive Emission Monitoring Requirements | EPA Method 21 |

# VIII. Test Methods

## Table VIII
## Test Methods

| Applicable Requirement | Description of Requirement | Acceptable Test Methods |
|---|---|---|
| 8-44-304.1 | POC emission rate limitation during marine tank vessel loading | Manual of Procedures, ST-34, Bulk Marine Loading Terminals, Vapor Recovery Units or<br>EPA Method 25, Determination of Total Gaseous Nonmethane Organic Emissions , or<br>EPA Method 25A, Determination of Total Gaseous Organic Concentration Using a Flame Ionization Analyzer, or<br>alternate method approved in writing by the APCO and U.S. EPA |
| 8-44-305 | Tank vessel is leak free and gas tight | EPA Method 21, Determination of Volatile Organic Compounds Leaks |
| 8-44-603 | Leak Tests and Gas Tight Determinations | EPA Method 21, Determination of Volatile Organic Compounds Leaks |
| 8-44-604 | Flash Point Determinations | ASTM Standard Test Method D56 ("Standard Test Method for Flash Point by Tag Closed Cup Tester") or ASTM Standard Test Method D93 ("Standard Test Methods for Flash Point by Pensky-Martens Closed Cup Tester"), whichever is applicable, or by an alternate method approved in writing by the APCO and U.S. EPA. |
| **SIP Regulations** | | |
| 8-44-301.1<br>8-44-301.2 | POC emission rate limitation during marine tank vessel loading | Manual of Procedures, ST-34, Bulk Marine Loading Terminals, Vapor Recovery Units |
| 8-44-303 | Tank vessel is leak free and gas tight | EPA Method 21, Determination of Volatile Organic Compounds Leaks |
| 8-44-603 | Leak Tests and Gas Tight Determinations | EPA Method 21, Determination of Volatile Organic Compounds Leaks |
| **BAAQMD Regulations** | | |
| 9-1-301,<br>9-2-301,<br>9-1-604 | Ground Level Monitoring | Manual of Procedures, Volume VI, Section 1, Area Monitoring |
| 9-1-501,<br>9-1-502,<br>9-2-501 | Continuous Monitoring | Manual of Procedures, Volume 5, Continuous Monitoring |

# VIII. Test Methods

## Table VIII
## Test Methods

| Applicable Requirement | Description of Requirement | Acceptable Test Methods |
|---|---|---|
| 9-1-313 | NH3 and H2S abatement efficiency | Manual of Procedures, Volume III, Lab 32, Determination of H2S in Process Water Streams<br>Manual of Procedures, Volume III, Lab 1, Determination of NH3 in Effluents |
| 9-9-301.3 | Emission Limits: Turbines Rated > 10 MW with SCR | Manual of Procedures, Volume IV, ST-13A, Oxides of Nitrogen, Continuous Sampling and<br>ST-14, Oxygen, Continuous Sampling |
| 9-10-301 | Refinery-Wide $NO_x$ Emission Limit | Manual of Procedures, Volume V and Manual of Procedures, Volume IV, ST-13A or B (nitrogen oxides) and ST-14 (oxygen) |
| 9-10-303.1 | $NO_x$ Emission Limit | Manual of Procedures, Volume V and Manual of Procedures, Volume IV, ST-13A or B (nitrogen oxides) and ST-14 (oxygen) |
| 9-10-305 | CO Emission Limit | Manual of Procedures, Volume V and Manual of Procedures, Volume IV, ST-6 (carbon monoxide) for CEM verification by source test |
| **40 CFR 60, Subpart A** | **New Source Performance Standards – General Provisions (12/23/71)** | |
| 60.18(c)(1) | Visible emission monitoring | EPA Method 22: Visible Emissions |
| **40 CFR 60, Subpart Db** | **Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units (3/13/00)** | |
| 60.44b(a)<br>60.44b(e) | $NO_x$ Emission Limit | 40 CFR 60, Appendix B, Performance Specification 2 |
| **40 CFR 60, Subpart J** | **Standards of Performance for Petroleum Refineries (7/1/00)** | |
| 60.104(a)(1) | Fuel Gas H2S Concentration Limit | 40 CFR 60, Appendix B, Performance Specification 7 and Method 11 for Relative Accuracy |

# VIII. Test Methods

## Table VIII
## Test Methods

| Applicable Requirement | Description of Requirement | Acceptable Test Methods |
|---|---|---|
| 40 CFR 60 Subpart J, 60.104(a)(2)(i) | SO2 limit | EPA Method 6, Determination of sulfur dioxide emissions from stationary sources, or<br>EPA Method 6c, Determination of Sulfur Dioxide Emissions From Stationary Sources (Instrumental Analyzer Procedure), and Method 3, Gas analysis for the determination of dry molecular weight, or<br>Method 3A, Determination of Oxygen and Carbon Dioxide Concentrations in Emissions From Stationary Sources (Instrumental Analyzer Procedure), and<br>Method 4, Determination of moisture content in stack gases, and Method 15, Determination of hydrogen sulfide, carbonyl sulfide, and carbon disulfide emissions from stationary sources |
| 60.106(f)(3) | H2S concentration monitoring | EPA Method 3: O2 |
| 60.106(f)(1) | SO2 concentration monitoring | EPA Method 6: SO2 |
| 60.106(e) | H2S concentration monitoring | EPA Method 11: H2S |
| 60.106(f)(2) | TRS concentration monitoring | EPA Method 15: Total Reduced Sulfur |
| **40 CFR 60, Subpart Kb** | **Standards of Performance for Volatile Organic Liquid Storage Vessels** | |
| 60.112b (a)(3)(i) | NSPS Subpart Kb Closed Vent System – leak detection | 40 CFR 60, Appendix A, Method 21 as specified in 40 CFR 60, Subpart VV 60.485(b) |
| 60.112b (a)(3)(ii) | NSPS Subpart Kb Closed Vent System Performance (95% efficiency) | 40 CFR 60, Subpart Kb 60.113b(c) Testing and Procedures |
| 60.113b (b)(4)(i) | NSPS Subpart Kb External Floating Roof Tank primary rim seal gap measurement | 40 CFR 60, Subpart Kb 60.113b(b)(1) through 60.113b(b)(3) Testing and Procedures |
| 60.113b (b)(4)(ii) | NSPS Subpart Kb External Floating Roof Tank secondary rim seal gap measurement | 40 CFR 60, Subpart Kb 60.113b(b)(1) through 60.113b(b)(3) Testing and Procedures |
| **40 CFR 60, Subpart GG** | **Standards of Performance for Stationary Gas Turbines (1/27/82)** | |
| 60.332 (a)(1) | Performance Standard, NOx | EPA Method 20, Determination of Nitrogen Oxides, Sulfur Dioxide, and Diluent Emissions from Stationary Gas Turbines |

# VIII. Test Methods

## Table VIII
## Test Methods

| Applicable Requirement | Description of Requirement | Acceptable Test Methods |
|---|---|---|
| 60.332 (a)(2) | Performance Standard, NOx | EPA Method 20, Determination of Nitrogen Oxides, Sulfur Dioxide, and Diluent Emissions from Stationary Gas Turbines |
| 60.333 (a) | SO2 Volumetric Emission Limit | EPA Method 20, Determination of Nitrogen Oxides, Sulfur Dioxide, and Diluent Emissions from Stationary Gas Turbines |
| 60.333 (b) | Fuel Sulfur Limit (gaseous fuel) | ASTM D 1072-80, Standard Method for Total Sulfur in Fuel Gases<br>ASTM D 3031-81, Standard Test Method for Total Sulfur in Natural Gas by Hydrogenation<br>ASTM D 4084-82, Standard Method for Analysis of Hydrogen Sulfide in Gaseous Fuels (Lead Acetate Reaction Rate Method),<br>ASTM D 3246-81, Standard Method for Sulfur in Petroleum Gas by Oxidative Microcoulometry |
| 60.333 (b) | Fuel Sulfur Limit (liquid fuel) | ASTM D 2880-71, Standard Specification for Gas Turbine Fuel Oils |
| 60, Appendix A | Inspection Procedures | EPA Reference Method 21 |
| **40 CFR 60, Subpart VV** | **Standards of Performance for Equipment Leaks of VOC in SOCMI** | |
| 60.482-2(b)(1) | Pumps in light liquid service – leak detection | 40 CFR 60, Appendix A, Method 21 as specified in 60 Subpart VV 60.485(b) |
| 60.482-2(e) | Pumps in light liquid service and designated for "no detectable emission" – leak detection | 40 CFR 60, Appendix A, Method 21 as specified in 60 Subpart VV 60.485(c) |
| 60.482-3 | Compressors designated for "no detectable emission" – leak detection | 40 CFR 60, Appendix A, Method 21 as specified in 60 Subpart VV 60.485(c) |
| 60.482-4(b) | Pressure relief valve (gas/vapor) no detectable emissions after a pressure release event. | 40 CFR 60, Appendix A, Method 21 as specified in 60 Subpart VV 60.485(c) |
| 60.482-7(b) | Valves in gas/vapor service and in light liquid service – leak detection. | 40 CFR 60, Appendix A, Method 21 as specified in 60 Subpart VV 60.485(b) |
| 60.482-7(f) | Valves in gas/vapor service and in light liquid service and designated for "no detectable emission" – leak detection | 40 CFR 60, Appendix A, Method 21 as specified in 60 Subpart VV 60.485(c) |

# VIII. Test Methods

## Table VIII
## Test Methods

| Applicable Requirement | Description of Requirement | Acceptable Test Methods |
|---|---|---|
| 60.482-7(h) | Valves in gas/vapor service and in light liquid service and designated as difficult-to-monitor. | 40 CFR 60, Appendix A, Method 21 once per year in accordance with written plan (60.482-7(h)(3) |
| 60.482-8(b) | Pumps and valves in heavy liquid service, pressure relief devices (liquid), and flanges and other connectors – leak detection | 40 CFR 60, Appendix A, Method 21 as specified in 60 Subpart VV 60.485(b) |
| 60.483-2 | Individual valves meeting criteria for skip period leak detection – leak detection | 40 CFR 60, Appendix A, Method 21 as specified in 60 Subpart VV 60.485(b) |
| **40 CFR 60, Subpart QQQ** | **Standards of Performance For Petroleum Refinery Wastewater Systems** | |
| 60.696 | Performance test methods and procedures and compliance provisions | Sources equipped with a closed-vent system and control device shall use EPA Method 21 to measure the emission concentrations, using 500 ppm as the no detectable emission limit. Acceptable seal gap criteria also included. |
| 60.696 | Leak inspection procedures | EPA reference method 21 (40 CFR 60, Appendix A), Determination of Volatile Organic Compound Leaks |
| **40 CFR 63, Subpart CC** | **National Emissions Standards for Hazardous Air Pollutants from Petroleum Refineries – General Standards** | |
| 63.646(a)<br>63.120(b)(3)<br>63.120(b)(5) | Refinery MACT (63 Subpart CC) Group 1 external floating roof tanks primary rim-seal gap measurement | 40 CFR 63, Subpart G 60.120(b)(1) and 60.120(b)(2) Procedures to Determine Compliance |
| 63.646(a)<br>63.120(b)(4)<br>63.120(b)(6) | Refinery MACT (63 Subpart CC) Group 1 external floating roof tanks secondary rim-seal gap measurement | 40 CFR 63, Subpart G 60.120(b)(1) and 60.120(b)(2) Procedures to Determine Compliance |

# VIII. Test Methods

## Table VIII
## Test Methods

| Applicable Requirement | Description of Requirement | Acceptable Test Methods |
|---|---|---|
| **California Air Resources Board (CARB)** | | |
| BAAQMD Condition 18680, Part 2 | Gasoline dispensing facility leak test | CARB Test Procedure TP201.1B: "Rotatable Adaptor Torque Test" |
| BAAQMD Condition 18680, Part 2 | Gasoline dispensing facility leak test | CARB Test Procedure TP201.1C: "Drop Tube/Drain Valve Assembly" |
| BAAQMD Condition 18680, Part 2 | Gasoline dispensing facility leak test | CARB Test Procedure TP201.1D: "Drop Tube Overfill Prevention Device and Spill Container Drain Valve Leak Test" |
| **BAAQMD Conditions** | | |
| Condition 4336, part 4 | Leak test | EPA Method 21, Determination of Volatile Organic Compounds Leaks |
| Condition 4336, part 9 | POC emission rate limitation during barge loading | Manual of Procedures, ST-34, Bulk Marine Loading Terminals, Vapor Recovery Units or<br>EPA Method 25, Determination of Total Gaseous Nonmethane Organic Emissions , or<br>EPA Method 25A, Determination of Total Gaseous Organic Concentration Using a Flame Ionization Analyzer, or<br>alternate method approved in writing by the APCO and U.S. EPA |
| Condition 4336, part 11 | Alternative monitoring for compliance with 40 CFR 60.104(a)(1) H2S limit | ASTM Method 4913-00, Standard Practice for Determining Concentration of Hydrogen Sulfide by Reading Length of Stain, Visual Chemical Detectors |

# 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
### ALL SOURCES

| Citation | Title or Description<br>(Reason not applicable) |
|---|---|
| **BAAQMD Regulation 8, Rule 51** | **"Organic Compounds – Adhesive and Sealant Products" (7/17/02)**<br>The applicant has certified that none of the regulated activities specified in this rule are currently taking place at this facility. |
| **BAAQMD Regulation 11, Rule 1** | **"Hazardous Pollutants – Lead" (3/17/82)**<br>The applicant has certified that there are no sources at this facility with the potential to emit in excess of 15 pounds per day (11-1-301) each, or with the potential to result in ground level lead concentrations in excess of 1.0 microgram/m3 averaged over 24 hours (11-1-302). |
| **60.692-3(b)** | This subsection of NSPS Subpart QQQ requires vents on oil-water separators to be routed through a closed vent system to a control device. The applicant's separator has a fixed roof that is in full contact with the liquid and does not contain any vents. As indicated in Table IV-C, applicant is subject to BAAQMD Regulation 8-8-302.1, which requires a "solid, vapor-tight, full contact cover which totally encloses the separator tank, chamber or basin (compartment) liquid contents, with all cover openings closed and sealed." Since no vents exist, there is nothing to route to a control device, so this subsection of Subpart QQQ does not apply. |

# IX. Permit Shield

## Table IX B - 2
## Permit Shield for Subsumed Requirements
## S352 – COMBUSTION TURBINE
## S353 – COMBUSTION TURBINE
## S354 – COMBUSTION TURBINE

| Subsumed Requirement Citation | Title or Description | Streamlined Requirements | Title or Description |
|---|---|---|---|
| NSPS Subpart GG, 60.334(a) | Install and operate a continuous monitoring system to monitor and record the ratio of water to fuel being fired in the turbine. | BAAQMD 9-9-501, Permit Condition 12122, Part 9b, Permit Condition 18629, Part IX.G.1.a., and proposed Subpart GG Amendments: 60.334(b). | Per BAAQMD regulations and permit conditions, ConocoPhillips has equipped the turbines with NOx CEMs in lieu of monitoring the water-to-fuel-ratio being fired in the turbines. Further, proposed amendments to Subpart GG (FR 17990), allow facilities to install and operate a NOx CEM in lieu of water to fuel ratio monitoring. |
| NSPS Subpart GG, 60.334(b) | Monitor nitrogen content of the fuel being fired in the turbine. | Proposed Subpart GG Amendments: 60.334(h)(2). | Per proposed amendments to Subpart GG (FR 17990), facilities that elect to take no allowance for fuel bound nitrogen in determining the applicable NOx standard are not required to monitor nitrogen fuel content. ConocoPhillips will elect to take this approach when the proposed amendments become effective (May 29, 2003), resulting in a revised NOx standard per 60.332(a)(2) of 150 ppmv at 15% O2 with no fuel bound nitrogen monitoring. |
| NSPS Subpart GG, 60.334(c)(1) | Definition of excess nitrogen oxide emissions for purposes of reports under 60.7(c) is based on any one-hour period during which the average water-to-fuel ratio falls below the water-to-fuel ratio determined to demonstrate compliance by the performance test required in 60.8.. | BAAQMD 9-9-501, Permit Condition 12122, Part 9b, Permit Condition 18629, Part IX.G.1.a., and proposed Subpart GG Amendments: 60.334(j)(1)(iii). | Per proposed amendments to Subpart GG (FR 17990), the definition of excess emissions is revised for facilities that install and operate a NOx CEMS in lieu of water to fuel ratio monitoring. The revised definition is based on an operating hour in which the 4-hour rolling average NOx concentration as measured by the CEM exceeds the 60.332(a)(2) limit. |

# X. REVISION HISTORY

| | |
|---|---|
| Initial Major Facility Review Permit Issuance (Application 16487): | December 1, 2003 |
| Administrative Amendment (no application): | May 27, 2004 |
| Reopening (Application 9296): | December 16, 2004 |
| Minor Revision (Application 10871): | April 12, 2005 |
| Reopening (Application 11699): | April 12, 2005 |
| Minor Revision (Application 10622): | January 5, 2006 |
| Minor Revision (Application 12995): | January 5, 2006 |
| Significant Revision (Application 11626): | January 5, 2006 |
| Minor Revision (Application 10115): | March 2, 2006 |
| Minor Revision (Application 12217): | March 2, 2006 |
| Reopening (Application 12433) | November 20, 2006 |
| Reopening (Application 12601) | November 20, 2006 |
| Significant Revision (Application 13691) | January 18, 2007 |
| Minor Revision (Application 12931) | October 15, 2007 |

# IX. Permit Shield

Administrative Amendments (no application)
- Change Responsible Official from J. Michael Kenney to Rand Swenson
- Change Facility Contact from Valerie Uyeda to Jennifer Ahlskog
- Change District Contact from Brenda Cabral to Sanjeev Kamboj
- Add names of equipment to headers for Conditions 383, 1440, 6725, 7353, 7523, 12121, 12122, 12124, 12125, 12127, 12129-12133, 12245, 13184, 16677, 18251, 18629, 18680, 19278, 19476, 19488, 20773, 21092, and 21235

Significant Revision (Application 10994) October 31, 2008

# XI. GLOSSARY

**ACT**
Federal Clean Air Act

**APCO**
Air Pollution Control Officer

**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 which allows the District to impose requirements.

**CAA**
The federal Clean Air Act

**CAAQS**
California Ambient Air Quality Standards

**CAPCOA**
California Air Pollution Control Officers Association

**CEC**
California Energy Commission

**CEQA**
California Environmental Quality Act

**CEM**
A "continuous emission monitor" is a monitoring device which provides a continuous record of some parameter (e.g. NOx concentration) in an exhaust steam.

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

**CO**
Carbon Monoxide

**CO2**
Carbon Dioxide

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

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

**DWT**
Dead Weight Tons

**District**
The Bay Area Air Quality Management District

**dscf**
Dry Standard Cubic Feet

**E 6, E 9, E 12**
Very large or very small number values are commonly expressed in a form called scientific notation, which consists of a decimal part multiplied by 10 raised to some power. For example, 4.53 E 6 equals $(4.53)x(10^6)$ = (4.53)x(10x10x10x10x10x10) = 4,530,000. Scientific notation is used to express large or small numbers without writing out long strings of zeros.

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

**EMP**
Environmental Management Plan

**ESP**
Electrostatic Precipitator

**EPA**

The federal Environmental Protection Agency.

**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 Part 51, Subpart I (NSR), Part 52.21 (PSD), Part 60 (NSPS), Part 61 (NESHAPs), Part 63 (HAP), and Part 72 (Permits Regulation, Acid Rain), and also including limitations and conditions contained in operating permits issued under an EPA-approved program that has been incorporated into the SIP.

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

**GRU**
Gas Recovery Unit

**H2S**
Hydrogen sulfide

**$H_2SO_4$**
Sulfuric Acid

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

**HC**
Hydrocarbon

**Hg**
Mercury

**HNC**
Heavy Neutral Hydrocracker

**HNHF**
Heavy Neutral Hydrofinisher

**HHV**
High 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.

**LFSO**
Low sulfur fuel oil

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

**LNC**
Light Neutral Hydrocracker

**LNHF**
Light Neutral Hydrofinisher

**LPG**
Liquid Petroleum Gas

**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.

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

**MM**
Million

**Mo Gas**
Motor gasoline

**MOP**
The District's Manual of Procedures

**MTBE**
Methyl Tertiary Butyl Ether

**NA**
Not applicable

**NAAQS**
National Ambient Air Quality Standards

**NESHAPs**
National Emission Standards for Hazardous Air Pollutants. See in Parts 61 and 63.

**NMHC**
Non-methane Hydrocarbons

**NMOC**
Non-methane Organic Compounds (Same as NMHC)

**NOx**
Oxides of nitrogen.

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

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

**O2**
The chemical name for naturally-occurring oxygen gas.

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

**OMMP**
Operation, Maintenance and Monitoring Plan

**Phase II Acid Rain Facility**
A facility that generates electricity for sale through fossil-fuel combustion and is not exempted by 72 from Titles IV and V of the Clean Air Act.

**POC**
Precursor Organic Compounds

**PM**
Total Particulate Matter

**PM10**
Particulate matter with aerodynamic equivalent diameter of less than or equal to 10 microns

**Process Unit**
For the purpose of startup and shutdown reporting, a process unit is defined as found in Part 60 Subpart GGG:

> Process Unit means components assembled to produce intermediates 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**
Prevention of Significant Deterioration. A federal program for permitting new and modified sources of air pollutants for which the District is classified "attainment" of the National Air Ambient Quality Standards. Mandated by Title I of the Act and implemented by both Part 52 and District Regulation 2, Rule 2.

**RACT**
Reasonably Available Control Technology

**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.

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

**SDA**
Solvent deasphalting

**Shutdown**
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.

**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.

**SMM**
Startup, shutdown, and malfunction

**SMMP**
Startup, shutdown, and malfunction plan

**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

**SRU**
Sulfur Recovery Unit

**ST-7**
Source Test Method #7: Non-Methane Organic Carbon Sampling

**Startup**
For reporting purposes only, a startup 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 startup only occurs following a shutdown unless it involves a newly constructed process unit.

**THC**
Total Hydrocarbons (NMHC + Methane)

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

**TKC**
Taylor Kinetic Cracking

**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

**VE**
Visible emissions

**VGO**
Vacuum Gas Oil

**VOC**
Volatile Organic Compounds

**VR**
Vapor Recovery

**WWT**
Wastewater Treatment

**Units of Measure:**

| | | |
|---|---|---|
| bbl | = | barrels |
| bhp | = | brake-horsepower |
| btu | = | British Thermal Unit |
| g | = | grams |
| gal | = | gallon |
| gpm | = | gallons per minute |
| hp | = | horsepower |
| hr | = | hour |
| lb | = | pound |
| in | = | inches |
| max | = | maximum |
| $m^2$ | = | square meter |
| min | = | minute |
| mm | = | million, millimeter |

| | | |
|---|---|---|
| ppmv | = | parts per million, by volume |
| ppmw | = | parts per million, by weight |
| psia | = | pounds per square inch, absolute |
| psig | = | pounds per square inch, gauge |
| scfm | = | standard cubic feet per minute |
| yr | = | year |