

Bay Area Air Quality Management District

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

Final Proposed

MAJOR FACILITY REVIEW PERMIT

Issued To:
Shell Martinez Refinery, Shell Oil Products US
Facility # A0011

Facility Address:
3485 Pacheco Blvd.
Martinez, CA 94553

Mailing Address:
P O Box 711
Martinez, CA 94553

Responsible Official
Alicia Izarraraz,
General Manager
925-313-3333

Facility Contact
Lynley C. Harris,
Manager, Environmental Affairs Department
925-313-3705

| | | |
|--------------------------|--------------------|--------------------------------------|
| Type of Facility: | Petroleum Refining | BAAQMD Engineering Division Contact: |
| Primary SIC: | 2911 | Krishnaswamy R. Bhagavan |
| Product: | Petroleum Refining | Senior Air Quality Engineer |

ISSUED BY THE BAY AREA AIR QUALITY MANAGEMENT DISTRICT

Jack Broadbent, Executive Office/Air Pollution Control Officer

Date

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I. STANDARD CONDITIONS

A. Administrative Requirements

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

BAAQMD Regulation 1 - General Provisions and Definitions

~~(adopted and amended by as amended by the District Board on 09/05/79 and 5/2/01/17/19/06/07/09/08, respectively);~~

SIP Regulation 1 - General Provisions and Definitions

(as approved by EPA through 6/28/99);

BAAQMD Regulation 2, Rule 1 - Permits, General Requirements

~~(adopted and amended by as amended by the District Board on 01/01/80 and 6/15/05/19/06/03/04/09, respectively);~~

SIP Regulation 2, Rule 1 - Permits, General Requirements

(as approved by EPA through 1/26/99);

BAAQMD Regulation 2, Rule 2 - Permits, New Source Review

~~(adopted and amended by as amended by the District Board on 07/17/91 and 6/15/05, respectively);~~

SIP Regulation 2, Rule 2 - Permits, New Source Review and Prevention of Significant Deterioration

(as approved by EPA through 1/26/99);

BAAQMD Regulation 2, Rule 4 - Permits, Emissions Banking

~~(adopted and amended by as amended by the District Board on 03/07/84 and 12/21/04, respectively);~~

SIP Regulation 2, Rule 4 - Permits, Emissions Banking

(as approved by EPA through 1/26/99); ~~and~~

~~BAAQMD Regulation 2, Rule 5 – New Source Review of Toxic Air Contaminants~~

~~(as adopted and amended by the District Board on 06/15/05 and 01/06/10, respectively, effective 7/1/05)~~

BAAQMD Regulation 2, Rule 6 - Permits, Major Facility Review

~~(as adopted and amended by the District Board on 11/03/93 and 04/16/03, respectively).~~

~~BAAQMD Regulation 2, Rule 9 – Interchangeable Emission Reduction Credits~~

~~(as adopted and amended by the District Board on 04/07/99 and 06/15/05, respectively)~~

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~~.** (Regulation 2-6-307, 404.2, & 409.6; MOP Volume II, Part 3, §4.2)
2. The permit holder shall comply with all conditions of this permit. The permit consists of this document and all appendices. Any non-compliance with the terms and conditions of this permit will constitute a violation of the law and will be grounds for enforcement action; permit termination, revocation and re-issuance, or modification; or denial of a permit renewal application. (Regulation 2-6-307; MOP Volume II, Part 3, §4.11)
3. In the event any enforcement action is brought as a result of a violation of any term or condition of this permit, the fact that it would have been necessary for the permittee to halt or reduce the permitted activity in order to maintain compliance

Facility Name: Shell Martinez Refinery, Shell Oil Products US
Permit for Facility #: A0011

I. Standard Conditions

with such term or condition shall not be a defense to such enforcement action. (MOP
Volume II, Part 3, §4.11)

I. Standard Conditions

4. This permit may be modified, revoked, reopened and reissued, or terminated for cause. (Regulation 2-6-307, 409.8, 415; MOP Volume II, Part 3, §4.11)
5. The filing of a request by the facility for a permit modification, revocation and re-issuance, or termination, or the filing of a notification of planned changes or anticipated non-compliance does not stay the applicability of any permit condition. (Regulation 2-6-409.7; MOP Volume II, Part 3, §4.11)
6. This permit does not convey any property rights of any sort, or any exclusive privilege. (Regulation 2-6-409.7; MOP Volume II, Part 3, §4.11)
7. The permit holder shall supply within 30 days any information that the District requests in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. (Regulation 1-441, Regulation 2-6-409.4 & 501; MOP Volume II, Part 3, §4.11)
8. Any records required to be maintained pursuant to this permit which the permittee considers to contain proprietary or trade secret information shall be prominently designated as such. Copies of any such proprietary or trade secret information which are provided to the District shall be maintained by the District in a locked confidential file, provided, however, that requests from the public for the review of any such information shall be handled in accordance with the District's procedures set forth in Section 11 of the District's Administrative Code. (Regulation 2-6-419; MOP Volume II, Part 3, §4.11)
9. Proprietary or trade secret information provided to EPA will be subject to the requirements of 40 CFR Part 2, Subpart B - Public Information, Confidentiality of Business Information. (40 CFR Part 2)
10. The emissions inventory submitted with the application for this Major Facility Review Permit is an estimate of actual emissions or the potential to emit for the time period stated and is included only as one means of determining applicable requirements for emission sources. It does not establish, or constitute a basis for establishing, any new emission limitations. (MOP Volume II, Part 3, §4.11)
11. The responsible official shall certify all documents submitted by the facility pursuant to the major facility review permit. The certification shall state that based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete. The certifications shall be signed by a responsible official for the facility.
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. The first reporting period for this permit was December 1, 2003, to May 31, 2004. The second reporting period for this permit was June 1, 2004, to shall be [date of issuance] to [June 30, 2004. As of June 30, 2004, the six-month reporting periods shall be: July 1st through or December 31st. The report shall be submitted by [July 31st or January 31st]. Subsequent reports shall be for the following reporting periods: and January 1st through June 30th and July 1st through December 31st, and. All reports are due on the last day of the month that follows the last day of the reporting period. All instances of non-compliance shall be clearly identified in these reports. The reports shall be certified by the responsible official as true, accurate, and complete. In addition, all instances of non-compliance with the permit shall be reported in writing to the District's Compliance and Enforcement Division within 10 calendar days of the discovery of the incident. Within 30 calendar days of the discovery of any incident of non-compliance, the facility shall submit a written report including the probable cause of non-compliance and any corrective or preventative actions. The reports shall be sent to the following address:

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

(Regulation 2-6-502, ~~Regulation 3~~, MOP Volume II, Part 3, §4.7)

G. Compliance Certification

Compliance certifications shall be submitted annually by the responsible official of this facility to the Bay Area Air Quality Management District and to the Environmental

I. Standard Conditions

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 first certification period was December 1, 2003, to November 30, 2004. The second certification period was December 1, 2004, to December 31, 2004. As of December 31, 2004, the certification period are January 1st to December 31st. All compliance certifications are due on the last day of the month that follows the last day 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:

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

I. Standard Conditions

3, §4.10)

J. Miscellaneous Conditions

1. Reserved.

2. For grandfathered sources, the throughput limits as shown in Condition # 18618 are based upon District records at the time of the MFR permit issuance. These throughput limits function as reporting thresholds only and exceedance throughput of any of these limits does not constitute noncompliance with the MFR permit. As such, The facility must report any exceedance of these a grandfathered throughput limits is not subject to following the procedures in Section I.F. This reporting requirements 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 a grandfathered limit does not establish a presumption that a modification has occurred, nor does compliance with the limit establish a presumption that a modification has not occurred. (Regulation 2-1-234.3) The facility must report any exceedance of these limits in the form of a permit application within 30 days of discovery to facilitate the determination of whether a modification has occurred. The applications shall be sent to the following address: within 30 days of discovery to facilitate the determination of whether a medication has occurred. The reports shall be sent to the following address:

Formatted: Bullets and Numbering

Air Quality Engineering Manager
Bay Area Air Quality Management District
939 Ellis Street
San Francisco, CA 94109
Attn: Permit Evaluation Section, Title V Reports
Reports

~~2.3.~~ Reserved.

~~3.4.~~ Where an applicable requirement allows multiple compliance options and where more 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.

K. Accidental Release

This facility is subject to 40 CFR Part 68, Chemical Accident Prevention Provisions.

Facility Name: Shell Martinez Refinery, Shell Oil Products US
Permit for Facility #: A0011

I. Standard Conditions

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. ~~For sources that burn fuel, only gaseous fuels are used except for the following that also burn fuel oil: S1486, S1487, S1488, S1491, S1492, S1493, S1495, S1496, S1497, S1498, S1500, S1504, S1508, S1510, S1511, S1763, S4002, and S4003.~~ The CO Boilers (S1507, S1509, and S1512) burn DAF Float ~~and~~ Waste Biosolids, ~~and Sulfino Reclaimer Bottoms~~ in accordance with Shell's Part B RCRA Hazardous Waste Permit.

| S# | Description | Make or Type | Model | Capacity |
|---------------|------------------------------------|------------------------------------|---------------|------------------------------|
| 3 | Tank 3 | Custom Made, Fixed Roof | NA | 2,335,830 Gallons |
| 4 | Tank 4 | Custom Made, Fixed Roof | NA | 2,335,830 Gallons |
| 13 | Tank 13 | Custom Made, Fixed Roof | NA | 2,335,830 Gallons |
| 14 | Tank 14 | Custom Made, Fixed Roof | NA | 2,335,830 Gallons |
| 19 | Tank 19 | Custom Made, Fixed Roof | NA | 2,335,830 Gallons |
| 20 | Tank 20 | Custom Made, Fixed Roof | NA | 2,335,830 Gallons |
| 21 | Tank 21 Asphalt Storage | Custom Made, Fixed Roof | NA | 2,314,200 Gallons |
| 22 | Tank 22 Asphalt Storage | Custom Made, Fixed Roof | NA | 2,314,200 Gallons |
| 23 | Tank 23 Asphalt Storage | Custom Made, Fixed Roof | NA | 2,335,830 Gallons |
| 24 | Tank 24 Asphalt Storage | Custom Made, Fixed Roof | NA | 2,310,000 Gallons |
| 26 | Tank 26 Asphalt Storage | Custom Made, Fixed Roof | NA | 1,050,000 Gallons |
| 34 | Tank 34 | Custom Made, Floating Roof | NA | 336,000 Gallons |
| 63 | Tank 63 | Custom Made, Fixed Roof | NA | 19,740 Gallons |
| 224 | Tank 224 | Custom Made, Fixed Roof | NA | 23,100 Gallons |

II. Equipment

Table II A - Permitted Sources

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| S# | Description | Make or Type | Model | Capacity |
|-----|--------------------------|-------------------------------------|-------|-------------------|
| 257 | Tank 257 | Custom Made, Fixed Roof | NA | 2,335,830 Gallons |
| 355 | Tank 355 | Custom Made, Fixed Roof | NA | 19,740 Gallons |
| 396 | Tank 396 | Custom Made, Fixed Roof | NA | 362,040 Gallons |
| 397 | Tank 397 | Custom Made, Fixed Roof | NA | 362,040 Gallons |
| 432 | Tank 432 | Custom Made, Fixed Roof | NA | 19,740 Gallons |
| 483 | Tank 483 | Custom Made, Fixed Roof | NA | 3,380,160 Gallons |
| 484 | Tank 484 | Custom Made, Fixed Roof | NA | 3,380,160 Gallons |
| 497 | Tank 497 Asphalt Storage | Custom Made, Fixed Roof | NA | 1,611,960 Gallons |
| 530 | Tank 530 | Custom Made, Fixed Roof | NA | 3,452,232 Gallons |
| 532 | Tank 532 | Custom Made, Fixed Roof | NA | 3,452,190 Gallons |
| 534 | Tank 534 | Custom Made, Fixed Roof | NA | 3,452,190 Gallons |
| 540 | Tank 540 | Custom Made, External Floating Roof | NA | 3,435,180 Gallons |
| 541 | Tank 541 | Custom Made, External Floating Roof | NA | 3,435,180 Gallons |
| 544 | Tank 544 | Custom Made, External Floating Roof | NA | 4,923,576 Gallons |
| 545 | Tank 545 | Custom Made, External | NA | 4,923,576 Gallons |

II. Equipment

Table II A - Permitted Sources

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| S# | Description | Make or Type | Model | Capacity |
|-----|--------------------------|-------------------------|-------|-----------------|
| | | Floating Roof | | |
| 548 | Tank 548 | Custom Made, Fixed Roof | NA | 19,950 Gallons |
| 549 | Tank 549 | Custom Made, Fixed Roof | NA | 19,100 Gallons |
| 552 | Tank 552 Asphalt Storage | Custom Made, Fixed Roof | NA | 69,300 Gallons |
| 553 | Tank 553 Asphalt Storage | Custom Made, Fixed Roof | NA | 69,300 Gallons |
| 554 | Tank 554 Asphalt Storage | Custom Made, Fixed Roof | NA | 69,300 Gallons |
| 555 | Tank 555 Asphalt Storage | Custom Made, Fixed Roof | NA | 69,300 Gallons |
| 556 | Tank 556 Asphalt Storage | Custom Made, Fixed Roof | NA | 69,300 Gallons |
| 557 | Tank 557 Asphalt Storage | Custom Made, Fixed Roof | NA | 69,300 Gallons |
| 558 | Tank 558 Asphalt Storage | Custom Made, Fixed Roof | NA | 69,300 Gallons |
| 559 | Tank 559 Asphalt Storage | Custom Made, Fixed Roof | NA | 71,400 Gallons |
| 560 | Tank 560 Asphalt Storage | Custom Made, Fixed Roof | NA | 625,380 Gallons |
| 561 | Tank 561 Asphalt Storage | Custom Made, Fixed Roof | NA | 625,380 Gallons |
| 567 | Tank 567 Asphalt Storage | Custom Made, Fixed Roof | NA | 22,680 Gallons |
| 568 | Tank 568 | Custom Made, Fixed Roof | NA | 14,280 Gallons |

II. Equipment

Table II A - Permitted Sources

Each of the following sources has been issued a permit to operate pursuant to the requirements of BAAQMD Regulation 2, Permits. The capacities in this table are the maximum allowable capacities for each source, pursuant to Standard Condition I.J and Regulation 2-1-301. ~~For sources that burn fuel, only gaseous fuels are used except for the following that also burn fuel oil: S1486, S1487, S1488, S1491, S1492, S1493, S1495, S1496, S1497, S1498, S1500, S1504, S1508, S1510, S1511, S1763, S4002, and S4003.~~ The CO Boilers (S1507, S1509, and S1512) burn DAF Float ~~and~~ Waste Biosolids, ~~and Sulfonol Reclaimer Bottoms~~ in accordance with Shell's Part B RCRA Hazardous Waste Permit.

| S# | Description | Make or Type | Model | Capacity |
|-----|--------------------------|-------------------------------------|-------|-------------------|
| 571 | Tank 571 Asphalt Storage | Custom Made, Fixed Roof | NA | 155,820 Gallons |
| 572 | Tank 572 Asphalt Storage | Custom Made, Fixed Roof | NA | 93,660 Gallons |
| 573 | Tank 573 Asphalt Storage | Custom Made, Fixed Roof | NA | 93,660 Gallons |
| 598 | Tank 598 Asphalt Storage | Custom Made, Fixed Roof | NA | 33,600 Gallons |
| 610 | Tank 610 | Custom Made, Fixed Roof | NA | 5,615,400 Gallons |
| 611 | Tank 611 | Custom Made, Fixed Roof | NA | 5,615,400 Gallons |
| 612 | Tank 612 | Custom Made, Fixed Roof | NA | 5,615,400 Gallons |
| 613 | Tank 613 | Custom Made, Fixed Roof | NA | 5,615,400 Gallons |
| 815 | Tank 815 Asphalt Storage | Custom Made, Fixed Roof | NA | 863,058 Gallons |
| 856 | Tank 856 | Custom Made, Fixed Roof | NA | 22,890 Gallons |
| 867 | Tank 867 Asphalt Storage | Custom Made, Fixed Roof | NA | 93,156 Gallons |
| 868 | Tank 868 Asphalt Storage | Custom Made, Fixed Roof | NA | 93,156 Gallons |
| 876 | Tank 876 Asphalt Storage | Custom Made, Fixed Roof | NA | 121,296 Gallons |
| 952 | Tank 952 | Custom Made, Internal Floating Roof | NA | 75,600 Gallons |
| 961 | Tank 961 Asphalt Storage | Custom Made, Fixed | NA | 130,200 Gallons |

II. Equipment

Table II A - Permitted Sources

Each of the following sources has been issued a permit to operate pursuant to the requirements of BAAQMD Regulation 2, Permits. The capacities in this table are the maximum allowable capacities for each source, pursuant to Standard Condition I.J and Regulation 2-1-301. ~~For sources that burn fuel, only gaseous fuels are used except for the following that also burn fuel oil: S1486, S1487, S1488, S1491, S1492, S1493, S1495, S1496, S1497, S1498, S1500, S1504, S1508, S1510, S1511, S1763, S4002, and S4003.~~ The CO Boilers (S1507, S1509, and S1512) burn DAF Float ~~and~~ Waste Biosolids, ~~and Sulfur Reclaimer Bottoms~~ in accordance with Shell's Part B RCRA Hazardous Waste Permit.

| S# | Description | Make or Type | Model | Capacity |
|-----------------|---------------------------|-------------------------------------|---------------|---------------------------|
| | | Roof | | |
| 967 | Tank 967 | Custom Made, Fixed Roof | NA | 3,399,648 Gallons |
| 985 | Tank 985 Asphalt Storage | Custom Made, Fixed Roof | NA | 841,512 Gallons |
| 992 | Tank 992 | Custom Made, External Floating Roof | NA | 395,808 Gallons |
| 1005 | Tank 1005 | Custom Made, Fixed Roof | NA | 10,080 Gallons |
| 1006 | Tank 1006 | Custom Made, External Floating Roof | NA | 82,908 Gallons |
| 1017 | Tank 1017 Asphalt Storage | Custom Made, Fixed Roof | NA | 210,210 Gallons |
| 1018 | Tank 1018 Asphalt Storage | Custom Made, Fixed Roof | NA | 210,210 Gallons |
| 1031 | Tank 1031 | Custom Made, External Floating Roof | NA | 2,274,720 Gallons |
| 1041 | Tank 1041 Asphalt Storage | Custom Made, Fixed Roof | NA | 339,360 Gallons |
| 1043 | Tank 1043 Asphalt Storage | Custom Made, Fixed Roof | NA | 189,000 Gallons |
| 1044 | Tank 1044 Asphalt Storage | Custom Made, Fixed Roof | NA | 189,000 Gallons |
| 1045 | Tank 1045 Asphalt Storage | Custom Made, Fixed Roof | NA | 189,000 Gallons |
| 1046 | Tank 1046 | Custom Made, External Floating Roof | NA | 2,961,000 Gallons |
| 1048 | Tank 1048 Asphalt Storage | Custom Made, Fixed Roof | NA | 210,000 Gallons |

II. Equipment

Table II A - Permitted Sources

Each of the following sources has been issued a permit to operate pursuant to the requirements of BAAQMD Regulation 2, Permits. The capacities in this table are the maximum allowable capacities for each source, pursuant to Standard Condition I.J and Regulation 2-1-301. ~~For sources that burn fuel, only gaseous fuels are used except for the following that also burn fuel oil: S1486, S1487, S1488, S1491, S1492, S1493, S1495, S1496, S1497, S1498, S1500, S1504, S1508, S1510, S1511, S1763, S4002, and S4003.~~ The CO Boilers (S1507, S1509, and S1512) burn DAF Float ~~and~~ Waste Biosolids, ~~and~~ ~~Sulfonol Reclaimer Bottoms~~ in accordance with Shell's Part B RCRA Hazardous Waste Permit.

| S# | Description | Make or Type | Model | Capacity |
|------|---------------------------|-------------------------------------|-------|-------------------|
| 1051 | Tank 1051 | Custom Made, External Floating Roof | NA | 3,486,000 Gallons |
| 1063 | Tank 1063 ETP 1 | Custom Made, External Floating Roof | NA | 211,493 Gallons |
| 1067 | Tank 1067 ETP 1 | Custom Made, External Floating Roof | NA | 3,486,000 Gallons |
| 1070 | Tank 1070 | Custom Made, Fixed Roof | NA | 2,335,830 Gallons |
| 1072 | Tank 1072 | Custom Made, External Floating Roof | NA | 6,344,775 Gallons |
| 1075 | Tank 1075 Asphalt Storage | Custom Made, Fixed Roof | NA | 39,480 Gallons |
| 1076 | Tank 1076 | Custom Made, External Floating Roof | NA | 4,060,656 Gallons |
| 1077 | Tank 1411 | Custom Made, External Floating Roof | NA | 497,242 Gallons |
| 1114 | Tank 1114 Spent Acid | Custom Made, Fixed Roof | NA | 51,660 Gallons |
| 1115 | Tank 1115 Spent Acid | Custom Made, Fixed Roof | NA | 51,660 Gallons |
| 1116 | Tank 1116 Fresh Acid | Custom Made, Fixed Roof | NA | 51,660 Gallons |
| 1117 | Tank 1117 Skim | Custom Made, Fixed Roof | NA | 4,512 Gallons |
| 1129 | Tank 1129 | Custom Made, External Floating Roof | NA | 6,344,775 Gallons |
| 1130 | Tank 1130 | Custom Made, External Floating Roof | NA | 6,344,775 Gallons |
| 1131 | Tank 1131 | Custom Made, External | NA | 6,344,775 Gallons |

II. Equipment

Table II A - Permitted Sources

Each of the following sources has been issued a permit to operate pursuant to the requirements of BAAQMD Regulation 2, Permits. The capacities in this table are the maximum allowable capacities for each source, pursuant to Standard Condition I.J and Regulation 2-1-301. ~~For sources that burn fuel, only gaseous fuels are used except for the following that also burn fuel oil: S1486, S1487, S1488, S1491, S1492, S1493, S1495, S1496, S1497, S1498, S1500, S1504, S1508, S1510, S1511, S1763, S4002, and S4003.~~ The CO Boilers (S1507, S1509, and S1512) burn DAF Float ~~and~~ Waste Biosolids, ~~and Sulfur Reclaimer Bottoms~~ in accordance with Shell's Part B RCRA Hazardous Waste Permit.

| S# | Description | Make or Type | Model | Capacity |
|------|-----------------------------|-------------------------------------|-------|--------------------|
| | | Floating Roof | | |
| 1133 | Tank 1133 | Custom Made, Fixed Roof | NA | 7,224,000 Gallons |
| 1134 | Tank 1134 | Custom Made, Fixed Roof | NA | 7,224,000 Gallons |
| 1139 | Tank 1139 | Custom Made, Fixed Roof | NA | 3,399,648 Gallons |
| 1140 | Tank 1140 | Custom Made, Fixed Roof | NA | 4,219,511 Gallons |
| 1141 | Tank 1141 | Custom Made | NA | 2,310,000 Gallons |
| 1146 | Tank 1146 | Custom Made, Internal Floating Roof | NA | 210,976 Gallons |
| 1147 | Tank 1147 | Custom Made, Internal Floating Roof | NA | 210,976 Gallons |
| 1159 | Tank 1159 | Custom Made, External Floating Roof | NA | 2,274,720 Gallons |
| 1160 | Tank 1160 Asphalt Storage | Custom Made, Fixed Roof | NA | 2,349,900 Gallons |
| 1161 | Tank 1161 | Custom Made, External Floating Roof | NA | 11,279,601 Gallons |
| 1186 | Tank 1186 | Custom Made, Fixed Roof | NA | 7,056 Gallons |
| 1191 | Tank 1256 Crude Oil Storage | Custom Made, External Floating Roof | NA | 15,572,899 Gallons |
| 1192 | Tank 1257 Crude Oil Storage | Custom Made, External Floating Roof | NA | 15,572,899 Gallons |
| 1235 | Tank 739 Chem Storage | Custom Made, Fixed Roof | NA | 32,130 Gallons |
| 1236 | Tank 740 Chem Storage | Custom Made, Fixed | NA | 32,130 Gallons |

II. Equipment

Table II A - Permitted Sources

Each of the following sources has been issued a permit to operate pursuant to the requirements of BAAQMD Regulation 2, Permits. The capacities in this table are the maximum allowable capacities for each source, pursuant to Standard Condition I.J and Regulation 2-1-301. ~~For sources that burn fuel, only gaseous fuels are used except for the following that also burn fuel oil: S1486, S1487, S1488, S1491, S1492, S1493, S1495, S1496, S1497, S1498, S1500, S1504, S1508, S1510, S1511, S1763, S4002, and S4003.~~ The CO Boilers (S1507, S1509, and S1512) burn DAF Float ~~and~~ Waste Biosolids, ~~and Sulfur Reclaimer Bottoms~~ in accordance with Shell's Part B RCRA Hazardous Waste Permit.

| S# | Description | Make or Type | Model | Capacity |
|------|--|--------------|-------|----------|
| | | Roof | | |
| 1408 | LUBS Asphalt Blending and Shipping | Custom Made | NA | NA |
| 1417 | OPCEN Distillate Saturation Unit (DSU) | Custom Made | NA | NA |
| 1420 | DH Crude Unit (CU) | Custom Made | NA | NA |
| 1421 | DH Vacuum Flasher Unit (VFU) | Custom Made | NA | NA |
| 1422 | DH Marine Fuel Oil Blender | Custom Made | NA | NA |
| 1423 | DH Gas Oil Straightrun Hydrotreater (GOHT) | Custom Made | NA | NA |
| 1424 | DH Naphtha Straightrun Hydrotreater (NHT) | Custom Made | NA | NA |
| 1425 | DH Catalytic Reformer Unit (CRU) | Custom Made | NA | NA |
| 1426 | CP Catalytic Cracking Unit (CCU) | Custom Made | NA | NA |
| 1427 | CP Catalytic Gas Plant (CGP) | Custom Made | NA | NA |
| 1428 | CP Catalytic Feed Hydrotreater (CFH) | Custom Made | NA | NA |
| 1429 | CP Catalytic Gasoline Hydrotreater (CGH) | Custom Made | NA | NA |
| 1430 | CP Alkylation Plant (ALKY) | Custom Made | NA | NA |
| 1431 | CP Sulfur Plant 1 (SRU1) | Custom Made | NA | NA |
| 1432 | CP Sulfur Plant 2 (SRU2) | Custom Made | NA | NA |
| 1433 | CP Light CC Gasoline Treater | Custom Made | NA | NA |
| 1434 | CP Unsaturated C3/C4 Treater | Custom Made | NA | NA |
| 1435 | CP Fuel Gas Treater 1 | Custom Made | NA | NA |
| 1436 | CP Fuel Gas Treater 2 | Custom Made | NA | NA |
| 1445 | DH Hydrogen Plant 1 (HP1) | Custom Made | NA | NA |
| 1446 | DH Saturates Gas Plant (SGP) | Custom Made | NA | NA |
| 1447 | DH Saturates Dry Gas Treater | Custom Made | NA | NA |

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. ~~For sources that burn fuel, only gaseous fuels are used except for the following that also burn fuel oil: S1486, S1487, S1488, S1491, S1492, S1493, S1495, S1496, S1497, S1498, S1500, S1504, S1508, S1510, S1511, S1763, S4002, and S4003.~~ The CO Boilers (S1507, S1509, and S1512) burn DAF Float ~~and~~ Waste Biosolids, ~~and Sulfino Reclaimer Bottoms~~ in accordance with Shell's Part B RCRA Hazardous Waste Permit.

| S# | Description | Make or Type | Model | Capacity |
|------|---|------------------|-------------|-----------------------|
| 1448 | DH Saturates Gas Plant C3/C4 Treater | Custom Made | NA | NA |
| 1449 | DH Hydrocracking Unit (HCU) | Custom Made | NA | NA |
| 1457 | Cooling Water Tower (CWT-32) | Marley/Fluor | NA | NA |
| 1462 | LOG Distillate Blender (Jet & Diesel Fuel) | Custom Made | NA | NA |
| 1463 | LOG Gasoline Blender | Custom Made | NA | NA |
| 1464 | LOG Thin Fuel Blender (Wharf) | Custom Made | NA | NA |
| 1465 | LOG Light Oil Products Gross Oil Separator | Custom Made | NA | NA |
| 1466 | LOG Wastewater Pond 8 | Custom Made | NA | NA |
| 1467 | LOG BioTreater for wastewater Pond 7 | Custom Made | NA | NA |
| 1468 | LOG Wastewater Pond 6 | Custom Made | NA | NA |
| 1469 | LOG API Separator with inlet Box and Bar Screen (ETP 1) | Custom Made | NA | NA |
| 1470 | LOG LPG Loading Flare | John Zink Co. | STF-U-8, 1 | NA |
| 1471 | LOP Auxiliary Flare | John Zink Co. | STF-SA-36S | NA |
| 1472 | LOP Main Flare | Custom Made | NA | NA |
| 1480 | LUBS F-69 Asphalt Circulation | COEN | S-15, 2 | See Condition # 16688 |
| 1481 | OPCEN F-30 DSU | Western Products | UF, 10 | See Condition # 16688 |
| 1483 | LUBS F-32 Asphalt Circulation | COEN | S-13 1/2, 2 | See Condition # 16688 |
| 1486 | DH F-40 CU Feed | John Zink | MA-18, 20 | See Condition # 16688 |
| 1487 | DH F-41B VFU Feed | John Zink | DB-16, 20 | See Condition # 16688 |
| 1488 | DH F-41A VFU Feed | John Zink | DB-16, 20 | See Condition # 16688 |
| 1490 | DH F-43 GOHT Feed | NAO | No.30, 3 | See Condition # 16688 |
| 1491 | DH F-44 NHT Feed | Custom Made | NA | See Condition # 16688 |
| 1492 | DH F-45 Primary Column Reboil | NAO | No. 30, 6 | See Condition # 16688 |

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. ~~For sources that burn fuel, only gaseous fuels are used except for the following that also burn fuel oil: S1486, S1487, S1488, S1491, S1492, S1493, S1495, S1496, S1497, S1498, S1500, S1504, S1508, S1510, S1511, S1763, S4002, and S4003.~~ The CO Boilers (S1507, S1509, and S1512) burn DAF Float ~~and~~ Waste Biosolids, ~~and Sulfur Reclaimer Bottoms~~ in accordance with Shell's Part B RCRA Hazardous Waste Permit.

| S# | Description | Make or Type | Model | Capacity |
|------|---|--------------|-------------|-------------------------------|
| 1493 | DH F-46 Stabilizer Reboil | NAO | No. 30, 4 | See Condition # 16688 |
| 1494 | DH F-47 Secondary Column Reboil | Custom Made | NA | See Condition # 16688 |
| 1495 | DH F-49 CRU Preheat | NAO | No. 325,16 | See Condition # 16688 |
| 1496 | DH F-50 CRU | NAO | No. 25, 21 | See Condition # 16688 |
| 1497 | DH F-51 CRU | NAO | No. 25, 11 | See Condition # 16688 |
| 1498 | DH F-52 CRU Reboil | NAO | No. 30, 4 | See Condition # 16688 |
| 1499 | DH F-53 CRU Regen | NAO | No. 30, 3 | See Condition # 16688 |
| 1500 | DH F-55 SGP Heat Medium | NAO | No. 30, 15 | See Condition # 16688 |
| 1502 | DH F-57 HCU First Stage Feed | NAO | No. 15, 16 | See Condition # 16688 |
| 1503 | DH F-58 HCU Second Stage Feed | NAO | No. 15,16 | See Condition # 16688 |
| 1504 | DH F-59 HCU Second Stage Reboil | John Zink | MA-20, 12 | See Condition # 16688 |
| 1505 | DH F-60 HP1 Steam Methane Reformer | Custom Made | Custom Made | See Condition # 16688 |
| 1506 | CP F-61 CGP Feed | NAO | No. 15, 4 | See Condition # 16688 |
| 1507 | UTIL CO Boiler 1 | Custom Made | Custom Made | See Condition # 18618, Part 1 |
| 1508 | CP F-63 CFH Feed | Lummus | Lummus | See Condition # 16688 |
| 1509 | UTIL CO Boiler 2 | J2 | YS-24, 4 | See Condition # 18618, Part 1 |
| 1510 | CP F-66 CCU Preheat | NAO | No. 30, 12 | See Condition # 16688 |
| 1511 | CP F-67 CCU LGO Reboil | NAO | #25, 8 | See Condition # 16688 |
| 1512 | UTIL CO Boiler 3 | | | See Condition # 18618, Part 1 |
| 1514 | UTIL F-70 Boiler 4 | Formey | MG/TTL-5, 4 | See Condition # 16688 |
| 1515 | DH F-71 HCU First Stage Reboil | NAO | No. 30, 8 | See Condition # 16688 |
| 1523 | LUBS Loading Rack Asphalt Inside T/T | Custom Made | NA | NA |
| 1524 | LUBS Loading Rack Asphalt Outside T/T AND T/C | Custom Made | NA | NA |
| 1525 | LUBS Loading Rack Asphalt Paving | Custom Made | NA | NA |

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. ~~For sources that burn fuel, only gaseous fuels are used except for the following that also burn fuel oil: S1486, S1487, S1488, S1491, S1492, S1493, S1495, S1496, S1497, S1498, S1500, S1504, S1508, S1510, S1511, S1763, S4002, and S4003.~~ The CO Boilers (S1507, S1509, and S1512) burn DAF Float ~~and~~ Waste Biosolids, ~~and Sulfur Reclaimer Bottoms~~ in accordance with Shell's Part B RCRA Hazardous Waste Permit.

| S# | Description | Make or Type | Model | Capacity |
|------|---|--|-------|-----------------------|
| | T/T | | | |
| 1578 | Sulfur Pit for Sulfur Plant 1 | Custom Made | NA | NA |
| 1579 | Sulfur Pit for Sulfur Plant 2 | Custom Made | NA | NA |
| 1598 | MAINT Gasoline Dispensing Facility | Service Station G7114, 2 gasoline nozzles | NA | NA |
| 1650 | MAINT Sandblasting Sand Hopper | Custom Made | NA | 725 Cu.Ft. |
| 1750 | Tank 1218 Spent Acid | Custom Made | NA | 200 Barrels |
| 1751 | Tank 1330 | Custom Made, Fixed Roof | NA | 6,344,775 Gallons |
| 1752 | Tank 1331 | Custom Made, Fixed Roof | NA | 6,344,775 Gallons |
| 1753 | Tank 1332 Gasoline | Custom Made, Fixed Roof | NA | 9,136,477 Gallons |
| 1754 | Tank 1333 Gasoline | Custom Made, Fixed Roof | NA | 9,136,477 Gallons |
| 1755 | Tank 1334 Gasoline | Custom Made, External Floating Roof | NA | 4,314,447 Gallons |
| 1756 | Tank 1335 Gasoline | Custom Made, External Floating Roof | NA | 4,314,447 Gallons |
| 1757 | Tank 1336 | Custom Made, Fixed Roof | NA | 4,060,656 Gallons |
| 1758 | Tank 1337 | Custom Made, Fixed Roof | NA | 4,060,656 Gallons |
| 1759 | OPCEN Flexicoker (FXU) | Custom Made | NA | NA |
| 1760 | OPCEN F-102 FXU Steam Superheater | Custom Made | NA | See Condition # 16688 |
| 1761 | OPCEN F-104 HP2 Steam Methane Reformer | Custom Made | NA | See Condition # 16688 |
| 1762 | DH F-128 CRU Interheater | Custom Made | NA | See Condition # 16688 |

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. ~~For sources that burn fuel, only gaseous fuels are used except for the following that also burn fuel oil: S1486, S1487, S1488, S1491, S1492, S1493, S1495, S1496, S1497, S1498, S1500, S1504, S1508, S1510, S1511, S1763, S4002, and S4003.~~ The CO Boilers (S1507, S1509, and S1512) burn DAF Float ~~and~~ Waste Biosolids, ~~and Sulfur Reclaimer Bottoms~~ in accordance with Shell's Part B RCRA Hazardous Waste Permit.

| S# | Description | Make or Type | Model | Capacity |
|------|--|----------------------------|-----------|-------------------------------|
| 1763 | DH F-126 CU Feed Heater | Custom Made | NA | See Condition # 16688 |
| 1764 | OPCEN Dimersol Plant (DIMER) | Custom Made | NA | NA |
| 1765 | OPCEN Sulfur Plant 3 (SRU3) | Custom Made | NA | See Condition # 18618, Part 1 |
| 1766 | Sulfur Pit for Sulfur Plant 3 | Custom Made | NA | NA |
| 1767 | OPCEN V-1019 Coke Silo | CB&I | NA | 1800 tons |
| 1768 | OPCEN V-1020 Coke Silo | CB&I | NA | 1800 tons |
| 1769 | OPCEN V-1021 Dry Fines Silo | CB&I | NA | 750 tons |
| 1770 | OPCEN C3/C4 Splitter | Custom Made | NA | NA |
| 1771 | OPCEN Flexigas Flare | John Zink | STF-V66 | NA |
| 1772 | OPCEN Hydrocarbon Flare | John Zink | STF-S-25C | NA |
| 1774 | OPCEN Hydrogen Plant 2 (HP2) | Custom Made | NA | NA |
| 1778 | Cooling Water Tower (CWT-50) | Marley | NA | NA |
| 1779 | OPCEN CPI Oil/Water Separator | Custom Made | NA | NA |
| 1800 | UTIL F-88 Boiler 5 | Erie City, 23M Keystone | NA | See Condition # 16688 |
| 1802 | LOGV-1533 Odorant Storage Tank | Custom Made | NA | 2,000 Gallons |
| 1803 | OPCEN Coke Corral | Custom Made | NA | NA |
| 1804 | MAINT Paint Spray Booth and Facility Coating | Custom Made | NA | NA |
| 1805 | Tank 12038 | Custom Made, Fixed Roof | NA | 47,750 Gallon |
| 1900 | MAINT Machine Shop Parts Cleaner | Custom Made | NA | NA |
| 1902 | MAINT Seal Room Parts Cleaner | Custom Made | NA | NA |
| 1903 | MAINT Paint Shop Solvent Tub | Custom Made | NA | NA |
| 2000 | OPCEN Corrosion Inhibitor Injection | Custom Made | NA | NA |
| 2001 | LOG Marine Loading Berth 1 | Custom Made | NA | NA |
| 2002 | LOG Marine Loading Berth 2 | Custom Made | NA | NA |

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. ~~For sources that burn fuel, only gaseous fuels are used except for the following that also burn fuel oil: S1486, S1487, S1488, S1491, S1492, S1493, S1495, S1496, S1497, S1498, S1500, S1504, S1508, S1510, S1511, S1763, S4002, and S4003.~~ The CO Boilers (S1507, S1509, and S1512) burn DAF Float ~~and~~ Waste Biosolids, ~~and Sulfinol Reclaimer Bottoms~~ in accordance with Shell's Part B RCRA Hazardous Waste Permit.

| S# | Description | Make or Type | Model | Capacity |
|------|--|-------------------------------------|-------------|-------------------------------|
| 2003 | LOG Marine Loading Berth 3 | Custom Made | NA | NA |
| 2004 | LOG Marine Loading Berth 4 | Custom Made | NA | NA |
| 2007 | LOG Dissolved Nitrogen Floatation Unit North ETP 1 (DNF) | Custom Made | NA | NA |
| 2008 | LOG Dissolved Nitrogen Floatation Unit South ETP 1 (DNF) | Custom Made | NA | NA |
| 2010 | LOG Wastewater Junction Boxes (Equipped with low-pressure water seals on select atmospheric vents) | Custom Made | NA | NA |
| 2011 | LOG Wastewater Collection Sumps (4) | Custom Made | NA | NA |
| 2012 | DH V-12378 Perchloroethylene Storage System | Custom Made | NA | 3,217 Gallons |
| 2013 | Tank 12467 | Custom Made, External Floating Roof | NA | 6,299,393 Gallons |
| 2014 | LOG Final ETP 1&2 Holding Ponds 5C and 5D | Custom Made | NA | 8,000,000 Gallons |
| 2445 | Tank 12445 | Custom Made, Internal Floating Roof | NA | 8,590,994 Gallons |
| 2446 | Tank 12446 | Custom Made, Internal Floating Roof | NA | 8,590,994 Gallons |
| 3000 | Portable Vacuum Distillation Unit (CCR Technologies Inc.) | Custom Made | NA | See Condition # 18618, Part 1 |
| 4001 | DC Delayed Coking Unit (DCU) | Custom Made | NA | NA |
| 4002 | DC F-13425-A DCU | Custom Made | NA | See Condition # 16688 |
| 4003 | DC F-13425-B DCU | Custom Made | Custom Made | See Condition # 16688 |
| 4005 | DC Coke Handling Facility | Custom Made | Custom Made | NA |
| 4020 | DC Distillate Hydrotreater (DHT) | Custom Made | NA | NA |
| 4021 | DC -F-13909 DHT Recycle | Custom Made | NA | See Condition # 16688 |

II. Equipment

Table II A - Permitted Sources

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| S# | Description | Make or Type | Model | Capacity |
|------|---|---------------------------|---------|-------------------------------|
| 4031 | DC F-14012 HGHT Reboil | Custom Made | NA | See Condition # 16688 |
| 4050 | DC Catalytic Gas Depentanizer (CGDP) | Custom Made | NA | NA |
| 4080 | DC Isomerization Unit (ISOM) | Custom Made | NA | NA |
| 4140 | DC Heavy Cracked Gasoline Hydrotreater (HGHT) | Custom Made | NA | NA |
| 4141 | DC F-14011 HGHT Feed | Custom Made | NA | See Condition # 16688 |
| 4160 | DC Hydrogen Plant 3 (HP3) | Custom Made | NA | NA |
| 4161 | DC H-101 HP3 Steam Methane Reformer | KTI 90 MMSCFD H2 Reformer | NA | See Condition # 16688 |
| 4180 | OPCEN Sulfur Plant 4 (SRU4) | Custom Made | NA | NA |
| 4190 | UTIL Boiler 6 Gas Turbine 1 | GE | Frame 6 | See Condition # 18618, Part 1 |
| 4191 | UTIL Boiler 6 Supplemental Steam Generator 1 | Custom-Made | NA | See Condition # 18618, Part 1 |
| 4192 | UTIL Boiler 6 Gas Turbine 2 | GE | Frame 6 | See Condition # 18618, Part 1 |
| 4193 | UTIL Boiler 6 Supplemental Steam Generator 2 | Custom-Made | NA | See Condition # 18618, Part 1 |
| 4201 | DC Clean Fuels Flare | John Zink | NA | NA |
| 4210 | Cooling Water Tower (CWT-13278) | Custom Made | NA | NA |
| 4211 | DC V-13222 ISOM Maintenance Drop Out Vessel | Custom Made | NA | NA |
| 4212 | DC V-13441 ISOM Maintenance Drop Out Vessel | Custom Made | NA | NA |
| 4307 | Tank 14687 MDEA Make-up | Custom Made, Fixed Roof | NA | 6,200 Gallons |
| 4309 | Tank 14517 DEA | Custom Made, Fixed Roof | NA | 17,000 Gallons |
| 4310 | Tank -13285 Sour Water | Custom Made, External | NA | 4,200,000 Gallons |

II. Equipment

Table II A - Permitted Sources

Each of the following sources has been issued a permit to operate pursuant to the requirements of BAAQMD Regulation 2, Permits. The capacities in this table are the maximum allowable capacities for each source, pursuant to Standard Condition I.J and Regulation 2-1-301. ~~For sources that burn fuel, only gaseous fuels are used except for the following that also burn fuel oil: S1486, S1487, S1488, S1491, S1492, S1493, S1495, S1496, S1497, S1498, S1500, S1504, S1508, S1510, S1511, S1763, S4002, and S4003.~~ The CO Boilers (S1507, S1509, and S1512) burn DAF Float ~~and~~ Waste Biosolids, ~~and Sulfur Reclaimer Bottoms~~ in accordance with Shell's Part B RCRA Hazardous Waste Permit.

| S# | Description | Make or Type | Model | Capacity |
|------|---|-------------------------------------|-------|-------------------|
| | | Floating Roof | | |
| 4311 | DC V-12555 ISOM Perchloroethylene Vessel | Custom Made, Pressure Vessel | NA | 1,785 Gallons |
| 4319 | Tank15096 Recovered Oil | Custom Made, Fixed Roof | NA | 1,054,878 Gallons |
| 4322 | Tank14571 Sour Water | Custom Made, Internal Floating Roof | NA | 710,896 Gallons |
| 4329 | Tank13260 Pentane | Custom Made, Pressure Vessel | NA | 2,146,308 Gallons |
| 4330 | Tank13261 Pentane | Custom Made, Pressure Vessel | NA | 2,146,308 Gallons |
| 4334 | Tank13276 Alkylate | Custom Made, Fixed Roof | NA | 4,231,613 Gallons |
| 4338 | LOG Pentane Loading Facility | Custom Made | NA | NA |
| 4347 | OPCEN Pit for Sulfur Plant 4 | Custom Made | NA | NA |
| 4349 | Tank -13262 Pentane | Custom Made, Pressure Vessel | NA | 2,146,308 Gallons |
| 4350 | LOG Tank 13187 Process Wastewater | Custom Made, Fixed Roof | NA | 1,096,377 Gallons |
| 4356 | LOG Tank 13188 Process Wastewater | Custom Made, Fixed Roof | NA | 1,096,377 Gallons |
| 5112 | LOG V-15112 Main Proto Vessel with Nitrogen Blanket | Custom Made, Fixed Roof | NA | 1,300 Gallons |
| 5113 | LOG V-15113 Main Proto Vessel with Nitrogen Blanket | Custom Made, Fixed Roof | NA | 1,300 Gallons |
| 5114 | LOG V-15114 Main Proto Vessel with Nitrogen Blanket | Custom Made, Fixed Roof | NA | 1,300 Gallons |
| 5115 | LOG Dissolved Nitrogen Flotation Unit North ETP 2 (DNF) | Custom Made | NA | NA |

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. ~~For sources that burn fuel, only gaseous fuels are used except for the following that also burn fuel oil: S1486, S1487, S1488, S1491, S1492, S1493, S1495, S1496, S1497, S1498, S1500, S1504, S1508, S1510, S1511, S1763, S4002, and S4003.~~ The CO Boilers (S1507, S1509, and S1512) burn DAF Float ~~and~~ Waste Biosolids, ~~and Sulfonol Reclaimer Bottoms~~ in accordance with Shell's Part B RCRA Hazardous Waste Permit.

| S# | Description | Make or Type | Model | Capacity |
|-----------------|---|-------------------------|------------------------|-------------------|
| 5116 | LOG Dissolved Nitrogen Flotation Unit South ETP 2 (DNF) | Custom Made | NA | NA |
| 5117 | LOG Biotreater Tank SPM-14121 ETP 2 | Custom Made | NA | NA |
| 5118 | LOG SPM-14135 Bioclarifier ETP 2 | Custom Made | NA | NA |
| 5119 | LOG SPM-14137 Bioclarifier ETP 2 | Custom Made | NA | NAs |
| 5121 | LOG SPM-14111 DNF Float Tank ETP 2 | Custom Made, Fixed Roof | NA | 12,000 Gallons |
| 5125 | LOG V-15117 Standby Proto Vessel | Custom Made, Fixed Roof | NA | 217 Gallons |
| 5140 | Diesel Engine | Volkswagen | SV45-4025BB | 53 HP |
| 6051 | Diesel Engine | Caterpillar | Cat 3406B | 470 HP |
| 6052 | Diesel Engine | Detroit Diesel | DDFF-T6VT | 302 HP |
| 6053 | Diesel Engine | Detroit Diesel | 9123700 Class2 | 1050 HP |
| 6054 | Diesel Engine | Cummins | N855-F | 240 HP |
| 6055 | Diesel Engine | Caterpillar | 3408B | 597 HP |
| 6056 | Diesel Engine | Caterpillar | 3406BD1 | 519 HP |
| 6057 | Diesel Engine | Caterpillar | 3406B | 519 HP |
| 6058 | Diesel Engine | VW | | 80 HP |
| 6059 | Diesel Engine | Caterpillar | 1W6784 | 145 HP |
| 6060 | Diesel Engine | Ingersol | Cummings Diesel | 450 HP |
| 6061 | Flexicoker Unit (FXU) Transloading | NA | NA | 450 tons/day |
| 6062 | Ethanol Tank | Internal Floating Roof | NA | 15,000 bbl |
| 6068 | Heated Asphalt Tank 22 | Custom Made, Fixed Roof | NA | 2,314,200 Gallons |
| 12490 | LOG Tank 12519 Wastewater ETP | Custom Made, External | NA | 7,402,238 Gallons |

II. Equipment

Table II A - Permitted Sources

Each of the following sources has been issued a permit to operate pursuant to the requirements of BAAQMD Regulation 2, Permits. The capacities in this table are the maximum allowable capacities for each source, pursuant to Standard Condition I.J and Regulation 2-1-301. ~~For sources that burn fuel, only gaseous fuels are used except for the following that also burn fuel oil: S1486, S1487, S1488, S1491, S1492, S1493, S1495, S1496, S1497, S1498, S1500, S1504, S1508, S1510, S1511, S1763, S4002, and S4003. The CO Boilers (S1507, S1509, and S1512) burn DAF Float and Waste Biosolids, and Sulfino Reclaimer Bottoms~~ in accordance with Shell's Part B RCRA Hazardous Waste Permit.

| S# | Description | Make or Type | Model | Capacity |
|-------|--------------------------------------|--|-------|-------------------|
| | 1&2 | Floating Roof | | |
| 12491 | LOG Tank 12520 Wastewater ETP 1&2 | Custom Made, External Floating Roof | NA | 7,402,238 Gallons |
| 17095 | Tank 17095 | Custom Made, External Floating Roof | NA | 90,648 bbl |

Table II B – Abatement Devices

| Abatement Device | Description | Source(s) Controlled | Applicable Requirement | Operating Parameters | Limit or Efficiency |
|------------------|-----------------|---|--|----------------------|---|
| A1 | Mist Eliminator | S24 | <u>BAAQMD</u> Regulation 6-1-301 | None | Ringelmann No. 1 for ≤ 3 minutes in any hour |
| A3 | Mist Eliminator | S552, S553, S554, S555, S556, S557, S558, S559, S1523 | <u>BAAQMD</u> Regulation 6-1-301 | None | Ringelmann No. 1 for ≤ 3 minutes in any hour |

II. Equipment

Table II B – Abatement Devices

| Abatement Device | Description | Source(s) Controlled | Applicable Requirement | Operating Parameters | Limit or Efficiency |
|------------------|---|------------------------------|--|----------------------|--|
| A4 | Mist Eliminator | S560, S561, S815, S985 | <u>BAAQMD</u> Regulation 6-1-301 | None | Ringelmann No. 1 for ≤ 3 minutes in any hour |
| A5 | Mist Eliminator – | S567 | <u>BAAQMD</u> Regulation 6-1-301 | None | Ringelmann No. 1 for ≤ 3 minutes in any hour |
| A6 | Mist Eliminator | S1043, S1044, S1045 | <u>BAAQMD</u> Regulation 6-1-301 | None | Ringelmann No. 1 for ≤ 3 minutes in any hour |
| A7 | Mist Eliminator | S1048, S1525 | <u>BAAQMD</u> Regulation 6-1-301 | None | Ringelmann No. 1 for ≤ 3 minutes in any hour |
| A10 | Mist Eliminator – | S1160 | <u>BAAQMD</u> Regulation 6-1-301 | None | Ringelmann No. 1 for ≤ 3 minutes in any hour |
| A12 | Electrostatic Precipitator 1 | S1426, S1507 | <u>BAAQMD</u> Regulation 6-1-301 | None | Ringelmann No. 1 for ≤ 3 minutes in any hour |
| A13 | Electrostatic Precipitator 2 | S1426, S1509 | <u>BAAQMD</u> Regulation 6-1-301 | None | Ringelmann No. 1 for ≤ 3 minutes in any hour |
| A14 | Electrostatic Precipitator 3 | S1426, S1512 | <u>BAAQMD</u> Regulation 6-1-301 | None | Ringelmann No. 1 for ≤ 3 minutes in any hour |
| A22 | Vent Gas Compressors (3) for Vacuum Flasher Unit | S1421 | None | None | None |
| A23 | Vapor Control for Gasoline Dispensing Facility | S1598 | Regulation 8- 7-301 & 302 | None | None |

II. Equipment

Table II B – Abatement Devices

| Abatement Device | Description | Source(s) Controlled | Applicable Requirement | Operating Parameters | Limit or Efficiency |
|------------------|--|---|---|----------------------|--|
| A25 | Vapor Recovery System J-149 for Vine Hill Storage Tanks | S610, S611, S612, S613, S1133, S1134, S1751, S1752, S1753, S1754, S1757, S1758, S4334 | Regulation 8-5-306; 40CFR60.112 a(a)(3); 40CFR60.112 b(a)(3)(i); and 40 CFR 60.112(b)(3) (ii) | None | Abatement efficiency of at least 95% by weight |
| A26 | Vapor Recovery System J-150 for Interim Gasoline Storage Tanks | S13, S14, S19, S20, S534, S1070, S1139, S1140, S1141, S5112, S5113, S5114, S5125 | Regulation 8-5-306 | None | Abatement efficiency of at least 95% by weight |

II. Equipment

Table II B – Abatement Devices

| Abatement Device | Description | Source(s) Controlled | Applicable Requirement | Operating Parameters | Limit or Efficiency |
|------------------|---------------------------|---|--|----------------------|---|
| A33 | LOP Vapor Recovery System | S1114, S1115, S1417, S1420, S1421, S1423, S1424, S1425, S1426, S1427, S1428, S1429, S1430 S1433, S1434, S1435, S1436, S1445, S1446, S1447, S1448, S1449, S2012, | Regulation 8-5-306, 8-28-303, 40CFR60.112 b(a)(3)(i); and 40 CFR 60.112b(a)(3) (ii) | None | Abatement efficiency of at least 95% by weight |
| A52 | SCOTNo. 1 | S1431 | Regulation 9-1-307 | None | 250 ppmv SO ₂ dry, at 0% oxygen |
| A53 | Mist Eliminator | S571, S572, S573, S1524 | <u>BAAQMD</u> Regulation <u>6-1-301</u> | None | Ringelmann No. 1 for ≤ 3 minutes in any hour |
| A54 | Mist Eliminator | S867, S868 | <u>BAAQMD</u> Regulation <u>6-1-301</u> | None | Ringelmann No. 1 for ≤ 3 minutes in any hour |

II. Equipment

Table II B – Abatement Devices

| Abatement Device | Description | Source(s) Controlled | Applicable Requirement | Operating Parameters | Limit or Efficiency |
|------------------|--|---|--|-----------------------|--|
| A56 | Vapor Recovery System for Crude String Storage Tanks | S483, S484, S530, S532, S4319, S4350, S4356 | Regulation 8-5-306, 40CFR60.112 b(a)(3)(i); and 40 CFR 60.112(b)(3) (ii) | None | Abatement efficiency of at least 95% by weight |
| A57 | Mist Eliminator | S23, S26, S497, <u>S6068</u> | <u>BAAQMD</u> Regulation 6- <u>1</u> -301 | None | Ringelmann No. 1 for ≤ 3 minutes in any hour |
| <u>A57</u> | <u>Mist Eliminator</u> | <u>S6068</u> | <u>Condition # 23605 Part 5</u> | <u>None</u> | <u>Opacity ≤ 0 percent, except for one consecutive 15-minute period in any 24-hour period when the transfer lines at S6068 are being blown for clearing.</u> |
| A76 | SCOT No. 3 | S1765 | Regulation 9-1-307 | None | 250 ppmv SO2 dry, at 0% oxygen |
| A77 | Baghouse for Flexicoker Silo | S1767, S1768, S1769 | <u>BAAQMD</u> Regulation 6- <u>1</u> -301 | None | Ringelmann No. 1 for ≤ 3 minutes in any hour |
| A100 | Thermal Oxidizer for Marine Vapor Recovery System | S2001, S2002, S2003, S2004 | Regulation 8-44-301 and Condition 4288 Part 6 | Temperature > 1400 °F | Destruction efficiency ≥ 95 weight% |

II. Equipment

Table II B – Abatement Devices

| Abatement Device | Description | Source(s) Controlled | Applicable Requirement | Operating Parameters | Limit or Efficiency |
|------------------|---|---|---|----------------------|------------------------|
| A101 | Flare for Vine Hill Vapor Recovery System | S610, S611, S612, S613, S1133, S1134, S1751, S1752, S1753, S1754, S1757, S1758, S4334 | Condition # 7761 Part 6 | None | None |
| A102 | Flare for Crude String Vapor Recovery System | S483, S484, S530, S532, S4319, S4350, S4356 | Condition # 7761 Part 11 | None | None |
| A103 | Flare for Interim Gasoline Vapor Recovery System | S13, S14, S534, S1139, S1140, S1141, S19, S20, | Condition # 7761 Part 1 | None | None |
| A751 | Flexsorb® system | S1759 | Condition # 7618 Part E2 | None | H2S limits in Flexigas |
| <u>A771</u> | <u>Temporary Supplemental Baghouse for Flexicoker</u> | <u>S1769</u> | <u>Condition # 20755 Part 1 and 2</u> | <u>None</u> | <u>None</u> |
| A1114 | Caustic Scrubber for Alky Spent Acid Tanks | S1114, S1115 | None | None | None |

II. Equipment

Table II B – Abatement Devices

| Abatement Device | Description | Source(s) Controlled | Applicable Requirement | Operating Parameters | Limit or Efficiency |
|------------------|---|---------------------------|----------------------------------|----------------------|---|
| A1401 | API Headworks Water Scrubber (ETP 1) | S1469 | None | None | None |
| A1402 | API Headworks Carbon Adsorption for Water Scrubber (ETP 1) | S1469 | None | None | None |
| A1426 | Baghouse for CCU Spent Catalyst Hopper (Portable) | S1426 | <u>BAAQMD</u> Regulation 6-1-301 | None | Ringelmann No. 1 for ≤ 3 minutes in any hour |
| A1427 | Baghouse for Catalyst Additive Storage and Injection System for CCU | S1426 | Condition 12911, Part 2 | None | Ringelmann No. 0.5 ≤ 3 minutes in any hour |
| A1431 | SCOT No. 2 | S1432 | Regulation 9-1-307 | None | 250 ppmv SO2 dry, at 0% oxygen |
| A1465 | Water Scrubber for LOP Gross Oil Separator | S1465 | None | None | None |
| A1467 | Carbon Adsorption Vessel for LOP Gross Oil Separator | S1465 | None | None | None |
| A1469 | Wastewater Separator Scrubber 1 (ETP 1) | S1469 | None | None | None |
| A1470 | Wastewater Separator Scrubber 2 (ETP 1) | S1469 | None | None | None |
| S1470 | LOG LPG Loading Flare | S1426 S4338 | None | None | None |
| A1471 | Wastewater Separator Scrubber 3 | S1469 | None | None | None |

II. Equipment

Table II B – Abatement Devices

| Abatement Device | Description | Source(s) Controlled | Applicable Requirement | Operating Parameters | Limit or Efficiency |
|------------------|--|--|------------------------|----------------------|---------------------|
| S1471 | LOP Auxiliary Flare | S1114, S1115, S1417, S1420, S1421, S1423, S1424, S1425, S1426, S1427, S1428, S1429, S1430, S1431, S1432 S1433, S1434, S1435, S1436, S1445, S1446, S1447, S1448, S1449, S2012 | None | None | None |
| A1472 | Wastewater Separator Scrubber 4 (ETP 1) | S1469 | None | None | None |

II. Equipment

Table II B – Abatement Devices

| Abatement Device | Description | Source(s) Controlled | Applicable Requirement | Operating Parameters | Limit or Efficiency |
|------------------|--|---|------------------------|----------------------|---------------------|
| S1472 | LOP Main Flare | S1114, S1115, S1417, S1420, S1421, S1423, S1424, S1425, S1426, S1427, S1428, S1429, S1430, S1433, S1434, S1435, S1436, S1445, S1446, S1447, S1448, S1449, S2012 | None | None | None |
| A1473 | Carbon Adsorption Vessel for wastewater Scrubber 1 (ETP 1) | S1469 | None | None | None |
| A1474 | Carbon Adsorption Vessel for Wastewater Scrubber 2 (ETP 1) | S1469 | None | None | None |
| A1475 | Carbon Adsorption Vessel for Wastewater Scrubber 3 (ETP 1) | S1469 | None | None | None |
| A1476 | Carbon Adsorption Vessel for Wastewater Scrubber 4 (ETP 1) | S1469 | None | None | None |

II. Equipment

Table II B – Abatement Devices

| Abatement Device | Description | Source(s) Controlled | Applicable Requirement | Operating Parameters | Limit or Efficiency |
|------------------|---|-----------------------------------|---|----------------------|---|
| A1501 | F-56 Backup Thermal Oxidizer for Sulfur Plants 1 and 2 | S1431, S1432 S1578 S1579 | Regulation 9-1-307 | None | 250 ppmv SO ₂ dry, at 0% oxygen |
| A1501 | F-56 Backup Thermal Oxidizer for Sulfur Plants 1 and 2 | S1431, S1432 S1578 S1579 | NSPS J 40 CFR 60.104(a)(2) | None | ≤ 250 ppmvd SO ₂ at 0% oxygen, 12-hour rolling average |
| S1507 | UTIL CO Boiler 1 | S1426 | None | None | None |
| S1509 | UTIL CO Boiler 2 | S1426 | None | None | None |
| S1512 | UTIL CO Boiler 3 | S1426 | None | None | None |
| A1517 | F-77 Primary Thermal Oxidizer for Sulfur Plants 1 and 2 | S1431, S1432 S1578 S1579 | Regulation 9-1-307 | None | 250 ppmv SO ₂ dry, at 0% oxygen |
| A1517 | F-77 Primary Thermal Oxidizer for Sulfur Plants 1 and 2 | S1431, S1432 S1578 S1579 | NSPS J 40 CFR 60.104(a)(2) | None | ≤ 250 ppmvd SO ₂ at 0% oxygen, 12-hour rolling average |
| A1518 | F-109 Catalytic Oxidizer for SCOT No. 3 | S1765 | Regulation 9-1-307 | None | 250 ppmv SO₂ dry, at 0% oxygen |
| A1518 | F-109 Catalytic Oxidizer for SCOT No. 3 | S1765 | NSPS J 40 CFR 60.104(a)(2) | None | ≤ 250 ppmvd SO₂ at 0% oxygen, 12-hour rolling average |
| A1541 | Mist Eliminator | | <u>BAAQMD</u> Regulation 6-1-301 | None | Ringelmann No. 1 for ≤ 3 minutes in any hour |

II. Equipment

Table II B – Abatement Devices

| Abatement Device | Description | Source(s) Controlled | Applicable Requirement | Operating Parameters | Limit or Efficiency |
|------------------|---|-------------------------------------|---|----------------------|--|
| A1765 | Scrubber for Sulfur Loading Rack Vent | S1765 S4347 S4180 | Condition 12271 Part 72 | None | Overall capture/removal efficiency of 95% by weight and H2S shall not exceed 5 ppm |
| S1771 | OPCEN Flexigas Flare | S1759 | None | None | None |
| S1772 | OPCEN Hydrocarbon Flare | S1759, S1764, S1770, S1774 | None | None | None |
| A1779 | Scrubber No. 1 for CPI Separator Water | S1779 | None | None | None |
| A1780 | Scrubber No. 2 for CPI Separator Water | S1779 | None | None | None |
| A1781 | Carbon Adsorber w/ Water Scrubber No. 1 for CPI Separator | S1779 | None | None | None |
| A1782 | Carbon Adsorber w/ Water Scrubber No. 2 for CPI Separator | S1779 | None | None | None |
| A1803 | Water Spray Sprinklers for OPCEN Coke Corral | S1803 | <u>BAAQMD</u> Regulation 6-1-301 & Condition # 4041 Parts 3 and 4 | None | Ringelmann No. $0.5 \leq 3$ minutes in any hour |

II. Equipment

Table II B – Abatement Devices

| Abatement Device | Description | Source(s) Controlled | Applicable Requirement | Operating Parameters | Limit or Efficiency |
|------------------|--|----------------------|---|----------------------|---|
| A1805 | Carbon Adsorption (2 Canisters) | S1805 | Condition # 4298 Parts 5 and 6 and 40CFR61.354 (d) and 40CFR61.349 (a)(2)(ii) | <u>None</u> | Change out with unspent carbon upon breakthrough defined as detection at its outlet of 50 ppm VOC, measured as methane and Abatement efficiency of at least 95% by weight |
| A2007 | Water Scrubber for DNF Unit | S2007 | None | None | None |
| A2008 | Carbon Adsorber (2 Canisters) for Water Scrubber at DNF Unit | S2007 | None | None | None |
| A2009 | Water Scrubber for DNF Unit | S2008 | None | None | None |
| A2012 | Carbon Adsorber (2 Canisters) for Water Scrubber at DNF | S2008 | None | None | None |
| <u>A2017</u> | <u>DNF Outlet Sump Water Scrubber (ETP 1)</u> | <u>S2007, S2008</u> | None | <u>None</u> | <u>None</u> |
| A2020 | DNF Outlet Sump Carbon Adsorption for Water Scrubber (ETP 1) | S2007, S2008 | None | <u>None</u> | None |
| <u>A2023</u> | <u>Thermal Oxidizer for SCOT No. 3</u> | <u>S1765</u> | <u>Regulation 9-1-307</u> | <u>None</u> | <u>250 ppmv SO2 dry, at 0% oxygen</u> |

II. Equipment

Table II B – Abatement Devices

| Abatement Device | Description | Source(s) Controlled | Applicable Requirement | Operating Parameters | Limit or Efficiency |
|------------------|---|----------------------|---|--------------------------|---|
| A2023 | Thermal Oxidizer for SCOT No. 3 | S1765 | NSPS J 40 CFR 60.104(a)(2) & Condition # 19748, Part 7 | Temperature ≥ 1,000 F | ≤ 250 ppmvd SO ₂ at 0% oxygen, 12- hour rolling average |
| A4002 | SCR No. 1 for Delayed Coking Unit | S4002 | Condition # 12271 Part 35 | None | NO _x ≤ 10 ppmv, dry @ 3% O ₂ , averaged over 3 hr |
| A4003 | SCR No. 2 for Delayed Coking Unit | S4003 | Condition # 12271 Part 35 | None | NO _x ≤ 10 ppmv, dry @ 3% O ₂ , averaged over 3 hr |
| A4005 | Particulate Collection Device for Delayed Coking Unit for Coke Corral Barn | S4005 | Condition # 12271 Part 79 | None | 0.01 grain/DSCF |
| A4006 | Particulate Collection Device for Delayed Coking Unit for Hopper Loading | S4005 | Condition # 12271 Part 81 | None | 0.01 grain/DSCF |
| A4141 | SCR for HGHT Heaters | S4031, S4141 | Condition # 12271 Part 35 | None | NO _x ≤ 10 ppmv, dry @ 3% O ₂ , averaged over 3 hr |
| A4161 | SCR for Hydrogen Plant 3 Steam Methane Reformer | S4161 | Condition # 12271 Part 29 | None | NO _x ≤ 10ppmv, dry @ 3% O ₂ , averaged over 3 hr |

II. Equipment

Table II B – Abatement Devices

| Abatement Device | Description | Source(s) Controlled | Applicable Requirement | Operating Parameters | Limit or Efficiency |
|------------------|--|--------------------------------|----------------------------------|----------------------|---|
| A4180 | SCOT No. 4 | S4180 | Condition # 12271 Part 66 and 67 | None | Total reduced sulfur prior to A4181 shall not exceed 100 ppm, dry, at 0% oxygen, averaged over 8 hours. |
| A4181 | Thermal Oxidizer for Sulfur Plant 4 | S4180, S4347 | Condition # 12271 Part 68 | None | Conversion Efficiency \geq 95 weight% |
| A-4181 | Thermal Oxidizer for Sulfur Plant 4 and sulfur pit in Sulfur Pit 3 | S1765 sulfur pit, S4180, S4347 | NSPS J 40 CFR 60.104(a)(2) | None | \leq 250 ppmvd SO ₂ at 0% oxygen, 12-hour rolling average |
| A4190 | SCR No. 1 for Boiler 6 | S4191, S4190 | Condition # 12271 Part 24c | None | NO _x \leq 5 ppmv, dry @ 15% O ₂ , averaged over 3 hr |
| A4191 | Catalytic Oxidation No. 1 for Boiler 6 | S4190, S4191 | Condition # 12271 Part 24c | None | NO _x \leq 5 ppmv, dry @ 15% O ₂ , averaged over 3 hr |
| A4192 | SCR No. 2 for Boiler 6 | S4193, S4192 | Condition # 12271 Part 24c | None | NO _x \leq 5 ppmv, dry @ 15% O ₂ , averaged over 3 hr |

II. Equipment

Table II B – Abatement Devices

| Abatement Device | Description | Source(s) Controlled | Applicable Requirement | Operating Parameters | Limit or Efficiency |
|-------------------|---|---|--|---|---|
| A4193 | Catalytic Oxidation No. 2 for Boiler 6 | S4192, S4193 | Condition # 12271 Part 24c | None | NOx ≤5 ppmv, dry @ 15% O ₂ , averaged over 3 hr |
| S4201 | DC Clean Fuels Flare | S4211, S4212, S4080, S4140, S4160, S4180, S4001, S4020, S4050 | Condition 12271 Part 57, 60 and 61 | None | Hydrocarbon destruction efficiency of 98.5% |
| A5115 | Carbon Adsorption Vessel (ETP 2) | S5115, S5116 | 40CFR61.349 (a)(2)(ii); Condition 11313 Part 2 | 1000 ppmv change out of second to last carbon bed | Abatement efficiency of at least 95% by weight; 1000 ppmv change out of second to last carbon bed |
| A5116 | Carbon Adsorption Vessel (ETP 2) | S5115, S5116 | 40CFR61.349 (a)(2)(ii); Condition # 11313 4 Part 3 | 500 ppmv change out of second to last carbon bed | Abatement efficiency of at least 95% by weight; 500 ppmv change out of second to last carbon bed |
| A20070 | Scrubber for ETP 1&2 API Flume – East | S1469 | None | None | None |
| A20080 | Carbon Adsorption Vessel on ETP 1&2 API Flume – East | S1469 | None | None | None |

II. Equipment

Table II B – Abatement Devices

| Abatement Device | Description | Source(s) Controlled | Applicable Requirement | Operating Parameters | Limit or Efficiency |
|------------------|--|----------------------|------------------------|----------------------|---------------------|
| A20090 | Scrubber System on ETP 1&2 API Flume – West | S1469 | None | None | None |
| A20120 | Carbon Adsorption Vessel on ETP 1&2 API Flume – West | S1469 | None | None | None |

II. Equipment

The following table reflects tank sources which have been determine to be exempt from permitting requirements but have applicable requirements:

Table IIC - Exempt Source List of Tanks

| Source Number | Source Description | Permit Exemption |
|---------------|--------------------|----------------------------|
| 1 | Tank 1 | 2-1-123.3.2 2-1-123.3.3 |
| 2 | Tank 2 | 2-1-123.3.2 2-1-123.3.3 |
| 8 | Tank 8 | 2-1-123.3.2 2-1-123.3.3 |
| 10 | Tank 10 | 2-1-123.3.2 2-1-123.3.3 |
| 25 | Tank 25 | 2-1-123.3.2 2-1-123.3.3 |
| 28 | Tank 28 | 2-1-123.3.2 2-1-123.3.3 |
| 33 | Tank 33 | 2-1-123.3.2 2-1-123.3.3 |
| 49 | Tank 49 | 2-1-123.3.2 2-1-123.3.3 |
| 50 | Tank 50 | 2-1-123.3.2 2-1-123.3.3 |
| 53 | Tank 53 | 2-1-123.3.2 2-1-123.3.3 |
| 130 | Tank 130 | 2-1-123.3.2 |
| 145 | Tank 145 | 2-1-123.3.2 2-1-123.3.3 |

II. Equipment

| Source Number | Source Description | Permit Exemption |
|---------------|--------------------|--|
| 146 | Tank 146 | 2-1-123.3.2 |
| 147 | Tank 147 | 2-1-123.3.2 |
| 148 | Tank 148 | 2-1-123.3.2 |
| 149 | Tank 149 | 2-1-123.3.2 |
| 222 | Tank 222 | 2-1-123.3.2 2-1-123.3.3 |
| 258 | Tank 258 | 2-1-123.3.2 |
| 263 | Tank 263 | 2-1-123.3.2 2-1-123.3.3 |
| 267 | Tank 267 | 2-1-123.3.2 2-1-123.3.3 2-1-123.10 |
| 332 | Tank 332 | 2-1-123.3.2 2-1-123.3.3 |
| 334 | Tank 334 | 2-1-123.3.2 |
| 335 | Tank 335 | 2-1-123.3.2 |
| 336 | Tank 336 | 2-1-123.3.2 |
| 337 | Tank 337 | 2-1-123.3.2 |

II. Equipment

| Source Number | Source Description | Permit Exemption |
|---------------|--------------------|----------------------------|
| 346 | Tank 346 | 2-1-123.3.2 2-1-123.3.3 |
| 356 | Tank 356 | 2-1-123.3.2 2-1-123.3.3 |
| 393 | Tank 393 | 2-1-123.3.2 2-1-123.3.3 |
| 394 | Tank 394 | 2-1-123.3.2 2-1-123.3.3 |
| 400 | Tank 400 | 2-1-123.3.2 2-1-123.3.3 |
| 401 | Tank 401 | 2-1-123.3.2 |
| 418 | Tank 418 | 2-1-123.3.3 |
| 419 | Tank 419 | 2-1-123.3.3 |
| 467 | Tank 467 | 2-1-123.3.3 |
| 468 | Tank 468 | 2-1-123.3.3 |
| 475 | Tank 475 | 2-1-123.3.2 |
| 476 | Tank 476 | 2-1-123.3.2 |
| 477 | Tank 477 | 2-1-123.3.2 2-1-123.3.3 |

II. Equipment

| Source Number | Source Description | Permit Exemption |
|---------------|--------------------|----------------------------|
| 478 | Tank 478 | 2-1-123.3.2 2-1-123.3.3 |
| 485 | Tank 485 | 2-1-123.3.2 |
| 536 | Tank 536 | 2-1-123.3.2 |
| 537 | Tank 537 | 2-1-123.3.2 |
| 597 | Tank 597 | 2-1-123.3.2 2-1-123.3.3 |
| 608 | Tank 608 | 2-1-123.3.2 |
| 609 | Tank 609 | 2-1-123.3.2 |
| 713 | Tank 713 | 2-1-123.3.2 |
| 714 | Tank 714 | 2-1-123.3.2 |
| 806 | Tank 806 | 2-1-123.3.2 2-1-123.3.3 |
| 814 | Tank 814 | 2-1-123.3.2 2-1-123.3.3 |
| 833 | Tank 833 | 2-1-123.3.2 2-1-123.3.3 |
| 834 | Tank 834 | 2-1-123.3.2 2-1-123.3.3 |

II. Equipment

| Source Number | Source Description | Permit Exemption |
|---------------|--------------------|----------------------------|
| 835 | Tank 835 | 2-1-123.3.2 |
| 839 | Tank 839 | 2-1-123.3.2 2-1-123.3.3 |
| 850 | Tank 850 | 2-1-123.3.3 |
| 851 | Tank 851 | 2-1-123.3.2 2-1-123.3.3 |
| 869 | Tank 869 | 2-1-123.3.2 2-1-123.3.3 |
| 879 | Tank 879 | 2-1-123.3.2 2-1-123.3.3 |
| 888 | Tank 888 | 2-1-103 |
| 890 | Tank 890 | 2-1-123.3.2 2-1-123.3.3 |
| 902 | Tank 902 | 2-1-123.3.2 2-1-123.3.3 |
| 903 | Tank 903 | 2-1-123.3.2 2-1-123.3.3 |
| 928 | Tank 928 | 2-1-123.3.2 2-1-123.3.3 |
| 929 | Tank 929 | 2-1-123.3.2 2-1-123.3.3 |
| 932 | Tank 932 | 2-1-123.3.2 |

II. Equipment

| Source Number | Source Description | Permit Exemption |
|---------------|--------------------------|----------------------------|
| 933 | Tank 933 | 2-1-123.3.2 |
| 934 | Tank 934 | 2-1-123.3.2 2-1-123.3.3 |
| 935 | Tank 935 | 2-1-123.3.11 |
| 953 | Tank 953 | 2-1-123.3.2 2-1-123.3.3 |
| 954 | Tank 954 | 2-1-123.3.2 2-1-123.3.3 |
| 955 | Tank 955 | 2-1-123.3.2 2-1-123.3.3 |
| 956 | Tank 956 | 2-1-123.3.2 2-1-123.3.3 |
| 959 | Tank 959 | 2-1-123.3.2 2-1-123.3.3 |
| 962 | Tank 962 | 2-1-123.3.2 |
| 965 | Tank 965 | 2-1-123.3.2 |
| 966 | Tank 966 | 2-1-123.3.2 |
| 968 | Tank 968 | 2-1-123.3.2 2-1-123.3.3 |
| 980 | Tank 980 (Butane Sphere) | 2-1-123.3.1 |

II. Equipment

| Source Number | Source Description | Permit Exemption |
|---------------|---------------------------|----------------------------|
| 981 | Tank 981 | 2-1-123.3.2 2-1-123.3.3 |
| 987 | Tank 987 | 2-1-123.3.2 2-1-123.3.3 |
| 988 | Tank 988 | 2-1-123.3.2 2-1-123.3.3 |
| 1003 | Tank 1003 | 2-1-123.3.3 |
| 1012 | Tank 1012 | 2-1-123.3.2 2-1-123.3.3 |
| 1020 | Tank 1020 | 2-1-123.2 |
| 1027 | Tank 1027 | 2-1-123.3.2 |
| 1032 | Tank 1032 | 2-1-123.3.2 2-1-123.3.3 |
| 1034 | Tank 1034 | 2-1-123.3.3 |
| 1040 | Tank 1040 | 2-1-123.3.2 2-1-123.3.3 |
| 1047 | Tank 1047 (Butane Sphere) | 2-1-123.3.1 |
| 1049 | Tank 1049 | 2-1-123.3.2 2-1-123.3.3 |
| 1052 | Tank 1052 | 2-1-123.3.2 2-1-123.3.3 |

II. Equipment

| Source Number | Source Description | Permit Exemption |
|---------------|--------------------|----------------------------|
| 1053 | Tank 1053 | 2-1-123.3.2 2-1-123.3.3 |
| 1054 | Tank 1054 | 2-1-123.3.2 2-1-123.3.3 |
| 1055 | Tank 1055 | 2-1-123.3.2 2-1-123.3.3 |
| 1056 | Tank 1056 | 2-1-123.3.2 2-1-123.3.3 |
| 1057 | Tank 1057 | 2-1-123.3.2 2-1-123.3.3 |
| 1058 | Tank 1058 | 2-1-123.3.2 2-1-123.3.3 |
| 1059 | Tank 1059 | 2-1-123.3.2 2-1-123.3.3 |
| 1060 | Tank 1060 | 2-1-123.3.2 2-1-123.3.3 |
| 1061 | Tank 1061 | 2-1-123.3.2 2-1-123.3.3 |
| 1062 | Tank 1062 | 2-1-123.3.2 2-1-123.3.3 |
| 1066 | Tank 1066 | 2-1-123.3.2 2-1-123.3.3 |
| 1068 | Tank 1068 | 2-1-123.2 |
| 1069 | Tank 1069 | 2-1-123.3.2 2-1-123.3.3 |

II. Equipment

| Source Number | Source Description | Permit Exemption |
|---------------|----------------------|-----------------------------|
| 1073 | Tank 1073 | 2-1-123.3.2 2-1-123.3.3 |
| 1074 | Tank 1074 | 2-1-123.3.2 2-1-123.3.3 |
| 1081 | Tank 1081 | 2-1-123.3.2 2-1-123.3.10 |
| 1084 | Tank 1084 | 2-1-123.3.2 2-1-123.3.3 |
| 1112 | Tank 1112 | 2-1-123.3.2 2-1-123.3.3 |
| 1125 | Tank 1125 | 2-1-123.3.2 2-1-123.3.3 |
| 1128 | Tank 1128 | 2-1-123.3.2 |
| 1132 | Tank 1132 | 2-1-123.3.2 |
| 1142 | Tank 1142 | 2-1-123.3.2 |
| 1143 | Tank 1143 | 2-1-123.3.2 |
| 1144 | Tank 1144 | 2-1-123.3.2 |
| 1149 | V 1049 Butane Sphere | 2-1-123.3.1 |
| 1150 | V 1150 Butane Sphere | 2-1-123.3.1 |

II. Equipment

| Source Number | Source Description | Permit Exemption |
|---------------|-------------------------|----------------------------|
| 1151 | V 1151 Butane Sphere | 2-1-123.3.1 |
| 1152 | V 1152 Propane Bullet | 2-1-123.3.1 |
| 1153 | V 1153 Propane Bullet | 2-1-123.3.1 |
| 1154 | V 1154 Propane Bullet | 2-1-123.3.1 |
| 1165 | Tank 1165 | 2-1-123.3.3 |
| 1173 | Tank 1173 | 2-1-123.3.2 2-1-123.3.3 |
| 1174 | Tank 1174 | 2-1-123.3.3 |
| 1175 | Tank 1175 | 2-1-123.3.3 |
| 1190 | Tank 1190 | 2-1-123.3.3 |
| 1231 | Tank 1231 Fresh DEA | 2-1-123.3.2 2-1-123.3.3 |
| 1347 | Tank 1347 | 2-1-123.3.2 |
| 1348 | Tank 1348 | 2-1-123.3.2 |
| 1780 | Tank 1338 Butane Sphere | 2-1-123.3.1 |

II. Equipment

| Source Number | Source Description | Permit Exemption |
|---------------|----------------------------------|------------------|
| 1781 | Tank 1341 Propane Bullet | 2-1-123.3.1 |
| 2006 | Tank 906 Caustic Service | 2-1-123.2 |
| 5123 | LOG V-15115 Standby Proto Vessel | 2-1-123.1 |
| 5124 | LOG V-15116 Standby Proto Vessel | 2-1-123.1 |
| 12166 | Tank 12166 | 2-1-123.2 |

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

1. BAAQMD regulation(s): The date(s) of adoption or most recent amendment of the regulation by the District Board 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>. ~~The address is included at the end of this permit.~~

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 (07/19/06 5/2/04)07/09/08) | N |
| SIP Regulation 1 | General Provisions and Definitions (6/28/99) | Y - note 1 Y |
| BAAQMD Regulation 2, Rule 1 | General Requirements (07/19/06 8/1/01)03/04/09) | N |
| BAAQMD 2-1-429 | Federal Emissions Statement (12/21/04 6/7/95) | N Y |

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 1 | General Requirements (01/26/99 6/7/95) | Y - note 1 |
| SIP Regulation 2-1-429 | Federal Emissions Statement (4/3/95) | Y |
| 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 |
| SIP Regulation 2, Rule 4 | Emissions Banking (1/26/99) | Y - note 1 |
| BAAQMD Regulation 2, Rule 5 | New Source Review of Toxic Air Contaminants (1/6/10) | N |
| 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 (6/15/05) | N |
| BAAQMD Regulation 3 | Fees (6/16/10) | 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 7/9/08) | N |
| SIP Regulation 5 | Open Burning (9/4/98) | Y - note 1 |
| BAAQMD Regulation 6, Rule 1 | Particulate Matter and Visible Emissions (12/05/07 2/19/90) | Y |
| SIP Regulation 6 | Particulate Matter, General Requirements and Visible Emissions (9/4/98) | Y |
| BAAQMD Regulation 7 | Odorous Substances (3/17/82) | N |
| BAAQMD Regulation 8, Rule 1 | Organic Compounds - General Provisions (6/15/94; SIP approved 3/22/95) | Y |
| BAAQMD Regulation 8, Rule 2 | Organic Compounds – Miscellaneous Operations (07/20/05 06/15/94) | Y |
| SIP Regulation 8, Rule 2 | Organic Compounds – Miscellaneous Operations (3/22/95) | Y |
| BAAQMD Regulation 8, Rule 3 | Organic Compounds - Architectural Coatings (11/21/04 7/1/09 ; SIP approved 1/2/04) | Y |
| SIP Regulation 8, Rule 3 | Organic Compounds - Architectural Coatings (01/02/04 2/18/98) | Y |
| BAAQMD Regulation 8, Rule 4 | Organic Compounds - General Solvent and Surface Coating Operations (10/16/02; SIP approved 8/26/03) | Y |
| SIP Regulation 8, Rule 4 | Organic Compounds – General Solvent and Surface Coating Operations (08/26/03 12/23/97) | Y |

III. Generally Applicable Requirements

Table III
Generally Applicable Requirements

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) |
|---|---|--------------------------------|
| BAAQMD Regulation 8, Rule 10 | Organic Compounds – Pressure Vessel Depressurization (1/21/04) | <u>Y – note 2</u> |
| SIP Regulation 8, Rule 10 | Organic Compounds – Pressure Vessel Depressurization (10/3/84) | <u>Y</u> |
| BAAQMD Regulation 8, Rule 15 | Organic Compounds – Emulsified and Liquid Asphalts (6/1/94; SIP approved 3/22/95) | <u>Y</u> |
| BAAQMD Regulation 8, Rule 16, Section 302.1 | Organic Compounds – Solvent Cleaning Operations, Conveyorized Solvent Cleaner Requirements, General Requirements (10/16/2002; SIP approved 8/26/03) | Y |
| BAAQMD Regulation 8, Rule 16, Section 302.2 | Organic Compounds – Solvent Cleaning Operations, Conveyorized Solvent Cleaner Requirements, General Equipment Requirements (10/16/2002; SIP approved 8/26/03) | Y |
| BAAQMD Regulation 8, Rule 16, Section 302.3 | Organic Compounds – Solvent Cleaning Operations, Conveyorized Solvent Cleaner Requirements, Requirements when using a volatile solvent (10/16/2002; SIP approved 8/26/03) | Y |
| BAAQMD Regulation 8, Rule 19, Section 307 | Organic Compounds – Surface Coating of Miscellaneous Metal Parts and Products, Prohibition of Specification (10/16/2002; SIP approved 8/26/03) | Y |
| BAAQMD Regulation 8, Rule 19, Section 320 | Organic Compounds – Surface Coating of Miscellaneous Metal Parts and Products, Solvent Evaporative Loss Minimization (10/16/2002; SIP approved 8/26/03) | Y |
| BAAQMD Regulation 8, Rule 40 | Organic Compounds – Aeration of Contaminated Soil and Removal of Underground Storage Tanks (06/15/05; SIP approved 4/19/01 (version adopted 12/15/99)) | N |
| SIP Regulation 8, Rule 40 | Organic Compounds – Aeration of Contaminated Soil and Removal of Underground Storage Tanks (4/19/01) | <u>Y</u> |
| BAAQMD Regulation 8, Rule 47 | Organic Compounds - Air Stripping and Soil Vapor Extraction Operations (6/15/05; 4/5/94) | N |
| 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) | <u>Y - note 1</u> Y |
| BAAQMD Regulation 8, Rule 51 | Organic Compounds - Adhesive and Sealant Products (7/17/02) | N |

III. Generally Applicable Requirements

**Table III
 Generally Applicable Requirements**

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) |
|---|---|------------------------------------|
| SIP Regulation 8, Rule 51 | Organic Compounds - Adhesive and Sealant Products (2/26/02) | Y - note 1 Y |
| 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 |
| BAAQMD Regulation 9, Rule 1-110 | Conditional Exemption for facilities performing SO2 Area Monitoring (GLM). (05/20/92 3/15/95) | Y |
| BAAQMD Regulation 9, Rule 2 | H2S Limitation and Area Monitoring (10/6/99) | N |
| BAAQMD Regulation 11, Rule 2 | Hazardous Pollutants - Asbestos Demolition, Renovation and Manufacturing (10/7/98) | NY |
| BAAQMD Regulation 11, Rule 10 | Hazardous Pollutants - Hexavalent Chromium Emissions from Cooling Towers (11/15/8999) | NY |
| 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 Y |
| California Health and Safety Code Section 41750 et seq. | Portable Equipment | N |
| California Health and Safety Code Section 44300 et seq. | Air Toxics "Hot Spots" Information and Assessment Act of 1987 | N |
| 40 CFR Part 61, Subpart M | National Emission Standards for Hazardous Air Pollutants - National Emission Standard for Asbestos (07/20/04) | Y |
| EPA Regulation 40 CFR 82 | Protection of Stratospheric Ozone (12/28/07 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 M, 40 CFR 61 | Asbestos Demolition and Renovation | Y |
| 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 (07/20/04 6/19/95) | Y |

Note 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

III. Generally Applicable Requirements

the regulation.

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

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

The full text of each permit condition cited is included in Section VI, Permit Conditions, of this permit. The full language of SIP requirements is 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> included at the end of this permit. All other text may be found in the regulations themselves.

TABLE IV – A
SOURCE-SPECIFIC APPLICABLE REQUIREMENTS
S3 - TANK 3, S4 - TANK 4, S34 - TANK 34, S224 – TANK 224, S257 - TANK 257,
S396 – TANK 396, S397 -TANK 397, S548 - TANK 548, S549 - TANK 549,
S856 - TANK 856, S967 - TANK 967

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|--|---|-----------------------------|-----------------------|
| BAAQMD - Regulation 8, Rule 5 | Organic Compounds, Storage of Organic Liquids (10/18/06) | | |
| 8-5-117 | Limited Exemption, Low Vapor Pressure | N | |
| SIP BAAQMD - Regulation 8, Rule 5 | Organic Compounds, Storage of Organic Liquids (06/05/03) | | |
| 8-5-117 | Exemption, Low Vapor Pressure | Y | |

IV. Source Specific Applicable Requirements

TABLE IV – A
SOURCE-SPECIFIC APPLICABLE REQUIREMENTS
S3 - TANK 3, S4 - TANK 4, S34 - TANK 34, S224 – TANK 224, S257 - TANK 257,
S396 – TANK 396, S397 -TANK 397, S548 - TANK 548, S549 - TANK 549,
S856 - TANK 856, S967 - TANK 967

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|--|--|-----------------------------|-----------------------|
| <u>MACT</u> <u>40 CFR 63</u> <u>Subpart CC</u> <u>Refinery</u> <u>MACT</u> | NESHAP for Petroleum Refineries REQUIREMENTS FOR RECORDKEEPING ONLY – GROUP 2 TANKS (6/30/10) | | |
| <u>63.642(e)</u> | General recordkeeping requirements: Time period for keeping records, unless specified otherwise. 63.642(e) & 63.654655(i)(45) keep all other records 5 years, retrievable within 24 hr | Y | |
| | General recordkeeping requirements: Keep all reports and notification for the specified period of time. 63.642(e) & 63.654655(i)(45) required | Y | |
| <u>63.654655(i)</u> | Applicability records: Time period for keeping records of applicability determination, unless specified otherwise. 63.654655(i)(1) 63.123(a) Keep record readily accessible for the service life of the tank | Y | |
| | Applicability records: Records of dimensions & capacity required for non-exempt tanks? 63.654655(i)(1) 63.123(a) Required Keep record readily accessible for service life of the tank * | Y | |
| | Applicability records: Additional recordkeeping requirements for certain tanks. 63.654655(i)(1)(iv) determination of HAP content Keep record readily accessible for service life of the tank | Y | |
| <u>BAAQMD</u> <u>Condition #</u> <u>6111</u> | <u>Applies to S549</u> | | |
| <u>Part 1</u> | <u>Annual throughput limit [basis: Cumulative Increase]</u> | <u>Y</u> | |
| <u>Part 2</u> | <u>Vapor pressure limit [basis: Cumulative Increase]</u> | <u>Y</u> | |
| <u>Part 3</u> | <u>Benzene content limit [basis: Toxics]</u> | <u>N</u> | |
| <u>Part 4</u> | <u>Recordkeeping [basis: Cumulative Increase]</u> | <u>Y</u> | |
| <u>BAAQMD</u> <u>Condition #</u> <u>18618</u> | <u>Applies to S3, S4, S257, S548, S549, and S967</u> | | |

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IV. Source Specific Applicable Requirements

TABLE IV – A
SOURCE-SPECIFIC APPLICABLE REQUIREMENTS
S3 - TANK 3, S4 - TANK 4, S34 - TANK 34, S224 – TANK 224, S257 - TANK 257,
S396 – TANK 396, S397 -TANK 397, S548 - TANK 548, S549 - TANK 549,
S856 - TANK 856, S967 - TANK 967

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------------|--|-----------------------------|-----------------------|
| Part 1 | Throughput limit (basis: Regulation 2-1-234.3) | N | |
| Part 2 | Recordkeeping (basis: Regulation 2-1-234.3) | N | |

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TABLE IV – B
SOURCE-SPECIFIC APPLICABLE REQUIREMENTS
S1235 - TANK 739 CHEM STORAGE, S1236 - TANK 740 CHEM STORAGE

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---------------------------------|--|-----------------------------|-----------------------|
| BAAQMD Condition # 18618 | | | |
| Part 1 | Throughput limit (basis: Regulation 2-1-234.3) | N | |
| Part 2 | Recordkeeping (basis: Regulation 2-1-234.3) | N | |

Table IV – Ca
Source-specific Applicable Requirements
S4307 TANK 14687 MDEA MAKE-UP
S4309 – TANK 14517 DEA

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|--|-----------------------------|-----------------------|
| <u>BAAQMD - Regulation 8, Rule 5</u> | <u>Organic Compounds, Storage of Organic Liquids (10/18/06)</u> | | |
| <u>8-5-117</u> | <u>Limited Exemption, Low Vapor Pressure</u> | <u>N</u> | |

IV. Source Specific Applicable Requirements

Table IV – Ca
Source-specific Applicable Requirements
S4307 TANK 14687 MDEA MAKE-UP
S4309 – TANK 14517 DEA

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|--|---|--|-----------------------|
| SIP BAAQMD Regulation 8, Rule 5 | Organic Compounds, Storage of Organic Liquids (06/05/03) | | |
| 8-5-117 | Exemption, Low Vapor Pressure | Y | |
| NSPS Subpart Kb BAAQMD 10-17 | Volatile Organic Liquid Storage Vessels REQUIREMENTS FOR RECORDKEEPING ONLY | | |
| 60.116b(a) | Applicability records: Time period for keeping records of applicability determination, unless specified otherwise. | 60.116b(a) Keep for 2 years | Y |
| 60.116b(b) | Applicability records: Records of dimensions & capacity required for non-exempt tanks? | 60.116b(b) Required Keep record readily accessible for the life of the tank | Y |
| MACT 40 CFR 63 Subpart CC Refinery MACT | NESHAP for Petroleum Refineries REQUIREMENTS FOR RECORDKEEPING ONLY – GROUP 2 TANKS (6/30/10) | | |
| 63.642(e) | General recordkeeping requirements: Time period for keeping records, unless specified otherwise. | 63.642(e) & 63.6545(i)(45) keep all other records 5 years, retrievable within 24 hr | Y |
| | General recordkeeping requirements: Keep all reports and notification for the specified period of time. | 63.642(e) & 63.6545(i)(45) required | Y |
| 63.6545(i) | Applicability records: Time period for keeping records of applicability determination, unless specified otherwise. | 63.6545(i)(1) 63.123(a) Keep record readily accessible for the service life of the tank | Y |

IV. Source Specific Applicable Requirements

Table IV – Ca
Source-specific Applicable Requirements
S4307 TANK 14687 MDEA MAKE-UP
S4309 – TANK 14517 DEA

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---------------------------------|---|---|-----------------------|
| | <u>Applicability records:</u> <u>Records of dimensions & capacity required for non-exempt tanks?</u> | <u>63.6545(i)(1)</u> <u>63.123(a)</u> Required Keep record readily accessible for service life of the tank * | |
| | <u>Applicability records:</u> <u>Additional recordkeeping requirements for certain tanks.</u> | <u>63.6545(i)(1)(iv)</u> determination of HAP content Keep record readily accessible for service life of the tank | |
| BAAQMD Condition # 12271 | | | |
| Part A | Monthly and annual emission limits [basis: Offsets, Cumulative Increase] | Y | |
| Part B | Applicable sources [basis: Offsets, Cumulative Increase] | Y | |
| Part C | In the case of a process upset or other irregularity [basis: Offsets, Cumulative Increase] | N | |
| Part L | Recordkeeping [basis: BACT, Offsets, Cumulative Increase] | Y | |
| Part M | Monthly reports [basis: Offsets, Cumulative Increase] | Y | |
| Part O | Offsets requirements [basis: Offsets] | Y | |
| Part 51 | Degassing abatement requirements [basis: BACT] | Y | |

Table IV – Cb
Source-specific Applicable Requirements
~~S4309 – TANK 14517 DEA~~

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|--|---|-----------------------------|-----------------------|
| BAAQMD – Regulation 8, Rule 5 | Organic Compounds, Storage of Organic Liquids (10/18/06) | | |
| 8-5-117 | Limited Exemption, Low Vapor Pressure | N | |

IV. Source Specific Applicable Requirements

Table IV—Cb
Source-specific Applicable Requirements
S4309—TANK 14517 DEA

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|--|---|---|-----------------------|
| IP BAAQMD- Regulation 8, Rule 5 | Organic Compounds, Storage of Organic Liquids (06/05/03) | | |
| 8-5-117 | Exemption, Low Vapor Pressure | Y | |
| Refinery MACT | NESHAP for Petroleum Refineries REQUIREMENTS FOR RECORDKEEPING ONLY—GROUP 2 TANKS NESHAP for Petroleum Refineries REQUIREMENTS FOR TANKS ALSO SUBJECT TO NSPS Kb REQUIREMENTS FOR RECORDKEEPING ONLY | | |
| 63.642(e)63.640(n) | General recordkeeping requirements: Time period for keeping records, unless specified otherwise. Which rule governs for storage vessels subject to both Refinery MACT and NSPS subpart Kb? | 63.642(e) & 63.654(i)(1) keep all other records 5 years, retrievable within 24 hr 63.640(n)(1) NSPS subpart Kb | Y |
| | General recordkeeping requirements: Keep all reports and notification for the specified period of time. | 63.642(e) & 63.654(i)(1) required | Y |
| 63.654(i) | Applicability records: Time period for keeping records of applicability determination, unless specified otherwise. | 63.654(i)(1) 63.122(a) Keep record readily accessible for the service life of the tank | Y |
| | Applicability records: Records of dimensions & capacity required for non-exempt tanks? | 63.654(i)(1) 63.122(a) Required Keep record readily accessible for service life of the tank * | Y |
| | Applicability records: Additional recordkeeping requirements for certain tanks. | 63.654(i)(1)(iv) determination of HAP content Keep record readily accessible for service life of the tank | Y |
| | | | |

IV. Source Specific Applicable Requirements

Table IV—Cb
Source-specific Applicable Requirements
S4309—TANK 14517-DEA

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|-----------------------------|-----------------------|
| NSPS Subpart Kb; BAAQMD 10-17 | Volatile Organic Liquid Storage Vessels REQUIREMENTS FOR RECORDKEEPING ONLY | | |
| 60.116b(a) | Applicability records: Time period for keeping records of applicability determination, unless specified otherwise. 60.116b(a) Keep for 2 years | Y | |
| 60.116b(b) | Applicability records: Records of dimensions & capacity required for non-exempt tanks? 60.116b(b) Required Keep record readily accessible for the life of the tank | Y | |
| BAAQMD Condition # 12271 | | | |
| Part A | Monthly and annual emission limits [basis: Offsets, Cumulative Increase] | Y | |
| Part B | Applicable sources [basis: Offsets, Cumulative Increase] | Y | |
| Part C | In the case of a process upset or other irregularity [basis: Offsets, Cumulative Increase] | N | |
| Part L | Recordkeeping [basis: BACT, Offsets, Cumulative Increase] | Y | |
| Part M | Monthly reports [basis: Offsets, Cumulative Increase] | Y | |
| Part O | Offsets requirements [basis: Offsets] | Y | |
| Part S1 | Degassing abatement requirements [basis: BACT] | Y | |

TABLE IV—D
SOURCE-SPECIFIC APPLICABLE REQUIREMENTS
S13—TANK 13

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------------|--|-----------------------------|-----------------------|
| | See Table IV—A-Ec for additional requirements. | | |

IV. Source Specific Applicable Requirements

~~TABLE IV – D~~
~~SOURCE-SPECIFIC APPLICABLE REQUIREMENTS~~
~~S13 – TANK 13~~

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|-------------------------------------|--|-----------------------------|-----------------------|
| BAAQMD Condition # 12271 | | | |
| Part 45 | Equipment specification (basis: BACT) | Y | |

Table IV – Ea
 Source-specific Applicable Requirements
 S14 - TANK 14, S19 - TANK 19, S20 – TANK 20, S483 - TANK 483,
 S484 - TANK 484, S530 - TANK 530, S534 – TANK 534, S610 - TANK 610,
 S611 - TANK 611, S612 - TANK 612, S613 – TANK 613, S1070 - TANK 1070,
 S1133 - TANK 1133, S1134 - TANK 1134, S1139 – TANK 1139, S1140 - TANK 1140,
 S1141 – TANK 1141

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|----------------------------|---|-----------------------------|-----------------------|
| <u>BAAQMD Reg 8 Rule 5</u> | <u>Organic Compounds - STORAGE OF ORGANIC LIQUIDS (10/18/06)</u> | | |
| 8-5-111 | Tank Removal From and Return to Service | N | |
| 8-5-111.1 | Notification | N | |
| 8-5-111.2 | Tank in compliance at time of notification | N | |
| 8-5-111.4 | Use vapor recovery during filling and emptying tanks so equipped | N Y | |
| 8-5-111.5 | Minimize emissions and, if required, degas per 8-5-328 | N | |
| 8-5-111.6 | Self report if out of compliance during exemption period | N | |
| 8-5-112 | Tanks in Operation – maintenance and inspection | N | |
| 8-5-112.1 | Notification | N | |
| 8-5-112.2 | Tank in compliance at time of notification | N | |
| 8-5-112.3 | No product movement, Minimize emissions | N Y | |
| 8-5-112.4 | Tanks in Operation – maintenance and inspection; Not to exceed 7 days | N | |
| 8-5-112.5 | Self report if out of compliance during exemption period | N | |
| 8-5-112.6 | Keep records for each exemption | N | |

IV. Source Specific Applicable Requirements

Table IV – Ea
Source-specific Applicable Requirements
S14 - TANK 14, S19 - TANK 19, S20 – TANK 20, S483 - TANK 483,
S484 - TANK 484, S530 - TANK 530, S534 – TANK 534, S610 - TANK 610,
S611 - TANK 611, S612 - TANK 612, S613 – TANK 613, S1070 - TANK 1070,
S1133 - TANK 1133, S1134 - TANK 1134, S1139 – TANK 1139, S1140 - TANK 1140,
S1141 – TANK 1141

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------------|---|-----------------------------|-----------------------|
| 8-5-118 | <u>Gas Tight Requirement for approved emission control system in 8-5-306.2 does not apply if facility is subject to BAAQMD 8-18</u> | N | |
| 8-5-301 | <u>Storage Tank Control Requirements</u> | N | |
| 8-5-303 | <u>Requirements for Pressure Vacuum Valve</u> | N | |
| 8-5-303.1 | <u>Requirements for Pressure Vacuum Valves; Set pressure</u> | N | |
| 8-5-303.2 | <u>Requirements for Pressure Vacuum Valves; Gas tight requirement</u> | N | |
| 8-5-306 | <u>Requirements for Approved Emission Control Systems</u> | N | |
| 8-5-306.1 | <u>Requirements for approved Emission Control System; Abatement Efficiency >=95%</u> | N | |
| 8-5-307 | <u>Requirements for fixed roof tanks, pressure tanks and blanketed tanks</u> | N | |
| 8-5-307.1 | <u>Requirements for fixed roof tanks, pressure tanks and blanketed tanks; no liquid leakage through shell</u> | N | |
| 8-5-328 | <u>Tank Degassing Requirements</u> | N | |
| 8-5-328.1 | <u>Tank degassing requirements; Tanks > 75 cubic meters</u> | N | |
| 8-5-328.2 | <u>Tank degassing requirements; Ozone Excess Day Prohibition</u> | N | |
| 8-5-328.3 | <u>Tank degassing requirements; BAAQMD notification required</u> | N | |
| 8-5-331 | <u>Tank cleaning requirements; 90% Abatement efficiency if abatement device used</u> | N | |
| 8-5-331.1 | <u>Tank cleaning requirements; Cleaning materials properties</u> | N | |
| 8-5-331.2 | <u>Tank cleaning requirements; Steam cleaning prohibition</u> | N | |
| 8-5-331.3 | <u>Tank cleaning requirements; Steam cleaning exceptions</u> | N | |
| 8-5-332 | <u>Sludge Handling Requirements (applies to sludge removed from any tank that was subject to BAAQMD 8-5 at any time since it was last put in service)</u> | N | |
| 8-5-332.1 | <u>Sludge Handling Requirements; sludge container no leaks</u> | N | |
| 8-5-332.2 | <u>Sludge Handling Requirements; sludge container gap requirements</u> | N | |
| 8-5-403 | <u>Inspection Requirements for Pressure Relief Devices</u> | N | |
| 8-5-403.1 | <u>Inspection Requirements for Pressure Relief Devices; Pressure vacuum valves gas tight standards in 8-5-303</u> | N | |
| 8-5-404 | <u>Inspection, Abatement Efficiency Determination and Source Test Reports</u> | N | |

IV. Source Specific Applicable Requirements

Table IV – Ea
Source-specific Applicable Requirements
S14 - TANK 14, S19 - TANK 19, S20 – TANK 20, S483 - TANK 483,
S484 - TANK 484, S530 - TANK 530, S534 – TANK 534, S610 - TANK 610,
S611 - TANK 611, S612 - TANK 612, S613 – TANK 613, S1070 - TANK 1070,
S1133 - TANK 1133, S1134 - TANK 1134, S1139 – TANK 1139, S1140 - TANK 1140,
S1141 – TANK 1141

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|--|---|-----------------------------|-----------------------|
| 8-5-501 | <u>Records</u> | N Y | |
| 8-5-501.1 | <u>Records: Type and amount of liquid, type of blanket gas, TVP- Retain 24 months</u> | N | |
| 8-5-501.3 | <u>Records: Retention</u> | N | |
| 8-5-501.4 | <u>Records: New pressure vacuum valve setpoints</u> | N | |
| 8-5-502 | <u>Annual Source Test Requirement and Exemption for Sources Vented to Fuel Gas</u> | N | |
| 8-5-502.1 | <u>Source Test Requirements: Annual source test for approved emission control systems and abatement devices for 8-5-303.2, 8-5-306.1, 8-5-307.3</u> | N | |
| 8-5-502.2 | <u>Source test requirements: Tank degassing and cleaning abatement devices</u> | N | |
| SIP BAAQMD Reg 8 Rule 5 | Organic Compounds – STORAGE OF ORGANIC LIQUIDS (6/5/03) | | |
| 8-5-111 | Tank Removal From and Return to Service | Y | |
| 8-5-112 | Tanks in Operation – maintenance and inspection | Y | |
| 8-5-301 | Storage Tank Control Requirements | Y | |
| 8-5-302 | Requirements for Submerged Fill Pipes | Y | |
| 8-5-303 | Requirements for Pressure Vacuum Valve | Y | |
| 8-5-306 | Requirements for Approved Emission Control Systems | Y | |
| 8-5-328 | Tank Degassing Requirements | Y | |
| 8-5-403 | Inspection Requirements for Pressure Vacuum Valves | Y | |
| 8-5-404 | Certification | Y | |
| 8-5-501.1 | Records | Y | |
| 8-5-502 | Tank Degassing Annual Source Test Requirement | Y | |
| 8-5-503 | Portable Hydrocarbon Detector | Y | |
| BAAQMD Condition # 7618 | <u>Applies to S14, S20, S483, S484, S530, S1139, S1140 and S1141</u> | | |
| Part D.1.a | <u>Liquid with a vapor pressure of 1.5 psig or greater shall not be stored in more than 12 tanks at any one time.[basis: Cumulative Increase]</u> | Y | |

IV. Source Specific Applicable Requirements

Table IV – Ea
Source-specific Applicable Requirements
S14 - TANK 14, S19 - TANK 19, S20 – TANK 20, S483 - TANK 483,
S484 - TANK 484, S530 - TANK 530, S534 – TANK 534, S610 - TANK 610,
S611 - TANK 611, S612 - TANK 612, S613 – TANK 613, S1070 - TANK 1070,
S1133 - TANK 1133, S1134 - TANK 1134, S1139 – TANK 1139, S1140 - TANK 1140,
S1141 – TANK 1141

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---------------------------------|---|-----------------------------|-----------------------|
| Part D.1.b | Abatement Requirement. [basis: Cumulative Increase] | Y | |
| Part G | Recordkeeping [basis: Cumulative Increase] | Y | |
| BAAQMD Condition # 18153 | Applies to S1070 | | |
| Part 1 | Annual throughput limit [basis: Cumulative Increase] | Y | |
| Part 2a | Material storage limit [basis: Cumulative Increase] | Y | |
| Part 2b | Material storage limit [basis: Cumulative Increase] | Y | |
| Part 2ci | Material storage limit [basis: Cumulative Increase] | Y | |
| Part 2cii | Material storage limit [basis: Cumulative Increase, Toxics] | N | |
| Part 3 | Equipment requirement [basis: BACT, Cumulative Increase] | Y | |
| Part 4 | Recordkeeping [basis: Cumulative Increase] | Y | |
| BAAQMD Condition # 18618 | Applies to S14, S20, S483, S484, S530, S610, S611, S612, S613, S1133, S1134, S1140; | | |
| Part 1 | Throughput limit (basis: Regulation 2-1-234.3) | N | |
| Part 2 | Recordkeeping (basis: Regulation 2-1-234.3) | N | |
| BAAQMD Condition # 18646 | Applies to S19 and S1139 | | |
| Part 1 | Throughput limit [basis: Cumulative Increase] | Y | |
| Part 2a | Material storage limit [basis: Cumulative Increase] | Y | |
| Part 2bi | Material storage limit [basis: Cumulative Increase] | Y | |
| Part 2bii | Material storage limit [basis: Cumulative Increase, Toxics] | N | |
| Part 3 | Abatement requirement [basis: BACT/TBACT] | Y | |
| Part 4 | Storage conditions [basis: Cumulative Increase] | Y | |
| BAAQMD Condition # 20398 | Applies to S534 and S1141 | | |
| Part 1 | Throughput limit (basis: Cumulative Increase) | Y | |

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IV. Source Specific Applicable Requirements

Table IV – Ea
Source-specific Applicable Requirements
S14 - TANK 14, S19 - TANK 19, S20 – TANK 20, S483 - TANK 483,
S484 - TANK 484, S530 - TANK 530, S534 – TANK 534, S610 - TANK 610,
S611 - TANK 611, S612 - TANK 612, S613 – TANK 613, S1070 - TANK 1070,
S1133 - TANK 1133, S1134 - TANK 1134, S1139 – TANK 1139, S1140 - TANK 1140,
S1141 – TANK 1141

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------------|--|-----------------------------|-----------------------|
| Part 2 | RVP limit (basis: Cumulative Increase) | Y | |
| Part 3 | Abatement requirement (basis: BACT, Cumulative Increase) | Y | |
| Part 4 | Recordkeeping (basis: Cumulative Increase) | Y | |

~~**Table IV – Eb**~~
~~**Source-specific Applicable Requirements**~~
~~**S 534 – TANK 534, S1141 – TANK 1141**~~

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|-------------------------------------|---|-----------------------------|-----------------------|
| | See Table IV – Ea for additional requirements. | | |
| BAAQMD Condition # 20398 | | | |
| Part 1 | Throughput limit (basis: Cumulative Increase) | N | |
| Part 2 | RVP limit (basis: Cumulative Increase) | N | |
| Part 3 | Abatement requirement (basis: BACT, Cumulative Increase) | N | |
| Part 4 | Recordkeeping (basis: Cumulative Increase) | N | |

Table IV – Ec
Source-specific Applicable Requirements
S13 - TANK 13
S1751 – TANK 1330, S1752 – TANK 1331,
S1753 - TANK 1332 GASOLINE, S1754 – TANK 1333 GASOLINE,
S1757 - TANK 1336, S1758 - TANK 1337

IV. Source Specific Applicable Requirements

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|----------------------------|--|-----------------------------|-----------------------|
| BAAQMD Reg 8 Rule 5 | Organic Compounds - STORAGE OF ORGANIC LIQUIDS (10/18/06) | | |
| 8-5-111 | Tank Removal From and Return to Service | N | |
| 8-5-111.1 | Notification | N | |
| 8-5-111.2 | Tank in compliance at time of notification | N | |
| 8-5-111.4 | Use vapor recovery during filling and emptying tanks so equipped | N Y | |
| 8-5-111.5 | Minimize emissions and, if required, degas per 8-5-328 | N | |
| 8-5-111.6 | Self report if out of compliance during exemption period | N | |
| 8-5-112 | Tanks in Operation – maintenance and inspection | N | |
| 8-5-112.1 | Notification | N | |
| 8-5-112.2 | Tank in compliance at time of notification | N | |
| 8-5-112.3 | No product movement, Minimize emissions | N Y | |
| 8-5-112.4 | Tanks in Operation – maintenance and inspection; Not to exceed 7 days | N | |
| 8-5-112.5 | Self report if out of compliance during exemption period | N | |
| 8-5-112.6 | Keep records for each exemption | N | |
| 8-5-118 | Gas Tight Requirement for approved emission control system in 8-5-306.2 does not apply if facility is subject to BAAQMD 8-18 | N | |
| 8-5-301 | Storage Tank Control Requirements | N | |
| 8-5-303 | Requirements for Pressure Vacuum Valve | N | |
| 8-5-303.1 | Requirements for Pressure Vacuum Valves; Set pressure | N | |
| 8-5-303.2 | Requirements for Pressure Vacuum Valves; Gas tight requirement | N | |
| 8-5-306 | Requirements for Approved Emission Control Systems | N | |
| 8-5-306.1 | Requirements for approved Emission Control System; Abatement Efficiency >=95% | N | |
| 8-5-307 | Requirements for fixed roof tanks, pressure tanks and blanketed tanks | N | |
| 8-5-307.1 | Requirements for fixed roof tanks, pressure tanks and blanketed tanks; no liquid leakage through shell | N | |
| 8-5-328 | Tank Degassing Requirements | N | |
| 8-5-328.1 | Tank degassing requirements; Tanks > 75 cubic meters | N | |
| 8-5-328.2 | Tank degassing requirements; Ozone Excess Day Prohibition | N | |
| 8-5-328.3 | Tank degassing requirements; BAAQMD notification required | N | |
| 8-5-331 | Tank cleaning requirements; 90% Abatement efficiency if abatement device used | N | |
| 8-5-331.1 | Tank cleaning requirements; Cleaning materials properties | N | |
| 8-5-331.2 | Tank cleaning requirements; Steam cleaning prohibition | N | |
| 8-5-331.3 | Tank cleaning requirements; Steam cleaning exceptions | N | |

IV. Source Specific Applicable Requirements

Table IV – Ec
Source-specific Applicable Requirements
S13 - TANK 13
S1751 – TANK 1330, S1752 – TANK 1331,
S1753 - TANK 1332 GASOLINE, S1754 – TANK 1333 GASOLINE,
S1757 - TANK 1336, S1758 - TANK 1337

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|--|---|-----------------------------|-----------------------|
| 8-5-332 | <u>Sludge Handling Requirements (applies to sludge removed from any tank that was subject to BAAQMD 8-5 at any time since it was last put in service)</u> | N | |
| 8-5-332.1 | <u>Sludge Handling Requirements: sludge container no leaks</u> | N | |
| 8-5-332.2 | <u>Sludge Handling Requirements: sludge container gap requirements</u> | N | |
| 8-5-403 | <u>Inspection Requirements for Pressure Relief Devices</u> | N | |
| 8-5-403.1 | <u>Inspection Requirements for Pressure Relief Devices: Pressure vacuum valves gas tight standards in 8-5-303</u> | N | |
| 8-5-404 | <u>Inspection, Abatement Efficiency Determination and Source Test Reports</u> | N | |
| 8-5-501 | <u>Records</u> | N | |
| 8-5-501.1 | <u>Records: Type and amount of liquid, type of blanket gas, TVP- Retain 24 months</u> | N | |
| 8-5-501.3 | <u>Records: Retention</u> | N | |
| 8-5-501.4 | <u>Records: New pressure vacuum valve setpoints</u> | N | |
| 8-5-502 | <u>Annual Source Test Requirement and Exemption for Sources Vented to Fuel Gas</u> | N | |
| 8-5-502.1 | <u>Source Test Requirements: Annual source test for approved emission control systems and abatement devices for 8-5-303.2, 8-5-306.1, 8-5-307.3</u> | N | |
| 8-5-502.2 | <u>Source test requirements: Tank degassing and cleaning abatement devices</u> | N | |
| SIP BAAQMD Reg 8 Rule 5 | Organic Compounds – STORAGE OF ORGANIC LIQUIDS (6/5/03) | | |
| 8-5-111 | Tank Removal From and Return to Service | Y | |
| 8-5-112 | Tanks in Operation – maintenance and inspection | Y | |
| 8-5-301 | Storage Tank Control Requirements | Y | |
| 8-5-302 | Requirements for Submerged Fill Pipes | Y | |
| 8-5-303 | Requirements for Pressure Vacuum Valve | Y | |
| 8-5-306 | Requirements for Approved Emission Control Systems | Y | |
| 8-5-328 | Tank Degassing Requirements | Y | |
| 8-5-403 | Inspection Requirements for Pressure Vacuum Valves | Y | |
| 8-5-404 | Certification | Y | |

IV. Source Specific Applicable Requirements

Table IV – Ec
Source-specific Applicable Requirements
S13 - TANK 13
S1751 – TANK 1330, S1752 – TANK 1331,
S1753 - TANK 1332 GASOLINE, S1754 – TANK 1333 GASOLINE,
S1757 - TANK 1336, S1758 - TANK 1337

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|--|--|-----------------------------|-----------------------|
| 8-5-501.1 | Records | Y | |
| 8-5-502 | Tank Degassing Annual Source Test Requirement | Y | |
| 8-5-503 | Portable Hydrocarbon Detector | Y | |
| NSPS Subpart Ka; BAAQMD 10-16 | Storage Vessels for Petroleum Liquid REQUIREMENTS FOR FIXED ROOF TANK-CONTROL DEVICE | | |
| 60.112a(a) | Control device 60.112a(a)(3) Performance requirements: at least 95% efficient | Y | |
| <u>BAAQMD Condition # 7618</u> | | | |
| Part D.1.a | Liquid with a vapor pressure of 1.5 psig or greater shall not be stored in more than 12 tanks at any one time.[basis: Cumulative Increase] | <u>Y</u> | |
| Part D.1.b | Abatement Requirement. [basis: Cumulative Increase] | <u>Y</u> | |
| Part G | Recordkeeping [basis: Cumulative Increase] | <u>Y</u> | |
| <u>BAAQMD Condition # 18618</u> | | | |
| Part 1 | Throughput limit (basis: Regulation 2-1-234.3) | <u>N</u> | |
| Part 2 | Recordkeeping (basis: Regulation 2-1-234.3) | <u>N</u> | |

Table IV – F
Source-specific Applicable Requirements
~~S14 – TANK 14, S20 – TANK 20, S483 – TANK 483, S484 – TANK 484~~
~~S530 – TANK 530, S532 – TANK 532, S1139 – TANK 1139, S1140 – TANK 1140,~~
~~S1141 – TANK 1141, S1751 – TANK 1330, S1752 – TANK 1331,~~
~~S1753 – TANK 1332 GASOLINE, S1754 – TANK 1333 GASOLINE,~~
~~S1757 – TANK 1336, S1758 – TANK 1337~~

IV. Source Specific Applicable Requirements

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|--------------------------------|---|-----------------------------|-----------------------|
| | See Table IV—Ea, Eb and M for additional requirements. | | |
| BAAQMD Condition # 7618 | | | |
| Part D.1.a | Liquid with a vapor pressure of 1.5 psig or greater shall not be stored in more than 12 tanks at any one time. [basis: Cumulative Increase] | Y | |
| Part D.1.b | Abatement Requirement. [basis: Cumulative Increase] | Y | |
| Part G | Recordkeeping [basis: Cumulative Increase] | Y | |

Table IV—G
Source-specific Applicable Requirements
S19—TANK 19, S1139—TANK 1139

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---------------------------------|---|-----------------------------|-----------------------|
| | See Table IV—Ea for additional requirements. | | |
| BAAQMD Condition # 18646 | | | |
| Part 1 | Throughput limit [basis: Cumulative Increase] | Y | |
| Part 2a | Material storage limit [basis: Cumulative Increase] | Y | |
| Part 2bi | Material storage limit [basis: Cumulative Increase] | Y | |
| Part 2bii | Material storage limit [basis: Cumulative Increase; Toxics] | N | |
| Part 3 | Abatement requirement [basis: BACT/TBACT] | Y | |
| Part 4 | Storage conditions [basis: Cumulative Increase] | Y | |

IV. Source Specific Applicable Requirements

**Table IV – Ha
 Source-specific Applicable Requirements**

S21 –TANK 21, S22 –TANK 22, S23 –TANK 23, S24 –TANK 24, S26 –TANK 26, S497 –TANK 497, S552 –TANK 552,
 S553 –TANK 553, S554 –TANK 554, S555 –TANK 555, S556 –TANK 556, S557 –TANK 557,
 S558 –TANK 558, S559 –TANK 559, S560 –TANK 560, S561 –TANK 561, S567 - TANK 567, S571 –TANK 571,
 S572 –TANK 572, S573 –TANK 573, S598 - TANK 598, S815 –TANK 815, S867 –TANK 867, S868 –TANK 868,
 S876 –TANK 876, S961 –TANK 961, S985 –TANK 985, S1017 –TANK 1017, S1018 –TANK 1018, S1041 –TANK 1041,
 S1043 –TANK 1043, S1044 –TANK 1044, S1045 –TANK 1045, S1048 –TANK 1048, S1075 - TANK 1075,
 S1160 –TANK 1160, ASPHALT STORAGE

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|--|---|--|-----------------------|
| BAAQMD Regulation 6 Rule 1 | Particulate Matter – General Requirements (12/05/0709/04/98) | | |
| 6-1-301 | Ringelmann No. 1 Limitation | N | |
| 6-1-305 | Visible Particles | N | |
| 6-1-311 | General Operations (process weight rate limitation) | N | |
| 6-1-401 | Appearance of Emissions | N | |
| SIP Regulation 6 | Particulate Matter and Visible Emissions (9/4/98) | | |
| 6-301 | Ringelmann No. 1 Limitation | Y | |
| 6-305 | Visible Particles | Y | |
| 6-311 | General Operations (process weight rate limitation) | Y | |
| 6-401 | Appearance of Emissions | Y | |
| MACT 40 CFR 63 Subpart CC Refinery MACT | NESHAP for Petroleum Refineries REQUIREMENTS FOR RECORDKEEPING ONLY – GROUP 2 TANKS (6/30/10) | | |
| 63.642(e) | General recordkeeping requirements: Time period for keeping records, unless specified otherwise. | 63.642(e) & 63.654655(i)(45) keep all other records 5 years, retrievable within 24 hr | Y |
| | General recordkeeping requirements: Keep all reports and notification for the specified period of time. | 63.642(e) & 63.654655(i)(45) required | Y |
| 63.654655(i) | Applicability records: Time period for keeping records of applicability determination, unless specified otherwise. | 63.654655(i)(1) 63.123(a) Keep record readily accessible for the service life of the tank | Y |

IV. Source Specific Applicable Requirements

Table IV – Ha
Source-specific Applicable Requirements

S21 –TANK 21, ~~S22 –TANK 22~~, S23 –TANK 23, S24 –TANK 24, S26 –TANK 26, S497 –TANK 497, S552 –TANK 552,
 S553 –TANK 553, S554 –TANK 554, S555 –TANK 555, S556 –TANK 556, S557 –TANK 557,
 S558 –TANK 558, S559 –TANK 559, S560 –TANK 560, S561 –TANK 561, S567 - TANK 567, S571 –TANK 571,
 S572 –TANK 572, S573 –TANK 573, S598 - TANK 598, S815 –TANK 815, S867 –TANK 867, S868 –TANK 868,
 S876 –TANK 876, S961 –TANK 961, S985 –TANK 985, S1017 –TANK 1017, S1018 –TANK 1018, S1041 –TANK 1041,
 S1043 –TANK 1043, S1044 –TANK 1044, S1045 –TANK 1045, S1048 –TANK 1048, S1075 - TANK 1075,
 S1160 –TANK 1160, ASPHALT STORAGE

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---------------------------------|--|-----------------------------|-----------------------|
| | <p>Applicability records: 63.654655(i)(1) Records of dimensions & capacity 63.123(a) required for non-exempt tanks? Required Keep record readily accessible for service life of the tank *</p> | Y | |
| | <p>Applicability records: 63.654655(i)(1)(iv) Additional recordkeeping requirements for certain tanks. determination of HAP content Keep record readily accessible for service life of the tank</p> | Y | |
| BAAQMD Condition # 18618 | <p>Applies to S21, S22, S23, S24, S26, S497, S552, S553, S554, S555, S556, S557, S558, S559, S560, S561, S567, S572, S573, S598, S815, S985, S1043, S1044, S1045, S1160.</p> <p>Does not apply to S571, S867, S868, S876, S961, S1017, S1018, S1041, S1048, S1075</p> | | |
| Part 1 | Throughput limit (basis: Regulation 2-1-234.3) | N | |
| Part 2 | Recordkeeping (basis: Regulation 2-1-234.3) | N | |

Table IV – Hb
Source-specific Applicable Requirements
S1408 – LUBS ASPHALT BLENDING AND SHIPPING,
S1523 – LUBS LOADING RACK ASPHALT INSIDE T/T,
S1524 – LUBS LOADING RACK ASPHALT OUTSIDE T/T AND T/C,
S1525 – LUBS LOADING RACK ASPHALT PAVING T/T

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------------|---|-----------------------------|-----------------------|
| BAAQMD | Particulate Matter – General Requirements Particulate Matter and | | |

IV. Source Specific Applicable Requirements

Table IV – Hb
Source-specific Applicable Requirements
S1408 – LUBS ASPHALT BLENDING AND SHIPPING,
S1523 – LUBS LOADING RACK ASPHALT INSIDE T/T,
S1524 – LUBS LOADING RACK ASPHALT OUTSIDE T/T AND T/C,
S1525 – LUBS LOADING RACK ASPHALT PAVING T/T

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|--------------------------------|--|-----------------------------|-----------------------|
| Regulation 6 Rule 1 | Visible Emissions (12/05/0709/04/98) | | |
| 6-1-301 | Ringelmann No. 1 Limitation | Y | |
| 6-1-305 | Visible Particles | Y | |
| 6-1-311 | General Operations (process weight rate limitation) | Y | |
| 6-1-401 | Appearance of Emissions | Y | |
| SIP Regulation 6 | Particulate Matter and Visible Emissions (9/4/98) | | |
| 6-301 | Ringelmann No. 1 Limitation | Y | |
| 6-305 | Visible Particles | Y | |
| 6-311 | General Operations (process weight rate limitation) | Y | |
| 6-401 | Appearance of Emissions | Y | |
| BAAQMD Condition # 4101 | Applies to S1523 | | |
| Part 1 | Abatement Requirement [basis: Cumulative Increase] | Y | |

TABLE IV – I
SOURCE-SPECIFIC APPLICABLE REQUIREMENTS
FIXED ROOF TANKS
S63 – TANK 63, S355 – TANK 355, S432 – TANK 432, S568 – TANK 568

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|----------------------------|--|-----------------------------|-----------------------|
| BAAQMD Reg 8 Rule 5 | Organic Compounds - STORAGE OF ORGANIC LIQUIDS (10/18/06) | | |
| 8-5-111 | Tank Removal From and Return to Service | N | |

IV. Source Specific Applicable Requirements

TABLE IV – I
SOURCE-SPECIFIC APPLICABLE REQUIREMENTS
FIXED ROOF TANKS
S63 – TANK 63, S355 – TANK 355, S432 – TANK 432, S568 – TANK 568

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------------|---|-----------------------------|-----------------------|
| 8-5-111.1 | <u>Notification</u> | N | |
| 8-5-111.2 | <u>Tank in compliance at time of notification</u> | N | |
| 8-5-111.5 | <u>Minimize emissions and, if required, degas per 8-5-328</u> | N | |
| 8-5-111.6 | <u>Self report if out of compliance during exemption period</u> | N | |
| 8-5-112 | <u>Tanks in Operation – maintenance and inspection</u> | N | |
| 8-5-112.1 | <u>Notification</u> | N | |
| 8-5-112.2 | <u>Tank in compliance at time of notification</u> | N | |
| 8-5-112.3 | <u>No product movement, Minimize emissions</u> | N Y | |
| 8-5-112.4 | <u>Tanks in Operation – maintenance and inspection; Not to exceed 7 days</u> | N | |
| 8-5-112.5 | <u>Self report if out of compliance during exemption period</u> | N | |
| 8-5-112.6 | <u>Keep records for each exemption</u> | N | |
| 8-5-301 | <u>Storage Tank Control Requirements</u> | N | |
| 8-5-302 | <u>Requirements for Submerged Fill Pipes</u> | Y N | |
| 8-5-303 | <u>Requirements for Pressure Vacuum Valve</u> | N | |
| 8-5-303.1 | <u>Requirements for Pressure Vacuum Valves: Set pressure</u> | N | |
| 8-5-303.2 | <u>Requirements for Pressure Vacuum Valves: Gas tight requirement</u> | N | |
| 8-5-307 | <u>Requirements for fixed roof tanks, pressure tanks and blanketed tanks</u> | N | |
| 8-5-307.1 | <u>Requirements for fixed roof tanks, pressure tanks and blanketed tanks: No liquid leakage through shell</u> | N | |
| 8-5-328 | <u>Tank Degassing Requirements</u> | N | |
| 8-5-328.2 | <u>Tank degassing requirements; Ozone Excess Day Prohibition</u> | N | |
| 8-5-328.3 | <u>Tank degassing requirements; BAAQMD notification required</u> | N | |
| 8-5-331 | <u>Tank cleaning requirements; 90% Abatement efficiency if abatement device used</u> | N | |
| 8-5-331.1 | <u>Tank cleaning requirements; Cleaning materials properties</u> | N | |
| 8-5-331.2 | <u>Tank cleaning requirements; Steam cleaning prohibition</u> | N | |
| 8-5-331.3 | <u>Tank cleaning requirements; Steam cleaning exceptions</u> | N | |
| 8-5-332 | <u>Sludge Handling Requirements (applies to sludge removed from any tank that was subject to BAAQMD 8-5 at any time since it was last put in service)</u> | N | |
| 8-5-332.1 | <u>Sludge Handling Requirements; sludge container no leaks</u> | N | |
| 8-5-332.2 | <u>Sludge Handling Requirements; sludge container gap requirements</u> | N | |

IV. Source Specific Applicable Requirements

TABLE IV – I
SOURCE-SPECIFIC APPLICABLE REQUIREMENTS
FIXED ROOF TANKS
S63 – TANK 63, S355 – TANK 355, S432 – TANK 432, S568 – TANK 568

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|--|---|-----------------------------|-----------------------|
| 8-5-403 | <u>Inspection Requirements for Pressure Relief Devices</u> | N | |
| 8-5-403.1 | <u>Inspection Requirements for Pressure Relief Devices; Pressure vacuum valves gas tight standards in 8-5-303</u> | N | |
| 8-5-403.2 | <u>Inspection Requirements for Pressure Relief Devices; PRDs except pressure vacuum valves gas tight standards in 8-5-307.3</u> | N | |
| 8-5-501 | <u>Records</u> | NY | |
| 8-5-501.1 | <u>Records; Type and amount of liquid, type of blanket gas, TVP- Retain 24 months</u> | N | |
| 8-5-501.3 | <u>Records; Retention</u> | N | |
| 8-5-501.4 | <u>Records; New pressure vacuum valve setpoints</u> | N | |
| SIP BAAQMD Reg 8 Rule 5 | Organic Compounds – STORAGE OF ORGANIC LIQUIDS (6/5/03) | | |
| 8-5-111 | Tank Removal From and Return to Service | Y | |
| 8-5-112 | Tanks in Operation – maintenance and inspection | Y | |
| 8-5-301 | Storage Tank Control Requirements | Y | |
| 8-5-302 | Requirements for Submerged Fill Pipes | Y | |
| 8-5-303 | Requirements for Pressure Vacuum Valve | Y | |
| 8-5-306 | Requirements for Approved Emission Control Systems | Y | |
| 8-5-307 | Requirements for Pressure Tanks and Blanketed Tanks | Y | |
| 8-5-328 | Tank Degassing Requirements | Y | |
| <u>8-5-328.2</u> | <u>Tank degassing requirements; Ozone Excess Day Prohibition</u> | <u>Y</u> | |
| 8-5-403 | Inspection Requirements for Pressure Vacuum Valves | Y | |
| 8-5-404 | Certification | Y | |
| 8-5-405 | Information Required | Y | |
| 8-5-501.1 | Records | Y | |
| 8-5-502 | Tank Degassing Annual Source Test Requirement | Y | |
| 8-5-503 | Portable Hydrocarbon Detector | Y | |
| MACT 40 CFR 63 Subpart CC Refinery MACT | NESHAP for Petroleum Refineries REQUIREMENTS FOR RECORDKEEPING ONLY – GROUP 2 TANKS (6/30/10) | | |

IV. Source Specific Applicable Requirements

TABLE IV – I
SOURCE-SPECIFIC APPLICABLE REQUIREMENTS
FIXED ROOF TANKS
S63 – TANK 63, S355 – TANK 355, S432 – TANK 432, S568 – TANK 568

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|--|-----------------------------|-----------------------|
| 63.642(e) | General recordkeeping requirements: Time period for keeping records, unless specified otherwise. 63.642(e) & 63.654655(i)(45) keep all other records for 5 years, retrievable within 24 hr | Y | |
| | General recordkeeping requirements: Keep all reports and notification for the specified period of time. 63.642(e) & 63.654655(i)(45) required | Y | |
| 63.654655(i) | Applicability records: Time period for keeping records of applicability determination, unless specified otherwise. 63.654655(i)(1) 63.123(a) Keep record readily accessible for the service life of the tank | Y | |
| | Applicability records: Records of dimensions & capacity required for nonexempt tanks? 63.654655(i)(1) 63.123(a) Required Keep record readily accessible for service life of the tank * | Y | |
| | Applicability records: Additional recordkeeping requirements for certain tanks. 63.654655(i)(1)(iv) determination of HAP content Keep record readily accessible for service life of the tank | Y | |
| BAAQMD Condition # 18618 | <u>Applies to S568</u> | | |
| <u>Part 1</u> | <u>Throughput limit (basis: Regulation 2-1-234.3)</u> | <u>N</u> | |
| <u>Part 2</u> | <u>Recordkeeping (basis: Regulation 2-1-234.3)</u> | <u>N</u> | |

IV. Source Specific Applicable Requirements

Table IV – Ja
Source-specific Applicable Requirements
External Floating Roof Tanks
S540 – TANK 540, S541 - TANK 541, S544 - TANK 544, S545 - TANK 545,
S1031 - TANK 1031, S1046 - TANK 1046, S1051 – TANK 1051, S1072 - TANK 1072,
S1129 – TANK 1129, S1159 - TANK 1159, S1161 - TANK 1161,

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|--------------------------------------|--|-----------------------------|-----------------------|
| BAAQMD Reg 8 Rule 5 | <u>Organic Compounds - STORAGE OF ORGANIC LIQUIDS</u> <u>(10/18/06)</u> | | |
| 8-5-111 | <u>Tank Removal From and Return to Service</u> | N | |
| 8-5-111.1 | <u>Notification</u> | N | |
| 8-5-111.2 | <u>Tank in compliance at time of notification</u> | N | |
| 8-5-111.3 | <u>Filling, emptying, refilling floating roof tanks</u> | NY | |
| 8-5-111.5 | <u>Minimize emissions and, if required, degas per 8-5-328</u> | N | |
| 8-5-111.6 | <u>Self report if out of compliance during exemption period</u> | N | |
| 8-5-112 | <u>Tanks in Operation – maintenance and inspection</u> | N | |
| 8-5-112.1 | <u>Notification</u> | N | |
| 8-5-112.2 | <u>Tank in compliance at time of notification</u> | N | |
| 8-5-112.3 | <u>No product movement, Minimize emissions</u> | NY | |
| 8-5-112.4 | <u>Tanks in Operation – maintenance and inspection; Not to exceed 7 days</u> | N | |
| 8-5-112.5 | <u>Self report if out of compliance during exemption period</u> | N | |
| 8-5-112.6 | <u>Keep records for each exemption</u> | N | |
| 8-5-119 | <u>Limited Exemption, Repair Period for Enhanced Monitoring Program</u> | N | |
| 8-5-119.1 | <u>Standards allowed under the limited exemption</u> | N | |
| 8-5-119.2 | <u>Conditions required to be eligible for limited exemption</u> | N | |
| 8-5-119.3 | <u>Report within 60 days of using the exemption</u> | N | |
| 8-5-301 | <u>Storage Tank Control Requirements</u> | N | |
| 8-5-304 | <u>Requirements for External Floating Roof Tanks</u> | N | |
| 8-5-320 | <u>Floating Roof Tank Fitting Requirements</u> | N | |
| 8-5-321 | <u>Primary seal requirements</u> | N | |
| 8-5-322 | <u>Secondary seal requirements</u> | N | |
| 8-5-328 | <u>Tank Degassing Requirements</u> | N | |
| 8-5-328.1 | <u>Tank degassing requirements; Tanks > 75 cubic meters</u> | N | |
| 8-5-328.2 | <u>Tank degassing requirements; Ozone Excess Day Prohibition</u> | N | |
| 8-5-328.3 | <u>Tank degassing requirements; BAAQMD notification required</u> | N | |
| 8-5-331 | <u>Tank cleaning requirements; 90% Abatement efficiency if abatement device used</u> | N | |

IV. Source Specific Applicable Requirements

Table IV – Ja
Source-specific Applicable Requirements
External Floating Roof Tanks
S540 – TANK 540, S541 - TANK 541, S544 - TANK 544, S545 - TANK 545,
S1031 - TANK 1031, S1046 - TANK 1046, S1051 – TANK 1051, S1072 - TANK 1072,
S1129 – TANK 1129, S1159 - TANK 1159, S1161 - TANK 1161,

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|--|--|-----------------------------|-----------------------|
| 8-5-331.1 | Tank cleaning requirements; Cleaning materials properties | N | |
| 8-5-331.2 | Tank cleaning requirements; Steam cleaning prohibition | N | |
| 8-5-331.3 | Tank cleaning requirements; Steam cleaning exceptions | N | |
| 8-5-332 | Sludge Handling Requirements (applies to sludge removed from any tank that was subject to BAAQMD 8-5 at any time since it was last put in service) | N | |
| 8-5-332.1 | Sludge Handling Requirements; sludge container no leaks | N | |
| 8-5-332.2 | Sludge Handling Requirements; sludge container gap requirements | N | |
| 8-5-401 | Inspection Requirements for External Floating Roof Tanks | N Y | |
| 8-5-401.1 | Inspection Requirements for External Floating Roof Tank; Primary and Secondary Seal Inspections | N | |
| 8-5-401.2 | Inspection Requirements for External Floating Roof Tank; Tank Fitting Inspections | N | |
| 8-5-411 | Enhanced Monitoring Program | N | |
| 8-5-411.1 | Submit list of all tanks at the facility subject to this rule and their capacity | N | |
| 8-5-411.2 | Subject tanks may be changed at any time with written notification to the APCO | N | |
| 8-5-411.3 | Operator shall perform enhanced monitoring as specified in Sections 8-5-401, 402, and 403 | N | |
| 8-5-501 | Records | N Y | |
| 8-5-501.1 | Records: Type and amount of liquid, type of blanket gas, TVP- Retain 24 months | N | |
| 8-5-501.2 | Records: Internal and External Floating Roof Tanks, Seal Replacement Records- Retain 10 years | N | |
| 8-5-501.3 | Records: Retention | N | |
| SIP BAAQMD Reg 8 Rule 5 | Organic Compounds – STORAGE OF ORGANIC LIQUIDS (6/5/03) | | |
| 8-5-111 | Tank Removal From and Return to Service | Y | |
| 8-5-112 | Tanks in Operation – maintenance and inspection | Y | |
| 8-5-301 | Storage Tank Control Requirements | Y | |

IV. Source Specific Applicable Requirements

Table IV – Ja
Source-specific Applicable Requirements
External Floating Roof Tanks
S540 – TANK 540, S541 - TANK 541, S544 - TANK 544, S545 - TANK 545,
S1031 - TANK 1031, S1046 - TANK 1046, S1051 – TANK 1051, S1072 - TANK 1072,
S1129 – TANK 1129, S1159 - TANK 1159, S1161 - TANK 1161,

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|--|--|---|-----------------------|
| 8-5-304 | Requirements for External Floating Roofs | Y | |
| 8-5-320 | Tank Fitting Requirements | Y | |
| 8-5-321 | Primary Seal Requirements | Y | |
| 8-5-322 | Secondary Seal Requirements | Y | |
| 8-5-328 | Tank Degassing Requirements | Y | |
| 8-5-401 | Inspection Requirements for External Floating Roof | Y | |
| 8-5-404 | Certification | Y | |
| 8-5-405 | Information Required | Y | |
| 8-5-501 | Records | Y | |
| 8-5-502 | Tank Degassing Annual Source Test Requirement | Y | |
| 8-5-503 | Portable Hydrocarbon Detector | Y | |
| MACT 40 CFR 63 Subpart CC Refinery MACT | NESHAP for Petroleum Refineries REQUIREMENTS FOR EXTERNAL FLOATING ROOF TANKS – GROUP 1 TANKS (6/30/10) | | |
| 63.642(e) | General recordkeeping requirements: Time period for keeping records, unless specified otherwise. | 63.642(e) & 63.654655(i)(45) keep all other records 5 years, retrievable within 24 hr | Y |
| | General recordkeeping requirements: Keep all reports and notification for the specified period of time. | 63.642(e) & 63.654655(i)(45) required | Y |
| 63.646(a) | EFR Rim Seals: vapor-mounted primary seal: liquid-mounted primary seal: mechanical-shoe primary seal: | 63.646(a) 63.119(c)(1)(I) - (1)(iii) Not Allowed OK with rim-mounted secondary OK with rim-mounted secondary | Y |
| | Must vapor-mounted rim seals be continuous on EFRs? | 63.646(a) 63.119(c)(1)(iii) YES | Y |

IV. Source Specific Applicable Requirements

Table IV – Ja
Source-specific Applicable Requirements
External Floating Roof Tanks
S540 – TANK 540, S541 - TANK 541, S544 - TANK 544, S545 - TANK 545,
S1031 - TANK 1031, S1046 - TANK 1046, S1051 – TANK 1051, S1072 - TANK 1072,
S1129 – TANK 1129, S1159 - TANK 1159, S1161 - TANK 1161,

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------------|--|-----------------------------|-----------------------|
| | Are EFR rim seals allowed to be pulled back or temporarily removed during inspection? 63.646(a) 63.119(c)(1)(iii) 63.120(b)(4) YES | Y | |
| | EFRT operating requirements: When landing the floating roof on its support legs, is the tank to be emptied & either refilled or degassed as soon as possible? 63.646(a) 63.119(c)(3) & (c)(4) YES | Y | |
| | Temporary exemption from operating requirements while the external floating roof is landed on its support legs? * 63.646(a) 63.119(c)(3) EXEMPT | Y | |
| | EFRT Internal Inspections: up-close visual inspection of the floating roof, seals, & fittings: 63.646(a) & 63.120(b) each time the tank is emptied & degassed | Y | |
| | EXTENSIONS OF TIME: If EFRT is unsafe to inspect & cannot be emptied within 45 days? 63.646(a) & 63.120(b) up to 2 extensions of 30 days each, if needed | Y | |
| | Notification of Inspections: Are notifications of inspections to demonstrate initial compliance required, For EFR seal gap measurements: 63.646(a) 63.120(b)(1) & (9) Required- Notifications&reports per Ongoing Reports | Y | |
| | Seal Gap Measurements: FREQUENCY AFTER INITIAL COMPLIANCE, For the EFR Primary Seal: 63.646(a) 63.120(b)(1)(i) every 5 years | Y | |
| | Seal Gap Measurements: For existing EFRTs in compliance by the compliance date: 63.646(a) 63.120(b)(1)(i) & (iii) measure gaps of both seals prior to the compliance date | Y | |
| | Seal Gap Measurements: For new EFRTs: 63.646(a) 63.120(b)(1)(i) & (iii) measure gaps of both seals prior to initial fill | Y | |

IV. Source Specific Applicable Requirements

Table IV – Ja
Source-specific Applicable Requirements
External Floating Roof Tanks
S540 – TANK 540, S541 - TANK 541, S544 - TANK 544, S545 - TANK 545,
S1031 - TANK 1031, S1046 - TANK 1046, S1051 – TANK 1051, S1072 - TANK 1072,
S1129 – TANK 1129, S1159 - TANK 1159, S1161 - TANK 1161,

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------------|--|-----------------------------|-----------------------|
| | Seal Gap Measurements: 63.646(a) For affected EFRTs with a 63.120(b)(1)(ii) mechanical-shoe or liquid-mounted annual primary-only rim seal, prior primary seal to installing a secondary seal; gap measurements * PRIOR TO COMPLIANCE: 63.646(a) 63.120(b)(1)(ii) UPON COMPLIANCE: measure gaps of both seals within 90 days | Y | |
| | Seal Gap Measurements: FREQUENCY AFTER 63.646(a) INITIAL COMPLIANCE, 63.120(b)(1)(iii) For the EFR Secondary Seal: annually | Y | |
| | Seal Gap Measurements: 63.646(a) For EFRTs returned to affected 63.120(b)(1)(iv) service after 1 year or more of measure gaps of both seals within exempt service: 90 days | Y | |
| | MEASUREMENT COND'S: 63.646(a) Are EFR seal gap measurements to 63.120(b)(2)(i) be made with the roof floating? YES | Y | |
| | DETERMINATION OF EFR RIM-SEAL GAP AREAS: 63.646(a) Presence of a gap determined by 63.120(b)(2)(ii) inserting a 1/8 in. probe? YES | Y | |
| | DETERMINATION OF EFR RIM-SEAL GAP AREAS: 63.646(a) Use probes of various widths to 63.120(b)(2)(iii) determine the gap area? YES | Y | |
| | DETERMINATION OF EFR RIM-SEAL GAP AREAS: 63.646(a) Sum the gap areas & divide by the 63.120(b)(3) & (4) diameter of the tank? YES | Y | |
| | EFR Primary Seal Gap 63.646(a) Inspection Criteria: 63.120(b)(3) maximum area: 10 in² per foot of vessel diameter. maximum gap width: 1.5 in. | Y | |

IV. Source Specific Applicable Requirements

Table IV – Ja
Source-specific Applicable Requirements
External Floating Roof Tanks
S540 – TANK 540, S541 - TANK 541, S544 - TANK 544, S545 - TANK 545,
S1031 - TANK 1031, S1046 - TANK 1046, S1051 – TANK 1051, S1072 - TANK 1072,
S1129 – TANK 1129, S1159 - TANK 1159, S1161 - TANK 1161,

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------------|---|-----------------------------|-----------------------|
| | EFR Secondary Seal Gap Inspection Criteria: maximum area: 1 in2 per foot of vessel diameter. maximum gap width: 0.5 in. | Y | |
| | Is the metallic shoe of an EFR mechanical-shoe seal required to have its bottom in the liquid and extend at least 24 in. above the liquid? 63.646(a) 63.120(b)(5)(i) YES | Y | |
| | Shall there be no holes, tears, or openings in the EFR seals? 63.646(a) 63.120(b)(5)(ii) & (6)(ii) YES | Y | |
| | UNSAFE CONDITIONS: Delay of EFR seal gap measurements allowed for unsafe conditions? 63.646(a) 63.120(b)(7)(i) up to 30 additional days 63.120(b)(7)(ii) If unable to make safe to measure, must the EFRT be emptied? YES, within 45 days of determining unsafe | Y | |
| | EFRT REPAIRS: Time allowed for repair of defects found during in-service inspections of EFRs: 63.646(a) 63.120(b)(8) make repairs within 45 days If unable to repair, empty the EFRT & remove from service? 63.120(b)(8) YES, within 45 days | Y | |
| | EXTENSIONS OF TIME: If EFRT defects cannot be repaired & the tank cannot be emptied within 45 days? 63.646(a) 63.120(b)(8) up to 2 extensions of 30 days each, if needed | Y | |
| | Notification of Inspections: Are notifications of inspections to demonstrate initial compliance required, For EFR internal inspections: 63.646(a) 63.120(b)(10) internal inspection not required for initial compl | Y | |
| | EFRT REPAIRS: Repair of defects if the tank is empty? 63.646(a) 63.120(b)(10)(i) prior to refilling | Y | |

IV. Source Specific Applicable Requirements

Table IV – Ja
Source-specific Applicable Requirements
External Floating Roof Tanks
S540 – TANK 540, S541 - TANK 541, S544 - TANK 544, S545 - TANK 545,
S1031 - TANK 1031, S1046 - TANK 1046, S1051 – TANK 1051, S1072 - TANK 1072,
S1129 – TANK 1129, S1159 - TANK 1159, S1161 - TANK 1161,

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------------|---|-----------------------------|-----------------------|
| 63.646(f) | Deck openings (wells) other than for vents, drains, or legs to have covers that are kept closed except for access? 63.646(f)(1) REQUIRED | Y | |
| | EFR rim space vents to remain closed except when the pressure setting is exceeded? 63.646(f)(2) REQUIRED | Y | |
| | EFR automatic bleeder vent (vacuum breaker) to be closed except when the deck is landed? 63.646(f)(3) REQUIRED | Y | |
| 63.646(l) | Notification of Inspections: Is the State or local authority allowed to waive the notification requirements? 63.646(l) 63.654655(h)(2)(F)(C)&(ii) YES | Y | |
| 63.654655(g) | Report of periodic inspections, etc. AFTER documenting initial compliance? 63.654655(g) begin Sept 13, 1999 then semiannual | Y | |
| | Periodic Reports: Report of EFR inspection failures to include: 63.654655(g)(2) - (4) date of inspection, identification of tank, description of failure, & date of repair or emptying | Y | |
| | Periodic Reports: EFR report to include a prior request for 30-day extension, with documentation of need? 63.654655(g)(2) - (4) prior request is not required | Y | |
| | Periodic Reports: Additional information to be included if an extension is utilized for an EFR: 63.654655(g)(2)(i) 63.654655(g)(3)(ii) document the reason for the extension | Y | |
| | Periodic Reports: Report EFR seal gap inspections if there was no out-of-compliance? 63.654655(g)(3)(i) Not required | Y | |
| | Periodic Reports: Report EFR seal gap inspections when there is out-of-compliance? 63.654655(g)(3)(i) Required within 60 days after each semiannual period | Y | |

IV. Source Specific Applicable Requirements

Table IV – Ja
Source-specific Applicable Requirements
External Floating Roof Tanks
S540 – TANK 540, S541 - TANK 541, S544 - TANK 544, S545 - TANK 545,
S1031 - TANK 1031, S1046 - TANK 1046, S1051 – TANK 1051, S1072 - TANK 1072,
S1129 – TANK 1129, S1159 - TANK 1159, S1161 - TANK 1161,

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------------|--|-----------------------------|-----------------------|
| 63.654655(h) | Notification of Inspections: Is 30-day notice required for internal inspections of EFRTs (i.e., prior to filling or refilling); but a 7-day verbal notice acceptable if the event is unplanned? 63.654655(h)(2)(i) 63.646(a) 63.120(b)(10) REQUIRED | Y | |
| | Notification of Inspections: Is 30-day notice required prior to EFR seal gap measurements? 63.654655(h)(2)(ii) 63.646(a) 63.120(b)(9) REQUIRED | Y | |
| 63.654655(i) | Applicability records: Time period for keeping records of applicability determination, unless specified otherwise. 63.654655(i)(1) 63.123(a) Keep record readily accessible for the service life of the tank | Y | |
| | Applicability records: Records of dimensions & capacity required for nonexempt tanks? 63.654655(i)(1) 63.646(a)&63.119(a)(3) 63.123(a) Required Keep record readily accessible for service life of the tank * | Y | |
| | Recordkeeping for inspections: Keep inspection reports as specified. 63.654655(i)(1) 63.123(c) - (e) all inspections | Y | |
| | Records of EFR inspection reports: 63.654655(i)(1) 63.123(d) all inspections | Y | |
| | Recordkeeping for delayed repairs: When utilizing a delay of repair provision, keep documentation of the reason for the delay. 63.654655(i)(1) 63.123 (g) required | Y | |
| | Applicability records: Additional recordkeeping requirements for certain tanks. 63.654655(i)(1)(iv) determination of HAP content Keep record readily accessible for service life of the tank | Y | |

IV. Source Specific Applicable Requirements

Table IV – Ja
Source-specific Applicable Requirements
External Floating Roof Tanks
S540 – TANK 540, S541 - TANK 541, S544 - TANK 544, S545 - TANK 545,
S1031 - TANK 1031, S1046 - TANK 1046, S1051 – TANK 1051, S1072 - TANK 1072,
S1129 – TANK 1129, S1159 - TANK 1159, S1161 - TANK 1161,

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|-----------------------------|-----------------------|
| <u>BAAQMD</u> <u>Condition #</u> <u>7382</u> | <u>Applies to S1072</u> | | |
| <u>Part 4</u> | <u>Material storage requirement [basis: Cumulative Increase]</u> | <u>Y</u> | |
| <u>Part 5</u> | <u>Annual throughput limit [basis: Cumulative Increase]</u> | <u>Y</u> | |
| <u>Part 6</u> | <u>Recordkeeping [basis: Cumulative Increase]</u> | <u>Y</u> | |
| <u>BAAQMD</u> <u>Condition #</u> <u>11850</u> | <u>Applies to S544</u> | | |
| <u>Part 1</u> | <u>Equipment specification requirement [basis: Cumulative Increase]</u> | <u>Y</u> | |
| <u>BAAQMD</u> <u>Condition #</u> <u>11951</u> | <u>Applies to S540</u> | | |
| <u>Part 1</u> | <u>Annual throughput limit with recordkeeping [basis: Cumulative Increase]</u> | <u>Y</u> | |
| <u>Part 3</u> | <u>Equipment specification requirement [basis: BACT/TBACT]</u> | <u>Y</u> | |
| <u>BAAQMD</u> <u>Condition #</u> <u>12174</u> | <u>Applies to S545</u> | | |
| <u>Part 1</u> | <u>Equipment specification requirement [basis: Cumulative Increase]</u> | <u>Y</u> | |
| <u>BAAQMD</u> <u>Condition #</u> <u>12271</u> | <u>Applies to S1129</u> | | |
| <u>Part A</u> | <u>Monthly and annual emission limits [basis: Offsets, Cumulative Increase]</u> | <u>Y</u> | |
| <u>Part B</u> | <u>Applicable sources [basis: Offsets, Cumulative Increase]</u> | <u>Y</u> | |
| <u>Part C</u> | <u>In the case of a process upset or other irregularity [basis: Offsets, Cumulative Increase]</u> | <u>N</u> | |
| <u>Part L</u> | <u>Recordkeeping [basis: BACT, Offsets, Cumulative Increase]</u> | <u>Y</u> | |
| <u>Part M</u> | <u>Monthly reports [basis: Offsets, Cumulative Increase]</u> | <u>Y</u> | |
| <u>Part O</u> | <u>Offsets requirements [basis: Offsets]</u> | <u>Y</u> | |
| <u>Part 47</u> | <u>Equipment specification [basis: BACT]</u> | <u>Y</u> | |
| <u>Part 51</u> | <u>Degassing abatement requirements [basis: BACT]</u> | <u>Y</u> | |

IV. Source Specific Applicable Requirements

Table IV – Ja
Source-specific Applicable Requirements
External Floating Roof Tanks

**S540 – TANK 540, S541 - TANK 541, S544 - TANK 544, S545 - TANK 545,
 S1031 - TANK 1031, S1046 - TANK 1046, S1051 – TANK 1051, S1072 - TANK 1072,
 S1129 – TANK 1129, S1159 - TANK 1159, S1161 - TANK 1161,**

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---------------------------------|---|-----------------------------|-----------------------|
| BAAQMD Condition # 18618 | <u>Applies to S541 S545, S1031, S1046, S1051, S1129, S1159, and S1161</u> | | |
| <u>Part 1</u> | <u>Throughput limit (basis: Regulation 2-1-234.3)</u> | <u>N</u> | |
| <u>Part 2</u> | <u>Recordkeeping (basis: Regulation 2-1-234.3)</u> | <u>N</u> | |

IV. Source Specific Applicable Requirements

Table IV – Jb
Source-specific Applicable Requirements
External Floating Roof Tanks
S992 - TANK 992, S1076 - TANK 1076, S1130 - TANK 1130, S1131 - TANK 1131

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|--------------------------------------|--|-----------------------------|-----------------------|
| BAAQMD Reg 8 Rule 5 | <u>Organic Compounds - STORAGE OF ORGANIC LIQUIDS</u> <u>(10/18/06)</u> | | |
| 8-5-111 | <u>Tank Removal From and Return to Service</u> | N | |
| 8-5-111.1 | <u>Notification</u> | N | |
| 8-5-111.2 | <u>Tank in compliance at time of notification</u> | N | |
| 8-5-111.3 | <u>Filling, emptying, refilling floating roof tanks</u> | NY | |
| 8-5-111.5 | <u>Minimize emissions and, if required, degas per 8-5-328</u> | N | |
| 8-5-111.6 | <u>Self report if out of compliance during exemption period</u> | N | |
| 8-5-112 | <u>Tanks in Operation – maintenance and inspection</u> | N | |
| 8-5-112.1 | <u>Notification</u> | N | |
| 8-5-112.2 | <u>Tank in compliance at time of notification</u> | N | |
| 8-5-112.3 | <u>No product movement, Minimize emissions</u> | NY | |
| 8-5-112.4 | <u>Tanks in Operation – maintenance and inspection; Not to exceed 7 days</u> | N | |
| 8-5-112.5 | <u>Self report if out of compliance during exemption period</u> | N | |
| 8-5-112.6 | <u>Keep records for each exemption</u> | N | |
| 8-5-119 | <u>Limited Exemption, Repair Period for Enhanced Monitoring Program</u> | N | |
| 8-5-119.1 | <u>Standards allowed under the limited exemption</u> | N | |
| 8-5-119.2 | <u>Conditions required to be eligible for limited exemption</u> | N | |
| 8-5-119.3 | <u>Report within 60 days of using the exemption</u> | N | |
| 8-5-301 | <u>Storage Tank Control Requirements</u> | N | |
| 8-5-304 | <u>Requirements for External Floating Roof Tanks</u> | N | |
| 8-5-320 | <u>Floating Roof Tank Fitting Requirements</u> | N | |
| 8-5-321 | <u>Primary seal requirements</u> | N | |
| 8-5-322 | <u>Secondary seal requirements</u> | N | |
| 8-5-328 | <u>Tank Degassing Requirements</u> | N | |
| 8-5-328.1 | <u>Tank degassing requirements; Tanks > 75 cubic meters</u> | N | |
| 8-5-328.2 | <u>Tank degassing requirements; Ozone Excess Day Prohibition</u> | N | |
| 8-5-328.3 | <u>Tank degassing requirements; BAAQMD notification required</u> | N | |
| 8-5-331 | <u>Tank cleaning requirements; 90% Abatement efficiency if abatement device used</u> | N | |
| 8-5-331.1 | <u>Tank cleaning requirements; Cleaning materials properties</u> | N | |

IV. Source Specific Applicable Requirements

Table IV – Jb
Source-specific Applicable Requirements
External Floating Roof Tanks
S992 - TANK 992, S1076 - TANK 1076, S1130 - TANK 1130, S1131 - TANK 1131

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|--|---|-----------------------------|-----------------------|
| 8-5-331.2 | <u>Tank cleaning requirements; Steam cleaning prohibition</u> | N | |
| 8-5-331.3 | <u>Tank cleaning requirements; Steam cleaning exceptions</u> | N | |
| 8-5-332 | <u>Sludge Handling Requirements (applies to sludge removed from any tank that was subject to BAAQMD 8-5 at any time since it was last put in service)</u> | N | |
| 8-5-332.1 | <u>Sludge Handling Requirements; sludge container no leaks</u> | N | |
| 8-5-332.2 | <u>Sludge Handling Requirements; sludge container gap requirements</u> | N | |
| 8-5-401 | <u>Inspection Requirements for External Floating Roof Tanks</u> | N Y | |
| 8-5-401.1 | <u>Inspection Requirements for External Floating Roof Tank; Primary and Secondary Seal Inspections</u> | N | |
| 8-5-401.2 | <u>Inspection Requirements for External Floating Roof Tank; Tank Fitting Inspections</u> | N | |
| 8-5-411 | <u>Enhanced Monitoring Program</u> | N | |
| 8-5-411.1 | <u>Submit list of all tanks at the facility subject to this rule and their capacity</u> | N | |
| 8-5-411.2 | <u>Subject tanks may be changed at any time with written notification to the APCO</u> | N | |
| 8-5-411.3 | <u>Operator shall perform enhanced monitoring as specified in Sections 8-5-401, 402, and 403</u> | N | |
| 8-5-501 | <u>Records</u> | N Y | |
| 8-5-501.1 | <u>Records: Type and amount of liquid, type of blanket gas, TVP- Retain 24 months</u> | N | |
| 8-5-501.2 | <u>Records: Internal and External Floating Roof Tanks. Seal Replacement Records- Retain 10 years</u> | N | |
| 8-5-501.3 | <u>Records; Retention</u> | N | |
| SIP BAAQMD Reg 8 Rule 5 | Organic Compounds—STORAGE OF ORGANIC LIQUIDS (6/5/03) | | |
| 8-5-111 | Tank Removal From and Return to Service | Y | |
| 8-5-112 | Tanks in Operation – maintenance and inspection | Y | |
| 8-5-301 | Storage Tank Control Requirements | Y | |
| 8-5-304 | Requirements for External Floating Roofs | Y | |
| 8-5-320 | Tank Fitting Requirements | Y | |
| 8-5-321 | Primary Seal Requirements | Y | |

IV. Source Specific Applicable Requirements

Table IV – Jb
Source-specific Applicable Requirements
External Floating Roof Tanks
S992 - TANK 992, S1076 - TANK 1076, S1130 - TANK 1130, S1131 - TANK 1131

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|--|--|--|-----------------------|
| 8-5-322 | Secondary Seal Requirements | Y | |
| 8-5-328 | Tank Degassing Requirements | Y | |
| 8-5-401 | Inspection Requirements for External Floating Roof | Y | |
| 8-5-404 | Certification | Y | |
| 8-5-405 | Information Required | Y | |
| 8-5-501 | Records | Y | |
| 8-5-502 | Tank Degassing Annual Source Test Requirement | Y | |
| 8-5-503 | Portable Hydrocarbon Detector | Y | |
| MACT 40 CFR 63 Subpart CC Refinery MACT | NESHAP for Petroleum Refineries REQUIREMENTS FOR RECORDKEEPING ONLY – GROUP 2 TANKS (6/30/10) | | |
| 63.642(e) | General recordkeeping requirements: Time period for keeping records, unless specified otherwise. | 63.642(e) & 63.654655(i)(45) keep all other records 5 years, retrievable within 24 hr | Y |
| | General recordkeeping requirements: Keep all reports and notification for the specified period of time. | 63.642(e) & 63.654655(i)(45) required | Y |
| 63.654655(i) | Applicability records: Time period for keeping records of applicability determination, unless specified otherwise. | 63.654655(i)(1) 63.123(a) Keep record readily accessible for the service life of the tank | Y |
| | Applicability records: Records of dimensions & capacity required for non-exempt tanks? | 63.654655(i)(1) 63.123(a) Required Keep record readily accessible for service life of the tank * | Y |
| | Applicability records: Additional recordkeeping requirements for certain tanks. | 63.654655(i)(1)(iv) determination of HAP content Keep record readily accessible for service life of the tank | Y |
| BAAQMD Condition # 7618 | <u>Applies to S1076</u> | | |

IV. Source Specific Applicable Requirements

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|----------------------------|--|-----------------------------|-----------------------|
| BAAQMD Reg 8 Rule 5 | Organic Compounds - STORAGE OF ORGANIC LIQUIDS (10/18/06) | | |
| 8-5-111 | Tank Removal From and Return to Service | N | |
| 8-5-111.1 | Notification | N | |
| 8-5-111.2 | Tank in compliance at time of notification | N | |
| 8-5-111.3 | Filling, emptying, refilling floating roof tanks | NY | |
| 8-5-111.5 | Minimize emissions and, if required, degas per 8-5-328 | N | |
| 8-5-111.6 | Self report if out of compliance during exemption period | N | |
| 8-5-112 | Tanks in Operation – maintenance and inspection | N | |
| 8-5-112.1 | Notification | N | |
| 8-5-112.2 | Tank in compliance at time of notification | N | |
| 8-5-112.3 | No product movement, Minimize emissions | NY | |
| 8-5-112.4 | Tanks in Operation – maintenance and inspection; Not to exceed 7 days | N | |
| 8-5-112.5 | Self report if out of compliance during exemption period | N | |
| 8-5-112.6 | Keep records for each exemption | N | |
| 8-5-119 | Limited Exemption, Repair Period for Enhanced Monitoring Program | N | |
| 8-5-119.1 | Standards allowed under the limited exemption | N | |
| 8-5-119.2 | Conditions required to be eligible for limited exemption | N | |
| 8-5-119.3 | Report within 60 days of using the exemption | N | |
| 8-5-301 | Storage Tank Control Requirements | N | |
| 8-5-304 | Requirements for External Floating Roof Tanks | N | |
| 8-5-320 | Floating Roof Tank Fitting Requirements | N | |
| 8-5-321 | Primary seal requirements | N | |
| 8-5-322 | Secondary seal requirements | N | |
| 8-5-328 | Tank Degassing Requirements | N | |
| 8-5-328.1 | Tank degassing requirements; Tanks > 75 cubic meters | N | |
| 8-5-328.2 | Tank degassing requirements; Ozone Excess Day Prohibition | N | |
| 8-5-328.3 | Tank degassing requirements; BAAQMD notification required | N | |
| 8-5-331 | Tank cleaning requirements; 90% Abatement efficiency if abatement device used | N | |
| 8-5-331.1 | Tank cleaning requirements; Cleaning materials properties | N | |
| 8-5-331.2 | Tank cleaning requirements; Steam cleaning prohibition | N | |
| 8-5-331.3 | Tank cleaning requirements; Steam cleaning exceptions | N | |
| 8-5-332 | Sludge Handling Requirements (applies to sludge removed from any tank that was subject to BAAQMD 8-5 at any time since it was last put in service) | N | |
| 8-5-332.1 | Sludge Handling Requirements; sludge container no leaks | N | |

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IV. Source Specific Applicable Requirements

Table IV – Jc
Source-specific Applicable Requirements
External Floating Roof Tanks
S1191 - TANK -1256 CRUDE OIL STORAGE,
S1192 - TANK -1257 CRUDE OIL STORAGE,
S1755 – TANK 1334 GASOLINE, S1756 – TANK 1335 GASOLINE

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|--|---|-----------------------------|-----------------------|
| 8-5-332.2 | Sludge Handling Requirements; sludge container gap requirements | N | |
| 8-5-401 | Inspection Requirements for External Floating Roof Tanks | N Y | |
| 8-5-401.1 | Inspection Requirements for External Floating Roof Tank; Primary and Secondary Seal Inspections | N | |
| 8-5-401.2 | Inspection Requirements for External Floating Roof Tank; Tank Fitting Inspections | N | |
| 8-5-411 | Enhanced Monitoring Program | N | |
| 8-5-411.1 | Submit list of all tanks at the facility subject to this rule and their capacity | N | |
| 8-5-411.2 | Subject tanks may be changed at any time with written notification to the APCO | N | |
| 8-5-411.3 | Operator shall perform enhanced monitoring as specified in Sections 8-5-401, 402, and 403 | N | |
| 8-5-501 | Records | N Y | |
| 8-5-501.1 | Records: Type and amount of liquid, type of blanket gas, TVP- Retain 24 months | N | |
| 8-5-501.2 | Records: Internal and External Floating Roof Tanks, Seal Replacement Records- Retain 10 years | N | |
| 8-5-501.3 | Records: Retention | N | |
| SIP BAAQMD Reg 8 Rule 5 | Organic Compounds – STORAGE OF ORGANIC LIQUIDS (6/5/03) | | |
| 8-5-111 | Tank Removal From and Return to Service | Y | |
| 8-5-112 | Tanks in Operation – maintenance and inspection | Y | |
| 8-5-301 | Storage Tank Control Requirements | Y | |
| 8-5-304 | Requirements for External Floating Roofs | Y | |
| 8-5-320 | Tank Fitting Requirements | Y | |
| 8-5-321 | Primary Seal Requirements | Y | |
| 8-5-322 | Secondary Seal Requirements | Y | |
| 8-5-328 | Tank Degassing Requirements | Y | |
| 8-5-401 | Inspection Requirements for External Floating Roof | Y | |
| 8-5-404 | Certification | Y | |

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IV. Source Specific Applicable Requirements

Table IV – Jc
Source-specific Applicable Requirements
External Floating Roof Tanks
S1191 - TANK -1256 CRUDE OIL STORAGE,
S1192 - TANK –1257 CRUDE OIL STORAGE,
S1755 – TANK 1334 GASOLINE, S1756 – TANK 1335 GASOLINE

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|--|--|---|-----------------------|
| 8-5-405 | Information Required | Y | |
| 8-5-501 | Records | Y | |
| 8-5-502 | Tank Degassing Annual Source Test Requirement | Y | |
| 8-5-503 | Portable Hydrocarbon Detector | Y | |
| NSPS Subpart Ka; BAAQMD 10-16 | Storage Vessels for Petroleum Liquid REQUIREMENTS FOR EXTERNAL FLOATING ROOF TANKS | | |
| 60.112a | Standards for Volatile Organic Compounds | Y | |
| 60.112a(a)(1) | Standards for external floating-roof tanks | Y | |
| 60.113a | Testing and Procedures | Y | |
| 60.113a(a)(1) | Testing requirements for external floating-roof tanks | Y | |
| 60.115a | Monitoring of operation | Y | |
| 60.115a(a) | Recordkeeping requirements | Y | |
| 60.115a(b)-(c) | Determining vapor pressure | Y | |
| NSPS Subpart A | New Source Performance Standards GENERAL PROVISIONS | | |
| 60.7(f) | General recordkeeping requirements | Y | |
| MACT 40 CFR 63 Subpart CC Refinery MACT | NESHAP for Petroleum Refineries REQUIREMENTS FOR EXTERNAL FLOATING ROOF TANKS – GROUP 1 TANKS (6/30/10) | | |
| 63.642(e) | General recordkeeping requirements: Time period for keeping records, unless specified otherwise. | 63.642(e) & 63.654655(i)(45) keep all other records 5 years, retrievable within 24 hr | Y |
| | General recordkeeping requirements: Keep all reports and notification for the specified period of time. | 63.642(e) & 63.654655(i)(45) required | Y |

IV. Source Specific Applicable Requirements

Table IV – Jc
Source-specific Applicable Requirements
External Floating Roof Tanks
S1191 - TANK -1256 CRUDE OIL STORAGE,
S1192 - TANK –1257 CRUDE OIL STORAGE,
S1755 – TANK 1334 GASOLINE, S1756 – TANK 1335 GASOLINE

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------------|---|-----------------------------|-----------------------|
| 63.646(a) | EFR Rim Seals: 63.646(a) 63.119(c)(1)(i) - (1)(iii) vapor-mounted primary seal: Not Allowed liquid-mounted primary seal: OK with rim-mounted secondary mechanical-shoe primary seal: OK with rim-mounted secondary | Y | |
| | Must vapor-mounted rim seals be continuous on EFRs? 63.646(a) 63.119(c)(1)(iii) YES | Y | |
| | Are EFR rim seals allowed to be pulled back or temporarily removed during inspection? 63.646(a) 63.119(c)(1)(iii) 63.120(b)(4) YES | Y | |
| | EFRT operating requirements: When landing the floating roof on its support legs, is the tank to be emptied & either refilled or degassed as soon as possible? 63.646(a) 63.119(c)(3) & (c)(4) YES | Y | |
| | Temporary exemption from operating requirements while the external floating roof is landed on its support legs? * 63.646(a) 63.119(c)(3) EXEMPT | Y | |
| | EFR Internal Inspections: up-close visual inspection of the floating roof, seals, & fittings: 63.646(a) & 63.120(b) each time the tank is emptied & degassed | Y | |
| | EXTENSIONS OF TIME: If EFRT is unsafe to inspect & cannot be emptied within 45 days? 63.646(a) & 63.120(b) up to 2 extensions of 30 days each, if needed | Y | |
| | Notification of Inspections: Are notifications of inspections to demonstrate initial compliance required, For EFR seal gap measurements: 63.646(a) 63.120(b)(1) & (9) Required- Notifications&reports per Ongoing Reports | Y | |
| | Seal Gap Measurements: FREQUENCY AFTER INITIAL COMPLIANCE, For the EFR Primary Seal: 63.646(a) 63.120(b)(1)(i) every 5 years | Y | |

IV. Source Specific Applicable Requirements

Table IV – Jc
Source-specific Applicable Requirements
External Floating Roof Tanks
S1191 - TANK -1256 CRUDE OIL STORAGE,
S1192 - TANK –1257 CRUDE OIL STORAGE,
S1755 – TANK 1334 GASOLINE, S1756 – TANK 1335 GASOLINE

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------------|--|-----------------------------|-----------------------|
| | Seal Gap Measurements: 63.646(a) For existing EFRTs in compliance by the compliance date: 63.120(b)(1)(i) & (iii) measure gaps of both seals prior to the compliance date | Y | |
| | Seal Gap Measurements: 63.646(a) For new EFRTs: 63.120(b)(1)(i) & (iii) measure gaps of both seals prior to initial fill | Y | |
| | Seal Gap Measurements: 63.646(a) For affected EFRTs with a mechanical-shoe or liquid-mounted primary-only rim seal, prior to installing a secondary seal; annual primary seal gap measurements * PRIOR TO COMPLIANCE: 63.646(a) UPON COMPLIANCE: 63.120(b)(1)(ii) measure gaps of both seals within 90 days | Y | |
| | Seal Gap Measurements: 63.646(a) FREQUENCY AFTER INITIAL COMPLIANCE, For the EFR Secondary Seal: 63.120(b)(1)(iii) annually | Y | |
| | Seal Gap Measurements: 63.646(a) For EFRTs returned to affected service after 1 year or more of exempt service: 63.120(b)(1)(iv) measure gaps of both seals within 90 days | Y | |
| | MEASUREMENT COND'S: 63.646(a) Are EFR seal gap measurements to be made with the roof floating? 63.120(b)(2)(i) YES | Y | |
| | DETERMINATION OF EFR RIM-SEAL GAP AREAS: 63.646(a) Presence of a gap determined by inserting a 1/8 in. probe? 63.120(b)(2)(ii) YES | Y | |
| | DETERMINATION OF EFR RIM-SEAL GAP AREAS: 63.646(a) Use probes of various widths to determine the gap area? 63.120(b)(2)(iii) YES | Y | |

IV. Source Specific Applicable Requirements

Table IV – Jc
Source-specific Applicable Requirements
External Floating Roof Tanks
S1191 - TANK -1256 CRUDE OIL STORAGE,
S1192 - TANK –1257 CRUDE OIL STORAGE,
S1755 – TANK 1334 GASOLINE, S1756 – TANK 1335 GASOLINE

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------------|--|-----------------------------|-----------------------|
| | DETERMINATION OF EFR RIM-SEAL GAP AREAS: Sum the gap areas & divide by the diameter of the tank? 63.646(a) 63.120(b)(3) & (4) YES | Y | |
| | EFR Primary Seal Gap Inspection Criteria: maximum area: maximum gap width: 63.646(a) 63.120(b)(3) 10 in² per foot of vessel diameter. 1.5 in. | Y | |
| | EFR Secondary Seal Gap Inspection Criteria: maximum area: maximum gap width: 63.646(a) 63.120(b)(4) 1 in² per foot of vessel diameter. 0.5 in. | Y | |
| | Is the metallic shoe of an EFR mechanical-shoe seal required to have its bottom in the liquid and extend at least 24 in. above the liquid? 63.646(a) 63.120(b)(5)(i) YES | Y | |
| | Shall there be no holes, tears, or openings in the EFR seals? 63.646(a) 63.120(b)(5)(ii) & (6)(ii) YES | Y | |
| | UNSAFE CONDITIONS: Delay of EFR seal gap measurements allowed for unsafe conditions? 63.646(a) 63.120(b)(7)(i) up to 30 additional days If unable to make safe to measure, must the EFRT be emptied? 63.120(b)(7)(ii) YES, within 45 days of determining unsafe | Y | |
| | EFRT REPAIRS: Time allowed for repair of defects found during in-service inspections of EFRs: 63.646(a) 63.120(b)(8) make repairs within 45 days If unable to repair, empty the EFRT & remove from service? 63.120(b)(8) YES, within 45 days | Y | |
| | EXTENSIONS OF TIME: If EFRT defects cannot be repaired & the tank cannot be emptied within 45 days? 63.646(a) 63.120(b)(8) up to 2 extensions of 30 days each, if needed | Y | |

IV. Source Specific Applicable Requirements

Table IV – Jc
Source-specific Applicable Requirements
External Floating Roof Tanks
S1191 - TANK -1256 CRUDE OIL STORAGE,
S1192 - TANK –1257 CRUDE OIL STORAGE,
S1755 – TANK 1334 GASOLINE, S1756 – TANK 1335 GASOLINE

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------------|---|--|-----------------------|
| | Notification of Inspections: Are notifications of inspections to demonstrate initial compliance required, For EFR internal inspections: | 63.646(a) 63.120(b)(10) internal inspection not required for initial compl | Y |
| | EFRT REPAIRS: Repair of defects if the tank is empty? | 63.646(a) 63.120(b)(10)(i) prior to refilling | Y |
| <u>63.646(f)</u> | Deck openings (wells) other than for vents, drains, or legs to have covers that are kept closed except for access? | 63.646(f)(1) REQUIRED | Y |
| | EFR rim space vents to remain closed except when the pressure setting is exceeded? | 63.646(f)(2) REQUIRED | Y |
| | EFR automatic bleeder vent (vacuum breaker) to be closed except when the deck is landed? | 63.646(f)(3) REQUIRED | Y |
| <u>63.646(l)</u> | Notification of Inspections: Is the State or local authority allowed to waive the notification requirements? | 63.646(l) 63.654655(h)(2)(i)(C)&(ii) YES | Y |
| <u>63.654655(g)</u> | Report of periodic inspections, etc. AFTER documenting initial compliance? | 63.654(g) begin Sept 13, 1999 then semiannual | Y |
| | Periodic Reports: Report of EFR inspection failures to include: | 63.654655(g)(2) - (4) date of inspection, identification of tank, description of failure, & date of repair or emptying | Y |
| | Periodic Reports: EFR report to include a prior request for 30-day extension, with documentation of need? | 63.654655(g)(2) - (4) prior request is not required | Y |
| | Periodic Reports: Additional information to be included if an extension is utilized for an EFR: | 63.654655(g)(2)(i) 63.654655(g)(3)(ii) document the reason for the extension | Y |

IV. Source Specific Applicable Requirements

Table IV – Jc
Source-specific Applicable Requirements
External Floating Roof Tanks
S1191 - TANK -1256 CRUDE OIL STORAGE,
S1192 - TANK –1257 CRUDE OIL STORAGE,
S1755 – TANK 1334 GASOLINE, S1756 – TANK 1335 GASOLINE

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------------|--|-----------------------------|-----------------------|
| | Periodic Reports: Report EFR seal gap inspections if there was no out-of-compliance? 63.654655(g)(3)(i) Not required | Y | |
| | Periodic Reports: Report EFR seal gap inspections when there is out-of-compliance? 63.654655(g)(3)(i) Required within 60 days after each semiannual period | Y | |
| 63.654655(h) | Notification of Inspections: Is 30-day notice required for internal inspections of EFRTs (i.e., prior to filling or refilling); but a 7-day verbal notice acceptable if the event is unplanned? 63.654655(h)(2)(i) 63.646(a) 63.120(b)(10) REQUIRED | Y | |
| | Notification of Inspections: Is 30-day notice required prior to EFR seal gap measurements? 63.654655(h)(2)(ii) 63.646(a) 63.120(b)(9) REQUIRED | Y | |
| 63.654655(i) | Applicability records: Time period for keeping records of applicability determination, unless specified otherwise. 63.654655(i)(1) 63.123(a) Keep record readily accessible for the service life of the tank | Y | |
| | Applicability records: Records of dimensions & capacity required for nonexempt tanks? 63.654655(i)(1) 63.646(a)&63.119(a)(3) 63.123(a) Required Keep record readily accessible for service life of the tank * | Y | |
| | Recordkeeping for inspections: Keep inspection reports as specified. 63.654655(i)(1) 63.123(c) - (e) all inspections | Y | |
| | Records of EFR inspection reports: 63.654655(i)(1) 63.123(d) all inspections | Y | |

IV. Source Specific Applicable Requirements

Table IV – Jc
Source-specific Applicable Requirements
External Floating Roof Tanks
S1191 - TANK -1256 CRUDE OIL STORAGE,
S1192 - TANK -1257 CRUDE OIL STORAGE,
S1755 – TANK 1334 GASOLINE, S1756 – TANK 1335 GASOLINE

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|--|--|-----------------------|
| | Recordkeeping for delayed repairs: When utilizing a delay of repair provision, keep documentation of the reason for the delay. | 63.654655(i)(1) 63.123 (g) required | Y |
| | Applicability records: Additional recordkeeping requirements for certain tanks. | 63.654655(i)(1)(iv) determination of HAP content Keep record readily accessible for service life of the tank | Y |
| BAAQMD Condition # 18618 | <u>Applies to S1755 and S1756</u> | | |
| <u>Part 1</u> | <u>Throughput limit (basis: Regulation 2-1-234.3)</u> | <u>N</u> | |
| <u>Part 2</u> | <u>Recordkeeping (basis: Regulation 2-1-234.3)</u> | <u>N</u> | |

IV. Source Specific Applicable Requirements

Table IV—Kb
Source-specific Applicable Requirements
S1076—TANK 1076

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|--------------------------------|--|-----------------------------|-----------------------|
| | See Table IV – Jb for additional requirements. | | |
| BAAQMD Condition # 7618 | | | |
| Part D.2 | Liquid vapor pressure limit of less than 1.5 psia (basis: Cumulative Increase) | Y | |
| Part G | Recordkeeping (basis: Cumulative Increase) | Y | |

Table IV – M
Source-specific Applicable Requirements
Fixed Roof Tank
S532 - TANK 532

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|----------------------------|---|-----------------------------|-----------------------|
| BAAQMD Reg 8 Rule 5 | Organic Compounds - STORAGE OF ORGANIC LIQUIDS (10/18/06) | | |
| 8-5-111 | Tank Removal From and Return to Service | N | |
| 8-5-111.1 | Notification | N | |
| 8-5-111.2 | Tank in compliance at time of notification | N | |
| 8-5-111.4 | Use vapor recovery during filling and emptying tanks so equipped | NY | |
| 8-5-111.5 | Minimize emissions and, if required, degas per 8-5-328 | N | |
| 8-5-111.6 | Self report if out of compliance during exemption period | N | |
| 8-5-112 | Tanks in Operation – maintenance and inspection | N | |
| 8-5-112.1 | Notification | N | |
| 8-5-112.2 | Tank in compliance at time of notification | N | |
| 8-5-112.3 | No product movement, Minimize emissions | NY | |
| 8-5-112.4 | Tanks in Operation – maintenance and inspection; Not to exceed 7 days | N | |
| 8-5-112.5 | Self report if out of compliance during exemption period | N | |

IV. Source Specific Applicable Requirements

Table IV – M
Source-specific Applicable Requirements
Fixed Roof Tank
S532 - TANK 532

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------------|---|-----------------------------|-----------------------|
| 8-5-112.6 | <u>Keep records for each exemption</u> | N | |
| 8-5-118 | <u>Gas Tight Requirement for approved emission control system in 8-5-306.2 does not apply if facility is subject to BAAQMD 8-18</u> | N | |
| 8-5-301 | <u>Storage Tank Control Requirements</u> | N | |
| 8-5-302 | <u>Requirements for Submerged Fill Pipes</u> | Y N | |
| 8-5-303 | <u>Requirements for Pressure Vacuum Valve</u> | N | |
| 8-5-303.1 | <u>Requirements for Pressure Vacuum Valves: Set pressure</u> | N | |
| 8-5-303.2 | <u>Requirements for Pressure Vacuum Valves: Gas tight requirement</u> | N | |
| 8-5-306 | <u>Requirements for Approved Emission Control Systems</u> | N | |
| 8-5-306.1 | <u>Requirements for approved Emission Control System: Abatement Efficiency >=95%</u> | N | |
| 8-5-307 | <u>Requirements for fixed roof tanks, pressure tanks and blanketed tanks</u> | N | |
| 8-5-307.1 | <u>Requirements for fixed roof tanks, pressure tanks and blanketed tanks: no liquid leakage through shell</u> | N | |
| 8-5-328 | <u>Tank Degassing Requirements</u> | N | |
| 8-5-328.1 | <u>Tank degassing requirements: Tanks > 75 cubic meters</u> | N | |
| 8-5-328.2 | <u>Tank degassing requirements: Ozone Excess Day Prohibition</u> | N | |
| 8-5-328.3 | <u>Tank degassing requirements: BAAQMD notification required</u> | N | |
| 8-5-331 | <u>Tank cleaning requirements: 90% Abatement efficiency if abatement device used</u> | N | |
| 8-5-331.1 | <u>Tank cleaning requirements: Cleaning materials properties</u> | N | |
| 8-5-331.2 | <u>Tank cleaning requirements: Steam cleaning prohibition</u> | N | |
| 8-5-331.3 | <u>Tank cleaning requirements: Steam cleaning exceptions</u> | N | |
| 8-5-332 | <u>Sludge Handling Requirements (applies to sludge removed from any tank that was subject to BAAQMD 8-5 at any time since it was last put in service)</u> | N | |
| 8-5-332.1 | <u>Sludge Handling Requirements: sludge container no leaks</u> | N | |
| 8-5-332.2 | <u>Sludge Handling Requirements: sludge container gap requirements</u> | N | |
| 8-5-403 | <u>Inspection Requirements for Pressure Relief Devices</u> | N | |
| 8-5-403.1 | <u>Inspection Requirements for Pressure Relief Devices: Pressure vacuum valves gas tight standards in 8-5-303</u> | N | |
| 8-5-404 | <u>Inspection, Abatement Efficiency Determination and Source Test Reports</u> | N | |
| 8-5-501 | <u>Records</u> | N Y | |

IV. Source Specific Applicable Requirements

Table IV – M
Source-specific Applicable Requirements
Fixed Roof Tank
S532 - TANK 532

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|--|--|-----------------------------|-----------------------|
| 8-5-501.1 | Records: Type and amount of liquid, type of blanket gas, TVP- Retain 24 months | N | |
| 8-5-501.3 | Records: Retention | N | |
| 8-5-501.4 | Records: New pressure vacuum valve setpoints | N | |
| 8-5-502 | Annual Source Test Requirement and Exemption for Sources Vented to Fuel Gas | N | |
| 8-5-502.1 | Source Test Requirements: Annual source test for approved emission control systems and abatement devices for 8-5-303.2, 8-5-306.1, 8-5-307.3 | N | |
| 8-5-502.2 | Source test requirements: Tank degassing and cleaning abatement devices | N | |
| SIP BAAQMD Reg 8 Rule 5 | Organic Compounds – STORAGE OF ORGANIC LIQUIDS (6/5/03) | | |
| 8-5-111 | Tank Removal From and Return to Service | Y | |
| 8-5-112 | Tanks in Operation – maintenance and inspection | Y | |
| 8-5-301 | Storage Tank Control Requirements | Y | |
| 8-5-302 | Requirements for Submerged Fill Pipes | N | |
| 8-5-303 | Requirements for Pressure Vacuum Valve | Y | |
| 8-5-306 | Requirements for Approved Emission Control Systems | Y | |
| 8-5-328 | Tank Degassing Requirements | Y | |
| 8-5-403 | Inspection Requirements for Pressure Vacuum Valves | Y | |
| 8-5-404 | Certification | Y | |
| 8-5-501.1 | Records | Y | |
| 8-5-502 | Tank Degassing Annual Source Test Requirement | Y | |
| 8-5-503 | Portable Hydrocarbon Detector | Y | |
| MACT 40 CFR 63 Subpart CC | National Emissions Standards for Hazardous Air Pollutants from Petroleum Refineries (6/23/03/18/956/30/10) | | |
| 63.640 | Emission points at petroleum refinery | Y | |
| 63.640(d)(5) | No testing, monitoring, recordkeeping, or reporting is required for refinery fuel gas systems or emission points routed to refinery fuel gas systems | Y | |
| 63.647 | Wastewater provisions | Y | |

IV. Source Specific Applicable Requirements

Table IV – M
Source-specific Applicable Requirements
Fixed Roof Tank
S532 - TANK 532

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|--|--|-----------------------------|-----------------------|
| 63.647(a) | Owners/operators of Group 1 wastewater streams shall comply with section 61.340 to 61.355 of 40 CFR 61, subpart FF for each stream that meets the definition of 63.641 | Y | |
| 63.654 655 | Reporting and recordkeeping requirements | Y | |
| 63.654 655(a) | Owners/operators subject to the wastewater provisions of 63.647 shall comply with the recordkeeping and reporting requirements of 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 | |
| 63.654 655(i)(45) | All information required to be reported under 63.654 655(a) through (h) shall be retained for 5 years. | Y | |
| NESHAP 40 CFR 61 Subpart A | National Emission Standards for Hazardous Air Pollutants - General Provisions (3/16/95) | | |
| 61.01 | Lists of pollutants and applicability of part 61 | Y | |
| 61.04 | Address | Y | |
| 61.05 | Prohibited activities | Y | |
| 61.07 | Application for approval of construction or modification | Y | |
| 61.09 | Notification of startup | Y | |
| 61.10 | Source reporting and waiver request | Y | |
| 61.12 | Compliance with standards and maintenance requirements | Y | |
| 61.13 | Emission tests and waiver of emission tests | Y | |
| 61.14 | Monitoring requirements | Y | |
| 61.19 | Circumvention | Y | |
| NESHAP 40 CFR 61 Subpart FF; BAAQMD 11-12 | National Emission Standard for Benzene Waste Operations (3/7/90) | | |
| 61.340 | Applicability | Y | |
| 61.340(d) | Exemption for any gaseous stream from a waste management unit, treatment process or wastewater treatment unit routed to a fuel gas system. | Y | |
| 61.343 | Standards: Tanks | Y | |

IV. Source Specific Applicable Requirements

Table IV – M
Source-specific Applicable Requirements
Fixed Roof Tank
S532 - TANK 532

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------------|--|-----------------------------|-----------------------|
| 61.343(a)(1) | Owner/operator shall install, operate, and maintain a fixed-roof and closed-vent system that routes all organic vapors vented from the tank to a control device. | Y | |
| 61.343(a)(1)(i) | Fixed Roof leak requirements - < 500 ppmv above background, determined initially then annually by method in 61.355(h) of this subpart. | Y | |
| 61.343(a)(1)(ii) | Closed-vent system and control device designed and operated in accordance with 61.349 of this subpart | Y | |
| 61.343(b) | For a tank that meets all of the conditions of paragraph (b)(1), the owner/operator may elect to comply with paragraph (b)(2) as an alternative to the requirements of (a)(1). | Y | |
| 61.343(b)(1) | The waste managed in the tank complying with (b)(2) shall meet all of the following conditions: wastestream managed in the tank must have a flow-weighted annual average water content less than or equal to 10% water, on a volume basis and the waste managed in the tank either: has a maximum organic vapor pressure less than 0.75 psi, or has a maximum organic vapor pressure less than 4.0 psi and is managed in a tank less than 40,000 gallons, or has a maximum organic vapor pressure less than 11.1 psi and is managed in a tank having a design capacity less than 20,000 gallons. | Y | |
| 61.343(b)(2) | Owner/operator shall install, operate, and maintain a fixed roof as specified in paragraph (a)(1)(i). | Y | |
| 61.343(b)(3) | may use devices that vent directly to atmosphere provided the devices are closed, sealed during normal operations except when the device needs to open to prevent damage or deformation of the tank or cover. | Y | |
| 61.343(c) | Inspect all fixed-roof, seal, access doors, and all other openings visually initially and quarterly for cracks and gaps and that doors and openings are closed and gasketed properly. | Y | |
| 61.343(d) | When a broken seal or gasket is identified, or when detectable emissions are measured, first efforts at repair shall be made as soon as practicable, but not later than 45 calendar days after identification. | Y | |
| 61.349 | Standards: Closed vent systems and control devices | Y | |
| 61.349(a) | Closed vent system and control device | Y | |

IV. Source Specific Applicable Requirements

Table IV – M
Source-specific Applicable Requirements
Fixed Roof Tank
S532 - TANK 532

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|--|--|-----------------------------|-----------------------|
| 61.349(a)(1) | Closed vent system requirements | Y | |
| 61.350 | Delay of Repair | Y | |
| 61.355 | Test methods, procedures and compliance provisions | Y | |
| 61.355(h) | Test equipment for compliance with no detectable emissions as required in 61.343 through 61.347 and 61.349 | Y | |
| 61.356 | Recordkeeping requirements | Y | |
| 61.356(h) | Reporting requirements | Y | |
| 61.357 | Reporting requirements | Y | |
| 61.357(d) | reporting requirements for facilities with 10 Mg/yr or more total benzene in waste | Y | |
| 61.357(d)(2) | Annually submit a report to the Administrator that updates the information listed in 61.357(a)(1) through (a)(3). If the information in the annual report required by 61.357(a)(1) through (a)(3) of this section is not changed in the following year, the owner or operator may submit a statement to that effect. | Y | |
| 61.357(d)(6) | Submit quarterly certification that all required inspections have been conducted. | Y | |
| 61.357(d)(7) | Reporting requirements | Y | |
| 61.357(d)(8) | Reporting requirements | Y | |
| <u>BAAQMD</u> <u>Condition #</u> <u>7618</u> | <u>Applies to S53</u> | | |
| Part D.1.a | <u>Liquid with a vapor pressure of 1.5 psig or greater shall not be stored in more than 12 tanks at any one time.[basis: Cumulative Increase]</u> | <u>Y</u> | |
| Part D.1.b | <u>Abatement Requirement. [basis: Cumulative Increase]</u> | <u>Y</u> | |
| Part G | <u>Recordkeeping [basis: Cumulative Increase]</u> | <u>Y</u> | |
| <u>BAAQMD</u> <u>Condition #</u> <u>18618</u> | <u>Applies to S532</u> | | |
| Part 1 | <u>Throughput limit (basis: Regulation 2-1-234.3)</u> | <u>N</u> | |
| Part 2 | <u>Recordkeeping (basis: Regulation 2-1-234.3)</u> | <u>N</u> | |

IV. Source Specific Applicable Requirements

Table IV—N
Source-specific Applicable Requirements
S540—TANK 540

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---------------------------------|---|-----------------------------|-----------------------|
| | See Table IV—Ja for additional requirements. | | |
| BAAQMD Condition # 11951 | | | |
| Part 1 | Annual throughput limit with recordkeeping [basis: Cumulative Increase] | Y | |
| Part 3 | Equipment specification requirement [basis: BACT/TBACT] | Y | |

Table IV—O
Source-specific Applicable Requirements
S544—TANK 544

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---------------------------------|--|-----------------------------|-----------------------|
| | See Table IV—Ja for additional requirements. | | |
| BAAQMD Condition # 11850 | | | |
| Part 1 | Equipment specification requirement [basis: Cumulative Increase] | Y | |

IV. Source Specific Applicable Requirements

Table IV—P
Source-specific Applicable Requirements
~~S545—TANK 545~~

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---------------------------------|--|-----------------------------|-----------------------|
| | See Table IV—Ja for additional requirements. | | |
| BAAQMD Condition # 12174 | | | |
| Part 1 | Equipment specification requirement [basis: Cumulative Increase] | Y | |

TABLE IV—Q
SOURCE-SPECIFIC APPLICABLE REQUIREMENTS
~~S549—TANK 549~~

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|--------------------------------|--|-----------------------------|-----------------------|
| | See Table IV—A & B for additional requirements. | | |
| BAAQMD Condition # 6111 | | | |
| Part 1 | Annual throughput limit [basis: Cumulative Increase] | Y | |
| Part 2 | Vapor pressure limit [basis: Cumulative Increase] | Y | |
| Part 3 | Benzene content limit [basis: Toxics] | N | |
| Part 4 | Recordkeeping [basis: Cumulative Increase] | Y | |

IV. Source Specific Applicable Requirements

Table IV – R
Source-specific Applicable Requirements
Internal Floating Roof Tanks
S952 - TANK 952,
S2445 - TANK 12445, S2446 - TANK 12446
S4322 - TANK 14571 SOUR WATER , S6062 – ETHANOL TANK

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|--------------------------------------|--|-----------------------------|-----------------------|
| BAAQMD Reg 8 Rule 5 | <u>Organic Compounds - STORAGE OF ORGANIC LIQUIDS</u> <u>(10/18/06)</u> | | |
| <u>8-5-111</u> | <u>Tank Removal From and Return to Service</u> | <u>N</u> | |
| <u>8-5-111.1</u> | <u>Notification</u> | <u>N</u> | |
| <u>8-5-111.2</u> | <u>Tank in compliance at time of notification</u> | <u>N</u> | |
| <u>8-5-111.3</u> | <u>Filling, emptying, refilling floating roof tanks</u> | <u>NY</u> | |
| <u>8-5-111.5</u> | <u>Minimize emissions and, if required, degas per 8-5-328</u> | <u>N</u> | |
| <u>8-5-111.6</u> | <u>Self report if out of compliance during exemption period</u> | <u>N</u> | |
| <u>8-5-112</u> | <u>Tanks in Operation – maintenance and inspection</u> | <u>N</u> | |
| <u>8-5-112.1</u> | <u>Notification</u> | <u>N</u> | |
| <u>8-5-112.2</u> | <u>Tank in compliance at time of notification</u> | <u>N</u> | |
| <u>8-5-112.3</u> | <u>No product movement, Minimize emissions</u> | <u>NY</u> | |
| <u>8-5-112.4</u> | <u>Tanks in Operation – maintenance and inspection; Not to exceed 7 days</u> | <u>N</u> | |
| <u>8-5-112.5</u> | <u>Self report if out of compliance during exemption period</u> | <u>N</u> | |
| <u>8-5-112.6</u> | <u>Keep records for each exemption</u> | <u>N</u> | |
| <u>8-5-301</u> | <u>Storage Tank Control Requirements</u> | <u>N</u> | |
| <u>8-5-305</u> | <u>Requirements for Internal Floating Roof Tanks</u> | <u>N</u> | |
| <u>8-5-320</u> | <u>Floating Roof Tank Fitting Requirements</u> | <u>N</u> | |
| <u>8-5-321</u> | <u>Primary seal requirements</u> | <u>N</u> | |
| <u>8-5-322</u> | <u>Secondary seal requirements</u> | <u>N</u> | |
| <u>8-5-328</u> | <u>Tank Degassing Requirements</u> | <u>N</u> | |
| <u>8-5-328.1</u> | <u>Tank degassing requirements; Tanks > 75 cubic meters</u> | <u>N</u> | |
| <u>8-5-328.2</u> | <u>Tank degassing requirements; Ozone Excess Day Prohibition</u> | <u>N</u> | |
| <u>8-5-328.3</u> | <u>Tank degassing requirements; BAAQMD notification required</u> | <u>N</u> | |
| <u>8-5-331</u> | <u>Tank cleaning requirements; 90% Abatement efficiency if abatement device used</u> | <u>N</u> | |
| <u>8-5-331.1</u> | <u>Tank cleaning requirements; Cleaning materials properties</u> | <u>N</u> | |
| <u>8-5-331.2</u> | <u>Tank cleaning requirements; Steam cleaning prohibition</u> | <u>N</u> | |
| <u>8-5-331.3</u> | <u>Tank cleaning requirements; Steam cleaning exceptions</u> | <u>N</u> | |

IV. Source Specific Applicable Requirements

Table IV – R
Source-specific Applicable Requirements
Internal Floating Roof Tanks
S952 - TANK 952,
S2445 - TANK 12445, S2446 - TANK 12446
S4322 - TANK 14571 SOUR WATER , S6062 – ETHANOL TANK

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|--|--|-----------------------------|-----------------------|
| 8-5-332 | Sludge Handling Requirements (applies to sludge removed from any tank that was subject to BAAQMD 8-5 at any time since it was last put in service) | N | |
| 8-5-332.1 | Sludge Handling Requirements: sludge container no leaks | N | |
| 8-5-332.2 | Sludge Handling Requirements: sludge container gap requirements | N | |
| 8-5-402 | Inspection Requirements for Internal Floating Roof Tanks | NY | |
| 8-5-402.1 | Inspection Requirements for Internal Floating Roof Tanks: Primary and Secondary Seal Inspections | Y | |
| 8-5-402.2 | Inspection Requirements for Internal Floating Roof Tanks: Visual Inspection of Outer Most Seal | N | |
| 8-5-402.3 | Inspection Requirements for Internal Floating Roof Tanks: Tank Fitting Inspection | N | |
| 8-5-501 | Records | NY | |
| 8-5-501.1 | Records: Type and amount of liquid, type of blanket gas, TVP- Retain 24 months | N | |
| 8-5-501.2 | Records: Internal and External Floating Roof Tanks, Seal Replacement Records- Retain 10 years | N | |
| 8-5-501.3 | Records: Retention | N | |
| SIP BAAQMD Reg 8 Rule 5 | Organic Compounds – STORAGE OF ORGANIC LIQUIDS (6/5/03) | | |
| 8-5-111 | Tank Removal From and Return to Service | Y | |
| 8-5-112 | Tanks in Operation – maintenance and inspection | Y | |
| 8-5-301 | Storage Tank Control Requirements | Y | |
| 8-5-305 | Requirements for Internal Floating Roofs | Y | |
| 8-5-320 | Tank Fitting Requirements | Y | |
| 8-5-321 | Primary Seal Requirements | Y | |
| 8-5-322 | Secondary Seal Requirements | Y | |
| 8-5-328 | Tank Degassing Requirements | Y | |
| 8-5-402 | Inspection Requirements for Internal Floating Roof | Y | |
| 8-5-404 | Certification | Y | |

IV. Source Specific Applicable Requirements

Table IV – R
Source-specific Applicable Requirements
Internal Floating Roof Tanks
S952 - TANK 952,
S2445 - TANK 12445, S2446 - TANK 12446
S4322 - TANK 14571 SOUR WATER , S6062 – ETHANOL TANK

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------------|---|-----------------------------|-----------------------|
| 8-5-405 | Information Required | Y | |
| 8-5-501 | Records | Y | |
| 8-5-502 | Tank Degassing Annual Source Test Requirement | Y | |
| 8-5-503 | Portable Hydrocarbon Detector | Y | |
| Refinery MACT | NESHAP for Petroleum Refineries REQUIREMENTS FOR INTERNAL FLOATING ROOF TANKS ALSO SUBJECT TO NSPS Kb | | |
| 63.640(n) | Which rule governs for storage vessels subject to both Refinery MACT and NSPS subpart Kb? 63.640(n)(1) NSPS subpart Kb | Y | |
| | Does Refinery MACT provide for delay of NSPS Kb seal gap measurements due to unsafe conditions? 63.640(n)(8)(ii) YES – up to 30 days, or empty the tank within 45 days | Y | |
| | Does Refinery MACT provide for extensions of time to perform NSPS Kb inspections of unsafe tanks? 63.640(n)(8)(iii) YES – up to 2 extensions of 30 days each | Y | |
| | Does Refinery MACT provide for extensions of time to repair defects found during NSPS Kb inspections? 63.640(n)(8)(iii) YES – up to 2 extensions of 30 days each | Y | |
| | Does Refinery MACT provide for waiving the NSPS Kb prior-request requirement for extensions of time? 63.640(n)(8)(iii) YES | Y | |
| | Does Refinery MACT provide for submitting NSPS Kb documentation of the need for an extension with the next semi-annual periodic report? 63.640(n)(8)(iv) YES | Y | |
| | Does Refinery MACT provide for submitting reports of NSPS Kb inspection failures on the semi-annual periodic report schedule? 63.640(n)(8)(v) YES | Y | |
| NSPS Subpart Kb | Volatile Organic Liquid Storage Vessels REQUIREMENTS FOR INTERNAL FLOATING ROOF TANKS | Y | |

IV. Source Specific Applicable Requirements

Table IV – R
Source-specific Applicable Requirements
Internal Floating Roof Tanks
S952 - TANK 952,
S2445 - TANK 12445, S2446 - TANK 12446
S4322 - TANK 14571 SOUR WATER , S6062 – ETHANOL TANK

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------------|--|---|-----------------------|
| 60.112b(a) | IFRT operating requirements: When landing the floating roof on its support legs, is the tank to be emptied & either refilled or degassed as soon as possible? | 60.112b(a)(1)(i) YES | Y |
| | Temporary exemption from operating requirements while the internal floating roof is landed on its support legs? * | 60.112b(a)(1)(i) EXEMPT | Y |
| | IFR Rim Seals: vapor-mounted primary seal: liquid-mounted primary seal: mechanical-shoe primary seal: | 60.112b(a)(1)(ii) OK with rim-mounted secondary OK alone OK alone | Y |
| | Must a liquid-mounted seal be in contact with the liquid between the wall of the storage vessel and the floating roof continuously around the circumference of the tank? | 60.112b(a)(1)(ii)(A) REQUIRED | Y |
| | Must IFR vapor-mounted rim seals be continuous? | 60.112b(a)(1)(ii)(B) REQUIRED | Y |
| | Must a flexible coated fabric span the annular space between the metal sheet and the floating roof? | 60.112b(a)(1)(ii)(C) REQUIRED | Y |
| | IFR deck openings other than for vents to project into liquid? | 60.112b(a)(1)(iii) REQUIRED | Y |
| | Deck openings (wells) other than for vents, drains, or legs to have covers that are kept closed except for access? | 60.112b(a)(1)(iv) REQUIRED | Y |
| | IFR access hatch & gauge float well covers to be bolted closed? | 60.112b(a)(1)(iv) REQUIRED | Y |
| | IFR well covers to be gasketed? | 60.112b(a)(1)(iv) & (ix) REQUIRED | Y |

IV. Source Specific Applicable Requirements

Table IV – R
Source-specific Applicable Requirements
Internal Floating Roof Tanks
S952 - TANK 952,
S2445 - TANK 12445, S2446 - TANK 12446
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| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------------|---|-----------------------------|-----------------------|
| | IFRT unslotted guidepoles to have a gasketed cap at the top of the pole? 60.112b(a)(1)(iv) Required per FR notices 65 FR 2336 (01/14/00) 65 FR 19891(04/13/00) | Y | |
| | IFRT slotted guidepoles to have a deck cover gasket and pole wiper, and either an internal float or a pole sleeve? 60.112b(a)(1)(iv) Required per FR notices 65 FR 2336 (01/14/00) 65 FR 19891(04/13/00) | Y | |
| | IFR automatic bleeder vent (vacuum breaker) to be closed except when the deck is landed? 60.112b(a)(1)(v) REQUIRED | Y | |
| | IFR vents to be gasketed? 60.112b(a)(1)(v) & (vi) REQUIRED | Y | |
| | IFR rim space vents to remain closed except when the pressure setting is exceeded? 60.112b(a)(1)(vi) REQUIRED | Y | |
| | IFR sample penetration to be a sample well with a slit-fabric seal over 90% of the opening? 60.112b(a)(1)(vii) REQUIRED | Y | |
| | IFR guidepole & column wells allowed a flexible-fabric sleeve seal or a gasketed cover? 60.112b(a)(1)(viii) OK for columns | Y | |
| 60.113b(a) | IFR/CFR Internal Inspections: (up close visual inspection of the floating roof, seals, & fittings): 60.113b(a)(1) & (4) prior to initial fill, then every 10 years, including each emptying/degassing | Y | |
| | Notification of Inspections: Are notifications of inspections to demonstrate initial compliance required, For IFR/CFR internal inspections: 60.113b(a)(1) & (5) Required- notifications&reports per Ongoing Reports | Y | |
| | Shall there be no holes, tears, or openings in the IFR seals? 60.113b(a)(1), (2), &(4) REQUIRED | Y | |
| | Is there to be no liquid on the internal floating roof? 60.113b(a)(2) REQUIRED | Y | |

IV. Source Specific Applicable Requirements

Table IV – R
Source-specific Applicable Requirements
Internal Floating Roof Tanks
S952 - TANK 952,
S2445 - TANK 12445, S2446 - TANK 12446
S4322 - TANK 14571 SOUR WATER , S6062 – ETHANOL TANK

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------------|---|---|-----------------------|
| | Tank Top Visual Inspections (of IFR/CFR from manways and hatches of the fixed roof): | 60.113b(a)(2) annually after initial fill | Y |
| | IFRT REPAIRS: Time allowed for repair of defects found during in-service inspections: | 60.113b(a)(2) make repairs within 45 days | Y |
| | IFRT REPAIRS: If unable to repair, empty the tank & remove from service? | 60.113b(a)(2) YES, within 45 days | Y |
| | EXTENSIONS OF TIME: If defects cannot be repaired & the IFRT cannot be emptied within 45 days? | 60.113b(a)(2) 1 extension of 30 days, if needed * | Y |
| | Periodic Reports: IFR/CFR report to include prior request for 30-day extension, with documentation of need? | 60.113b(a)(2) required * | Y |
| | Periodic Reports: Additional information to be included if an extension is utilized for an IFR/CFR: | 60.113b(a)(2) document the reason for the extension * | Y |
| | OPTION: Does this rule allow an internal inspection every 5 years to replace <u>both</u> inspections noted above, if the IFR/CFR is equipped with a secondary seal? | 60.113b(a)(3) & (4) YES | Y |
| | IFRT REPAIRS: Repair of defects if the tank is empty? | 60.113b(a)(4) prior to refilling | Y |
| | Notification of Inspections: Is 30-day notice required for internal inspections of IFRTs & CFRTs (i.e., prior to filling or refilling); but a 7-day verbal notice acceptable if the event is unplanned? | 60.113b(a)(5) REQUIRED | Y |

IV. Source Specific Applicable Requirements

Table IV – R
Source-specific Applicable Requirements
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S952 - TANK 952,
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S4322 - TANK 14571 SOUR WATER , S6062 – ETHANOL TANK

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------------|--|-----------------------------|-----------------------|
| 60.115b | Recordkeeping for inspections: 60.115b Keep inspection reports as specified. Keep for 2 years | Y | |
| 60.115b(a) | IFRT report to include: 60.115b(a)(1) description of control equipment | Y | |
| | Records of IFR & CFR inspection reports: 60.115b(a)(2) all IFR inspections | Y | |
| | Periodic Reports: 60.115b(a)(3) & (4) Report of IFR/CFR inspections that find out-of-compliance? Required within 30 days for in-service inspections * (not required for out-of-service inspections) | Y | |
| | Periodic Reports: 60.115b(a)(3) & (4) Report of IFR/CFR inspection failures to include: date of inspection, identification of tank, description of failure, & date of repair or emptying | Y | |
| 60.116b(a) | Applicability records: 60.116b(a) Time period for keeping records of applicability determination, unless specified otherwise. Keep for 2 years | Y | |
| 60.116b(b) | Applicability records: 60.116b(b) Records of dimensions & capacity required for nonexempt tanks? Required Keep record readily accessible for the life of the tank | Y | |
| 60.116b(c) | Applicability records: 60.116b(c) Additional recordkeeping requirements for certain tanks. identification & TVP of the stored product, if capacity ≥ 20,000 gallons and TVP ≥ 2.2, OR capacity ≥ 40,000 gallons and TVP ≥ 0.51 Keep record as long as the tank is in that service | Y | |
| 60.116b(e) | True vapor pressure (TVP) determination for applicability: 60.116b(e) maximum TVP of the stored liquid, based on highest calendar month average storage temperature | Y | |

IV. Source Specific Applicable Requirements

Table IV – R
Source-specific Applicable Requirements
Internal Floating Roof Tanks
S952 - TANK 952,
S2445 - TANK 12445, S2446 - TANK 12446
S4322 - TANK 14571 SOUR WATER , S6062 – ETHANOL TANK

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---------------------------------------|---|--|-----------------------|
| NSPS Subpart A | New Source Performance Standards GENERAL PROVISIONS | | |
| 60.7(a) | Initial Notification: Is initial notification of the source's existence required? | 60.7(a)(1) notification within 30 days after begin construction Y | |
| | Report (document) having initially achieved compliance? | 60.7(a)(3) 60.115b(a)(1) & (b)(1) within 15 days after initial fill Y | |
| | Notification of Compliance Status report: | 60.7(a)(3) [cf. 60.115b(a)(1)&(b)(1)] notification within 15 days after startup Y | |
| | Initial Notification: Is initial notification required if tank becomes affected only as a result of a modification? | 60.7(a)(4) notification 60 days or as soon as practicable before the change Y | |
| 60.7(f) | General recordkeeping requirements: Time period for keeping records, unless specified otherwise. | 60.7(f) Keep all reports & notifications for 2 years Y | |
| | General recordkeeping requirements: Keep all reports and notification for the specified period of time. | 60.7(f) required Y | |
| 60.14(g) | Achieve compliance for: New Tanks (or tanks that become affected as a result of a change or modification)? | 60.14(g) up to 180 days after modifications (otherwise prior to fill) Y | |
| <u>BAAQMD Condition # 6707</u> | <u>Applies to S2445 and S2446</u> | | |
| <u>Part 1</u> | <u>Annual throughput limit [basis: Cumulative Increase]</u> | <u>Y</u> | |
| <u>Part 2a</u> | <u>Material storage limit [basis: Cumulative Increase]</u> | <u>Y</u> | |
| <u>Part 2bi</u> | <u>Material storage limit [basis: Cumulative Increase]</u> | <u>Y</u> | |
| <u>Part 2bii</u> | <u>Material storage limit [basis: Cumulative Increase, Toxics]</u> | <u>N</u> | |

IV. Source Specific Applicable Requirements

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Source-specific Applicable Requirements
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S2445 - TANK 12445, S2446 - TANK 12446
S4322 - TANK 14571 SOUR WATER , S6062 – ETHANOL TANK

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---------------------------------|---|-----------------------------|-----------------------|
| Part 3 | <u>Equipment specifications [basis: BACT/TBACT; Cumulative Increase]</u> | <u>Y</u> | |
| Part 4 | <u>Recordkeeping [basis: Cumulative Increase]</u> | <u>Y</u> | |
| Part 5 | <u>Installation of primary seal [basis: BACT/TBACT]</u> | <u>Y</u> | |
| BAAQMD Condition # 12271 | <u>Applies to S4322</u> | | |
| Part A | <u>Monthly and annual emission limits [basis: Offsets, Cumulative Increase]</u> | <u>Y</u> | |
| Part B | <u>Applicable sources [basis: Offsets, Cumulative Increase]</u> | <u>Y</u> | |
| Part C | <u>In the case of a process upset or other irregularity [basis: Offsets, Cumulative Increase]</u> | <u>N</u> | |
| Part L | <u>Recordkeeping [basis: BACT, Offsets, Cumulative Increase]</u> | <u>Y</u> | |
| Part M | <u>Monthly reports [basis: Offsets, Cumulative Increase]</u> | <u>Y</u> | |
| Part O | <u>Offsets requirements [basis: Offsets]</u> | <u>Y</u> | |
| Part 45 | <u>Seal requirements [basis: BACT]</u> | <u>Y</u> | |
| Part 51 | <u>Degassing abatement requirement [basis: BACT]</u> | <u>Y</u> | |
| BAAQMD Condition # 17648 | <u>Applies to S2445, S2446, and S4322</u> | | |
| Part 1 | <u>Slotted guidepole equipment requirements (basis: STERPP)</u> | <u>Y</u> | |
| Part 2 | <u>Slotted guidepole operating requirements (basis: STERPP)</u> | <u>Y</u> | |
| Part 3 | <u>Visual inspection requirements (basis: STERPP)</u> | <u>Y</u> | |
| Part 4 | <u>Out of service (basis: STERPP)</u> | <u>Y</u> | |

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IV. Source Specific Applicable Requirements

Table IV – U
Source-specific Applicable Requirements
External Floating Roof Tanks
S1006 - TANK 1006, S2013 - TANK 12467,
S4310 - TANK13285 SOUR WATER,
S17095 – TANK 17095

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|--------------------------------------|--|-----------------------------|-----------------------|
| BAAQMD Reg 8 Rule 5 | Organic Compounds - STORAGE OF ORGANIC LIQUIDS (10/18/06) | | |
| 8-5-111 | Tank Removal From and Return to Service | N | |
| 8-5-111.1 | Notification | N | |
| 8-5-111.2 | Tank in compliance at time of notification | N | |
| 8-5-111.3 | Filling, emptying, refilling floating roof tanks | NY | |
| 8-5-111.5 | Minimize emissions and, if required, degas per 8-5-328 | N | |
| 8-5-111.6 | Self report if out of compliance during exemption period | N | |
| 8-5-112 | Tanks in Operation – maintenance and inspection | N | |
| 8-5-112.1 | Notification | N | |
| 8-5-112.2 | Tank in compliance at time of notification | N | |
| 8-5-112.3 | No product movement, Minimize emissions | NY | |
| 8-5-112.4 | Tanks in Operation – maintenance and inspection; Not to exceed 7 days | N | |
| 8-5-112.5 | Self report if out of compliance during exemption period | N | |
| 8-5-112.6 | Keep records for each exemption | N | |
| 8-5-119 | Limited Exemption, Repair Period for Enhanced Monitoring Program | N | |
| 8-5-119.1 | Standards allowed under the limited exemption | N | |
| 8-5-119.2 | Conditions required to be eligible for limited exemption | N | |
| 8-5-119.3 | Report within 60 days of using the exemption | N | |
| 8-5-301 | Storage Tank Control Requirements | N | |
| 8-5-304 | Requirements for External Floating Roof Tanks | N | |
| 8-5-320 | Floating Roof Tank Fitting Requirements | N | |
| 8-5-321 | Primary seal requirements | N | |
| 8-5-322 | Secondary seal requirements | N | |
| 8-5-328 | Tank Degassing Requirements | N | |
| 8-5-328.1 | Tank degassing requirements; Tanks > 75 cubic meters | N | |
| 8-5-328.2 | Tank degassing requirements; Ozone Excess Day Prohibition | N | |
| 8-5-328.3 | Tank degassing requirements; BAAQMD notification required | N | |

IV. Source Specific Applicable Requirements

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Source-specific Applicable Requirements
External Floating Roof Tanks
S1006 - TANK 1006, S2013 - TANK 12467,
S4310 - TANK13285 SOUR WATER,
S17095 – TANK 17095

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|--|--|-----------------------------|-----------------------|
| 8-5-331 | Tank cleaning requirements; 90% Abatement efficiency if abatement device used | N | |
| 8-5-331.1 | Tank cleaning requirements; Cleaning materials properties | N | |
| 8-5-331.2 | Tank cleaning requirements; Steam cleaning prohibition | N | |
| 8-5-331.3 | Tank cleaning requirements; Steam cleaning exceptions | N | |
| 8-5-332 | Sludge Handling Requirements (applies to sludge removed from any tank that was subject to BAAQMD 8-5 at any time since it was last put in service) | N | |
| 8-5-332.1 | Sludge Handling Requirements; sludge container no leaks | N | |
| 8-5-332.2 | Sludge Handling Requirements; sludge container gap requirements | N | |
| 8-5-401 | Inspection Requirements for External Floating Roof Tanks | N Y | |
| 8-5-401.1 | Inspection Requirements for External Floating Roof Tank; Primary and Secondary Seal Inspections | N | |
| 8-5-401.2 | Inspection Requirements for External Floating Roof Tank; Tank Fitting Inspections | N | |
| 8-5-411 | Enhanced Monitoring Program | N | |
| 8-5-411.1 | Submit list of all tanks at the facility subject to this rule and their capacity | N | |
| 8-5-411.2 | Subject tanks may be changed at any time with written notification to the APCO | N | |
| 8-5-411.3 | Operator shall perform enhanced monitoring as specified in Sections 8-5-401, 402, and 403 | N | |
| 8-5-501 | Records | N Y | |
| 8-5-501.1 | Records; Type and amount of liquid, type of blanket gas, TVP- Retain 24 months | N | |
| 8-5-501.2 | Records; Internal and External Floating Roof Tanks, Seal Replacement Records- Retain 10 years | N | |
| 8-5-501.3 | Records; Retention | N | |
| SIP BAAQMD Reg 8 Rule 5 | Organic Compounds – STORAGE OF ORGANIC LIQUIDS (6/5/03) | | |
| 8-5-111 | Tank Removal From and Return to Service | Y | |

IV. Source Specific Applicable Requirements

Table IV – U
Source-specific Applicable Requirements
External Floating Roof Tanks
S1006 - TANK 1006, S2013 - TANK 12467,
S4310 - TANK13285 SOUR WATER,
S17095 – TANK 17095

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------------|---|-----------------------------|-----------------------|
| 8-5-112 | Tanks in Operation – maintenance and inspection | Y | |
| 8-5-301 | Storage Tank Control Requirements | Y | |
| 8-5-304 | Requirements for External Floating Roofs | Y | |
| 8-5-320 | Tank Fitting Requirements | Y | |
| 8-5-321 | Primary Seal Requirements | Y | |
| 8-5-322 | Secondary Seal Requirements | Y | |
| 8-5-328 | Tank Degassing Requirements | Y | |
| 8-5-401 | Inspection Requirements for External Floating Roof | Y | |
| 8-5-404 | Certification | Y | |
| 8-5-405 | Information Required | Y | |
| 8-5-501 | Records | Y | |
| 8-5-502 | Tank Degassing Annual Source Test Requirement | Y | |
| 8-5-503 | Portable Hydrocarbon Detector | Y | |
| Refinery MACT | NESHAP for Petroleum Refineries REQUIREMENTS FOR EXTERNAL FLOATING ROOF TANKS ALSO SUBJECT TO NSPS Kb | | |
| 63.640(n) | Which rule governs for storage vessels subject to both Refinery MACT and NSPS subpart Kb? 63.640(n)(1) NSPS subpart Kb | Y | |
| | Does Refinery MACT provide for EFR secondary seals to be pulled back or temporarily removed during NSPS Kb inspections of the primary seal? 63.640(n)(8)(i) YES | Y | |
| | Does Refinery MACT provide for delay of NSPS Kb seal gap measurements due to unsafe conditions? 63.640(n)(8)(ii) YES – up to 30 days, or empty the tank within 45 days | Y | |
| | Does Refinery MACT provide for extensions of time to perform NSPS Kb inspections of unsafe tanks? 63.640(n)(8)(iii) YES – up to 2 extensions of 30 days each | Y | |
| | Does Refinery MACT provide for extensions of time to repair defects found during NSPS Kb inspections? 63.640(n)(8)(iii) YES – up to 2 extensions of 30 days each | Y | |

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Source-specific Applicable Requirements
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S1006 - TANK 1006, S2013 - TANK 12467,
S4310 - TANK13285 SOUR WATER,
S17095 – TANK 17095

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------------|---|-----------------------------|-----------------------|
| | Does Refinery MACT provide for waiving the NSPS Kb prior-request requirement for extensions of time? 63.640(n)(8)(iii) YES | Y | |
| | Does Refinery MACT provide for submitting NSPS Kb documentation of the need for an extension with the next semi-annual periodic report? 63.640(n)(8)(iv) YES | Y | |
| | Does Refinery MACT provide for submitting reports of NSPS Kb inspection failures on the semi-annual periodic report schedule? 63.640(n)(8)(v) YES | Y | |
| | Does Refinery MACT provide for not reporting the results of NSPS Kb inspections when there was no out-of-compliance (i.e., recordkeeping only)? 63.640(n)(8)(vi) YES | Y | |
| NSPS Subpart Kb | Volatile Organic Liquid Storage Vessels REQUIREMENTS FOR EXTERNAL FLOATING ROOF TANKS | | |
| 60.112b(a) | EFR Rim Seals: vapor-mounted primary seal: 60.112b(a)(2)(i) Not Allowed liquid-mounted primary seal: OK with rim-mounted secondary mechanical-shoe primary seal: OK with rim-mounted secondary | Y | |
| | Must the completely cover the annular space between the edge of the floating roof and tank wall? 60.112b(a)(2)(i)(A) YES | Y | |
| | Must vapor-mounted rim seals be continuous on EFRs? 60.112b(a)(2)(i)(B) YES | Y | |
| | Deck openings (wells) other than for vents, drains, or legs to have covers that are kept closed except for access? 60.112b(a)(2)(ii) REQUIRED * | Y | |
| | EFR well covers to be gasketed? 60.112b(a)(2)(ii) REQUIRED | Y | |

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S4310 - TANK13285 SOUR WATER,
S17095 – TANK 17095

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------------|---|-----------------------------|-----------------------|
| | EFR vents to be gasketed? 60.112b(a)(2)(ii) REQUIRED | Y | |
| | EFR deck openings other than for vents to project into liquid? 60.112b(a)(2)(ii) REQUIRED | Y | |
| | EFR rim space vents to remain closed except when the pressure setting is exceeded? 60.112b(a)(2)(ii) REQUIRED | Y | |
| | EFR automatic bleeder vent (vacuum breaker) to be closed except when the deck is landed? 60.112b(a)(2)(ii) REQUIRED | Y | |
| | EFR emergency roof drains to have seals covering at least 90% of the opening? 60.112b(a)(2)(ii) REQUIRED | Y | |
| | EFR guidepole wells to have a deck cover gasket and a pole wiper? 60.112b(a)(2)(ii) guidepole requirements are specified in FR notices 65 FR 2336 (01/14/00) 65 FR 19891(04/13/00) | Y | |
| | EFRT unslotted guidepoles to have a gasketed cap at the top of the pole? 60.112b(a)(2)(ii) Required per FR notices 65 FR 2336 (01/14/00) 65 FR 19891(04/13/00) | Y | |
| | EFRT slotted guidepoles to have either an internal float or a pole sleeve? 60.112b(a)(2)(ii) Required per FR notices 65 FR 2336 (01/14/00) 65 FR 19891(04/13/00) | Y | |
| | EFRT operating requirements: When landing the floating roof on its support legs, is the tank to be emptied & either refilled or degassed as soon as possible? 60.112b(a)(2)(iii) YES | Y | |
| | Temporary exemption from operating requirements while the external floating roof is landed on its support legs? * 60.112b(a)(2)(iii) EXEMPT | Y | |

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Source-specific Applicable Requirements
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S17095 – TANK 17095

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------------|---|-----------------------------|-----------------------|
| 60.113b(b) | Notification of Inspections: Are notifications of inspections to demonstrate initial compliance required, For EFR seal gap measurements: 60.113b(b)(1) & (5) Required- notifications&reports per Ongoing Reports | Y | |
| | Seal Gap Measurements: FREQUENCY AFTER INITIAL COMPLIANCE, For the EFR Primary Seal: 60.113b(b)(1)(i) every 5 years | Y | |
| | Seal Gap Measurements: For new EFRTs: 60.113b(b)(1)(i) &(ii) measure gaps of both seals within 60 days after initial fill | Y | |
| | Seal Gap Measurements: FREQUENCY AFTER INITIAL COMPLIANCE, For the EFR Secondary Seal: 60.113b(b)(1)(ii) annually | Y | |
| | Seal Gap Measurements: For EFRTs returned to affected service after 1 year or more of exempt service: 60.113b(b)(1)(iii) measure gaps of both seals within 60 days | Y | |
| | MEASUREMENT COND'S: Are EFR seal gap measurements to be made with the roof floating? 60.113b(b)(2)(i) YES | Y | |
| | DETERMINATION OF EFR RIM-SEAL GAP AREAS: Presence of a gap determined by inserting a 1/8 in. probe? 60.113b(b)(2)(ii) YES | Y | |
| | DETERMINATION OF EFR RIM-SEAL GAP AREAS: Use probes of various widths to determine the gap area? 60.113b(b)(2)(iii) YES | Y | |
| | DETERMINATION OF EFR RIM-SEAL GAP AREAS: Sum the gap areas & divide by the diameter of the tank? 60.113b(b)(3) YES | Y | |

IV. Source Specific Applicable Requirements

Table IV – U
Source-specific Applicable Requirements
External Floating Roof Tanks
S1006 - TANK 1006, S2013 - TANK 12467,
S4310 - TANK13285 SOUR WATER,
S17095 – TANK 17095

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------------|--|--|-----------------------|
| | EFRT REPAIRS: Time allowed for repair of defects found during in-service inspections of EFRs: If unable to repair, empty the EFRT & remove from service? | 60.113b(b)(4) make repairs within 45 days 60.113b(b)(4) YES, within 45 days | |
| | EFR Primary Seal Gap Inspection Criteria: maximum area: maximum gap width: | 60.113b(b)(4)(i) 10 in² per foot of vessel diameter. 1.5 in. | |
| | Shall there be no holes, tears, or openings in the EFR seals? | 60.113b(b)(4)(i) & (ii) YES | |
| | Is the metallic shoe of an EFR mechanical-shoe seal required to have its bottom in the liquid and extend at least 24 in. above the liquid? | 60.113b(b)(4)(i)(A) YES | |
| | Must there be no hole, tears, or other openings in the shoe, seal fabric or seal envelope? | 60.113b(b)(4)(i)(B) YES | |
| | Must the secondary seal be installed above the primary seal so that it completely covers the space between the roof edge and the tank wall? | 60.113b(b)(4)(ii)(A) YES except as provided in (b)(2)(iii) | |
| | EFR Secondary Seal Gap Inspection Criteria: maximum area: maximum gap width: | 60.113b(b)(4)(ii)(B) 1 in² per foot of vessel diameter. 0.5 in. | |
| | Must there be no hole, tears, or other openings in the seal or seal fabric? | 60.113b(b)(4)(ii)(C) YES | |
| | Are EFR rim seals allowed to be pulled back or temporarily removed during inspection? | 60.113b(b)(4)(ii)(B) not addressed * | |

IV. Source Specific Applicable Requirements

Table IV – U
Source-specific Applicable Requirements
External Floating Roof Tanks
S1006 - TANK 1006, S2013 - TANK 12467,
S4310 - TANK13285 SOUR WATER,
S17095 – TANK 17095

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------------|---|-----------------------------|-----------------------|
| | EXTENSIONS OF TIME: If EFRT defects cannot be repaired & the tank cannot be emptied within 45 days? 60.113b(b)(4)(iii) 1 extension of 30 days, if needed * | Y | |
| | Periodic Reports: EFR report to include a prior request for 30-day extension, with documentation of need? 60.113b(b)(4)(iii) required * | Y | |
| | Periodic Reports: Additional information to be included if an extension is utilized for an EFR: 60.113b(b)(4)(iii) document the reason for the extension * | Y | |
| | Notification of Inspections: Is 30-day notice required prior to EFR seal gap measurements? 60.113b(b)(5) REQUIRED | Y | |
| | EFR Internal Inspections: up-close visual inspection of the floating roof, seals, & fittings: 60.113b(b)(6) each time the tank is emptied & degassed | Y | |
| | Notification of Inspections: Are notifications of inspections to demonstrate initial compliance required, For EFR internal inspections: 60.113b(b)(6) internal inspection not required for initial compl | Y | |
| | EFRT REPAIRS: Repair of defects if the tank is empty? 60.113b(b)(6)(i) prior to refilling | Y | |
| | Notification of Inspections: Is 30-day notice required for internal inspections of EFRTs (i.e., prior to filling or refilling); but a 7-day verbal notice acceptable if the event is unplanned? 60.113b(b)(6)(ii) REQUIRED | Y | |
| 60.115b | Recordkeeping for inspections: Keep inspection reports as specified. 60.115b Keep for 2 years | Y | |

IV. Source Specific Applicable Requirements

Table IV – U
Source-specific Applicable Requirements
External Floating Roof Tanks
S1006 - TANK 1006, S2013 - TANK 12467,
S4310 - TANK13285 SOUR WATER,
S17095 – TANK 17095

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------------|--|-----------------------------|-----------------------|
| 60.115b(b) | EFRT report to include: 60.115b(b)(1) description of control equipment | Y | |
| | Periodic Reports: Report EFR seal gap inspections if there was no out-of-compliance? 60.115b(b)(2) Required within 60 days of inspection * | Y | |
| | Records of EFR inspection reports: 60.115b(b)(3) EFR seal gap measurements | Y | |
| | Periodic Reports: Report EFR seal gap inspections when there is out-of-compliance? 60.115b(b)(4) Required within 30 days of inspection * | Y | |
| | Periodic Reports: Report of EFR inspection failures to include: 60.115b(b)(4) date of inspection, identification of tank, description of failure, & date of repair or emptying | Y | |
| 60.116b(a) | Applicability records: Time period for keeping records of applicability determination, unless specified otherwise. 60.116b(a) Keep for 2 years | Y | |
| 60.116b(b) | Applicability records: Records of dimensions & capacity required for nonexempt tanks? 60.116b(b) Required Keep record readily accessible for the life of the tank | Y | |
| 60.116b(c) | Applicability records: Additional recordkeeping requirements for certain tanks. 60.116b(c) identification & TVP of the stored product, if capacity ≥ 20,000 gallons and TVP ≥ 2.2, OR capacity ≥ 40,000 gallons and TVP ≥ 0.51 Keep record as long as the tank is in that service | Y | |
| 60.116b(e) | True vapor pressure (TVP) determination for applicability: 60.116b(e) maximum TVP of the stored liquid, based on highest calendar month average storage temperature | Y | |

IV. Source Specific Applicable Requirements

Table IV – U
Source-specific Applicable Requirements
External Floating Roof Tanks
S1006 - TANK 1006, S2013 - TANK 12467,
S4310 - TANK13285 SOUR WATER,
S17095 – TANK 17095

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|--------------------------------|--|-----------------------------|-----------------------|
| NSPS Subpart A | New Source Performance Standards GENERAL PROVISIONS | | |
| 60.7(a) | Initial Notification: Is initial notification of the source's existence required? 60.7(a)(1) notification within 30 days after begin construction | Y | |
| | Report (document) having initially achieved compliance? 60.7(a)(3) 60.115b(a)(1) & (b)(1) within 15 days after initial fill | Y | |
| | Notification of Compliance Status report: 60.7(a)(3) [cf. 60.115b(a)(1)&(b)(1)] notification within 15 days after startup | Y | |
| | Initial Notification: Is initial notification required if tank becomes affected only as a result of a modification? 60.7(a)(4) notification 60 days or as soon as practicable before the change | Y | |
| 60.7(f) | General recordkeeping requirements: Time period for keeping records, unless specified otherwise. 60.7(f) Keep all reports & notifications for 2 years | Y | |
| | General recordkeeping requirements: Keep all reports and notification for the specified period of time. 60.7(f) required | Y | |
| 60.14(g) | Achieve compliance for: <u>New Tanks</u> (or tanks that become affected as a result of a change or modification)? 60.14(g) up to 180 d. after modifications (otherwise prior to fill) | Y | |
| BAAQMD Condition # 6503 | <u>Applies to S2013</u> | | |
| <u>Part 1</u> | <u>Annual throughput limit [basis: Cumulative Increase]</u> | <u>Y</u> | |
| <u>Part 2</u> | <u>Material storage limit [basis: Cumulative Increase]</u> | <u>N</u> | |
| <u>Part 3</u> | <u>Recordkeeping [basis: Cumulative Increase]</u> | <u>Y</u> | |
| <u>Part 5</u> | <u>Specification requirements [basis: Cumulative Increase, BACT/TBACT]</u> | <u>Y</u> | |

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IV. Source Specific Applicable Requirements

Table IV – U
Source-specific Applicable Requirements
External Floating Roof Tanks
S1006 - TANK 1006, S2013 - TANK 12467,
S4310 - TANK13285 SOUR WATER,
S17095 – TANK 17095

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|--|-----------------------------|-----------------------|
| BAAQMD Condition # 12271 | Applies to S4310 | | |
| Part A | Monthly and annual emission limits [basis: Offsets, Cumulative Increase] | Y | |
| Part B | Applicable sources [basis: Offsets, Cumulative Increase] | Y | |
| Part C | In the case of a process upset or other irregularity [basis: Offsets, Cumulative Increase] | N | |
| Part L | Recordkeeping [basis: BACT, Offsets, Cumulative Increase] | Y | |
| Part M | Monthly reports [basis: Offsets, Cumulative Increase] | Y | |
| Part O | Offsets requirements [basis: Offsets] | Y | |
| Part 47 | Equipment specification [basis: BACT] | Y | |
| Part 51 | Degassing abatement requirements [basis: BACT] | Y | |
| BAAQMD Condition # 17648 | Applies to S1006 and S2013 | | |
| Part 1 | Slotted guidepole equipment requirements (basis: STERPP) | Y | |
| Part 2 | Slotted guidepole operating requirements (basis: STERPP) | Y | |
| Part 3 | Visual inspection requirements (basis: STERPP) | Y | |
| Part 4 | Out of service (basis: STERPP) | Y | |
| BAAQMD Condition # 18618 | Applies to S1006 | | |
| Part 1 | Throughput limit (basis: Regulation 2-1-234.3) | N | |
| Part 2 | Recordkeeping (basis: Regulation 2-1-234.3) | N | |
| Condition # 20042 | Applies to S17095 | | |
| Part 1 | Throughput limit [basis: Cumulative Increase] | Y | |
| Part 2 | Design Requirements [basis: BACT, Cumulative Increase] | Y | |
| Part 3 | Recordkeeping [basis: Cumulative Increase] | Y | |

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IV. Source Specific Applicable Requirements

Table IV—W
Source-specific Applicable Requirements
~~S1006 – TANK 1006, S2013 – TANK 12467, S2445 – TANK 12445, S2446 – TANK 12446,~~
~~S4322 – TANK 14571 SOUR WATER~~

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---------------------------------|---|-----------------------------|-----------------------|
| | For S1006 & S2013, See Table IV—U for additional requirements. For S2445 & S2446, See Table IV—R & CN for additional requirements. For S4322, See Table IV—R & DB for additional requirements. | | |
| BAAQMD Condition # 17648 | | | |
| Part 1 | Slotted guidepole equipment requirements (basis: STERPP) | Y | |
| Part 2 | Slotted guidepole operating requirements (basis: STERPP) | Y | |
| Part 3 | Visual inspection requirements (basis: STERPP) | Y | |
| Part 4 | Out of service (basis: STERPP) | Y | |

TABLE IV – Y
SOURCE-SPECIFIC APPLICABLE REQUIREMENTS
EXTERNAL FLOATING ROOF TANKS
S1063 - TANK 1063 ETP 1, S1067 – TANK 1067 ETP 1

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|----------------------------|--|-----------------------------|-----------------------|
| BAAQMD Reg 8 Rule 5 | Organic Compounds - STORAGE OF ORGANIC LIQUIDS (10/18/06) | | |
| 8-5-111 | Tank Removal From and Return to Service | N | |
| 8-5-111.1 | Notification | N | |
| 8-5-111.2 | Tank in compliance at time of notification | N | |
| 8-5-111.3 | Filling, emptying, refilling floating roof tanks | NY | |
| 8-5-111.5 | Minimize emissions and, if required, degas per 8-5-328 | N | |
| 8-5-111.6 | Self report if out of compliance during exemption period | N | |
| 8-5-112 | Tanks in Operation – maintenance and inspection | N | |

IV. Source Specific Applicable Requirements

TABLE IV – Y
SOURCE-SPECIFIC APPLICABLE REQUIREMENTS
EXTERNAL FLOATING ROOF TANKS
S1063 - TANK 1063 ETP 1, S1067 – TANK 1067 ETP 1

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------------|---|-----------------------------|-----------------------|
| 8-5-112.1 | <u>Notification</u> | N | |
| 8-5-112.2 | <u>Tank in compliance at time of notification</u> | N | |
| 8-5-112.3 | <u>No product movement. Minimize emissions</u> | NY | |
| 8-5-112.4 | <u>Tanks in Operation – maintenance and inspection; Not to exceed 7 days</u> | N | |
| 8-5-112.5 | <u>Self report if out of compliance during exemption period</u> | N | |
| 8-5-112.6 | <u>Keep records for each exemption</u> | N | |
| 8-5-119 | <u>Limited Exemption, Repair Period for Enhanced Monitoring Program</u> | N | |
| 8-5-119.1 | <u>Standards allowed under the limited exemption</u> | N | |
| 8-5-119.2 | <u>Conditions required to be eligible for limited exemption</u> | N | |
| 8-5-119.3 | <u>Report within 60 days of using the exemption</u> | N | |
| 8-5-301 | <u>Storage Tank Control Requirements</u> | N | |
| 8-5-304 | <u>Requirements for External Floating Roof Tanks</u> | N | |
| 8-5-320 | <u>Floating Roof Tank Fitting Requirements</u> | N | |
| 8-5-321 | <u>Primary seal requirements</u> | N | |
| 8-5-322 | <u>Secondary seal requirements</u> | N | |
| 8-5-328 | <u>Tank Degassing Requirements</u> | N | |
| 8-5-328.1 | <u>Tank degassing requirements; Tanks > 75 cubic meters</u> | N | |
| 8-5-328.2 | <u>Tank degassing requirements; Ozone Excess Day Prohibition</u> | N | |
| 8-5-328.3 | <u>Tank degassing requirements; BAAQMD notification required</u> | N | |
| 8-5-331 | <u>Tank cleaning requirements; 90% Abatement efficiency if abatement device used</u> | N | |
| 8-5-331.1 | <u>Tank cleaning requirements; Cleaning materials properties</u> | N | |
| 8-5-331.2 | <u>Tank cleaning requirements; Steam cleaning prohibition</u> | N | |
| 8-5-331.3 | <u>Tank cleaning requirements; Steam cleaning exceptions</u> | N | |
| 8-5-332 | <u>Sludge Handling Requirements (applies to sludge removed from any tank that was subject to BAAQMD 8-5 at any time since it was last put in service)</u> | N | |
| 8-5-332.1 | <u>Sludge Handling Requirements; sludge container no leaks</u> | N | |
| 8-5-332.2 | <u>Sludge Handling Requirements; sludge container gap requirements</u> | N | |
| 8-5-401 | <u>Inspection Requirements for External Floating Roof Tanks</u> | NY | |
| 8-5-401.1 | <u>Inspection Requirements for External Floating Roof Tank; Primary and Secondary Seal Inspections</u> | N | |

IV. Source Specific Applicable Requirements

TABLE IV – Y
SOURCE-SPECIFIC APPLICABLE REQUIREMENTS
EXTERNAL FLOATING ROOF TANKS
S1063 - TANK 1063 ETP 1, S1067 – TANK 1067 ETP 1

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|--|--|-----------------------------|-----------------------|
| 8-5-401.2 | Inspection Requirements for External Floating Roof Tank; Tank Fitting Inspections | N | |
| 8-5-411 | Enhanced Monitoring Program | N | |
| 8-5-411.1 | Submit list of all tanks at the facility subject to this rule and their capacity | N | |
| 8-5-411.2 | Subject tanks may be changed at any time with written notification to the APCO | N | |
| 8-5-411.3 | Operator shall perform enhanced monitoring as specified in Sections 8-5-401, 402, and 403 | N | |
| 8-5-501 | Records | N Y | |
| 8-5-501.1 | Records; Type and amount of liquid, type of blanket gas, TVP- Retain 24 months | N | |
| 8-5-501.2 | Records; Internal and External Floating Roof Tanks, Seal Replacement Records- Retain 10 years | N | |
| 8-5-501.3 | Records; Retention | N | |
| SIP BAAQMD Reg 8 Rule 5 | Organic Compounds – STORAGE OF ORGANIC LIQUIDS (6/5/03) | | |
| 8-5-111 | Tank Removal From and Return to Service | Y | |
| 8-5-112 | Tanks in Operation – maintenance and inspection | Y | |
| 8-5-301 | Storage Tank Control Requirements | Y | |
| 8-5-304 | Requirements for External Floating Roofs | Y | |
| 8-5-320 | Tank Fitting Requirements | Y | |
| 8-5-321 | Primary Seal Requirements | Y | |
| 8-5-322 | Secondary Seal Requirements | Y | |
| 8-5-328 | Tank Degassing Requirements | Y | |
| 8-5-401 | Inspection Requirements for External Floating Roof | Y | |
| 8-5-404 | Certification | Y | |
| 8-5-405 | Information Required | Y | |
| 8-5-501 | Records | Y | |
| 8-5-502 | Tank Degassing Annual Source Test Requirement | Y | |
| 8-5-503 | Portable Hydrocarbon Detector | Y | |

IV. Source Specific Applicable Requirements

TABLE IV – Y
SOURCE-SPECIFIC APPLICABLE REQUIREMENTS
EXTERNAL FLOATING ROOF TANKS
S1063 - TANK 1063 ETP 1, S1067 – TANK 1067 ETP 1

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|--|--|-----------------------------|-----------------------|
| NESHAP 40 CFR 61 Subpart A | National Emission Standards for Hazardous Air Pollutants - General Provisions (3/16/95) | | |
| 61.01 | Lists of pollutants and applicability of part 61 | Y | |
| 61.04 | Address | Y | |
| 61.05 | Prohibited activities | Y | |
| 61.07 | Application for approval of construction or modification | Y | |
| 61.09 | Notification of startup | Y | |
| 61.10 | Source reporting and waiver request | Y | |
| 61.12 | Compliance with standards and maintenance requirements | Y | |
| 61.13 | Emission tests and waiver of emission tests | Y | |
| 61.14 | Monitoring requirements | Y | |
| 61.19 | Circumvention | Y | |
| NESHAP 40 CFR 61 Subpart FF; BAAQMD 11-12 | National Emission Standard for Benzene Waste Operations (3/7/90) | | |
| 61.350 | Delay of Repair | Y | |
| 61.351 | Alternative standards for tanks | Y | |
| 61.351(a) | Alternate to the standards for tanks specified in 61.343 | Y | |
| 61.351(a)(2) | An external floating roof meeting the requirements of 40CFR60.112b(a)(2) | Y | |
| 61.356 | Recordkeeping requirements | Y | |
| 61.356(k) | Comply with recordkeeping requirements in 40CFR60.115b | Y | |
| 61.357 | Reporting requirements | Y | |
| 61.357(f) | Comply with reporting requirements in 40CFR60.115b | Y | |
| MACT 40 CFR 63 Subpart CC | National Emissions Standards for Hazardous Air Pollutants from Petroleum Refineries (6/23/03/18/956/30/10) | Y | |
| 63.647 | Wastewater provisions | Y | |
| 63.647(a) | Owners/operators of Group 1 wastewater streams shall comply with section 61.340 to 61.355 of 40 CFR 61, subpart FF for each stream that meets the definition of 63.641 | Y | |

IV. Source Specific Applicable Requirements

TABLE IV – Y
SOURCE-SPECIFIC APPLICABLE REQUIREMENTS
EXTERNAL FLOATING ROOF TANKS
S1063 - TANK 1063 ETP 1, S1067 – TANK 1067 ETP 1

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|-----------------------------|--|-----------------------------|-----------------------|
| 63.654655 | Reporting and recordkeeping requirements | Y | |
| 63.654655(a) | Owners/operators subject to the wastewater provisions of 63.647 shall comply with the recordkeeping and reporting requirements of 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 | |
| 63.654655(i)(45) | All information required to be reported under 63.654655(a) through (h) shall be retained for 5 years. | Y | |

TABLE IV – AA
SOURCE-SPECIFIC APPLICABLE REQUIREMENTS
S1070 – TANK 1070

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---------------------------------|---|-----------------------------|-----------------------|
| | See Table IV – Ea for additional requirements. | | |
| BAAQMD Condition # 18153 | | | |
| Part 1 | Annual throughput limit [basis: Cumulative Increase] | Y | |
| Part 2a | Material storage limit [basis: Cumulative Increase] | Y | |
| Part 2b | Material storage limit [basis: Cumulative Increase] | Y | |
| Part 2ei | Material storage limit [basis: Cumulative Increase] | Y | |
| Part 2eii | Material storage limit [basis: Cumulative Increase, Toxics] | N | |
| Part 3 | Equipment requirement [basis: BACT, Cumulative Increase] | Y | |
| Part 4 | Recordkeeping [basis: Cumulative Increase] | Y | |

IV. Source Specific Applicable Requirements

TABLE IV—AB
SOURCE-SPECIFIC APPLICABLE REQUIREMENTS
S1072—TANK 1072

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|--------------------------------|---|-----------------------------|-----------------------|
| | See Table IV <u>J</u> & <u>K</u> for additional requirements. | | |
| BAAQMD Condition # 7382 | | | |
| Part 4 | Material storage requirement [basis: Cumulative Increase] | Y | |
| Part 5 | Annual throughput limit [basis: Cumulative Increase] | Y | |
| Part 6 | Recordkeeping [basis: Cumulative Increase] | Y | |

IV. Source Specific Applicable Requirements

Table IV – AC
Source-specific Applicable Requirements
External Floating Roof Tanks
S1077 - TANK 1411
S12490 – LOG TANK 12519 WASTEWATER ETP 1& 2
S12491 - LOG TANK 12520 WASTEWATER ETP 1&2

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|--------------------------------------|--|-----------------------------|-----------------------|
| BAAQMD Reg 8 Rule 5 | <u>Organic Compounds - STORAGE OF ORGANIC LIQUIDS</u> <u>(10/18/06)</u> | | |
| 8-5-111 | <u>Tank Removal From and Return to Service</u> | N | |
| 8-5-111.1 | <u>Notification</u> | N | |
| 8-5-111.2 | <u>Tank in compliance at time of notification</u> | N | |
| 8-5-111.3 | <u>Filling, emptying, refilling floating roof tanks</u> | NY | |
| 8-5-111.5 | <u>Minimize emissions and, if required, degas per 8-5-328</u> | N | |
| 8-5-111.6 | <u>Self report if out of compliance during exemption period</u> | N | |
| 8-5-112 | <u>Tanks in Operation – maintenance and inspection</u> | N | |
| 8-5-112.1 | <u>Notification</u> | N | |
| 8-5-112.2 | <u>Tank in compliance at time of notification</u> | N | |
| 8-5-112.3 | <u>No product movement, Minimize emissions</u> | NY | |
| 8-5-112.4 | <u>Tanks in Operation – maintenance and inspection; Not to exceed 7 days</u> | N | |
| 8-5-112.5 | <u>Self report if out of compliance during exemption period</u> | N | |
| 8-5-112.6 | <u>Keep records for each exemption</u> | N | |
| 8-5-119 | <u>Limited Exemption, Repair Period for Enhanced Monitoring Program</u> | N | |
| 8-5-119.1 | <u>Standards allowed under the limited exemption</u> | N | |
| 8-5-119.2 | <u>Conditions required to be eligible for limited exemption</u> | N | |
| 8-5-119.3 | <u>Report within 60 days of using the exemption</u> | N | |
| 8-5-301 | <u>Storage Tank Control Requirements</u> | N | |
| 8-5-304 | <u>Requirements for External Floating Roof Tanks</u> | N | |
| 8-5-320 | <u>Floating Roof Tank Fitting Requirements</u> | N | |
| 8-5-321 | <u>Primary seal requirements</u> | N | |
| 8-5-322 | <u>Secondary seal requirements</u> | N | |
| 8-5-328 | <u>Tank Degassing Requirements</u> | N | |
| 8-5-328.1 | <u>Tank degassing requirements; Tanks > 75 cubic meters</u> | N | |
| 8-5-328.2 | <u>Tank degassing requirements; Ozone Excess Day Prohibition</u> | N | |

IV. Source Specific Applicable Requirements

Table IV – AC
Source-specific Applicable Requirements
External Floating Roof Tanks
S1077 - TANK 1411
S12490 – LOG TANK 12519 WASTEWATER ETP 1& 2
S12491 - LOG TANK 12520 WASTEWATER ETP 1&2

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------------|---|-----------------------------|-----------------------|
| 8-5-328.3 | <u>Tank degassing requirements; BAAQMD notification required</u> | N | |
| 8-5-331 | <u>Tank cleaning requirements; 90% Abatement efficiency if abatement device used</u> | N | |
| 8-5-331.1 | <u>Tank cleaning requirements; Cleaning materials properties</u> | N | |
| 8-5-331.2 | <u>Tank cleaning requirements; Steam cleaning prohibition</u> | N | |
| 8-5-331.3 | <u>Tank cleaning requirements; Steam cleaning exceptions</u> | N | |
| 8-5-332 | <u>Sludge Handling Requirements (applies to sludge removed from any tank that was subject to BAAQMD 8-5 at any time since it was last put in service)</u> | N | |
| 8-5-332.1 | <u>Sludge Handling Requirements; sludge container no leaks</u> | N | |
| 8-5-332.2 | <u>Sludge Handling Requirements; sludge container gap requirements</u> | N | |
| 8-5-401 | <u>Inspection Requirements for External Floating Roof Tanks</u> | NY | |
| 8-5-401.1 | <u>Inspection Requirements for External Floating Roof Tank; Primary and Secondary Seal Inspections</u> | N | |
| 8-5-401.2 | <u>Inspection Requirements for External Floating Roof Tank; Tank Fitting Inspections</u> | N | |
| 8-5-411 | <u>Enhanced Monitoring Program</u> | N | |
| 8-5-411.1 | <u>Submit list of all tanks at the facility subject to this rule and their capacity</u> | N | |
| 8-5-411.2 | <u>Subject tanks may be changed at any time with written notification to the APCO</u> | N | |
| 8-5-411.3 | <u>Operator shall perform enhanced monitoring as specified in Sections 8-5-401, 402, and 403</u> | N | |
| 8-5-501 | <u>Records</u> | NY | |
| 8-5-501.1 | <u>Records; Type and amount of liquid, type of blanket gas, TVP- Retain 24 months</u> | N | |
| 8-5-501.2 | <u>Records; Internal and External Floating Roof Tanks, Seal Replacement Records- Retain 10 years</u> | N | |
| 8-5-501.3 | <u>Records; Retention</u> | N | |

IV. Source Specific Applicable Requirements

Table IV – AC
Source-specific Applicable Requirements
External Floating Roof Tanks
S1077 - TANK 1411
S12490 – LOG TANK 12519 WASTEWATER ETP 1& 2
S12491 - LOG TANK 12520 WASTEWATER ETP 1&2

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|--|-----------------------|
| SIP BAAQMD Reg 8 Rule 5 | Organic Compounds — STORAGE OF ORGANIC LIQUIDS (6/5/03) | | |
| 8-5-111 | Tank Removal From and Return to Service | Y | |
| 8-5-112 | Tanks in Operation – maintenance and inspection | Y | |
| 8-5-301 | Storage Tank Control Requirements | Y | |
| 8-5-304 | Requirements for External Floating Roofs | Y | |
| 8-5-320 | Tank Fitting Requirements | Y | |
| 8-5-321 | Primary Seal Requirements | Y | |
| 8-5-322 | Secondary Seal Requirements | Y | |
| 8-5-328 | Tank Degassing Requirements | Y | |
| 8-5-401 | Inspection Requirements for External Floating Roof | Y | |
| 8-5-404 | Certification | Y | |
| 8-5-405 | Information Required | Y | |
| 8-5-501 | Records | Y | |
| 8-5-502 | Tank Degassing Annual Source Test Requirement | Y | |
| 8-5-503 | Portable Hydrocarbon Detector | Y | |
| NSPS Subpart Kb | Volatile Organic Liquid Storage Vessels REQUIREMENTS FOR EXTERNAL FLOATING ROOF TANKS | Y | |
| 60.112b(a) | EFR Rim Seals: vapor-mounted primary seal: liquid-mounted primary seal: mechanical-shoe primary seal: | 60.112b(a)(2)(i) Not Allowed OK with rim-mounted secondary OK with rim-mounted secondary | Y |
| | Must the completely cover the annular space between the edge of the floating roof and tank wall? | 60.112b(a)(2)(i)(A) YES | Y |
| | Must vapor-mounted rim seals be continuous on EFRs? | 60.112b(a)(2)(i)(B) YES | Y |

IV. Source Specific Applicable Requirements

Table IV – AC
Source-specific Applicable Requirements
External Floating Roof Tanks
S1077 - TANK 1411
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S12491 - LOG TANK 12520 WASTEWATER ETP 1&2

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------------|---|-----------------------------|-----------------------|
| | Deck openings (wells) other than for vents, drains, or legs to have covers that are kept closed except for access? 60.112b(a)(2)(ii) REQUIRED * | Y | |
| | EFR well covers to be gasketed? 60.112b(a)(2)(ii) REQUIRED | Y | |
| | EFR vents to be gasketed? 60.112b(a)(2)(ii) REQUIRED | Y | |
| | EFR deck openings other than for vents to project into liquid? 60.112b(a)(2)(ii) REQUIRED | Y | |
| | EFR rim space vents to remain closed except when the pressure setting is exceeded? 60.112b(a)(2)(ii) REQUIRED | Y | |
| | EFR automatic bleeder vent (vacuum breaker) to be closed except when the deck is landed? 60.112b(a)(2)(ii) REQUIRED | Y | |
| | EFR emergency roof drains to have seals covering at least 90% of the opening? 60.112b(a)(2)(ii) REQUIRED | Y | |
| | EFR guidepole wells to have a deck cover gasket and a pole wiper? 60.112b(a)(2)(ii) guidepole requirements are specified in FR notices 65 FR 2336 (01/14/00) 65 FR 19891(04/13/00) | Y | |
| | EFRT unslotted guidepoles to have a gasketed cap at the top of the pole? 60.112b(a)(2)(ii) Required per FR notices 65 FR 2336 (01/14/00) 65 FR 19891(04/13/00) | Y | |
| | EFRT slotted guidepoles to have either an internal float or a pole sleeve? 60.112b(a)(2)(ii) Required per FR notices 65 FR 2336 (01/14/00) 65 FR 19891(04/13/00) | Y | |
| | EFRT operating requirements: When landing the floating roof on its support legs, is the tank to be emptied & either refilled or degassed as soon as possible? 60.112b(a)(2)(iii) YES | Y | |

IV. Source Specific Applicable Requirements

Table IV – AC
Source-specific Applicable Requirements
External Floating Roof Tanks
S1077 - TANK 1411
S12490 – LOG TANK 12519 WASTEWATER ETP 1& 2
S12491 - LOG TANK 12520 WASTEWATER ETP 1&2

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------------|---|-----------------------------|-----------------------|
| | Temporary exemption from operating requirements while the external floating roof is landed on its support legs? * 60.112b(a)(2)(iii) EXEMPT | Y | |
| 60.113b(b) | Notification of Inspections: Are notifications of Inspections to demonstrate initial compliance required, For EFR seal gap measurements: 60.113b(b)(1) & (5) Required- notifications&reports per Ongoing Reports | Y | |
| | Seal Gap Measurements: FREQUENCY AFTER INITIAL COMPLIANCE, For the EFR Primary Seal: 60.113b(b)(1)(I) every 5 years | Y | |
| | Seal Gap Measurements: For new EFRTs: 60.113b(b)(1)(i) &(ii) measure gaps of both seals within 60 days after initial fill | Y | |
| | Seal Gap Measurements: FREQUENCY AFTER INITIAL COMPLIANCE, For the EFR Secondary Seal: 60.113b(b)(1)(ii) annually | Y | |
| | Seal Gap Measurements: For EFRTs returned to affected service after 1 year or more of exempt service: 60.113b(b)(1)(iii) measure gaps of both seals within 60 days | Y | |
| | MEASUREMENT COND'S: Are EFR seal gap measurements to be made with the roof floating? 60.113b(b)(2)(I) YES | Y | |
| | DETERMINATION OF EFR RIM-SEAL GAP AREAS: Presence of a gap determined by inserting a 1/8 in. probe? 60.113b(b)(2)(ii) YES | Y | |
| | DETERMINATION OF EFR RIM-SEAL GAP AREAS: Use probes of various widths to determine the gap area? 60.113b(b)(2)(iii) YES | Y | |

IV. Source Specific Applicable Requirements

Table IV – AC
Source-specific Applicable Requirements
External Floating Roof Tanks
S1077 - TANK 1411
S12490 – LOG TANK 12519 WASTEWATER ETP 1& 2
S12491 - LOG TANK 12520 WASTEWATER ETP 1&2

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------------|--|-----------------------------|-----------------------|
| | DETERMINATION OF EFR RIM-SEAL GAP AREAS: Sum the gap areas & divide by the diameter of the tank? 60.113b(b)(3) YES | Y | |
| | EFRT REPAIRS: Time allowed for repair of defects found during in-service inspections of EFRs: 60.113b(b)(4) make repairs within 45 days If unable to repair, empty the EFRT & remove from service? 60.113b(b)(4) YES, within 45 days | Y | |
| | EFR Primary Seal Gap Inspection Criteria: 60.113b(b)(4)(I) Maximum area: 10 in2 per foot of vessel diameter. Maximum gap width: 1.5 in. | Y | |
| | Shall there be no holes, tears, or openings in the EFR seals? 60.113b(b)(4)(i) & (ii) YES | Y | |
| | Is the metallic shoe of an EFR mechanical-shoe seal required to have its bottom in the liquid and extend at least 24 in. above the liquid? 60.113b(b)(4)(i)(A) YES | Y | |
| | Must there be no hole, tears, or other openings in the shoe, seal fabric or seal envelope? 60.113b(b)(4)(i)(B) YES | Y | |
| | Must the secondary seal be installed above the primary seal so that it completely covers the space between the roof edge and the tank wall? 60.113b(b)(4)(ii)(A) YES except as provided in (b)(2)(iii) | Y | |
| | EFR Secondary Seal Gap Inspection Criteria: 60.113b(b)(4)(ii)(B) Maximum area: 1 in2 per foot of vessel diameter. Maximum gap width: 0.5 in. | Y | |
| | Must there be no hole, tears, or other openings in the seal or seal fabric? 60.113b(b)(4)(ii)(C) YES | Y | |

IV. Source Specific Applicable Requirements

Table IV – AC
Source-specific Applicable Requirements
External Floating Roof Tanks
S1077 - TANK 1411
S12490 – LOG TANK 12519 WASTEWATER ETP 1& 2
S12491 - LOG TANK 12520 WASTEWATER ETP 1&2

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------------|---|-----------------------------|-----------------------|
| | Are EFR rim seals allowed to be pulled back or temporarily removed during inspection? 60.113b(b)(4)(ii)(B) not addressed * | Y | |
| | EXTENSIONS OF TIME: If EFRT defects cannot be repaired & the tank cannot be emptied within 45 days? 60.113b(b)(4)(iii) 1 extension of 30 days, if needed * | Y | |
| | Periodic Reports: EFR report to include a prior request for 30-day extension, with documentation of need? 60.113b(b)(4)(iii) required * | Y | |
| | Periodic Reports: Additional information to be included if an extension is utilized for an EFR: 60.113b(b)(4)(iii) document the reason for the extension * | Y | |
| | Notification of Inspections: Is 30-day notice required prior to EFR seal gap measurements? 60.113b(b)(5) REQUIRED | Y | |
| | EFR Internal Inspections: up-close visual inspection of the floating roof, seals, & fittings: 60.113b(b)(6) each time the tank is emptied & degassed | Y | |
| | Notification of Inspections: Are notifications of inspections to demonstrate initial compliance required, For EFR internal inspections: 60.113b(b)(6) internal inspection not required for initial compl | Y | |
| | EFRT REPAIRS: Repair of defects if the tank is empty? 60.113b(b)(6)(i) prior to refilling | Y | |
| | Notification of Inspections: Is 30-day notice required for internal inspections of EFRTs (i.e., prior to filling or refilling); but a 7-day verbal notice acceptable if the event is unplanned? 60.113b(b)(6)(ii) REQUIRED | Y | |

IV. Source Specific Applicable Requirements

Table IV – AC
Source-specific Applicable Requirements
External Floating Roof Tanks
S1077 - TANK 1411
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S12491 - LOG TANK 12520 WASTEWATER ETP 1&2

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------------|---|-----------------------------|-----------------------|
| 60.115b | Recordkeeping for inspections: Keep inspection reports as specified. 60.115b Keep for 2 years | Y | |
| 60.115b(b) | EFRT report to include: 60.115b(b)(1) description of control equipment | Y | |
| | Periodic Reports: Report EFR seal gap inspections if there was no out-of-compliance? 60.115b(b)(2) Required within 60 days of inspection * | Y | |
| | Records of EFR inspection reports: 60.115b(b)(3) EFR seal gap measurements | Y | |
| | Periodic Reports: Report EFR seal gap inspections when there is out-of-compliance? 60.115b(b)(4) Required within 30 days of inspection * | Y | |
| | Periodic Reports: Report of EFR inspection failures to include: 60.115b(b)(4) date of inspection, identification of tank, description of failure, & date of repair or emptying | Y | |
| 60.116b(a) | Applicability records: Time period for keeping records of applicability determination, unless specified otherwise. 60.116b(a) Keep for 2 years | Y | |
| 60.116b(b) | Applicability records: Records of dimensions & capacity required for nonexempt tanks? 60.116b(b) Required Keep record readily accessible for the life of the tank | Y | |
| 60.116b(c) | Applicability records: Additional recordkeeping requirements for certain tanks. 60.116b(c) identification & TVP of the stored product, if capacity ≥ 20,000 gallons and TVP ≥ 2.2, OR capacity ≥ 40,000 gallons and TVP ≥ 0.51 Keep record as long as the tank is in that service | Y | |

IV. Source Specific Applicable Requirements

Table IV – AC
Source-specific Applicable Requirements
External Floating Roof Tanks
S1077 - TANK 1411
S12490 – LOG TANK 12519 WASTEWATER ETP 1& 2
S12491 - LOG TANK 12520 WASTEWATER ETP 1&2

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------------------|---|-----------------------------|-----------------------|
| 60.116b(e) | True vapor pressure (TVP) determination for applicability: 60.116b(e) maximum TVP of the stored liquid, based on highest calendar month average storage temperature | Y | |
| NSPS Subpart A | New Source Performance Standards GENERAL PROVISIONS | Y | |
| 60.7(a) | Initial Notification: Is initial notification of the source's existence required? 60.7(a)(1) notification within 30 days after begin construction | Y | |
| | Report (document) having initially achieved compliance? 60.7(a)(3) 60.115b(a)(1) & (b)(1) within 15 days after initial fill | Y | |
| | Notification of Compliance Status report: 60.7(a)(3) [cf. 60.115b(a)(1)&(b)(1)] notification within 15 days after startup | Y | |
| | Initial Notification: Is initial notification required if tank becomes affected only as a result of a modification? 60.7(a)(4) notification 60 days or as soon as practicable before the change | Y | |
| 60.7(f) | General recordkeeping requirements: Time period for keeping records, unless specified otherwise. 60.7(f) Keep all reports & notifications for 2 years | Y | |
| | General recordkeeping requirements: Keep all reports and notification for the specified period of time. 60.7(f) required | Y | |
| 60.14(g) | Achieve compliance for: <u>New Tanks</u> (or tanks that become affected as a result of a change or modification)? 60.14(g) up to 180 days after modifications (otherwise prior to fill) | Y | |
| NESHAP 40 CFR 61 Subpart FF; | National Emission Standard for Benzene Waste Operations (3/7/90) | Y | |

IV. Source Specific Applicable Requirements

Table IV – AC
Source-specific Applicable Requirements
External Floating Roof Tanks
S1077 - TANK 1411
S12490 – LOG TANK 12519 WASTEWATER ETP 1& 2
S12491 - LOG TANK 12520 WASTEWATER ETP 1&2

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|----------------------------------|--|-----------------------------|-----------------------|
| BAAQMD 11-12 | | | |
| 61.350 | Delay of repair | Y | |
| 61.351 | Alternative standards for tanks | Y | |
| 61.351(a) | Alternate to the standards for tanks specified in 61.343 | Y | |
| 61.351(a)(2) | An external floating roof meeting the requirements of 40CFR60.112b(a)(2) | Y | |
| 61.356 | Recordkeeping requirements | Y | |
| 61.356(k) | Comply with recordkeeping requirements in 40CFR60.115b | Y | |
| 61.357 | Reporting requirements | Y | |
| 61.357(f) | Comply with reporting requirements in 40CFR60.115b | Y | |
| MACT 40 CFR 63 Subpart CC | National Emissions Standards for Hazardous Air Pollutants from Petroleum Refineries 6/23/03 6/30/10 (8/18/95) | | |
| 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 | |
| 63.654-655 | Reporting and recordkeeping requirements | Y | |
| 63.654 655(a) | Owner/operators subject to the wastewater provisions of 63.647 shall comply with the recordkeeping and reporting requirements in 61.356 and 61.357 of 40 CFR part 61, subpart FF, unless they comply with those specified in paragraph (o)(2)(ii) of 63.640. 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 | |
| 63.654 655(i)(45) | All information required to be reported under 63.654-655 (a) through (h) shall be retained for 5 years. | Y | |
| Condition # 8502 | Applies to S12490 and S12491 | | |
| Part 1 | Level indicating device [basis: Cumulative Increase] | <u>Y</u> | |

IV. Source Specific Applicable Requirements

Table IV – AEa
Source-specific Applicable Requirements
Fixed Roof Tanks
S1114 - TANK 1114 SPENT ACID, S1115 - TANK 1115 SPENT ACID

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|-----------------------------|-----------------------|
| BAAQMD <u>Reg 8 Rule 5</u> | <u>Organic Compounds - STORAGE OF ORGANIC LIQUIDS</u> <u>(10/18/06)</u> | | |
| <u>8-5-111</u> | <u>Tank Removal From and Return to Service</u> | <u>N</u> | |
| <u>8-5-111.1</u> | <u>Notification</u> | <u>N</u> | |
| <u>8-5-111.2</u> | <u>Tank in compliance at time of notification</u> | <u>N</u> | |
| <u>8-5-111.4</u> | <u>Use vapor recovery during filling and emptying tanks so equipped</u> | <u>NY</u> | |
| <u>8-5-111.5</u> | <u>Minimize emissions and, if required, degas per 8-5-328</u> | <u>N</u> | |
| <u>8-5-111.6</u> | <u>Self report if out of compliance during exemption period</u> | <u>N</u> | |
| <u>8-5-112</u> | <u>Tanks in Operation – maintenance and inspection</u> | <u>N</u> | |
| <u>8-5-112.1</u> | <u>Notification</u> | <u>N</u> | |
| <u>8-5-112.2</u> | <u>Tank in compliance at time of notification</u> | <u>N</u> | |
| <u>8-5-112.3</u> | <u>No product movement, Minimize emissions</u> | <u>NY</u> | |
| <u>8-5-112.4</u> | <u>Tanks in Operation – maintenance and inspection; Not to exceed 7 days</u> | <u>N</u> | |
| <u>8-5-112.5</u> | <u>Self report if out of compliance during exemption period</u> | <u>N</u> | |
| <u>8-5-112.6</u> | <u>Keep records for each exemption</u> | <u>N</u> | |
| <u>8-5-118</u> | <u>Gas Tight Requirement for approved emission control system in 8-5-306.2</u> <u>does not apply if facility is subject to BAAQMD 8-18</u> | <u>N</u> | |
| <u>8-5-301</u> | <u>Storage Tank Control Requirements</u> | <u>N</u> | |
| <u>8-5-302</u> | <u>Requirements for Submerged Fill Pipes</u> | <u>YN</u> | |
| <u>8-5-303</u> | <u>Requirements for Pressure Vacuum Valve</u> | <u>N</u> | |
| <u>8-5-303.1</u> | <u>Requirements for Pressure Vacuum Valves; Set pressure</u> | <u>N</u> | |
| <u>8-5-303.2</u> | <u>Requirements for Pressure Vacuum Valves; Gas tight requirement</u> | <u>N</u> | |
| <u>8-5-306</u> | <u>Requirements for Approved Emission Control Systems</u> | <u>N</u> | |
| <u>8-5-306.1</u> | <u>Requirements for approved Emission Control System; Abatement</u> <u>Efficiency >=95%</u> | <u>N</u> | |
| <u>8-5-307</u> | <u>Requirements for fixed roof tanks, pressure tanks and blanketed tanks</u> | <u>N</u> | |
| <u>8-5-307.1</u> | <u>Requirements for fixed roof tanks, pressure tanks and blanketed tanks; no</u> <u>liquid leakage through shell</u> | <u>N</u> | |
| <u>8-5-328</u> | <u>Tank Degassing Requirements</u> | <u>N</u> | |
| <u>8-5-328.1</u> | <u>Tank degassing requirements; Tanks > 75 cubic meters</u> | <u>N</u> | |

IV. Source Specific Applicable Requirements

Table IV – AEa
Source-specific Applicable Requirements
Fixed Roof Tanks
S1114 - TANK 1114 SPENT ACID, S1115 - TANK 1115 SPENT ACID

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------------|---|-----------------------------|-----------------------|
| 8-5-328.2 | <u>Tank degassing requirements; Ozone Excess Day Prohibition</u> | N | |
| 8-5-328.3 | <u>Tank degassing requirements; BAAQMD notification required</u> | N | |
| 8-5-331 | <u>Tank cleaning requirements; 90% Abatement efficiency if abatement device used</u> | N | |
| 8-5-331.1 | <u>Tank cleaning requirements; Cleaning materials properties</u> | N | |
| 8-5-331.2 | <u>Tank cleaning requirements; Steam cleaning prohibition</u> | N | |
| 8-5-331.3 | <u>Tank cleaning requirements; Steam cleaning exceptions</u> | N | |
| 8-5-332 | <u>Sludge Handling Requirements (applies to sludge removed from any tank that was subject to BAAQMD 8-5 at any time since it was last put in service)</u> | N | |
| 8-5-332.1 | <u>Sludge Handling Requirements; sludge container no leaks</u> | N | |
| 8-5-332.2 | <u>Sludge Handling Requirements; sludge container gap requirements</u> | N | |
| 8-5-403 | <u>Inspection Requirements for Pressure Relief Devices</u> | N | |
| 8-5-403.1 | <u>Inspection Requirements for Pressure Relief Devices; Pressure vacuum valves gas tight standards in 8-5-303</u> | N | |
| 8-5-404 | <u>Inspection, Abatement Efficiency Determination and Source Test Reports</u> | N | |
| 8-5-501 | <u>Records</u> | N | |
| 8-5-501.1 | <u>Records; Type and amount of liquid, type of blanket gas, TVP- Retain 24 months</u> | N | |
| 8-5-501.3 | <u>Records; Retention</u> | N | |
| 8-5-501.4 | <u>Records; New pressure vacuum valve setpoints</u> | N | |
| 8-5-502 | <u>Annual Source Test Requirement and Exemption for Sources Vented to Fuel Gas</u> | N | |
| 8-5-502.1 | <u>Source Test Requirements; Annual source test for approved emission control systems and abatement devices for 8-5-303.2, 8-5-306.1, 8-5-307.3</u> | N | |
| 8-5-502.2 | <u>Source test requirements; Tank degassing and cleaning abatement devices</u> | N | |
| SIP | | | |
| BAAQMD | | | |
| Reg 8 Rule 5 | Organic Compounds – STORAGE OF ORGANIC LIQUIDS (6/5/03) | | |
| 8-5-111 | Tank Removal From and Return to Service | Y | |
| 8-5-112 | Tanks in Operation – maintenance and inspection | Y | |
| 8-5-301 | Storage Tank Control Requirements | Y | |
| 8-5-302 | <u>Requirements for Submerged Fill Pipes</u> | Y | |

IV. Source Specific Applicable Requirements

Table IV – AEa
Source-specific Applicable Requirements
Fixed Roof Tanks
S1114 - TANK 1114 SPENT ACID, S1115 - TANK 1115 SPENT ACID

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|--------------------------------|---|-----------------------------|-----------------------|
| 8-5-303 | Requirements for Pressure Vacuum Valve | Y | |
| 8-5-306 | Requirements for Approved Emission Control Systems | Y | |
| 8-5-328 | Tank Degassing Requirements | Y | |
| 8-5-403 | Inspection Requirements for Pressure Vacuum Valves | Y | |
| 8-5-404 | Certification | Y | |
| 8-5-501.1 | Records | Y | |
| 8-5-502 | Tank Degassing Annual Source Test Requirement | Y | |
| 8-5-503 | Portable Hydrocarbon Detector | Y | |
| Refinery MACT | NESHAP for Petroleum Refineries REQUIREMENTS FOR FIX ROOF TANKS-CONTROL DEVICE ALSO SUBJECT TO NSPS Kb | | |
| <u>63.640(n)</u> | Which rule governs for storage vessels subject to both Refinery MACT and NSPS subpart Kb? 63.640(n)(1) NSPS subpart Kb | Y | |
| NSPS Subpart Kb | Volatile Organic Liquid Storage Vessels REQUIREMENTS FOR FIXED ROOF TANK-CONTROL DEVICE | Y | |
| <u>60.112b(a)</u> | Closed vent system Performance requirements: 60.112b(a)(3)(i) no detectable emissions (i.e., < 500 ppm) | Y | |
| BAAQMD Condition # 7215 | | | |
| Part 1 | Abatement requirement [basis: Cumulative Increase] | Y | |
| Part 2 | Annual throughput limit [basis: Cumulative Increase] | Y | |
| Part 3 | Recordkeeping [basis: Cumulative Increase] | Y | |

Table IV – AEb
Source-specific Applicable Requirements
Fixed Roof Tank
S1805 TANK 12038

IV. Source Specific Applicable Requirements

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|----------------------------|---|-----------------------------|-----------------------|
| BAAQMD Reg 8 Rule 5 | Organic Compounds - STORAGE OF ORGANIC LIQUIDS (10/18/06) | | |
| 8-5-111 | <u>Tank Removal From and Return to Service</u> | N | |
| 8-5-111.1 | <u>Notification</u> | N | |
| 8-5-111.2 | <u>Tank in compliance at time of notification</u> | N | |
| 8-5-111.4 | <u>Use vapor recovery during filling and emptying tanks so equipped</u> | N Y | |
| 8-5-111.5 | <u>Minimize emissions and, if required, degas per 8-5-328</u> | N | |
| 8-5-111.6 | <u>Self report if out of compliance during exemption period</u> | N | |
| 8-5-112 | <u>Tanks in Operation – maintenance and inspection</u> | N | |
| 8-5-112.1 | <u>Notification</u> | N | |
| 8-5-112.2 | <u>Tank in compliance at time of notification</u> | N | |
| 8-5-112.3 | <u>No product movement, Minimize emissions</u> | N Y | |
| 8-5-112.4 | <u>Tanks in Operation – maintenance and inspection; Not to exceed 7 days</u> | N | |
| 8-5-112.5 | <u>Self report if out of compliance during exemption period</u> | N | |
| 8-5-112.6 | <u>Keep records for each exemption</u> | N | |
| 8-5-118 | <u>Gas Tight Requirement for approved emission control system in 8-5-306.2 does not apply if facility is subject to BAAQMD 8-18</u> | N | |
| 8-5-301 | <u>Storage Tank Control Requirements</u> | N | |
| 8-5-302 | <u>Requirements for Submerged Fill Pipes</u> | N | |
| 8-5-303 | <u>Requirements for Pressure Vacuum Valve</u> | N | |
| 8-5-303.1 | <u>Requirements for Pressure Vacuum Valves; Set pressure</u> | N | |
| 8-5-303.2 | <u>Requirements for Pressure Vacuum Valves; Gas tight requirement</u> | N | |
| 8-5-306 | <u>Requirements for Approved Emission Control Systems</u> | N | |
| 8-5-306.1 | <u>Requirements for approved Emission Control System; Abatement Efficiency >=95%</u> | N | |
| 8-5-307 | <u>Requirements for fixed roof tanks, pressure tanks and blanketed tanks</u> | N | |
| 8-5-307.1 | <u>Requirements for fixed roof tanks, pressure tanks and blanketed tanks; no liquid leakage through shell</u> | N | |
| 8-5-328 | <u>Tank Degassing Requirements</u> | N | |
| 8-5-328.1 | <u>Tank degassing requirements; Tanks > 75 cubic meters</u> | N | |
| 8-5-328.2 | <u>Tank degassing requirements; Ozone Excess Day Prohibition</u> | N | |
| 8-5-328.3 | <u>Tank degassing requirements; BAAQMD notification required</u> | N | |
| 8-5-331 | <u>Tank cleaning requirements; 90% Abatement efficiency if abatement device used</u> | N | |
| 8-5-331.1 | <u>Tank cleaning requirements; Cleaning materials properties</u> | N | |
| 8-5-331.2 | <u>Tank cleaning requirements; Steam cleaning prohibition</u> | N | |
| 8-5-331.3 | <u>Tank cleaning requirements; Steam cleaning exceptions</u> | N | |

IV. Source Specific Applicable Requirements

Table IV – AEb
Source-specific Applicable Requirements
Fixed Roof Tank
S1805 TANK 12038

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|--|---|-----------------------------|-----------------------|
| 8-5-332 | <u>Sludge Handling Requirements (applies to sludge removed from any tank that was subject to BAAQMD 8-5 at any time since it was last put in service)</u> | N | |
| 8-5-332.1 | <u>Sludge Handling Requirements; sludge container no leaks</u> | N | |
| 8-5-332.2 | <u>Sludge Handling Requirements; sludge container gap requirements</u> | N | |
| 8-5-403 | <u>Inspection Requirements for Pressure Relief Devices</u> | N | |
| 8-5-403.1 | <u>Inspection Requirements for Pressure Relief Devices; Pressure vacuum valves gas tight standards in 8-5-303</u> | N | |
| 8-5-404 | <u>Inspection, Abatement Efficiency Determination and Source Test Reports</u> | N | |
| 8-5-501 | <u>Records</u> | N Y | |
| 8-5-501.1 | <u>Records; Type and amount of liquid, type of blanket gas, TVP- Retain 24 months</u> | N | |
| 8-5-501.3 | <u>Records; Retention</u> | N | |
| 8-5-501.4 | <u>Records; New pressure vacuum valve setpoints</u> | N | |
| 8-5-502 | <u>Annual Source Test Requirement and Exemption for Sources Vented to Fuel Gas</u> | N | |
| 8-5-502.1 | <u>Source Test Requirements; Annual source test for approved emission control systems and abatement devices for 8-5-303.2, 8-5-306.1, 8-5-307.3</u> | N | |
| 8-5-502.2 | <u>Source test requirements; Tank degassing and cleaning abatement devices</u> | N | |
| SIP BAAQMD Reg 8 Rule 5 | Organic Compounds – STORAGE OF ORGANIC LIQUIDS (6/5/03) | | |
| 8-5-111 | Tank Removal From and Return to Service | Y | |
| 8-5-112 | Tanks in Operation – maintenance and inspection | Y | |
| 8-5-301 | Storage Tank Control Requirements | Y | |
| 8-5-302 | Requirements for Submerged Fill Pipes | Y | |
| 8-5-303 | Requirements for Pressure Vacuum Valve | Y | |
| 8-5-306 | Requirements for Approved Emission Control Systems | Y | |
| 8-5-328 | Tank Degassing Requirements | Y | |
| 8-5-403 | Inspection Requirements for Pressure Vacuum Valves | Y | |
| 8-5-404 | Certification | Y | |
| 8-5-501.1 | Records | Y | |
| 8-5-502 | Tank Degassing Annual Source Test Requirement | Y | |

IV. Source Specific Applicable Requirements

Table IV – AEb
Source-specific Applicable Requirements
Fixed Roof Tank
S1805 TANK 12038

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------------------|--|-----------------------------|-----------------------|
| 8-5-503 | Portable Hydrocarbon Detector | Y | |
| Refinery MACT | NESHAP for Petroleum Refineries REQUIREMENTS FOR FIX ROOF TANKS-CONTROL DEVICE ALSO SUBJECT TO NSPS Kb | | |
| 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 | |
| 63.654 -655 | Reporting and recordkeeping requirements | Y | |
| 63.654 655(a) | Owner/operators subject to the wastewater provisions of 63.647 shall comply with the recordkeeping and reporting requirements in 61.356 and 61.357 of 40 CFR part 61, subpart FF, unless they comply with those specified in paragraph (o)(2)(ii) of 63.640. 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 | |
| 63.654 655(i) | Recordkeeping | Y | |
| 63.654 655(i)(45) | All information required to be reported under 63.654655(a) through (h) shall be retained for 5 years. | Y | |
| NSPS Subpart Kb | Volatile Organic Liquid Storage Vessels REQUIREMENTS FOR FIXED ROOF TANK-CONTROL DEVICE | | |
| 60.116b(a) | Applicability records: Time period for keeping records of applicability determination, unless specified otherwise. 60.116b(a) Keep for 2 years | Y | |
| 60.116b(b) | Applicability records: Records of dimensions & capacity required for nonexempt tanks? 60.116b(b) Required Keep record readily accessible for the life of the tank | Y | |
| NSPS Subpart A | New Source Performance Standards GENERAL PROVISIONS | Y | |
| 60.7(a) | Initial Notification: Is initial notification of the source's existence required? 60.7(a)(1) notification within 30 days after begin construction | Y | |
| | Report (document) having initially achieved compliance? 60.7(a)(3) 60.115b(a)(1) & (b)(1) within 15 days after initial fill | Y | |

IV. Source Specific Applicable Requirements

Table IV – AEb
Source-specific Applicable Requirements
Fixed Roof Tank
S1805 TANK 12038

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|--|--|-----------------------------|-----------------------|
| | Notification of Compliance Status report: 60.7(a)(3) [cf. 60.115b(a)(1)&(b)(1)] notification within 15 days after startup | Y | |
| | Initial Notification: Is initial notification required if tank becomes affected only as a result of a modification? 60.7(a)(4) notification 60 days or as soon as practicable before the change | Y | |
| 60.7(f) | General recordkeeping requirements: Time period for keeping records, unless specified otherwise. 60.7(f) Keep all reports & notifications for 2 years | Y | |
| | General recordkeeping requirements: Keep all reports and notification for the specified period of time. 60.7(f) required | Y | |
| 60.14(g) | Achieve compliance for: <u>New Tanks</u> (or tanks that become affected as a result of a change or modification)? 60.14(g) up to 180 d. after modifications (otherwise prior to fill) | Y | |
| NESHAP 40 CFR 61 Subpart FF; BAAQMD 11-12 | National Emission Standard for Benzene Waste Operations (3/7/90) | | |
| 61.343 | Standards: Tanks | Y | |
| 61.343(a)(1) | Owner/operator shall install, operate, and maintain a fixed-roof and closed-vent system that routes all organic vapors vented from the tank to a control device. | Y | |
| 61.343(a)(1)(i) | Fixed Roof leak requirements - < 500 ppmv above background, determined initially then annually by method in 61.355(h) of this subpart. | Y | |
| 61.343(b) | For a tank that meets all of the conditions of paragraph (b)(1), the owner/operator may elect to comply with paragraph (b)(2) as an alternative to the requirements of (a)(1). | Y | |
| 61.343(c) | Inspect all fixed-roof, seal, access doors, and all other openings visually initially and quarterly for cracks and gaps and that doors and openings are closed and gasketed properly. | Y | |

IV. Source Specific Applicable Requirements

Table IV – AEb
Source-specific Applicable Requirements
Fixed Roof Tank
S1805 TANK 12038

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---------------------------|--|-----------------------------|-----------------------|
| 61.343(d) | When a broken seal or gasket is identified, or when detectable emissions are measured, first efforts at repair shall be made as soon as practicable, but not later than 45 calendar days after identification. | Y | |
| 61.349 | Standards: Closed vent systems and control devices | Y | |
| 61.349(a) | Closed vent system and control device | Y | |
| 61.349(a)(1) | Closed vent system requirements | Y | |
| 61.349(a)(2)(i j) | Vapor recovery system (e.g. carbon adsorption system) recovers or controls organic emissions with an efficiency of 95% by weight | Y | |
| 61.349(b) | Operated at all times except maintenance or repair. | Y | |
| 61.349(f) | Visible inspection and repair | Y | |
| 61.349(g) | Visually inspected quarterly | Y | |
| 61.349(h) | Monitor control device in accordance with 61.354(c) | Y | |
| 61.350 | Delay of Repair | Y | |
| 61.354 | Monitoring of operations | Y | |
| 61.354(c) | Monitoring of operations for control devices | Y | |
| 61.354(c)(8) | Monitoring for carbon adsorption | Y | |
| 61.354(d) | Replace carbon immediately when carbon breakthrough is indicated. | Y | |
| 61.355 | Test methods, procedures and compliance provisions | Y | |
| 61.355(h) | Leak inspection procedures | Y | |
| 61.356 | Recordkeeping requirements | Y | |
| 61.356(d) | recordkeeping and retention requirements | Y | |
| 61.356(h) | waste stream records | Y | |
| 61.357 | Reporting requirements | Y | |
| 61.357(d) | reporting requirements for facilities with 10 Mg/yr or more total benzene in waste | Y | |
| 61.357(d)(8) | Reporting requirements | Y | |
| <u>BAAQMD</u> | | | |
| <u>Condition #</u> | | | |
| <u>4298</u> | | | |
| <u>Part 1</u> | <u>Annual throughput limit [basis: Cumulative Increase]</u> | <u>Y</u> | |
| <u>Part 2</u> | <u>Vented to A1805 [basis: 40CFR61, Section 61.343(a) and (b)]</u> | <u>Y</u> | |
| <u>Part 3</u> | <u>Monitoring of A1805 [basis: 40CFR61, Section 61.343(a) and (b)]</u> | <u>Y</u> | |
| <u>Part 4</u> | <u>Recordkeeping of Monitoring for A1805 [basis: 40CFR61, Section 61.343(a) and (b)]</u> | <u>Y</u> | |

IV. Source Specific Applicable Requirements

Table IV – AEb
Source-specific Applicable Requirements
Fixed Roof Tank
S1805 TANK 12038

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|--------------------------------|---|-----------------------------|-----------------------|
| Part 5 | Changeout of primary carbon vessel [basis: 40CFR61, Section 61.343(a) and (b) & Equilon Consent Decree, paragraphs 55 & 59] | Y | |
| Part 6 | Changeout of secondary carbon vessel [basis: 40CFR61, Section 61.343(a) and (b) & Equilon Consent Decree, paragraphs 55 & 59] | Y | |
| Part 7 | Recordkeeping of changeout [basis: 40CFR61, Section 61.343(a)] | Y | |
| Part 8 | Recordkeeping of throughput limit [basis: Cumulative Increase] | Y | |
| BAAQMD Condition # 7215 | | | |
| Part 1 | Abatement requirement [basis: Cumulative Increase] | N | |
| Part 2 | Annual throughput limit [basis: Cumulative Increase] | N | |
| Part 3 | Recordkeeping [basis: Cumulative Increase] | N | |

Table IV – AEc
Source-specific Applicable Requirements
Fixed Roof Tanks
S13 – TANK 13, S4334 – TANK 13276 ALKYLATE

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|----------------------------|--|-----------------------------|-----------------------|
| BAAQMD Reg 8 Rule 5 | Organic Compounds - STORAGE OF ORGANIC LIQUIDS (10/18/06) | | |
| 8-5-111 | Tank Removal From and Return to Service | N | |
| 8-5-111.1 | Notification | N | |
| 8-5-111.2 | Tank in compliance at time of notification | N | |
| 8-5-111.4 | Use vapor recovery during filling and emptying tanks so equipped | N | |
| 8-5-111.5 | Minimize emissions and, if required, degas per 8-5-328 | N | |
| 8-5-111.6 | Self report if out of compliance during exemption period | N | |
| 8-5-112 | Tanks in Operation – maintenance and inspection | N | |

IV. Source Specific Applicable Requirements

Table IV – AEc
Source-specific Applicable Requirements
Fixed Roof Tanks
~~S13 – TANK 13, S4334 – TANK 13276~~ ALKYLATE

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------------|---|-----------------------------|-----------------------|
| 8-5-112.1 | <u>Notification</u> | N | |
| 8-5-112.2 | <u>Tank in compliance at time of notification</u> | N | |
| 8-5-112.3 | <u>No product movement. Minimize emissions</u> | NY | |
| 8-5-112.4 | <u>Tanks in Operation – maintenance and inspection; Not to exceed 7 days</u> | N | |
| 8-5-112.5 | <u>Self report if out of compliance during exemption period</u> | N | |
| 8-5-112.6 | <u>Keep records for each exemption</u> | N | |
| 8-5-118 | <u>Gas Tight Requirement for approved emission control system in 8-5-306.2 does not apply if facility is subject to BAAQMD 8-18</u> | N | |
| 8-5-301 | <u>Storage Tank Control Requirements</u> | N | |
| 8-5-303 | <u>Requirements for Pressure Vacuum Valve</u> | N | |
| 8-5-303.1 | <u>Requirements for Pressure Vacuum Valves; Set pressure</u> | N | |
| 8-5-303.2 | <u>Requirements for Pressure Vacuum Valves; Gas tight requirement</u> | N | |
| 8-5-306 | <u>Requirements for Approved Emission Control Systems</u> | N | |
| 8-5-306.1 | <u>Requirements for approved Emission Control System; Abatement Efficiency >=95%</u> | N | |
| 8-5-307 | <u>Requirements for fixed roof tanks, pressure tanks and blanketed tanks</u> | N | |
| 8-5-307.1 | <u>Requirements for fixed roof tanks, pressure tanks and blanketed tanks; no liquid leakage through shell</u> | N | |
| 8-5-328 | <u>Tank Degassing Requirements</u> | N | |
| 8-5-328.1 | <u>Tank degassing requirements; Tanks > 75 cubic meters</u> | N | |
| 8-5-328.2 | <u>Tank degassing requirements; Ozone Excess Day Prohibition</u> | N | |
| 8-5-328.3 | <u>Tank degassing requirements; BAAQMD notification required</u> | N | |
| 8-5-331 | <u>Tank cleaning requirements; 90% Abatement efficiency if abatement device used</u> | N | |
| 8-5-331.1 | <u>Tank cleaning requirements; Cleaning materials properties</u> | N | |
| 8-5-331.2 | <u>Tank cleaning requirements; Steam cleaning prohibition</u> | N | |
| 8-5-331.3 | <u>Tank cleaning requirements; Steam cleaning exceptions</u> | N | |
| 8-5-332 | <u>Sludge Handling Requirements (applies to sludge removed from any tank that was subject to BAAQMD 8-5 at any time since it was last put in service)</u> | N | |
| 8-5-332.1 | <u>Sludge Handling Requirements; sludge container no leaks</u> | N | |
| 8-5-332.2 | <u>Sludge Handling Requirements; sludge container gap requirements</u> | N | |
| 8-5-403 | <u>Inspection Requirements for Pressure Relief Devices</u> | N | |

IV. Source Specific Applicable Requirements

Table IV – AEc
Source-specific Applicable Requirements
Fixed Roof Tanks
~~S13 – TANK 13, S4334~~ – TANK 13276 ALKYLATE

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|--|-----------------------------|-----------------------|
| 8-5-403.1 | Inspection Requirements for Pressure Relief Devices; Pressure vacuum valves gas tight standards in 8-5-303 | N | |
| 8-5-404 | Inspection, Abatement Efficiency Determination and Source Test Reports | N | |
| 8-5-501 | Records | N Y | |
| 8-5-501.1 | Records; Type and amount of liquid, type of blanket gas, TVP- Retain 24 months | N | |
| 8-5-501.3 | Records; Retention | N | |
| 8-5-501.4 | Records; New pressure vacuum valve setpoints | N | |
| 8-5-502 | Annual Source Test Requirement and Exemption for Sources Vented to Fuel Gas | N | |
| 8-5-502.1 | Source Test Requirements; Annual source test for approved emission control systems and abatement devices for 8-5-303.2, 8-5-306.1, 8-5-307.3 | N | |
| 8-5-502.2 | Source test requirements; Tank degassing and cleaning abatement devices | N | |
| SIP BAAQMD Reg 8 Rule 5 | Organic Compounds – STORAGE OF ORGANIC LIQUIDS (6/5/03) | | |
| 8-5-111 | Tank Removal From and Return to Service | Y | |
| 8-5-112 | Tanks in Operation – maintenance and inspection | Y | |
| 8-5-301 | Storage Tank Control Requirements | Y | |
| 8-5-302 | Requirements for Submerged Fill Pipes | Y | |
| 8-5-303 | Requirements for Pressure Vacuum Valve | Y | |
| 8-5-306 | Requirements for Approved Emission Control Systems | Y | |
| 8-5-328 | Tank Degassing Requirements | Y | |
| 8-5-403 | Inspection Requirements for Pressure Vacuum Valves | Y | |
| 8-5-404 | Certification | Y | |
| 8-5-501.1 | Records | Y | |
| 8-5-502 | Tank Degassing Annual Source Test Requirement | Y | |
| 8-5-503 | Portable Hydrocarbon Detector | Y | |
| NSPS Subpart Kb | Volatile Organic Liquid Storage Vessels REQUIREMENTS FOR FIXED ROOF TANK-CONTROL DEVICE | | |
| 60.112b(a) | Closed vent system 60.112b(a)(3)(i) Performance requirements: no detectable emissions (i.e., < 500 ppm) | Y | |

IV. Source Specific Applicable Requirements

Table IV – AEc
Source-specific Applicable Requirements
Fixed Roof Tanks
~~S13 – TANK 13, S4334 – TANK 13276~~ ALKYLATE

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------------|---|-----------------------------|-----------------------|
| | Control device 60.112b(a)(3)(ii) Performance requirements: at least 95% efficient | Y | |
| 60.113b(c) | Control device (other than flare) 60.113b(c)(1) Compliance demonstration: operating plan, efficiency demo, & parameter(s) to be monitored | Y | |
| | Other (initial) Reports: 60.113b(c)(1) For control device submit operating plan for approval, with the initial notification Other-than flare? | Y | |
| | Control device (other than flare) 60.113b(c)(2) Operating requirements: operate and monitor per the plan | Y | |
| 60.115b | Recordkeeping for inspections: Keep inspection reports as specified. 60.115b Keep for 2 years | Y | |
| 60.115b(c) | Recordkeeping for tanks Routed to a control device other than a flare: 60.115b(c) operating plan & records of parametric monitoring data | Y | |
| 60.116b(a) | Applicability records: Time period for keeping records of applicability determination, Unless specified otherwise. 60.116b(a) Keep for 2 years | Y | |
| 60.116b(b) | Applicability records: Records of dimensions & capacity required for Nonexempt tanks? 60.116b(b) Required Keep record readily accessible for the life of the tank | Y | |
| 60.116b(e) | True vapor pressure (TVP) determination for applicability: 60.116b(e) maximum TVP of the stored liquid, based on highest calendar month average storage temperature | Y | |
| 60.116b(g) | Applicability determination: 60.116b(g) Miscellaneous recordkeeping exemptions: keeping record of TVP is not required if tank is routed to a compliant control device | Y | |
| NSPS Subpart A | New Source Performance Standards GENERAL PROVISIONS | Y | |
| 60.7(a) | Initial Notification: 60.7(a)(1) Is initial notification of the source's existence required? notification within 30 days after begin construction | Y | |

IV. Source Specific Applicable Requirements

Table IV – AEc
Source-specific Applicable Requirements
Fixed Roof Tanks
~~S13 – TANK 13, S4334 – TANK 13276~~ ALKYLATE

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---------------------------------|--|-----------------------------|-----------------------|
| | Report (document) having initially achieved compliance? 60.7(a)(3) 60.115b(a)(1) & (b)(1) within 15 days after initial fill | Y | |
| | Notification of Compliance Status report: 60.7(a)(3) [cf. 60.115b(a)(1)&(b)(1)] notification within 15 days after startup | Y | |
| | Initial Notification: Is initial notification required if tank becomes affected only as a result of a modification? 60.7(a)(4) notification 60 days or as soon as practicable before the change | Y | |
| 60.7(f) | General recordkeeping requirements: Time period for keeping records, unless specified otherwise. 60.7(f) Keep all reports & notifications for 2 years | Y | |
| | General recordkeeping requirements: Keep all reports and notification for the specified period of time. 60.7(f) required | Y | |
| 60.14(g) | Achieve compliance for: <u>New Tanks</u> (or tanks that Become affected as a result of a change or modification)? 60.14(g) up to 180 d. after modifications (otherwise prior to fill) | Y | |
| BAAQMD Condition # 7215 | | | |
| <u>Part 1</u> | <u>Abatement requirement [basis: Cumulative Increase]</u> | <u>N</u> | |
| <u>Part 2</u> | <u>Annual throughput limit [basis: Cumulative Increase]</u> | <u>N</u> | |
| <u>Part 3</u> | <u>Recordkeeping [basis: Cumulative Increase]</u> | <u>N</u> | |
| BAAQMD Condition # 12271 | | | |
| <u>Part A</u> | <u>Monthly and annual emission limits [basis: Offsets, Cumulative Increase]</u> | <u>Y</u> | |
| <u>Part B</u> | <u>Applicable sources [basis: Offsets, Cumulative Increase]</u> | <u>Y</u> | |
| <u>Part C</u> | <u>In the case of a process upset or other irregularity [basis: Offsets, Cumulative Increase]</u> | <u>N</u> | |
| <u>Part L</u> | <u>Recordkeeping [basis: BACT, Offsets, Cumulative Increase]</u> | <u>Y</u> | |

IV. Source Specific Applicable Requirements

Table IV – AEc
Source-specific Applicable Requirements
Fixed Roof Tanks
~~S13 – TANK 13, S4334 – TANK 13276~~ ALKYLATE

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---------------------------------|---|-----------------------------|-----------------------|
| Part M | Monthly reports [basis: Offsets, Cumulative Increase] | Y | |
| Part O | Offsets requirements [basis: Offsets] | Y | |
| Part 45 | Equipment specification [basis: BACT] | Y | |
| Part 51 | Degassing abatement requirements [basis: BACT] | Y | |
| BAAQMD Condition # 18618 | | | |
| Part 1 | Throughput limit (basis: Regulation 2-1-234.3) | N | |
| Part 2 | Recordkeeping (basis: Regulation 2-1-234.3) | N | |

Table IV – AF
Source-specific Applicable Requirements
~~S114 – TANK 1114 SPENT ACID, S115 – TANK 1115 SPENT ACID,~~

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|--------------------------------|--|-----------------------------|-----------------------|
| | See Table IV – AE for additional requirements. | | |
| BAAQMD Condition # 7215 | | | |
| Part 1 | Abatement requirement [basis: Cumulative Increase] | Y | |
| Part 2 | Annual throughput limit [basis: Cumulative Increase] | Y | |
| Part 3 | Recordkeeping [basis: Cumulative Increase] | Y | |

IV. Source Specific Applicable Requirements

TABLE IV – AG
SOURCE-SPECIFIC APPLICABLE REQUIREMENTS
S1116 - TANK 1116 FRESH ACID

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|-----------------------------------|--|-----------------------------|-----------------------|
| BAAQMD Regulation 6 Rule 1 | Particulate Matter – General Requirements and Visible Emissions (12/05/0709/04/98) | | |
| 6-1-301 | Ringelmann No. 1 Limitation | Y N | |
| 6-1-305 | Visible Particles | Y N | |
| SIP Regulation 6 | Particulate Matter and Visible Emissions (9/4/98) | | |
| 6-301 | <u>Ringelmann No. 1 Limitation</u> | Y | |
| 6-305 | <u>Visible Particles</u> | Y | |
| BAAQMD Condition # 10275 | | | |
| Part 1 | Material storage requirement [basis: Cumulative Increase] | Y | |

IV. Source Specific Applicable Requirements

TABLE IV – AH
SOURCE-SPECIFIC APPLICABLE REQUIREMENTS
FIXED ROOF TANKS
S1117 - TANK 1117 SKIM, S1186 - TANK 1186

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|--------------------------------------|---|-----------------------------|-----------------------|
| BAAQMD Reg 8 Rule 5 | <u>Organic Compounds - STORAGE OF ORGANIC LIQUIDS</u> <u>(10/18/06)</u> | | |
| 8-5-111 | <u>Tank Removal From and Return to Service</u> | N | |
| 8-5-111.1 | <u>Notification</u> | N | |
| 8-5-111.2 | <u>Tank in compliance at time of notification</u> | N | |
| 8-5-111.5 | <u>Minimize emissions and, if required, degas per 8-5-328</u> | N | |
| 8-5-111.6 | <u>Self report if out of compliance during exemption period</u> | N | |
| 8-5-112 | <u>Tanks in Operation – maintenance and inspection</u> | N | |
| 8-5-112.1 | <u>Notification</u> | N | |
| 8-5-112.2 | <u>Tank in compliance at time of notification</u> | N | |
| 8-5-112.3 | <u>No product movement, Minimize emissions</u> | Y | |
| 8-5-112.4 | <u>Tanks in Operation – maintenance and inspection; Not to exceed 7 days</u> | N | |
| 8-5-112.5 | <u>Self report if out of compliance during exemption period</u> | N | |
| 8-5-112.6 | <u>Keep records for each exemption</u> | N | |
| 8-5-118 | <u>Gas Tight Requirement for approved emission control system in 8-5-306.2</u> <u>does not apply if facility is subject to BAAQMD 8-18</u> | N | |
| 8-5-301 | <u>Storage Tank Control Requirements</u> | N | |
| 8-5-302 | <u>Requirements for Submerged Fill Pipes</u> | Y N | |
| 8-5-303 | <u>Requirements for Pressure Vacuum Valve</u> | N | |
| 8-5-303.1 | <u>Requirements for Pressure Vacuum Valves; Set pressure</u> | N | |
| 8-5-303.2 | <u>Requirements for Pressure Vacuum Valves; Gas tight requirement</u> | N | |
| 8-5-307 | <u>Requirements for fixed roof tanks, pressure tanks and blanketed tanks</u> | N | |
| 8-5-307.1 | <u>Requirements for fixed roof tanks, pressure tanks and blanketed tanks; no liquid leakage through shell</u> | N | |
| 8-5-328 | <u>Tank Degassing Requirements</u> | N | |
| 8-5-328.1 | <u>Tank degassing requirements; Tanks > 75 cubic meters</u> | N | |
| 8-5-328.2 | <u>Tank degassing requirements; Ozone Excess Day Prohibition</u> | N | |
| 8-5-328.3 | <u>Tank degassing requirements; BAAQMD notification required</u> | N | |
| 8-5-331 | <u>Tank cleaning requirements; 90% Abatement efficiency if abatement device used</u> | N | |
| 8-5-331.1 | <u>Tank cleaning requirements; Cleaning materials properties</u> | N | |

IV. Source Specific Applicable Requirements

TABLE IV – AH
SOURCE-SPECIFIC APPLICABLE REQUIREMENTS
FIXED ROOF TANKS
S1117 - TANK 1117 SKIM, S1186 - TANK 1186

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|-----------------------------|-----------------------|
| 8-5-331.2 | <u>Tank cleaning requirements; Steam cleaning prohibition</u> | N | |
| 8-5-331.3 | <u>Tank cleaning requirements; Steam cleaning exceptions</u> | N | |
| 8-5-332 | <u>Sludge Handling Requirements (applies to sludge removed from any tank that was subject to BAAQMD 8-5 at any time since it was last put in service)</u> | N | |
| 8-5-332.1 | <u>Sludge Handling Requirements; sludge container no leaks</u> | N | |
| 8-5-332.2 | <u>Sludge Handling Requirements; sludge container gap requirements</u> | N | |
| 8-5-403 | <u>Inspection Requirements for Pressure Relief Devices</u> | N | |
| 8-5-403.1 | <u>Inspection Requirements for Pressure Relief Devices; Pressure vacuum valves gas tight standards in 8-5-303</u> | N | |
| 8-5-501 | <u>Records</u> | N Y | |
| 8-5-501.1 | <u>Records; Type and amount of liquid, type of blanket gas, TVP- Retain 24 months</u> | N | |
| 8-5-501.3 | <u>Records; Retention</u> | N | |
| 8-5-501.4 | <u>Records; New pressure vacuum valve setpoints</u> | N | |
| SIP BAAQMD Reg 8 Rule 5 | Organic Compounds – STORAGE OF ORGANIC LIQUIDS (6/5/03) | | |
| 8-5-111 | Tank Removal From and Return to Service | Y | |
| 8-5-112 | Tanks in Operation – maintenance and inspection | Y | |
| 8-5-301 | Storage Tank Control Requirements | Y | |
| 8-5-302 | Requirements for Submerged Fill Pipes | Y | |
| 8-5-303 | Requirements for Pressure Vacuum Valve | Y | |
| 8-5-306 | Requirements for Approved Emission Control Systems | Y | |
| 8-5-328 | Tank Degassing Requirements | Y | |
| 8-5-403 | Inspection Requirements for Pressure Vacuum Valves | Y | |
| 8-5-404 | Certification | Y | |
| 8-5-501.1 | Records | Y | |
| 8-5-502 | Tank Degassing Annual Source Test Requirement | Y | |
| 8-5-503 | Portable Hydrocarbon Detector | Y | |
| BAAQMD Condition # 12190 | <u>Applies to S1117</u> | | |

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IV. Source Specific Applicable Requirements

TABLE IV – AH
SOURCE-SPECIFIC APPLICABLE REQUIREMENTS
FIXED ROOF TANKS
S1117 - TANK 1117 SKIM, S1186 - TANK 1186

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------------|--|-----------------------------|-----------------------|
| Part 1 | Annual throughput limit and recordkeeping [basis: Cumulative Increase] | Y | |

TABLE IV – AI
SOURCE-SPECIFIC APPLICABLE REQUIREMENTS
S1117 – TANK 1117 SKIM

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|--------------------------|--|-----------------------------|-----------------------|
| | See Table IV – AH for additional requirements. | | |
| BAAQMD Condition # 12100 | | | |
| Part 1 | Annual throughput limit and recordkeeping [basis: Cumulative Increase] | Y | |

TABLE IV – AJ
SOURCE-SPECIFIC APPLICABLE REQUIREMENTS
S1129 – TANK 1129,
S1130 – TANK 1130, S1131 – TANK 1131,
S4310 – TANK 13285 SOUR WATER

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------------|--|-----------------------------|-----------------------|
| | For S1129, See Table IV – Ja for additional requirements. For S1130 & S1131, See Table IV – Jb for additional requirements. For S4310, See Table IV – U for additional requirements. | | |

IV. Source Specific Applicable Requirements

~~TABLE IV – AJ~~
~~SOURCE-SPECIFIC APPLICABLE REQUIREMENTS~~
~~S1129 – TANK 1129,~~
~~S1130 – TANK 1130, S1131 – TANK 1131,~~
~~S4310 – TANK 13285 SOUR WATER~~

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|-------------------------------------|---|-----------------------------|-----------------------|
| BAAQMD Condition # 12271 | | | |
| Part A | Monthly and annual emission limits [basis: Offsets, Cumulative Increase] | Y | |
| Part B | Applicable sources [basis: Offsets, Cumulative Increase] | Y | |
| Part C | In the case of a process upset or other irregularity [basis: Offsets, Cumulative Increase] | N | |
| Part L | Recordkeeping [basis: BACT, Offsets, Cumulative Increase] | Y | |
| Part M | Monthly reports [basis: Offsets, Cumulative Increase] | Y | |
| Part O | Offsets requirements [basis: Offsets] | Y | |
| Part 47 | Equipment specification [basis: BACT] | Y | |
| Part 51 | Degassing abatement requirements [basis: BACT] | Y | |

Table IV – AK
 Source-specific Applicable Requirements
Internal Floating Roof Tanks
 S1146 - TANK 1146, S1147 - TANK 1147

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|----------------------------|--|-----------------------------|-----------------------|
| <u>BAAQMD Reg 8 Rule 5</u> | <u>Organic Compounds - STORAGE OF ORGANIC LIQUIDS (10/18/06)</u> | | |
| <u>8-5-111</u> | <u>Tank Removal From and Return to Service</u> | <u>N</u> | |
| <u>8-5-111.1</u> | <u>Notification</u> | <u>N</u> | |
| <u>8-5-111.2</u> | <u>Tank in compliance at time of notification</u> | <u>N</u> | |
| <u>8-5-111.3</u> | <u>Filling, emptying, refilling floating roof tanks</u> | <u>NY</u> | |
| <u>8-5-111.5</u> | <u>Minimize emissions and, if required, degas per 8-5-328</u> | <u>N</u> | |
| <u>8-5-111.6</u> | <u>Self report if out of compliance during exemption period</u> | <u>N</u> | |
| <u>8-5-112</u> | <u>Tanks in Operation – maintenance and inspection</u> | <u>N</u> | |

IV. Source Specific Applicable Requirements

Table IV – AK
Source-specific Applicable Requirements
Internal Floating Roof Tanks
S1146 - TANK 1146, S1147 - TANK 1147

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------------|---|-----------------------------|-----------------------|
| 8-5-112.1 | <u>Notification</u> | <u>N</u> | |
| 8-5-112.2 | <u>Tank in compliance at time of notification</u> | <u>N</u> | |
| 8-5-112.3 | <u>No product movement. Minimize emissions</u> | NY | |
| 8-5-112.4 | <u>Tanks in Operation – maintenance and inspection; Not to exceed 7 days</u> | <u>N</u> | |
| 8-5-112.5 | <u>Self report if out of compliance during exemption period</u> | <u>N</u> | |
| 8-5-112.6 | <u>Keep records for each exemption</u> | <u>N</u> | |
| 8-5-301 | <u>Storage Tank Control Requirements</u> | <u>N</u> | |
| 8-5-305 | <u>Requirements for Internal Floating Roof Tanks</u> | <u>N</u> | |
| 8-5-320 | <u>Floating Roof Tank Fitting Requirements</u> | <u>N</u> | |
| 8-5-321 | <u>Primary seal requirements</u> | <u>N</u> | |
| 8-5-322 | <u>Secondary seal requirements</u> | <u>N</u> | |
| 8-5-328 | <u>Tank Degassing Requirements</u> | <u>N</u> | |
| 8-5-328.1 | <u>Tank degassing requirements; Tanks > 75 cubic meters</u> | <u>N</u> | |
| 8-5-328.2 | <u>Tank degassing requirements; Ozone Excess Day Prohibition</u> | <u>N</u> | |
| 8-5-328.3 | <u>Tank degassing requirements; BAAQMD notification required</u> | <u>N</u> | |
| 8-5-331 | <u>Tank cleaning requirements; 90% Abatement efficiency if abatement device used</u> | <u>N</u> | |
| 8-5-331.1 | <u>Tank cleaning requirements; Cleaning materials properties</u> | <u>N</u> | |
| 8-5-331.2 | <u>Tank cleaning requirements; Steam cleaning prohibition</u> | <u>N</u> | |
| 8-5-331.3 | <u>Tank cleaning requirements; Steam cleaning exceptions</u> | <u>N</u> | |
| 8-5-332 | <u>Sludge Handling Requirements (applies to sludge removed from any tank that was subject to BAAQMD 8-5 at any time since it was last put in service)</u> | <u>N</u> | |
| 8-5-332.1 | <u>Sludge Handling Requirements; sludge container no leaks</u> | <u>N</u> | |
| 8-5-332.2 | <u>Sludge Handling Requirements; sludge container gap requirements</u> | <u>N</u> | |
| 8-5-402 | <u>Inspection Requirements for Internal Floating Roof Tanks</u> | NY | |
| 8-5-402.1 | <u>Inspection Requirements for Internal Floating Roof Tanks; Primary and Secondary Seal Inspections</u> | <u>Y</u> | |
| 8-5-402.2 | <u>Inspection Requirements for Internal Floating Roof Tanks; Visual Inspection of Outer Most Seal</u> | <u>N</u> | |
| 8-5-402.3 | <u>Inspection Requirements for Internal Floating Roof Tanks; Tank Fitting Inspection</u> | <u>N</u> | |
| 8-5-501 | <u>Records</u> | NY | |

IV. Source Specific Applicable Requirements

Table IV – AK
Source-specific Applicable Requirements
Internal Floating Roof Tanks
S1146 - TANK 1146, S1147 - TANK 1147

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|--|--|-----------------------------|-----------------------|
| 8-5-501.1 | Records; Type and amount of liquid, type of blanket gas, TVP- Retain 24 months | N | |
| 8-5-501.2 | Records; Internal and External Floating Roof Tanks, Seal Replacement Records- Retain 10 years | N | |
| 8-5-501.3 | Records; Retention | N | |
| SIP BAAQMD Reg 8 Rule 5 | Organic Compounds – STORAGE OF ORGANIC LIQUIDS (6/5/03) | | |
| 8-5-111 | Tank Removal From and Return to Service | Y | |
| 8-5-112 | Tanks in Operation – maintenance and inspection | Y | |
| 8-5-301 | Storage Tank Control Requirements | Y | |
| 8-5-305 | Requirements for Internal Floating Roofs | Y | |
| 8-5-320 | Tank Fitting Requirements | Y | |
| 8-5-321 | Primary Seal Requirements | Y | |
| 8-5-322 | Secondary Seal Requirements | Y | |
| 8-5-328 | Tank Degassing Requirements | Y | |
| 8-5-402 | Inspection Requirements for Internal Floating Roof | Y | |
| 8-5-404 | Certification | Y | |
| 8-5-405 | Information Required | Y | |
| 8-5-501 | Records | Y | |
| 8-5-502 | Tank Degassing Annual Source Test Requirement | Y | |
| 8-5-503 | Portable Hydrocarbon Detector | Y | |
| NESHAP 40 CFR 61 Subpart FF; BAAQMD 11-12 | National Emission Standard for Benzene Waste Operations (3/7/90) | | |
| 61.350 | Delay of Repair | Y | |
| 61.351 | Alternative standards for tanks | Y | |
| 61.351(a) | Alternate to the standards for tanks specified in 61.343 | | |
| 61.351(a)(2) | An internal floating roof meeting the requirements of 40CFR60.112b(a)(1) | Y | |
| 61.356 | Recordkeeping requirements | Y | |
| 61.356(k) | Comply with recordkeeping and retention requirements in 40CFR60.115b | Y | |

IV. Source Specific Applicable Requirements

Table IV – AK
Source-specific Applicable Requirements
Internal Floating Roof Tanks
S1146 - TANK 1146, S1147 - TANK 1147

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|--|--|-----------------------------|-----------------------|
| 61.357 | Reporting requirements | Y | |
| 61.357(f) | Comply with reporting requirements in 40CFR60.115b | Y | |
| MACT 40 CFR 63 Subpart CC | National Emissions Standards for Hazardous Air Pollutants from Petroleum Refineries (6/23/03/18/05/30/10) | | |
| 63.647 | Wastewater provisions | Y | |
| 63.647(a) | Owners/operators of Group 1 wastewater streams shall comply with section 61.340 to 61.355 of 40 CFR 61, subpart FF for each stream that meets the definition of 63.641 | Y | |
| 63.654 655 | Reporting and recordkeeping requirements | Y | |
| 63.654 655(a) | Owners/operators subject to the wastewater provisions of 63.647 shall comply with the recordkeeping and reporting requirements of 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 | |
| 63.654 655(i)(45) | All information required to be reported under 63.654 655(a) through (h) shall be retained for 5 years. | Y | |
| <u>BAAQMD Condition # 18618</u> | | | |
| <u>Part 1</u> | <u>Throughput limit (basis: Regulation 2-1-234.3)</u> | <u>N</u> | |
| <u>Part 2</u> | <u>Recordkeeping (basis: Regulation 2-1-234.3)</u> | <u>N</u> | |

IV. Source Specific Applicable Requirements

Table IV – AL
Source-specific Applicable Requirements

S1417 – OPCEN DISTILLATE SATURATION UNIT (DSU), S1420 – DH CRUDE UNIT (CU), S1421 – DH VACUUM FLASHER UNIT (VFU), S1422 – DH MARINE FUEL OIL BLENDER, S1423 – DH GAS OIL STRAIGHTRUN HYDROTREATER (GOHT), S1424 – DH NAPHTHA STRAIGHTRUN HYDROTREATER (NHT), ~~S1425 – DH CATALYTIC REFORMER UNIT (CRU)~~, S1427 – CP CATALYTIC GAS PLANT (CGP), S1428 – CP CATALYTIC FEED HYDROTREATER (CFH), S1429 – CP CATALYTIC GASOLINE HYDROTREATER (CGH), S1430 – CP ALKYLATION PLANT (ALKY), S1433 – CP LIGHT CC GASOLINE TREATER, S1434 – CP UNSATURATED C3/C4 TREATER, S1435 – CP FUEL GAS TREATER 1, S1436 – CP FUEL GAS TREATER 2, S1445 – DH HYDROGEN PLANT 1 (HP1), S1446 – DH SATURATES GAS PLANT (SGP), S1447 – DH SATURATES DRY GAS TREATER, S1448 – DH SATURATES GAS PLANT C3/C4 TREATER, S1449 – DH HYDROCRACKING UNIT (HCU), S1462 – LOG DISTILLATE BLENDER (JET & DIESEL FUEL), S1463 – LOG GASOLINE BLENDER, S1464 – LOG THIN FUEL BLENDER (WHARF), S1759 – OPCEN FLEXICOKER (FXU), S1764 – OPCEN DIMERSOL PLANT (DIMER), S1770 – OPCEN C3/C4 SPLITTER, S1774 – OPCEN HYDROGEN PLANT 2 (HP2), S4001 – DC DELAYED COKING UNIT (DCU), S4020 – DC DISTILLATE HYDROTREATER (DHT), S4050 - DC CATALYTIC GAS DEPENTANIZER (CGDP), S4080 - DC ISOMERIZATION UNIT (ISOM), S4140 – DC HEAVY CRACKED GASOLINE HYDROTREATER (HGHT), S4160 – DC HYDROGEN PLANT 3 (HP3),

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|-------------------------------|---|-----------------------------|-----------------------|
| District Regulation 8, Rule 2 | Applicable to sources S1445 & S1774 Miscellaneous Operations (0607/1520/9405) | | |
| 8-2-301 | Limit on Organic Emissions from Miscellaneous Operations | Y | |
| BAAQMD Regulation 8, Rule 9 | Vacuum Producing Systems (10/03/84) | | |
| 8-9-301 | Vacuum Producing Systems | Y | |
| BAAQMD Regulation 8, Rule 10 | Organic Compound – 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 – AL
Source-specific Applicable Requirements

S1417 – OPCEN DISTILLATE SATURATION UNIT (DSU), S1420 – DH CRUDE UNIT (CU), S1421 – DH VACUUM FLASHER UNIT (VFU), S1422 – DH MARINE FUEL OIL BLENDER, S1423 – DH GAS OIL STRAIGHTRUN HYDROTREATER (GOHT), S1424 – DH NAPHTHA STRAIGHTRUN HYDROTREATER (NHT), ~~S1425 – DH CATALYTIC REFORMER UNIT (CRU)~~, S1427 – CP CATALYTIC GAS PLANT (CGP), S1428 – CP CATALYTIC FEED HYDROTREATER (CFH), S1429 – CP CATALYTIC GASOLINE HYDROTREATER (CGH), S1430 – CP ALKYLATION PLANT (ALKY), S1433 – CP LIGHT CC GASOLINE TREATER, S1434 – CP UNSATURATED C3/C4 TREATER, S1435 – CP FUEL GAS TREATER 1, S1436 – CP FUEL GAS TREATER 2, S1445 – DH HYDROGEN PLANT 1 (HP1), S1446 – DH SATURATES GAS PLANT (SGP), S1447 – DH SATURATES DRY GAS TREATER, S1448 – DH SATURATES GAS PLANT C3/C4 TREATER, S1449 – DH HYDROCRACKING UNIT (HCU), S1462 – LOG DISTILLATE BLENDER (JET & DIESEL FUEL), S1463 – LOG GASOLINE BLENDER, S1464 – LOG THIN FUEL BLENDER (WHARF), S1759 – OPCEN FLEXICOKER (FXU), S1764 – OPCEN DIMERSOL PLANT (DIMER), S1770 – OPCEN C3/C4 SPLITTER, S1774 – OPCEN HYDROGEN PLANT 2 (HP2), S4001 – DC DELAYED COKING UNIT (DCU), S4020 – DC DISTILLATE HYDROTREATER (DHT), S4050 - DC CATALYTIC GAS DEPENTANIZER (CGDP), S4080 - DC ISOMERIZATION UNIT (ISOM), S4140 – DC HEAVY CRACKED GASOLINE HYDROTREATER (HGHT), S4160 – DC HYDROGEN PLANT 3 (HP3),

| 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 Compound – Process Vessel Depressurization (7/20/83) | | |
| 8-10-301 | Process Vessel Depressurizing. | Y | |
| 8-10-301.1 | recovery to the fuel gas system | Y | |
| 8-10-301.2 | combustion at a firebox or incinerator | Y | |

IV. Source Specific Applicable Requirements

Table IV – AL
Source-specific Applicable Requirements

S1417 – OPCEN DISTILLATE SATURATION UNIT (DSU), S1420 – DH CRUDE UNIT (CU), S1421 – DH VACUUM FLASHER UNIT (VFU), S1422 – DH MARINE FUEL OIL BLENDER, S1423 – DH GAS OIL STRAIGHTRUN HYDROTREATER (GOHT), S1424 – DH NAPHTHA STRAIGHTRUN HYDROTREATER (NHT), ~~S1425 – DH CATALYTIC REFORMER UNIT (CRU)~~, S1427 – CP CATALYTIC GAS PLANT (CGP), S1428 – CP CATALYTIC FEED HYDROTREATER (CFH), S1429 – CP CATALYTIC GASOLINE HYDROTREATER (CGH), S1430 – CP ALKYLATION PLANT (ALKY), S1433 – CP LIGHT CC GASOLINE TREATER, S1434 – CP UNSATURATED C3/C4 TREATER, S1435 – CP FUEL GAS TREATER 1, S1436 – CP FUEL GAS TREATER 2, S1445 – DH HYDROGEN PLANT 1 (HP1), S1446 – DH SATURATES GAS PLANT (SGP), S1447 – DH SATURATES DRY GAS TREATER, S1448 – DH SATURATES GAS PLANT C3/C4 TREATER, S1449 – DH HYDROCRACKING UNIT (HCU), S1462 – LOG DISTILLATE BLENDER (JET & DIESEL FUEL), S1463 – LOG GASOLINE BLENDER, S1464 – LOG THIN FUEL BLENDER (WHARF), S1759 – OPCEN FLEXICOKER (FXU), S1764 – OPCEN DIMERSOL PLANT (DIMER), S1770 – OPCEN C3/C4 SPLITTER, S1774 – OPCEN HYDROGEN PLANT 2 (HP2), S4001 – DC DELAYED COKING UNIT (DCU), S4020 – DC DISTILLATE HYDROTREATER (DHT), S4050 - DC CATALYTIC GAS DEPENTANIZER (CGDP), S4080 - DC ISOMERIZATION UNIT (ISOM), S4140 – DC HEAVY CRACKED GASOLINE HYDROTREATER (HGHT), S4160 – DC HYDROGEN PLANT 3 (HP3),

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|-------------------------------------|---|-----------------------------|-----------------------|
| 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. | 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 Regulation 8, Rule 18 | Organic Compounds – Equipment Leaks (09/15/04) | | |
| 8-18-301 | General | <u>Y</u> | |
| 8-18-302 | Valves | <u>N</u> | |
| 8-18-303 | Pumps and Compressors | <u>N</u> | |
| 8-18-304 | Connections | <u>N</u> | |
| 8-18-305 | Pressure Relief Devices | <u>Y</u> | |

IV. Source Specific Applicable Requirements

Table IV – AL
Source-specific Applicable Requirements

S1417 – OPCEN DISTILLATE SATURATION UNIT (DSU), S1420 – DH CRUDE UNIT (CU), S1421 – DH VACUUM FLASHER UNIT (VFU), S1422 – DH MARINE FUEL OIL BLENDER, S1423 – DH GAS OIL STRAIGHTRUN HYDROTREATER (GOHT), S1424 – DH NAPHTHA STRAIGHTRUN HYDROTREATER (NHT), ~~S1425 – DH CATALYTIC REFORMER UNIT (CRU)~~, S1427 – CP CATALYTIC GAS PLANT (CGP), S1428 – CP CATALYTIC FEED HYDROTREATER (CFH), S1429 – CP CATALYTIC GASOLINE HYDROTREATER (CGH), S1430 – CP ALKYLATION PLANT (ALKY), S1433 – CP LIGHT CC GASOLINE TREATER, S1434 – CP UNSATURATED C3/C4 TREATER, S1435 – CP FUEL GAS TREATER 1, S1436 – CP FUEL GAS TREATER 2, S1445 – DH HYDROGEN PLANT 1 (HP1), S1446 – DH SATURATES GAS PLANT (SGP), S1447 – DH SATURATES DRY GAS TREATER, S1448 – DH SATURATES GAS PLANT C3/C4 TREATER, S1449 – DH HYDROCRACKING UNIT (HCU), S1462 – LOG DISTILLATE BLENDER (JET & DIESEL FUEL), S1463 – LOG GASOLINE BLENDER, S1464 – LOG THIN FUEL BLENDER (WHARF), S1759 – OPCEN FLEXICOKER (FXU), S1764 – OPCEN DIMERSOL PLANT (DIMER), S1770 – OPCEN C3/C4 SPLITTER, S1774 – OPCEN HYDROGEN PLANT 2 (HP2), S4001 – DC DELAYED COKING UNIT (DCU), S4020 – DC DISTILLATE HYDROTREATER (DHT), S4050 - DC CATALYTIC GAS DEPENTANIZER (CGDP), S4080 - DC ISOMERIZATION UNIT (ISOM), S4140 – DC HEAVY CRACKED GASOLINE HYDROTREATER (HGHT), S4160 – DC HYDROGEN PLANT 3 (HP3),

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|--------------------------|--|-----------------------------|-----------------------|
| 8-18-306 | Non-repairable Equipment | <u>N</u> | |
| 8-18-307 | Liquid Leak | <u>Y</u> | |
| 8-18-308 | Alternative Compliance | <u>Y</u> | |
| 8-18-401 | Inspection | N <u>Y</u> | |
| 8-18-401.1 through 401.8 | Inspection | <u>Y</u> | |
| 8-18-401.9 | Inspection | <u>N</u> | |
| 8-18-401.10 | Inspection | <u>N</u> | |
| 8-18-402 | Identification | <u>Y</u> | |
| 8-18-403 | Visual Inspection Schedule | <u>Y</u> | |
| 8-18-404 | Alternative Inspection Schedule | <u>Y</u> | |
| 8-18-405 | Alternative Emission Reduction Plan | <u>Y</u> | |
| 8-18-406 | Interim Compliance | <u>Y</u> | |
| 8-18-501 | Portable Hydrocarbon Detector | <u>Y</u> | |

IV. Source Specific Applicable Requirements

Table IV – AL
Source-specific Applicable Requirements

S1417 – OPCEN DISTILLATE SATURATION UNIT (DSU), S1420 – DH CRUDE UNIT (CU), S1421 – DH VACUUM FLASHER UNIT (VFU), S1422 – DH MARINE FUEL OIL BLENDER, S1423 – DH GAS OIL STRAIGHTRUN HYDROTREATER (GOHT), S1424 – DH NAPHTHA STRAIGHTRUN HYDROTREATER (NHT), ~~S1425 – DH CATALYTIC REFORMER UNIT (CRU)~~, S1427 – CP CATALYTIC GAS PLANT (CGP), S1428 – CP CATALYTIC FEED HYDROTREATER (CFH), S1429 – CP CATALYTIC GASOLINE HYDROTREATER (CGH), S1430 – CP ALKYLATION PLANT (ALKY), S1433 – CP LIGHT CC GASOLINE TREATER, S1434 – CP UNSATURATED C3/C4 TREATER, S1435 – CP FUEL GAS TREATER 1, S1436 – CP FUEL GAS TREATER 2, S1445 – DH HYDROGEN PLANT 1 (HP1), S1446 – DH SATURATES GAS PLANT (SGP), S1447 – DH SATURATES DRY GAS TREATER, S1448 – DH SATURATES GAS PLANT C3/C4 TREATER, S1449 – DH HYDROCRACKING UNIT (HCU), S1462 – LOG DISTILLATE BLENDER (JET & DIESEL FUEL), S1463 – LOG GASOLINE BLENDER, S1464 – LOG THIN FUEL BLENDER (WHARF), S1759 – OPCEN FLEXICOKER (FXU), S1764 – OPCEN DIMERSOL PLANT (DIMER), S1770 – OPCEN C3/C4 SPLITTER, S1774 – OPCEN HYDROGEN PLANT 2 (HP2), S4001 – DC DELAYED COKING UNIT (DCU), S4020 – DC DISTILLATE HYDROTREATER (DHT), S4050 - DC CATALYTIC GAS DEPENTANIZER (CGDP), S4080 - DC ISOMERIZATION UNIT (ISOM), S4140 – DC HEAVY CRACKED GASOLINE HYDROTREATER (HGHT), S4160 – DC HYDROGEN PLANT 3 (HP3),

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|-----------------------------|-----------------------|
| 8-18-502 | Records | N | |
| 8-18-502.1 through 502.3 | Records | Y | |
| 8-18-502.4 | Records | N | |
| 8-18-503 | Reports | N | |
| 8-18-503.1 | Records | N | |
| 8-18-503.2 | Records | N | |
| SIP BAAQMD Regulation 8, Rule 18 | Organic Compounds – Equipment Leaks (06/05/03) | | |
| 8-18-301 | General | Y | |
| 8-18-302 | Valves | Y | |
| 8-18-303 | Pumps and Compressors | Y | |
| 8-18-304 | Connections | Y | |

IV. Source Specific Applicable Requirements

Table IV – AL
Source-specific Applicable Requirements

S1417 – OPCEN DISTILLATE SATURATION UNIT (DSU), S1420 – DH CRUDE UNIT (CU), S1421 – DH VACUUM FLASHER UNIT (VFU), S1422 – DH MARINE FUEL OIL BLENDER, S1423 – DH GAS OIL STRAIGHTRUN HYDROTREATER (GOHT), S1424 – DH NAPHTHA STRAIGHTRUN HYDROTREATER (NHT), ~~S1425 – DH CATALYTIC REFORMER UNIT (CRU)~~, S1427 – CP CATALYTIC GAS PLANT (CGP), S1428 – CP CATALYTIC FEED HYDROTREATER (CFH), S1429 – CP CATALYTIC GASOLINE HYDROTREATER (CGH), S1430 – CP ALKYLATION PLANT (ALKY), S1433 – CP LIGHT CC GASOLINE TREATER, S1434 – CP UNSATURATED C3/C4 TREATER, S1435 – CP FUEL GAS TREATER 1, S1436 – CP FUEL GAS TREATER 2, S1445 – DH HYDROGEN PLANT 1 (HP1), S1446 – DH SATURATES GAS PLANT (SGP), S1447 – DH SATURATES DRY GAS TREATER, S1448 – DH SATURATES GAS PLANT C3/C4 TREATER, S1449 – DH HYDROCRACKING UNIT (HCU), S1462 – LOG DISTILLATE BLENDER (JET & DIESEL FUEL), S1463 – LOG GASOLINE BLENDER, S1464 – LOG THIN FUEL BLENDER (WHARF), S1759 – OPCEN FLEXICOKER (FXU), S1764 – OPCEN DIMERSOL PLANT (DIMER), S1770 – OPCEN C3/C4 SPLITTER, S1774 – OPCEN HYDROGEN PLANT 2 (HP2), S4001 – DC DELAYED COKING UNIT (DCU), S4020 – DC DISTILLATE HYDROTREATER (DHT), S4050 - DC CATALYTIC GAS DEPENTANIZER (CGDP), S4080 - DC ISOMERIZATION UNIT (ISOM), S4140 – DC HEAVY CRACKED GASOLINE HYDROTREATER (HGHT), S4160 – DC HYDROGEN PLANT 3 (HP3),

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------------|--|-----------------------------|-----------------------|
| 8-18-305 | Pressure Relief Devices | Y | |
| 8-18-306 | Non-repairable Equipment | Y | |
| 8-18-307 | Liquid Leak | Y | |
| 8-18-308 | Alternative Compliance | Y | |
| 8-18-401 | Inspection | Y | |
| 8-18-402 | Identification | Y | |
| 8-18-403 | Visual Inspection Schedule | Y | |
| 8-18-404 | Alternative Inspection Schedule | Y | |
| 8-18-405 | Alternative Emission Reduction Plan | Y | |
| 8-18-406 | Interim Compliance | Y | |
| 8-18-501 | Portable Hydrocarbon Detector | Y | |
| 8-18-502 | Records | Y | |

IV. Source Specific Applicable Requirements

Table IV – AL
Source-specific Applicable Requirements

S1417 – OPCEN DISTILLATE SATURATION UNIT (DSU), S1420 – DH CRUDE UNIT (CU), S1421 – DH VACUUM FLASHER UNIT (VFU), S1422 – DH MARINE FUEL OIL BLENDER, S1423 – DH GAS OIL STRAIGHTRUN HYDROTREATER (GOHT), S1424 – DH NAPHTHA STRAIGHTRUN HYDROTREATER (NHT), ~~S1425 – DH CATALYTIC REFORMER UNIT (CRU)~~, S1427 – CP CATALYTIC GAS PLANT (CGP), S1428 – CP CATALYTIC FEED HYDROTREATER (CFH), S1429 – CP CATALYTIC GASOLINE HYDROTREATER (CGH), S1430 – CP ALKYLATION PLANT (ALKY), S1433 – CP LIGHT CC GASOLINE TREATER, S1434 – CP UNSATURATED C3/C4 TREATER, S1435 – CP FUEL GAS TREATER 1, S1436 – CP FUEL GAS TREATER 2, S1445 – DH HYDROGEN PLANT 1 (HP1), S1446 – DH SATURATES GAS PLANT (SGP), S1447 – DH SATURATES DRY GAS TREATER, S1448 – DH SATURATES GAS PLANT C3/C4 TREATER, S1449 – DH HYDROCRACKING UNIT (HCU), S1462 – LOG DISTILLATE BLENDER (JET & DIESEL FUEL), S1463 – LOG GASOLINE BLENDER, S1464 – LOG THIN FUEL BLENDER (WHARF), S1759 – OPCEN FLEXICOKER (FXU), S1764 – OPCEN DIMERSOL PLANT (DIMER), S1770 – OPCEN C3/C4 SPLITTER, S1774 – OPCEN HYDROGEN PLANT 2 (HP2), S4001 – DC DELAYED COKING UNIT (DCU), S4020 – DC DISTILLATE HYDROTREATER (DHT), S4050 - DC CATALYTIC GAS DEPENTANIZER (CGDP), S4080 - DC ISOMERIZATION UNIT (ISOM), S4140 – DC HEAVY CRACKED GASOLINE HYDROTREATER (HGHT), S4160 – DC HYDROGEN PLANT 3 (HP3),

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------------------|--|-----------------------------|-----------------------|
| BAAQMD Regulation 8, Rule 28 | Organic Compounds – Episodic Releases from Pressure Relief Devices at Petroleum Refineries and Chemical Plants (12/21/0503/18/98) | | |
| 8-28-302 | Pressure Relief Devices at New or Modified Sources at Petroleum Refineries | N | |
| 8-28-303 | Pressure Relief Devices at Existing Sources at Petroleum Refineries | N | |
| 8-28-304 | Repeat Release Pressure Relief Devices at Petroleum Refineries | N Y | |
| 8-28-304.1 | Repeat Release Pressure Relief Devices at Petroleum Refineries | N | |
| 8-28-304.2 | Repeat Release Pressure Relief Devices at Petroleum Refineries | Y | |
| 8-28-401 | Reporting at Petroleum Refineries and Chemical Plants | N | |
| 8-28-402 | Inspection | N | |
| 8-28-403 | Records | N | |
| 8-28-404 | Identification | N | |
| 8-28-405 | Process Safety Requirements/Prevention Measures/Procedures | N | |

IV. Source Specific Applicable Requirements

Table IV – AL
Source-specific Applicable Requirements

S1417 – OPCEN DISTILLATE SATURATION UNIT (DSU), S1420 – DH CRUDE UNIT (CU), S1421 – DH VACUUM FLASHER UNIT (VFU), S1422 – DH MARINE FUEL OIL BLENDER, S1423 – DH GAS OIL STRAIGHTRUN HYDROTREATER (GOHT), S1424 – DH NAPHTHA STRAIGHTRUN HYDROTREATER (NHT), ~~S1425 – DH CATALYTIC REFORMER UNIT (CRU)~~, S1427 – CP CATALYTIC GAS PLANT (CGP), S1428 – CP CATALYTIC FEED HYDROTREATER (CFH), S1429 – CP CATALYTIC GASOLINE HYDROTREATER (CGH), S1430 – CP ALKYLATION PLANT (ALKY), S1433 – CP LIGHT CC GASOLINE TREATER, S1434 – CP UNSATURATED C3/C4 TREATER, S1435 – CP FUEL GAS TREATER 1, S1436 – CP FUEL GAS TREATER 2, S1445 – DH HYDROGEN PLANT 1 (HP1), S1446 – DH SATURATES GAS PLANT (SGP), S1447 – DH SATURATES DRY GAS TREATER, S1448 – DH SATURATES GAS PLANT C3/C4 TREATER, S1449 – DH HYDROCRACKING UNIT (HCU), S1462 – LOG DISTILLATE BLENDER (JET & DIESEL FUEL), S1463 – LOG GASOLINE BLENDER, S1464 – LOG THIN FUEL BLENDER (WHARF), S1759 – OPCEN FLEXICOKER (FXU), S1764 – OPCEN DIMERSOL PLANT (DIMER), S1770 – OPCEN C3/C4 SPLITTER, S1774 – OPCEN HYDROGEN PLANT 2 (HP2), S4001 – DC DELAYED COKING UNIT (DCU), S4020 – DC DISTILLATE HYDROTREATER (DHT), S4050 - DC CATALYTIC GAS DEPENTANIZER (CGDP), S4080 - DC ISOMERIZATION UNIT (ISOM), S4140 – DC HEAVY CRACKED GASOLINE HYDROTREATER (HGHT), S4160 – DC HYDROGEN PLANT 3 (HP3),

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---------------------------|--|-----------------------------|-----------------------|
| 8-28-502 | Records | N | |
| 8-28-503 | Monitoring | N | |
| SIP Regulation 8, Rule 28 | Organic Compounds – Episodic Releases from Pressure Relief Devices at Petroleum Refineries and Chemical Plants (05/24/0412/9/94) | | |
| 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 | |
| 8-28-304.1 | Repeat Release 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 | |
| 8-28-405 | Prevention Measures Procedures | Y | |

IV. Source Specific Applicable Requirements

Table IV – AL
Source-specific Applicable Requirements

S1417 – OPCEN DISTILLATE SATURATION UNIT (DSU), S1420 – DH CRUDE UNIT (CU), S1421 – DH VACUUM FLASHER UNIT (VFU), S1422 – DH MARINE FUEL OIL BLENDER, S1423 – DH GAS OIL STRAIGHTRUN HYDROTREATER (GOHT), S1424 – DH NAPHTHA STRAIGHTRUN HYDROTREATER (NHT), ~~S1425 – DH CATALYTIC REFORMER UNIT (CRU)~~, S1427 – CP CATALYTIC GAS PLANT (CGP), S1428 – CP CATALYTIC FEED HYDROTREATER (CFH), S1429 – CP CATALYTIC GASOLINE HYDROTREATER (CGH), S1430 – CP ALKYLATION PLANT (ALKY), S1433 – CP LIGHT CC GASOLINE TREATER, S1434 – CP UNSATURATED C3/C4 TREATER, S1435 – CP FUEL GAS TREATER 1, S1436 – CP FUEL GAS TREATER 2, S1445 – DH HYDROGEN PLANT 1 (HP1), S1446 – DH SATURATES DRY GAS TREATER, S1447 – DH SATURATES DRY GAS TREATER, S1448 – DH SATURATES GAS PLANT C3/C4 TREATER, S1449 – DH HYDROCRACKING UNIT (HCU), S1462 – LOG DISTILLATE BLENDER (JET & DIESEL FUEL), S1463 – LOG GASOLINE BLENDER, S1464 – LOG THIN FUEL BLENDER (WHARF), S1759 – OPCEN FLEXICOKER (FXU), S1764 – OPCEN DIMERSOL PLANT (DIMER), S1770 – OPCEN C3/C4 SPLITTER, S1774 – OPCEN HYDROGEN PLANT 2 (HP2), S4001 – DC DELAYED COKING UNIT (DCU), S4020 – DC DISTILLATE HYDROTREATER (DHT), S4050 - DC CATALYTIC GAS DEPENTANIZER (CGDP), S4080 - DC ISOMERIZATION UNIT (ISOM), S4140 – DC HEAVY CRACKED GASOLINE HYDROTREATER (HGHT), S4160 – DC HYDROGEN PLANT 3 (HP3),

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|--------------------------------|---|-----------------------------|-----------------------|
| <u>BAAQMD Condition # 7618</u> | <u>Applies to S1420</u> | | |
| <u>Part C</u> | <u>Actions resulting from non-compliance [basis: Regulation 2-2-302] (Applies to S1420 and S1759)</u> | <u>N</u> | |
| <u>Part C.a</u> | <u>Crude oil process throughput limit [basis: Regulation 2-2-302] (Applies to S1420)</u> | <u>Y</u> | |
| <u>Part C.b</u> | <u>Flexicoker feed process limit [basis: Regulation 2-2-302] (Applies to S1759)</u> | <u>Y</u> | |
| <u>Part C.e</u> | <u>Sulfur content limit of liquid fuel [basis: Regulation 2-2-302] (Applies to S1759)</u> | <u>Y</u> | |
| <u>Part E.2.a.</u> | <u>Duration of startups and shutdowns (Applies to S1759)</u> | <u>Y</u> | |
| <u>Part E.2.d.</u> | <u>Quantification of SO2 emissions during startups and shutdowns (Applies to S1759)</u> | <u>Y</u> | |
| <u>Part G</u> | <u>Records [basis: Cumulative Increase] (Applies to S1420 and S1769S1759)</u> | <u>Y</u> | |

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IV. Source Specific Applicable Requirements

Table IV – AL
Source-specific Applicable Requirements

S1417 – OPCEN DISTILLATE SATURATION UNIT (DSU), S1420 – DH CRUDE UNIT (CU), S1421 – DH VACUUM FLASHER UNIT (VFU), S1422 – DH MARINE FUEL OIL BLENDER, S1423 – DH GAS OIL STRAIGHTRUN HYDROTREATER (GOHT), S1424 – DH NAPHTHA STRAIGHTRUN HYDROTREATER (NHT), ~~S1425 – DH CATALYTIC REFORMER UNIT (CRU)~~, S1427 – CP CATALYTIC GAS PLANT (CGP), S1428 – CP CATALYTIC FEED HYDROTREATER (CFH), S1429 – CP CATALYTIC GASOLINE HYDROTREATER (CGH), S1430 – CP ALKYLATION PLANT (ALKY), S1433 – CP LIGHT CC GASOLINE TREATER, S1434 – CP UNSATURATED C3/C4 TREATER, S1435 – CP FUEL GAS TREATER 1, S1436 – CP FUEL GAS TREATER 2, S1445 – DH HYDROGEN PLANT 1 (HP1), S1446 – DH SATURATES GAS PLANT (SGP), S1447 – DH SATURATES DRY GAS TREATER, S1448 – DH SATURATES GAS PLANT C3/C4 TREATER, S1449 – DH HYDROCRACKING UNIT (HCU), S1462 – LOG DISTILLATE BLENDER (JET & DIESEL FUEL), S1463 – LOG GASOLINE BLENDER, S1464 – LOG THIN FUEL BLENDER (WHARF), S1759 – OPCEN FLEXICOKER (FXU), S1764 – OPCEN DIMERSOL PLANT (DIMER), S1770 – OPCEN C3/C4 SPLITTER, S1774 – OPCEN HYDROGEN PLANT 2 (HP2), S4001 – DC DELAYED COKING UNIT (DCU), S4020 – DC DISTILLATE HYDROTREATER (DHT), S4050 - DC CATALYTIC GAS DEPENTANIZER (CGDP), S4080 - DC ISOMERIZATION UNIT (ISOM), S4140 – DC HEAVY CRACKED GASOLINE HYDROTREATER (HGHT), S4160 – DC HYDROGEN PLANT 3 (HP3),

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---------------------------------|--|-----------------------------|-----------------------|
| BAAQMD Condition # 12271 | Applies to S4001, S4020, S4050, S4080, S4140, and S4160 | | |
| Part A | Monthly and annual emission limits [basis: Offsets, Cumulative Increase] | Y | |
| Part B | Applicable sources [basis: Offsets, Cumulative Increase] | Y | |
| Part C | In the case of a process upset or other irregularity [basis: Offsets, Cumulative Increase] | N | |
| Part L | Recordkeeping [basis: BACT, Offsets, Cumulative Increase] | Y | |
| Part M | Monthly reports [basis: Offsets, Cumulative Increase] | Y | |
| Part N | Process vessel depressurization requirements [basis: BACT] | Y | |
| Part O | Offsets requirements [basis: Offsets] | Y | |
| Part 1 | Fugitive requirements for new pumps in light liquid or toxic service [basis: BACT] | Y | |
| Part 3 | Definitions [basis: BACT] | Y | |

IV. Source Specific Applicable Requirements

Table IV – AL
Source-specific Applicable Requirements

S1417 – OPCEN DISTILLATE SATURATION UNIT (DSU), S1420 – DH CRUDE UNIT (CU), S1421 – DH VACUUM FLASHER UNIT (VFU), S1422 – DH MARINE FUEL OIL BLENDER, S1423 – DH GAS OIL STRAIGHTRUN HYDROTREATER (GOHT), S1424 – DH NAPHTHA STRAIGHTRUN HYDROTREATER (NHT), ~~S1425 – DH CATALYTIC REFORMER UNIT (CRU)~~, S1427 – CP CATALYTIC GAS PLANT (CGP), S1428 – CP CATALYTIC FEED HYDROTREATER (CFH), S1429 – CP CATALYTIC GASOLINE HYDROTREATER (CGH), S1430 – CP ALKYLATION PLANT (ALKY), S1433 – CP LIGHT CC GASOLINE TREATER, S1434 – CP UNSATURATED C3/C4 TREATER, S1435 – CP FUEL GAS TREATER 1, S1436 – CP FUEL GAS TREATER 2, S1445 – DH HYDROGEN PLANT 1 (HP1), S1446 – DH SATURATES GAS PLANT (SGP), S1447 – DH SATURATES DRY GAS TREATER, S1448 – DH SATURATES GAS PLANT C3/C4 TREATER, S1449 – DH HYDROCRACKING UNIT (HCU), S1462 – LOG DISTILLATE BLENDER (JET & DIESEL FUEL), S1463 – LOG GASOLINE BLENDER, S1464 – LOG THIN FUEL BLENDER (WHARF), S1759 – OPCEN FLEXICOKER (FXU), S1764 – OPCEN DIMERSOL PLANT (DIMER), S1770 – OPCEN C3/C4 SPLITTER, S1774 – OPCEN HYDROGEN PLANT 2 (HP2), S4001 – DC DELAYED COKING UNIT (DCU), S4020 – DC DISTILLATE HYDROTREATER (DHT), S4050 - DC CATALYTIC GAS DEPENTANIZER (CGDP), S4080 - DC ISOMERIZATION UNIT (ISOM), S4140 – DC HEAVY CRACKED GASOLINE HYDROTREATER (HGHT), S4160 – DC HYDROGEN PLANT 3 (HP3),

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------------|--|-----------------------------|-----------------------|
| Part 4 | <u>Fugitive requirements for valves in gaseous hydrocarbon service [basis: BACT]</u> | Y | |
| Part 5 | <u>Fugitive requirements for other valves in POC gas, light liquid and toxic service [basis: BACT]</u> | Y | |
| Part 6 | <u>Fugitive requirements for flow control valves [basis: BACT]</u> | Y | |
| Part 9 | <u>Fugitive requirements for flanges [basis: BACT]</u> | Y | |
| Part 10 | <u>Fugitive requirements for centrifugal compressors [basis: BACT]</u> | Y | |
| Part 11 | <u>Total fugitive emissions limit [basis: Offsets]</u> | Y | |
| Part 12 | <u>Fugitive requirements for pressure relief valves [basis: BACT]</u> | Y | |
| Part 13 | <u>Fugitive requirements for process sample systems [basis: BACT]</u> | Y | |
| Part 14 | <u>Fugitive requirements for process drains [basis: BACT]</u> | Y | |

IV. Source Specific Applicable Requirements

**Table IV – AL
 Source-specific Applicable Requirements**

S1417 – OPCEN DISTILLATE SATURATION UNIT (DSU), S1420 – DH CRUDE UNIT (CU), S1421 – DH VACUUM FLASHER UNIT (VFU), S1422 – DH MARINE FUEL OIL BLENDER, S1423 – DH GAS OIL STRAIGHTRUN HYDROTREATER (GOHT), S1424 – DH NAPHTHA STRAIGHTRUN HYDROTREATER (NHT), ~~S1425 – DH CATALYTIC REFORMER UNIT (CRU)~~, S1427 – CP CATALYTIC GAS PLANT (CGP), S1428 – CP CATALYTIC FEED HYDROTREATER (CFH), S1429 – CP CATALYTIC GASOLINE HYDROTREATER (CGH), S1430 – CP ALKYLATION PLANT (ALKY), S1433 – CP LIGHT CC GASOLINE TREATER, S1434 – CP UNSATURATED C3/C4 TREATER, S1435 – CP FUEL GAS TREATER 1, S1436 – CP FUEL GAS TREATER 2, S1445 – DH HYDROGEN PLANT 1 (HP1), S1446 – DH SATURATES GAS PLANT (SGP), S1447 – DH SATURATES DRY GAS TREATER, S1448 – DH SATURATES GAS PLANT C3/C4 TREATER, S1449 – DH HYDROCRACKING UNIT (HCU), S1462 – LOG DISTILLATE BLENDER (JET & DIESEL FUEL), S1463 – LOG GASOLINE BLENDER, S1464 – LOG THIN FUEL BLENDER (WHARF), S1759 – OPCEN FLEXICOKER (FXU), S1764 – OPCEN DIMERSOL PLANT (DIMER), S1770 – OPCEN C3/C4 SPLITTER, S1774 – OPCEN HYDROGEN PLANT 2 (HP2), S4001 – DC DELAYED COKING UNIT (DCU), S4020 – DC DISTILLATE HYDROTREATER (DHT), S4050 - DC CATALYTIC GAS DEPENTANIZER (CGDP), S4080 - DC ISOMERIZATION UNIT (ISOM), S4140 – DC HEAVY CRACKED GASOLINE HYDROTREATER (HGHT), S4160 – DC HYDROGEN PLANT 3 (HP3),

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---------------------------------|---|-----------------------------|-----------------------|
| BAAQMD Condition # 18618 | Applies to S1417, S1420, S1423, S1424, S1425 , S1428, S1429, S1430, S1445, S1449, S1759, S1764, S1774, S4001, S4020, S4080, S4140, S4160 Does not apply to S1421, S1422, S1427, S1433, S1434, S1435, S1436, S1446, S1447, S1448, S1462, S1463, S1464, S1770, S4050, S4080 | | |
| Part 1 | Throughput limit (basis: Regulation 2-1-234.3) | N | |
| Part 2 | Recordkeeping (basis: Regulation 2-1-234.3) | N | |
| BAAQMD Condition # 18643 | Applies to S1417, S1429, S1430, S1449, S1764, S4080, S4050, and S4140 | | |
| Part 2 | New pump in light liquid requirement [basis: BACT/TBACT: Cumulative Increase] | Y | |
| Part 3 | New valves in POC gas and light liquid requirement [basis: BACT/TBACT: Cumulative Increase] | Y | |

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IV. Source Specific Applicable Requirements

Table IV – AL
Source-specific Applicable Requirements

S1417 – OPCEN DISTILLATE SATURATION UNIT (DSU), S1420 – DH CRUDE UNIT (CU), S1421 – DH VACUUM FLASHER UNIT (VFU), S1422 – DH MARINE FUEL OIL BLENDER, S1423 – DH GAS OIL STRAIGHTRUN HYDROTREATER (GOHT), S1424 – DH NAPHTHA STRAIGHTRUN HYDROTREATER (NHT), ~~S1425 – DH CATALYTIC REFORMER UNIT (CRU)~~, S1427 – CP CATALYTIC GAS PLANT (CGP), S1428 – CP CATALYTIC FEED HYDROTREATER (CFH), S1429 – CP CATALYTIC GASOLINE HYDROTREATER (CGH), S1430 – CP ALKYLATION PLANT (ALKY), S1433 – CP LIGHT CC GASOLINE TREATER, S1434 – CP UNSATURATED C3/C4 TREATER, S1435 – CP FUEL GAS TREATER 1, S1436 – CP FUEL GAS TREATER 2, S1445 – DH HYDROGEN PLANT 1 (HP1), S1446 – DH SATURATES GAS PLANT (SGP), S1447 – DH SATURATES DRY GAS TREATER, S1448 – DH SATURATES GAS PLANT C3/C4 TREATER, S1449 – DH HYDROCRACKING UNIT (HCU), S1462 – LOG DISTILLATE BLENDER (JET & DIESEL FUEL), S1463 – LOG GASOLINE BLENDER, S1464 – LOG THIN FUEL BLENDER (WHARF), S1759 – OPCEN FLEXICOKER (FXU), S1764 – OPCEN DIMERSOL PLANT (DIMER), S1770 – OPCEN C3/C4 SPLITTER, S1774 – OPCEN HYDROGEN PLANT 2 (HP2), S4001 – DC DELAYED COKING UNIT (DCU), S4020 – DC DISTILLATE HYDROTREATER (DHT), S4050 - DC CATALYTIC GAS DEPENTANIZER (CGDP), S4080 - DC ISOMERIZATION UNIT (ISOM), S4140 – DC HEAVY CRACKED GASOLINE HYDROTREATER (HGHT), S4160 – DC HYDROGEN PLANT 3 (HP3),

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|--------------------------|--|-----------------------------|-----------------------|
| Part 4 | <u>New flanges requirement [basis: BACT/TBACT; Cumulative Increase]</u> | Y | |
| Part 5 | <u>New centrifugal compressors requirement [basis: BACT/TBACT; Cumulative Increase]</u> | Y | |
| Part 6 | <u>New pressure relief valve requirement [basis: BACT/TBACT; Cumulative Increase]</u> | Y | |
| Part 7 | <u>Process sample systems requirement [basis: BACT/TBACT; Cumulative Increase] (Applies to S1417 and S4050 only)</u> | Y | |
| BAAQMD Condition # 21896 | For sources <u>Applies to S1445 & S1774</u> | | |
| Part 1 | Annual source test to demonstrate compliance with Regulation 8-2-301 (Basis: Regulation 2-6-409.2) | Y | |
| BAAQMD Condition # 24162 | <u>Applies to S1424</u> | | |

IV. Source Specific Applicable Requirements

Table IV – AL
Source-specific Applicable Requirements

S1417 – OPCEN DISTILLATE SATURATION UNIT (DSU), S1420 – DH CRUDE UNIT (CU), S1421 – DH VACUUM FLASHER UNIT (VFU), S1422 – DH MARINE FUEL OIL BLENDER, S1423 – DH GAS OIL STRAIGHTRUN HYDROTREATER (GOHT), S1424 – DH NAPHTHA STRAIGHTRUN HYDROTREATER (NHT), ~~S1425 – DH CATALYTIC REFORMER UNIT (CRU)~~, S1427 – CP CATALYTIC GAS PLANT (CGP), S1428 – CP CATALYTIC FEED HYDROTREATER (CFH), S1429 – CP CATALYTIC GASOLINE HYDROTREATER (CGH), S1430 – CP ALKYLATION PLANT (ALKY), S1433 – CP LIGHT CC GASOLINE TREATER, S1434 – CP UNSATURATED C3/C4 TREATER, S1435 – CP FUEL GAS TREATER 1, S1436 – CP FUEL GAS TREATER 2, S1445 – DH HYDROGEN PLANT 1 (HP1), S1446 – DH SATURATES GAS PLANT (SGP), S1447 – DH SATURATES DRY GAS TREATER, S1448 – DH SATURATES GAS PLANT C3/C4 TREATER, S1449 – DH HYDROCRACKING UNIT (HCU), S1462 – LOG DISTILLATE BLENDER (JET & DIESEL FUEL), S1463 – LOG GASOLINE BLENDER, S1464 – LOG THIN FUEL BLENDER (WHARF), S1759 – OPCEN FLEXICOKER (FXU), S1764 – OPCEN DIMERSOL PLANT (DIMER), S1770 – OPCEN C3/C4 SPLITTER, S1774 – OPCEN HYDROGEN PLANT 2 (HP2), S4001 – DC DELAYED COKING UNIT (DCU), S4020 – DC DISTILLATE HYDROTREATER (DHT), S4050 - DC CATALYTIC GAS DEPENTANIZER (CGDP), S4080 - DC ISOMERIZATION UNIT (ISOM), S4140 – DC HEAVY CRACKED GASOLINE HYDROTREATER (HGHT), S4160 – DC HYDROGEN PLANT 3 (HP3),

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------------|---|-----------------------------|-----------------------|
| Part 1 | Daily and annual throughput limit (Basis: Regulation 2-1-302) | N | |
| Part 2 | Recordkeeping requirements (Basis: Cumulative Increase, Regulation 2-1-403) | Y | |

IV. Source Specific Applicable Requirements

~~Table IV—AN~~
~~Source-specific Applicable Requirements~~
~~S1426—CP CATALYTIC CRACKING UNIT (CCU),~~
~~S1429—CP CATALYTIC GASOLINE HYDROTREATER (CGH),~~
~~—S1430—CP ALKYLATION PLANT (ALKY), S1449—DH HYDROCRACKING UNIT~~
~~(HCU),~~
~~—S1764—OPCEN DIMERSOL PLANT (DIMER),,~~
~~S4080—DC ISOMERIZATION UNIT (ISOM),~~
~~—S4140—DC HEAVY CRACKED GASOLINE HYDROTREATER (HCHT):~~

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---------------------------------|---|-----------------------------|-----------------------|
| | See Table IV—AL or AP (for S1426) for additional requirements. | | |
| BAAQMD Condition # 18643 | | | |
| Part 2 | New pump in light liquid requirement [basis: BACT/TBACT; Cumulative Increase] | Y | |
| Part 3 | New valves in POC gas and light liquid requirement [basis: BACT/TBACT; Cumulative Increase] | Y | |
| Part 4 | New flanges requirement [basis: BACT/TBACT; Cumulative Increase] | Y | |
| Part 5 | New centrifugal compressors requirement [basis: BACT/TBACT; Cumulative Increase] | Y | |
| Part 6 | New pressure relief valve requirement [basis: BACT/TBACT; Cumulative Increase] | Y | |

IV. Source Specific Applicable Requirements

Table IV—Anb
Source-specific Applicable Requirements
S1417—OPCEN DISTILLATE SATURATION UNIT (DSU),
S4050—DC CATALYTIC GAS DEPENTANIZER (CGDP)

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---------------------------------|---|-----------------------------|-----------------------|
| | See Table IV—AL for additional requirements. | | |
| BAAQMD Condition # 18643 | | | |
| Part 2 | New pump in light liquid requirement [basis: BACT/TBACT; Cumulative Increase] | Y | |
| Part 3 | New valves in POC gas and light liquid requirement [basis: BACT/TBACT; Cumulative Increase] | Y | |
| Part 4 | New flanges requirement [basis: BACT/TBACT; Cumulative Increase] | Y | |
| Part 5 | New centrifugal compressors requirement [basis: BACT/TBACT; Cumulative Increase] | Y | |
| Part 6 | New pressure relief valve requirement [basis: BACT/TBACT; Cumulative Increase] | Y | |
| Part 7 | Process sample systems requirement [basis: BACT/TBACT; Cumulative Increase] | Y | |

Table IV—AO
Source-specific Applicable Requirements
S1420—DH CRUDE UNIT (CU)

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|--------------------------------|---|-----------------------------|-----------------------|
| | See Table IV—AL & AM for additional requirements. | | |
| BAAQMD Condition # 7618 | | | |
| Part C | Actions resulting from non-compliance [basis: Regulation 2-2-302] | N | |
| Part C-a | Crude oil process throughput limit [basis: Regulation 2-2-302] | Y | |

IV. Source Specific Applicable Requirements

Table IV – A0
Source-specific Applicable Requirements
S1420 – DH CRUDE UNIT (CU)

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------------|--|-----------------------------|-----------------------|
| Part G | Records [basis: Cumulative Increase] | Y | |

Table IV – A0a0a
Source-specific Applicable Requirements
S1425 – DH Catalytic Reformer Unit (CRU)

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|-------------------------------------|---|-----------------------------|-----------------------|
| BAAQMD Regulation 8, Rule 9 | Vacuum Producing Systems (10/03/84) | | |
| 8-9-301 | Vacuum Producing Systems | Y | |
| BAAQMD Regulation 8, Rule 10 | Organic Compound – 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 | |

IV. Source Specific Applicable Requirements

**Table IV – ~~A00A0a~~
 Source-specific Applicable Requirements
 S1425 – DH Catalytic Reformer Unit (CRU)**

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|--|-----------------------------|-----------------------|
| SIP Regulation 8, Rule 10 | <u>Organic Compound – Process Vessel Depressurization (7/20/83)</u> | | |
| 8-10-301 | <u>Process Vessel Depressurizing</u> | <u>Y</u> | |
| 8-10-301.1 | <u>recovery to the fuel gas system</u> | <u>Y</u> | |
| 8-10-301.2 | <u>combustion at a firebox or incinerator</u> | <u>Y</u> | |
| 8-10-301.3 | <u>combustion at a flare</u> | <u>Y</u> | |
| 8-10-301.4 | <u>containment such that emissions to atmosphere do not occur</u> | <u>Y</u> | |
| 8-10-401 | <u>Turnaround Records</u> | <u>Y</u> | |
| 8-10-401.1 | <u>date of depressurization event</u> | <u>Y</u> | |
| 8-10-401.2 | <u>approximate vessel hydrocarbon concentration when emissions to atmosphere begin</u> | <u>Y</u> | |
| 8-10-401.3 | <u>approximate quantity of POC emissions to atmosphere</u> | <u>Y</u> | |
| BAAQMD Regulation 8, Rule 18 | <u>Organic Compounds – Equipment Leaks (09/15/04)</u> | | |
| 8-18-301 | <u>General</u> | <u>Y</u> | |
| 8-18-302 | <u>Valves</u> | <u>N</u> | |
| 8-18-303 | <u>Pumps and Compressors</u> | <u>N</u> | |
| 8-18-304 | <u>Connections</u> | <u>N</u> | |
| 8-18-305 | <u>Pressure Relief Devices</u> | <u>Y</u> | |
| 8-18-306 | <u>Non-repairable Equipment</u> | <u>N</u> | |
| 8-18-307 | <u>Liquid Leak</u> | <u>Y</u> | |
| 8-18-308 | <u>Alternative Compliance</u> | <u>Y</u> | |
| 8-18-401 | <u>Inspection</u> | <u>Y</u> | |
| 8-18-401.1 through 401.8 | <u>Inspection</u> | <u>Y</u> | |
| 8-18-401.9 | <u>Inspection</u> | <u>N</u> | |
| 8-18-401.10 | <u>Inspection</u> | <u>N</u> | |
| 8-18-402 | <u>Identification</u> | <u>Y</u> | |
| 8-18-403 | <u>Visual Inspection Schedule</u> | <u>Y</u> | |
| 8-18-404 | <u>Alternative Inspection Schedule</u> | <u>Y</u> | |
| 8-18-405 | <u>Alternative Emission Reduction Plan</u> | <u>Y</u> | |

IV. Source Specific Applicable Requirements

**Table IV – ~~A00A0a~~
 Source-specific Applicable Requirements
 S1425 – DH Catalytic Reformer Unit (CRU)**

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|--|-----------------------------|-----------------------|
| 8-18-406 | Interim Compliance | Y | |
| 8-18-501 | Portable Hydrocarbon Detector | Y | |
| 8-18-502 | Records | Y | |
| 8-18-502.1 through 502.3 | Records | Y | |
| 8-18-502.4 | Records | N | |
| 8-18-503 | Reports | Y | |
| 8-18-503.1 | Records | N | |
| 8-18-503.2 | Records | N | |
| SIP BAAQMD Regulation 8, Rule 18 | | | |
| 8-18-301 | General | 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 Leak | Y | |
| 8-18-308 | Alternative Compliance | Y | |
| 8-18-401 | Inspection | Y | |
| 8-18-402 | Identification | Y | |
| 8-18-403 | Visual Inspection Schedule | Y | |
| 8-18-404 | Alternative Inspection Schedule | Y | |
| 8-18-405 | Alternative Emission 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 | Organic Compounds – Episodic Releases from Pressure Relief Devices at Petroleum Refineries and Chemical Plants (03/18/98) | | |

IV. Source Specific Applicable Requirements

**Table IV – ~~A00A0a~~
 Source-specific Applicable Requirements
 S1425 – DH Catalytic Reformer Unit (CRU)**

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|--|---|-----------------------------|-----------------------|
| 8-28-302 | Pressure Relief Devices at New or Modified Sources at Petroleum Refineries | N | |
| 8-28-303 | Pressure Relief Devices at Existing Sources at Petroleum Refineries | N | |
| 8-28-304 | Repeat Release Pressure Relief Devices at Petroleum Refineries | N | |
| 8-28-401 | Reporting at Petroleum Refineries and Chemical Plants | N | |
| 8-28-402 | Inspection | N | |
| 8-28-403 | Records | N | |
| 8-28-404 | Identification | N | |
| 8-28-405 | Prevention Measures Procedures | N | |
| <u>BAAQMD</u> <u>Regulation 8,</u> <u>Rule 28</u> | <u>Organic Compounds – Episodic Releases from Pressure Relief Devices at Petroleum Refineries and Chemical Plants (12/21/05)</u> | | |
| 8-28-302 | Pressure Relief Devices at New or Modified Sources at Petroleum Refineries | N | |
| 8-28-303 | Pressure Relief Devices at Existing Sources at Petroleum Refineries | N | |
| 8-28-304 | Repeat Release Pressure Relief Devices at Petroleum Refineries | Y | |
| 8-28-304.1 | Repeat Release Pressure Relief Devices at Petroleum Refineries | N | |
| 8-28-304.2 | Repeat Release Pressure Relief Devices at Petroleum Refineries | Y | |
| 8-28-401 | Reporting at Petroleum Refineries and Chemical Plants | N | |
| 8-28-402 | Inspection | N | |
| | | | |
| 8-28-404 | Identification | N | |
| 8-28-405 | Process Safety Requirements | N | |
| 8-28-502 | Records | N | |
| 8-28-503 | Monitoring | N | |
| <u>SIP</u> <u>Regulation 8,</u> <u>Rule 28</u> | <u>Organic Compounds – Episodic Releases from Pressure Relief Devices at Petroleum Refineries and Chemical Plants (05/24/04)</u> | | |
| 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 | |
| 8-28-304.1 | Repeat Release Pressure Relief Devices at Petroleum Refineries | Y | |
| 8-28-401 | Reporting at Petroleum Refineries and Chemical Plants | Y | |

IV. Source Specific Applicable Requirements

**Table IV – ~~A00A0a~~
 Source-specific Applicable Requirements
 S1425 – DH Catalytic Reformer Unit (CRU)**

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---------------------------------|--|-----------------------------|---|
| <u>8-28-402</u> | <u>Inspection</u> | <u>Y</u> | |
| <u>8-28-403</u> | <u>Records</u> | <u>Y</u> | |
| <u>8-28-404</u> | <u>Identification</u> | <u>Y</u> | |
| <u>8-28-405</u> | <u>Prevention Measures Procedures</u> | <u>Y</u> | |
| | See Table IV – AL for additional requirements. | | |
| 40 CFR Part 63 Subpart A | MACT General Provisions | | |
| 63.4 | Prohibited Activities and Circumvention | Y | 4/11/05 |
| 63.6 | Compliance with Standards and Maintenance Requirements | Y | 4/11/05 |
| 63.6(e) | Operation and Maintenance Requirements | Y | 4/11/05 |
| 63.6(f) | Compliance with Nonopacity Emission Standards | Y | 4/11/05 |
| 63.6(g) | Use of Alternative Nonopacity Emission Standard (optional) | Y | 4/11/05 |
| 63.7 | Performance Tests | Y | 9/8/05 |
| 63.8 | Monitoring | Y | 4/11/05 |
| 63.9 | Notifications | Y | 4/11/05 |
| 63.9(e) | Notification of Performance Test | Y | 30 days before test |
| 63.9(g) | Notification Requirements for sources with Continuous Monitoring Systems | Y | Simultaneous with notice of performance test |
| 63.9(h) | Notification of Compliance Status | Y | 5/11/05 and Subsequent |
| 63.9(j) | Change in information already provided | Y | 4/11/05 |
| 63.10 | Recordkeeping and Reporting Requirements | Y | 4/11/05 |
| 63.10(a) | General Information | Y | 4/11/05 |
| 63.10(b) | General Recordkeeping Requirements | Y | 4/11/05 |
| 63.10(b)(2) | Records to be maintained | Y | 4/11/05 |
| 63.10(c) | Recordkeeping requirements for Continuous Monitoring Systems | Y | 4/11/05 |
| 63.10(d) | General Reporting Requirements | Y | 4/11/05 |
| 63.10(e) | Additional reports for sources with Continuous Monitoring Systems | Y | 4/11/05 |
| 63.10(e)(2) | Reporting results of Continuous Monitoring System performance evaluation | Y | 9/8/05 |

IV. Source Specific Applicable Requirements

**Table IV – ~~A00A0a~~
 Source-specific Applicable Requirements
 S1425 – DH Catalytic Reformer Unit (CRU)**

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------------------|--|-----------------------------|-----------------------|
| 63.10(e)(3) | Excess Emissions and Continuous Monitoring System Performance Report and Summary Report | Y | 4/11/05 |
| 40 CFR 63 Subpart UUU | NESHAP for Petroleum Refineries: Catalytic Reforming Units | | |
| <u>63.1562</u> | <u>What parts of my plant are covered by this subpart?</u> | <u>Y</u> | |
| <u>63.1562(f)</u> | <u>This subpart does not apply to:</u> | <u>Y</u> | |
| <u>63.1562(f)(5)</u> | <u>Gaseous streams routed to a fuel gas system.</u> | <u>Y</u> | |
| 63.1567 | Requirements for Inorganic HAP Emissions from Catalytic Reforming Units | Y | 4/11/05 |
| 63.1567(a) | Emission Limitations and Work Practice Standards | Y | 4/11/05 |
| 63.1567(a)(1) | Sulfur -Emission Limitations for Hydrogen Chloride (HCl) during coke burn-off and catalyst rejuvenation using wet scrubber: Reduce uncontrolled HCl emissions by 97% or to a concentration of 10 ppmvd corrected to 3%O ₂ (Table 22 Item 2) | Y | 4/11/05 |
| <u>63.1567(a)(1)(i)</u> | <u>Reduce uncontrolled HCl emissions by 97%</u> | <u>Y</u> | |
| 63.1567(a)(2) | Operating limits for daily average pH or alkalinity of water and average liquid-to-gas ratio exiting wet scrubber during coke burn-off and catalyst rejuvenation: daily average pH or alkalinity of scrubbing liquid not fall below the limit established during performance test; daily average liquid-to-gas ratio not to fall below the limit established during performance test (Table 23 Item 1.a) | Y | 9/8/05 |
| 63.1567(a)(3) | Prepare Operation, Maintenance, and Monitoring Plan and operate in compliance with the plan | Y | 4/11/05 |
| 63.1567(b) | Initial Compliance Demonstration | Y | 4/11/05 |
| 63.1567(b)(1) | Install Continuous Parameter Monitoring System to record pH of water and liquid and gas flow rate to scrubber (Table 24, Item 1) | Y | 4/11/05 |
| 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 1.a) | Y | 9/8/05 |
| 63.1567(b)(3) | Establish Operating Limit: measure and record pH of scrubbing liquid and gas and liquid flow rate every 15 minutes during the performance test. Determine hourly average. (Table 25, Items 1.b and 1.c) | Y | 9/8/05 |

IV. Source Specific Applicable Requirements

**Table IV – A00A0a
 Source-specific Applicable Requirements
 S1425 – DH Catalytic Reformer Unit (CRU)**

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------------|--|-----------------------------|-----------------------|
| 63.1567(b)(4) | Demonstrate Initial Compliance with Emission Limitations: reduce HCl concentration by 97% or to 10 ppmv (Table 26, Item 2) | Y | 9/8/05 |
| 63.1567(b)(5) | Demonstrate Initial Compliance with Work Practice Standard by submitting Operation, Maintenance, and Monitoring Plan | Y | 5/11/05 |
| 63.1567(b)(6) | Submit Notice of Initial Compliance Status | Y | 5/11/05 |
| 63.1567(c) | Continuous Compliance Demonstration | Y | 4/11/05 |
| 63.1567(c)(1) | Demonstrate Continuous Compliance with Emission Limitation: maintain 97% control efficiency or 10 ppmv HCl concentration (Table 27, Item 2) and collect hourly and daily pH <u>or alkalinity</u> monitoring data and hourly average liquid-to-gas ratio, and maintain both above the operating limit established during performance test (Table 28, Items 1.a and 1.b) | Y | 9/8/05 |
| 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 | 4/11/05 |
| 63.1570 | General Compliance Requirements | Y | 4/11/05 |
| 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 | 4/11/05 |
| 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 | 4/11/05 |
| 63.1570(d) | Develop and implement startup, shutdown, and malfunction plan (SSMP) in accordance with 63.6(e)(3) | Y | 4/11/05 |
| 63.1570(e) | Operate in accordance with SSMP during periods of startup, shutdown, and malfunction (Reserved) | Y | 4/11/05 |
| 63.1570(f) | Report deviations from compliance with this subpart according to the requirements of 63.1575 | Y | 4/11/05 |
| 63.1570(g) | Deviations that occur during startup, shutdown, or malfunction are not violations if operating in accordance with SSMP | Y | 4/11/05 |
| 63.1571 | Performance Tests | Y | 4/11/05 |
| 63.1571(a) | Conduct Performance Test and submit results no later than 150 days after compliance date | Y | |

IV. Source Specific Applicable Requirements

**Table IV – ~~A00A0a~~
 Source-specific Applicable Requirements
 S1425 – DH Catalytic Reformer Unit (CRU)**

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------------|--|-----------------------------|-----------------------|
| 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 | 4/11/05 |
| 63.1571(b)(1) | Conduct performance tests in accordance with the requirements of 63.7(e)(1) | Y | 9/8/05 |
| 63.1571(b)(2) | Except for opacity and visual emissions observations, conduct three separate test runs of at least an hour for each performance test | Y | 9/8/05 |
| 63.1571(b)(3) | Conduct each performance evaluation in accordance with the requirements of 63.8(e) | Y | 9/8/05 |
| 63.1571(b)(4) | Performance tests not conducted during periods of startup, shutdown, or malfunction | Y | 9/8/05 |
| 63.1571(b)(5) | Arithmetic average of emission rates | Y | 9/8/05 |
| 63.1571(c) | Procedures for an Engineering Assessment (optional in lieu of performance test) | Y | 5/11/05 |
| 63.1571(d)(4) | Adjust process or control device measured values when establishing operating limit (optional) | Y | 9/8/05 |
| 63.1571(e) | Changes to Operating operating limits (optional) | Y | 9/8/05 |
| 63.1572 | Monitoring installation, operation, and maintenance requirements | Y | 4/11/05 |
| 63.1572(c) | Continuous parameter monitoring requirements | Y | 4/11/05 |
| 63.1572(c)(1) | Locate the air flow and liquid flow sensors and other necessary equipment that provides representative flow; use flow rate sensor with ±5% accuracy; reduce abnormal conditions due to up/down stream disturbances; conduct semiannual calibration (Table 41, Item 3); and locate pH sensor in a position that provides a representative measurement; ensure the sample is properly mixed and representative; check calibration every 8 hours; inspect all components; record inspection results (Table 41, Item 5) <u>Install, operate, and maintain continuous parameter monitoring system (online pH/ alkaline meter) in a manner consistent with the manufacturer's specifications or other written procedures that provide adequate assurance that the equipment will monitor accurately.</u> | Y | 4/11/05 |
| 63.1572(c)(2) | Complete a minimum of one cycle for each 15-minute period; four cycles of operation for a valid hour of data | Y | 4/11/05 |

IV. Source Specific Applicable Requirements

**Table IV – ~~A00A0a~~
 Source-specific Applicable Requirements
 S1425 – DH Catalytic Reformer Unit (CRU)**

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|--------------------------|--|-----------------------------|-----------------------------------|
| 63.1572(c)(3) | Valid hourly data at least 75% of process operating hours | Y | 4/11/05 |
| 63.1572(c)(4) | Determine and record hourly and daily average of all recorded readings | Y | 4/11/05 |
| 63.1572(c)(5) | Record results of inspection, calibration, and validation check | Y | 4/11/05 |
| 63.1572(d) | Data monitoring and collection requirements | Y | 4/11/05 |
| 63.1572(d)(1) | Conduct monitoring at all times source is operating except for monitoring malfunctions, repairs, and QA/QC activities | Y | 4/11/05 |
| 63.1572(d)(2) | Not use data recorded during monitoring malfunctions, repairs, and QA/QC activities | Y | 4/11/05 |
| 63.1573 | Monitoring Alternatives | Y | 4/11/05 |
| 63.1573(b) | Alternatives for monitoring for pH (Table 41, Item 5) (optional) | Y | 4/11/05 |
| 63.1573(c) | Automated data compression system (optional) | Y | 4/11/05 |
| 63.1573(d) | Monitoring for alternative parameters (optional) | Y | 4/11/05 |
| 63.1573(e) | Alternative Monitoring Requests (optional) | Y | 4/11/05 |
| 63.1574 | Notification Requirements | Y | 4/11/05 |
| 63.1574(a) | Notifications Required by Subpart A | Y | 5/11/05 and subsequent |
| 63.1574(a)(1) | Submit notification of intent to construct or reconstruct according to 63.9(b)(5) | Y | |
| 63.1574(a)(2) | Submit notification of intent to conduct performance test 30 days before scheduled (instead of 60 days) | Y | 30 days before test |
| 63.1574(a)(3) | Notification of Compliance Status | Y | 5/11/05 |
| 63.1574(a)(3)(i) | Submit Notification of Compliance Status for initial compliance demonstration that does not include a performance test, no later than 30 days following completion of initial compliance demonstration | Y | 5/11/05 |
| 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 | 9/8/05 |
| 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 | 5/11/05 |
| 63.1574(f) | Requirement to prepare Operation, Maintenance, and Monitoring Plan | Y | 4/11/05 |
| 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. <u>Changes must be reviewed and approved by permitting authority.</u> | Y | 9/8/05 |

IV. Source Specific Applicable Requirements

**Table IV – ~~A00A0a~~
 Source-specific Applicable Requirements
 S1425 – DH Catalytic Reformer Unit (CRU)**

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|--|--|-----------------------------|-----------------------|
| 63.1574(f)(2) | Minimum contents of Operation, Maintenance, and Monitoring Plan | Y | 4/11/05 |
| 63.1575 | Reports | Y | 7/31/05 |
| 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 | 7/31/05 |
| 63.1575(b) | Specified semiannual report submittal dates | Y | 7/31/05 |
| 63.1575(c) | Information required in compliance report | Y | 7/31/05 |
| 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 | 7/31/05 |
| 63.1575(f) | Additional information for compliance reports | Y | 7/31/05 |
| 63.1575(f)(1) | Requirement to submit performance test reports | Y | 1/31/06 |
| 63.1575(f)(2) | Submittal of requested change in the applicability of an emission standard | Y | 7/31/05 |
| 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 | 7/31/05 |
| 63.1575(h) | Reporting requirements for startups, shutdowns, and malfunctions | Y | 7/31/05 |
| 63.1576 | Recordkeeping | Y | 4/11/05 |
| 63.1576(a) | Required Records – General | Y | 4/11/05 |
| 63.1576(d) | Records required by Tables 20, 21, 27, and 28 of Subpart UUU | Y | 4/11/05 |
| 63.1576(e) | Maintain copy of Operation, Maintenance, and Monitoring Plan | Y | 4/11/05 |
| 63.1576(f) | Records of changes that affect emission control system performance | Y | 4/11/05 |
| 63.1576(g) | Records in a form suitable and readily available for review | Y | 4/11/05 |
| 63.1576(h) | Maintain records for 5 years | Y | 4/11/05 |
| 63.1576(i) | Records onsite for two years; may be maintained offsite for remaining 3 years | Y | 4/11/05 |
| <u>BAAQMD Condition # 18618</u> | | | |
| <u>Part 1</u> | <u>Throughput limit (basis: Regulation 2-1-234.3)</u> | <u>N</u> | |
| <u>Part 2</u> | <u>Recordkeeping (basis: Regulation 2-1-234.3)</u> | <u>N</u> | |

IV. Source Specific Applicable Requirements

Table IV – AP
Source-specific Applicable Requirements
S1426 – CP CATALYTIC CRACKING UNIT (CCU)

| | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|-----------------------------------|---|-----------------------------|-----------------------|
| BAAQMD Regulation 1 | General Provisions and Definitions (5/02/017/19/06) | | |
| 1-520 | Continuous Emission Monitoring | Y | |
| 1-520.5 | SO2 and opacity monitors at catalyst regenerators of CCUs | Y | |
| 1-522 | Continuous Emission Monitoring and Recordkeeping Procedures | Y | |
| 1-522.1 | Approval of Plans and Specifications | Y | |
| 1-522.2 | Installation Scheduling | Y | |
| 1-522.3 | CEM Performance Testing | Y | |
| 1-522.4 | Periods of Inoperation | Y | |
| 1-522.5 | Daily Monitor Calibration | Y | |
| 1-522.6 | CEM Maintenance | Y | |
| 1-522.7 | Excess Emissions Reported (Nature, Extent, and Cause) | N | |
| 1-522.8 | Monitoring Data Submittal | Y | |
| 1-522.9 | Records | Y | |
| 1-522.10 | Monitors Required By 1-521 or 2-1-403 | Y | |
| SIP Regulation 1 | PROVISIONS NO LONGER IN CURRENT RULE General Provisions and Definitions (6/28/99) | | |
| 1-522.7 | Excess Emissions Reported (Nature, Extent, Cause, and Corrective Action) | Y | |
| BAAQMD Regulation 6 Rule 1 | Particulate Matter – General Requirements Particulate Matter and Visible Emissions (12/05/0709/04/98) | | |
| 6-1-301 | Ringelmann No. 1 Limitation | Y N | |
| 6-1-302 | Opacity Limitation (where opacity monitor is required by the District) | Y N | |
| 6-1-305 | Visible Particles | Y N | |
| 6-1-310 | Particulate Weight Limitation | Y N | |
| 6-1-311 | General Operations (process weight rate limitation) | Y N | |
| 6-1-401 | Appearance of Emissions | Y N | |
| 6-1-501 | Sampling Facilities and Instruments Required (where opacity monitor is required by the District) | Y N | |
| 6-1-502 | Data, Records and Reporting (where opacity monitor is required by the District) | Y N | |

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Table IV – AP
Source-specific Applicable Requirements
S1426 – CP CATALYTIC CRACKING UNIT (CCU)

| | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|-----------------------------|-----------------------|
| SIP Regulation 6 | Particulate Matter and Visible Emissions (9/4/98) | | |
| 6-301 | Ringelmann No. 1 Limitation | Y | |
| 6-302 | Opacity Limitation (where opacity monitor is required by the District) | 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 | |
| 6-501 | Sampling Facilities and Instruments Required (where opacity monitor is required by the District) | Y | |
| 6-502 | Data, Records and Reporting (where opacity monitor is required by the District) | Y | |
| BAAQMD Regulation 8, Rule 9 | Vacuum Producing Systems (10/03/84) | | |
| 8-9-301 | Vacuum Producing Systems | Y | |
| BAAQMD Regulation 8, Rule 10 | Organic Compound – 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 | |

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IV. Source Specific Applicable Requirements

Table IV – AP
Source-specific Applicable Requirements
S1426 – CP CATALYTIC CRACKING UNIT (CCU)

| | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|----------------------|---|-----------------------------------|-----------------------------|
| SIP | Organic Compound – Process Vessel Depressurization (7/20/83) | | |
| Regulation 8, | | | |
| Rule 10 | | | |
| 8-10-301 | Process Vessel Depressurizing. | 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. | 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 | Organic Compounds – Equipment Leaks (09/15/04) | | |
| Regulation 8, | | | |
| Rule 18 | | | |
| <u>8-18-301</u> | <u>General</u> | <u>Y</u> | |
| <u>8-18-302</u> | <u>Valves</u> | <u>N</u> | |
| <u>8-18-303</u> | <u>Pumps and Compressors</u> | <u>N</u> | |
| <u>8-18-304</u> | <u>Connections</u> | <u>N</u> | |
| <u>8-18-305</u> | <u>Pressure Relief Devices</u> | <u>Y</u> | |
| <u>8-18-306</u> | <u>Non-repairable Equipment</u> | <u>N</u> | |
| <u>8-18-307</u> | <u>Liquid Leak</u> | <u>Y</u> | |
| <u>8-18-308</u> | <u>Alternative Compliance</u> | <u>Y</u> | |
| <u>8-18-401</u> | <u>Inspection</u> | <u>NY</u> | |
| <u>8-18-401.1</u> | <u>Inspection</u> | <u>Y</u> | |
| <u>through 401.8</u> | | | |
| <u>8-18-401.9</u> | <u>Inspection</u> | <u>N</u> | |
| <u>8-18-401.10</u> | <u>Inspection</u> | <u>N</u> | |
| <u>8-18-402</u> | <u>Identification</u> | <u>Y</u> | |
| <u>8-18-403</u> | <u>Visual Inspection Schedule</u> | <u>Y</u> | |
| <u>8-18-404</u> | <u>Alternative Inspection Schedule</u> | <u>Y</u> | |
| <u>8-18-405</u> | <u>Alternative Emission Reduction Plan</u> | <u>Y</u> | |

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Table IV – AP
Source-specific Applicable Requirements
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| | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|--|-----------------------------|-----------------------|
| <u>8-18-406</u> | <u>Interim Compliance</u> | <u>Y</u> | |
| <u>8-18-501</u> | <u>Portable Hydrocarbon Detector</u> | <u>Y</u> | |
| <u>8-18-502</u> | <u>Records</u> | Y | |
| <u>8-18-502.1 through 502.3</u> | <u>Records</u> | <u>Y</u> | |
| <u>8-18-502.4</u> | <u>Records</u> | <u>N</u> | |
| <u>8-18-503</u> | <u>Reports</u> | Y | |
| <u>8-18-503.1</u> | <u>Records</u> | <u>N</u> | |
| <u>8-18-503.2</u> | <u>Records</u> | <u>N</u> | |
| SIP BAAQMD Regulation 8, Rule 18 | Organic Compounds – Equipment Leaks (06/05/03) | | |
| 8-18-301 | General | 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 Leak | Y | |
| 8-18-308 | Alternative Compliance | Y | |
| 8-18-401 | Inspection | Y | |
| 8-18-402 | Identification | Y | |
| 8-18-502 | Records | Y | |
| BAAQMD Regulation 8, Rule 28 | Organic Compounds – Episodic Releases from Pressure Relief Devices at Petroleum Refineries and Chemical Plants (12/21/05) | | |
| <u>8-28-302</u> | <u>Pressure Relief Devices at New or Modified Sources at Petroleum Refineries</u> | <u>N</u> | |
| <u>8-28-303</u> | <u>Pressure Relief Devices at Existing Sources at Petroleum Refineries</u> | <u>N</u> | |
| <u>8-28-304</u> | <u>Repeat Release Pressure Relief Devices at Petroleum Refineries</u> | Y | |
| <u>8-28-304.1</u> | <u>Repeat Release Pressure Relief Devices at Petroleum Refineries</u> | <u>N</u> | |
| <u>8-28-304.2</u> | <u>Repeat Release Pressure Relief Devices at Petroleum Refineries</u> | <u>Y</u> | |

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Source-specific Applicable Requirements
S1426 – CP CATALYTIC CRACKING UNIT (CCU)

| | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|--|---|--|--------------------------------------|
| 8-28-401 | <u>Reporting at Petroleum Refineries and Chemical Plants</u> | N | |
| 8-28-402 | <u>Inspection</u> | N | |
| 8-28-404 | <u>Identification</u> | N | |
| 8-28-405 | <u>Process Safety Requirements</u> | N | |
| 8-28-502 | <u>Records</u> | N | |
| 8-28-503 | <u>Monitoring</u> | N | |
| SIP Regulation 8, Rule 28 | <u>Organic Compounds – Episodic Releases from Pressure Relief Devices at Petroleum Refineries and Chemical Plants (05/24/04)</u> | | |
| 8-28-302 | <u>Pressure Relief Devices at New or Modified Sources at Petroleum Refineries</u> | Y | |
| 8-28-303 | <u>Pressure Relief Devices at Existing Sources at Petroleum Refineries</u> | Y | |
| 8-28-304.1 | <u>Repeat Release Pressure Relief Devices at Petroleum Refineries</u> | Y | |
| 8-28-401 | <u>Reporting at Petroleum Refineries and Chemical Plants</u> | Y | |
| 8-28-402 | <u>Inspection</u> | Y | |
| 8-28-403 | <u>Records</u> | Y | |
| 8-28-404 | <u>Identification</u> | Y | |
| 8-28-405 | <u>Prevention Measures Procedures</u> | Y | |
| BAAQMD Regulation 9, Rule 1 | <u>Inorganic Gaseous Pollutants – Sulfur Dioxide (3/15/95; SIP approved 6/8/99)</u> | | |
| 9-1-310 | <u>Emission Limitations for Fluid Catalytic Cracking Units, Fluid Cokers, and Coke Calcining Kilns</u> | Y | |
| 9-1-310.1 | <u>Sulfur dioxide limit</u> | Y | |
| 9-1-310.3 | <u>Compliance with 9-1-110.1 and 110.2</u> | Y | |
| 9-1-502 | <u>Emission Monitoring Requirements (Regulations 1-520, 1-522)</u> | Y | |
| 40 CFR 60 Subpart A | <u>General Provisions (7/1/2000)</u> | | |
| 60.7 | <u>Notification and record keeping.</u> | Y | |
| 60.8 | <u>Performance tests.</u> | Y | |
| 60.11 | <u>Compliance with standards and maintenance requirements.</u> | Y | |
| 60.11(a) | <u>Performance test</u> | Y | |
| 60.11(b) | <u>Compliance with opacity standards</u> | Y | |
| 60.11(c) | <u>Opacity standards during SU/SD/Malfunction</u> | Y | |

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Table IV – AP
Source-specific Applicable Requirements
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| | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|--------------------------------|--|--|--------------------------------------|
| 60.11(d) | <u>Good air pollution control practice for minimizing emissions</u> | Y | |
| 60.11(e) | <u>Opacity related requirements</u> | Y | |
| 60.11(f) | <u>Special provisions</u> | Y | |
| 60.11(g) | <u>Any credible evidence or information</u> | Y | |
| 60.12 | Circumvention. | Y | |
| 60.13 | Monitoring requirements. | Y | |
| 60.13(i) | <u>Alternatives to any monitoring procedures or requirements</u> | Y | |
| 60.19 | General notification and reporting requirements. | Y | |
| 40 CFR 60 Subpart J | Standards of Performance for Petroleum Refineries (8/17/89) | | |
| 60.102 | Standard for Particulate Matter | Y | |
| 60.102(a)(1) | Limit on particulate matter from catalyst regenerator | Y | |
| 60.102(a)(2) | Limit on opacity of gases from catalyst regenerator | Y | |
| 60.102(b) | Limit on particulate matter from catalyst regenerator where gases pass through an incinerator or waste heat boiler in which auxiliary or supplemental fuel is burned | Y | |
| 60.103 | Standard for Carbon Monoxide | Y | |
| 60.103(a) | Limit on carbon monoxide emissions from catalyst regenerator | Y | |
| 60.104 | Standard for Sulfur Oxides | Y | |
| 60.104(b)(2) | Limit on sulfur oxide emissions from catalyst regenerator without add-on control device | Y | |
| 60.104(c) | 7-day rolling average | Y | |
| 60.105 | Monitoring of Emissions and Operations | Y | |
| 60.105(a)(1) | Continuous opacity monitoring requirement for catalyst regenerator emissions to atmosphere | Y | |
| 60.105(a)(2) | Continuous CO concentration monitoring requirement for catalyst regenerator emissions to atmosphere | Y | |
| 60.105(c) | Average coke burn-off rate (Mg (tons) per hour) and hours of operation | Y | |
| 60.105(d) | Rate of combustion of liquid or solid fossil-fuels and the hours of operation | Y | |
| 60.105(e) | Periods of excess emissions | Y | |
| 60.105(e)(1) | Opacity | Y | |
| 60.105(e)(2) | Carbon monoxide | Y | |
| 60.106 | Test methods and procedures | Y | |

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Source-specific Applicable Requirements
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| | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|-------------------------------------|--|--|--|
| 60.106(a) | Use procedures and test methods in appendix A | Y | |
| 60.106(b) | Particulate matter test method and compliance | Y | |
| 60.106(c) | Determination of particulate matter if auxiliary liquid or solid fossil-fuels are burned in an incinerator-waste heat boiler | Y | |
| 60.106(d) | CO test method and compliance | Y | |
| 60.106(g) | SO ₂ test method and compliance | Y | |
| 60.106(i)(12) | Alternative test methods and procedures | Y | |
| 60.107 | Reporting and recordkeeping requirements. | Y | |
| 60.108 | Performance test and compliance provisions. | Y | |
| 60.108(a) | Performance tests conducted for compliance under 60.104(b) | Y | |
| 60.108(d) | Daily performance tests | Y | |
| 60.108(e) | Written notification and daily tests if change of compliance method under 60.104(b) | Y | |
| 40 CFR Part 63 Subpart A | MACT General Provisions | | |
| 63.4 | Prohibited Activities and Circumvention | Y | 4/11/05 |
| 63.6 | Compliance with Standards and Maintenance Requirements | Y | 4/11/05 |
| 63.6(e) | Operation and Maintenance Requirements | Y | 4/11/05 |
| 63.6(f) | Compliance with Nonopacity Emission Standards | Y | 4/11/05 |
| 63.6(g) | Use of Alternative Nonopacity Emission Standard (optional) | Y | 4/11/05 |
| 63.6(h) | Compliance with Opacity and Visible Emission Standards | Y | 4/11/05 |
| 63.7 | Performance Tests | Y | 9/8/05 |
| 63.8 | Monitoring | Y | 4/11/05 |
| 63.9 | Notifications | Y | |
| 63.9(e) | Notification of Performance Test | Y | 30 days before test |
| 63.9(g) | Notification Requirements for sources with Continuous Monitoring Systems | Y | Simultaneous with notice of performance test |
| 63.9(h) | Notification of Compliance Status | Y | 5/11/05 and Subsequent |
| 63.9(j) | Change in information already provided | Y | 4/11/05 |

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| | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------------------|---|--|--------------------------------------|
| 63.10 | Recordkeeping and Reporting Requirements | Y | 4/11/05 |
| 63.10(a) | General Information | Y | 4/11/05 |
| 63.10(b) | General Recordkeeping Requirements | Y | 4/11/05 |
| 63.10(b)(2) | Records to be maintained | Y | 4/11/05 |
| 63.10(c) | Recordkeeping requirements for Continuous Monitoring Systems | Y | 4/11/05 |
| 63.10(d) | General Reporting Requirements | Y | 4/11/05 |
| 63.10(e) | Additional reports for sources with Continuous Monitoring Systems | Y | 4/11/05 |
| 63.10(e)(2) | Reporting results of Continuous Monitoring System performance evaluation | ✘ | 9/8/05 |
| 63.10(e)(3) | Excess Emissions and Continuous Monitoring System Performance Report and Summary Report | Y | 4/11/05 |
| 63.10(e)(4) | Reporting COMS data produced during performance test | ✘ | 9/8/05 |
| 40 CFR 63 Subpart UUU | NESHAP for Petroleum Refineries: Catalytic Cracking Units | | |
| 63.1564 | Requirements for metal HAP emissions from catalytic cracking units | Y | 4/11/05 |
| 63.1564(a) | Emission Limitations and Work Practice Standards | Y | 4/11/05 |
| 63.1564(a)(1)(i) | PM Emission Limitation for catalytic cracking units electing to meet NSPS limit (Option 1): PM emissions must not exceed 1 lb per 1,000 lb of coke burn-off, plus 0.1 lb/MMBtu of heat input to the CO boiler; and opacity must not exceed 30% except for one 6-minute opacity reading in any one hour (Table 1, Item 2) | ✘ | 4/11/05 |
| 63.1564(a)(1) | <u>PM Emission Limitation for catalytic cracking units subject to NSPS limit: PM emissions must not exceed 1 lb per 1,000 lb of coke burn-off, plus 0.1 lb/MMBtu of heat input to the CO boiler; and opacity must not exceed 30% except for one 6-minute opacity reading in any one hour (Table 1, Item 1)</u> | <u>Y</u> | |
| 63.1564(a)(2) | <u>Comply with each operating limit in Table 2 of this subpart that applies to you</u> | <u>Y</u> | |
| 63.1564(a)(3) | Prepare Operation, Maintenance, and Monitoring Plan and operate at all times according to the procedures in the plan | Y | 4/11/05 |
| 63.1564(b) | Initial Compliance Demonstration | ✘ | 4/11/05 |
| 63.1564(b)(1) | Install Continuous Opacity Monitoring System (Table 3, Item 2) | ✘ | 4/11/05 |
| 63.1564(b)(2) | Performance Test (Table 4, Items 1.a through 1.e, 2.a through 2.e) | ✘ | 9/8/05 |

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Source-specific Applicable Requirements
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| | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------|--|-----------------------------|-----------------------|
| 63.1564(b)(4)(i) | Compute PM emission rate (lb/1,000 lb coke burn-off rate) for each Performance Test run | Y | 9/8/05 |
| 63.1564(b)(5) | Initial Compliance Demonstration: Calculate PM emission rate using Equations 1, 2 and 3 of 63.1564(b)(4)(i); Opacity limit met; Continuous Opacity Monitoring System meets applicable requirements (Table 5, Item 2) | Y | 9/8/05 |
| 63.1564(b)(5) | Initial Compliance Demonstration: Certify compliance with emission limits as part of NOCS (Table 5, Item 1) | Y | |
| 63.1564(b)(6) | Demonstrate initial compliance with work practice standard by submitting Operation, Maintenance, and Monitoring Plan | Y | 5/11/05 |
| 63.1564(b)(7) | Submit Notification of Compliance Status | Y | 5/11/05 |
| 63.1564(c) | Continuous Compliance Demonstration | Y | 4/11/05 |
| 63.1564(c)(1) | Demonstration of continuous compliance with emission limitation: Record daily the average coke burn-off rate; maintain PM emission rate below limit; record daily the rate of fuel combustion and hours of fuel combustion; maintain PM emissions from fuel combustion below limits; collect continuous opacity monitoring data and maintain opacity within limit (Table 6, Item 21) | Y | 4/11/05 |
| 63.1564(c)(2) | Demonstration of continuous compliance with work practice standard by maintaining records to document conformance with Operation, Maintenance, and Monitoring Plan | Y | 4/11/05 |
| 63.1565 | Requirements for organic HAP emissions from catalytic cracking units | Y | 4/11/05 |
| 63.1565(a) | Emission Limitations and Work Practice Standards | Y | 4/11/05 |
| 63.1565(a)(1)(i) | Emission limitation for catalytic cracking units electing to meet NSPS standard (Option 1): CO emissions from CO boiler must not exceed 500 ppmvd (Table 8, Item 2.a) | Y | 4/11/05 |
| 63.1565(a)(1) | Emission limitation for catalytic cracking units subject to NSPS standard: CO emissions from CO boiler must not exceed 500 ppmvd (Table 8, Item 1) | Y | |
| 63.1565(a)(2) | Comply with each site specific operating limit in Table 9 of this subpart that applies to you. | Y | |
| 63.1565(a)(3) | Prepare Operation, Maintenance, and Monitoring Plan and operate at all times in accordance with the plan | Y | 4/11/05 |
| 63.1565(b) | Initial Compliance Demonstration | Y | 4/11/05 |

IV. Source Specific Applicable Requirements

Table IV – AP
Source-specific Applicable Requirements
S1426 – CP CATALYTIC CRACKING UNIT (CCU)

| | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------|--|-----------------------------|-----------------------|
| 63.1565(b)(1) | Install, operate and maintain Continuous Emission Monitoring System to measure and record the concentration of CO emissions (Table 10, Item 2.b) | Y | 4/11/05 |
| 63.1565(b)(2) | Performance Test (Table 11, Items 1.a through 1.d, 2) | Y | 9/8/05 |
| 63.1565(b)(4) | Demonstrate initial compliance with CO limit: hourly CO emissions over 24-hour period of performance test not more than 500 ppmvd; performance evaluation shows CEMS meets applicable requirements (Table 12, Item 2.a.ii) | Y | 9/8/05 |
| 63.1565(b)(5) | Demonstrate initial compliance with work practice standard by submitting Operation, Maintenance, and Monitoring Plan as part of NOCS. | Y | 5/11/05 |
| 63.1565(b)(6) | Submit Notice of Compliance Status. | Y | 5/11/05 |
| 63.1565(c) | Continuous Compliance Demonstration | Y | 4/11/05 |
| 63.1565(c)(1) | Demonstrate continuous compliance with emission limitation by collecting hourly average CO monitoring data and maintaining hourly average CO concentrations within limit (Table 13, Item 2.1) | Y | 4/11/05 |
| 63.1565(c)(2) | Demonstrate continuous compliance with work practice standard by maintaining records to document conformance with Operation, Maintenance, and Monitoring Plan | Y | 4/11/05 |
| 63.1569 | Bypass Lines | Y | 4/11/05 |
| 63.1569(a) | Work Practice Standards for Bypass Lines | Y | 4/11/05 |
| 63.1569(a)(1)(i) | Work Practice Standard (Option 1): Install and operate a device (Level Indicator/Recorder) to continuously detect, at least every hour, whether flow is present in bypass line. (Table 36, Item 1) | Y | 4/11/05 |
| 63.1569(a)(3) | Prepare Operation, Maintenance, and Monitoring Plan and operate at all times according to the procedures in the plan | Y | 4/11/05 |
| 63.1569(b) | Initial Compliance Demonstration | Y | 4/11/05 |
| 63.1569(b)(1) | Performance Test for level monitor: record during the performance test whether the level recorder was operating and whether flow was detected at any time (Table 37, Item 1) | Y | 9/8/05 |
| 63.1569(b)(2) | Demonstrate Initial Compliance with work practice standard during performance test (Option 1): equipment operates properly during each performance test run (Table 38, Item 1.a) | Y | 9/8/05 |
| 63.1569(b)(3) | Submit Operation, Maintenance, and Monitoring Plan as part of NOCS | Y | 5/11/05 |
| 63.1569(b)(4) | Submit Notice of Compliance Status | Y | 5/11/05 |

Comment [SJT1]: Exempt if demonstrate CO <50 ppm

Comment [SJT2]: Exempt if demonstrate CO <50 ppm

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Table IV – AP
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S1426 – CP CATALYTIC CRACKING UNIT (CCU)

| | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---------------|--|------------------------------------|------------------------------|
| 63.1569(c) | Continuous Compliance Demonstration | Y | 4/11/05 |
| 63.1569(c)(1) | Demonstrate continuous compliance with (Option 1): Continuously monitor and record whether flow is present in bypass line; record whether device is operating properly (Table 39, Item 1) | Y | 4/11/05 |
| 63.1569(c)(2) | Demonstrate continuous compliance with Work Practice Standard by complying with procedures in Operation, Maintenance, and Monitoring Plan | Y | 4/11/05 |
| 63.1570 | General Compliance Requirements | Y | 4/11/05 |
| 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 | 4/11/05 |
| 63.1570(b) | Operate in compliance with opacity and visible emissions standards at all times except during periods of startup, shutdown, and malfunction, as specified in 63.6(h)(1) | Y | 4/11/05 |
| 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 | 4/11/05 |
| 63.1570(d) | Develop and implement startup, shutdown, and malfunction plan (SSMP) in accordance with 63.6(e)(3) | Y | 4/11/05 |
| 63.1570(e) | Operate in accordance with SSMP during periods of startup, shutdown, and malfunction. (Reserved) | Y | 4/11/05 |
| 63.1570(f) | Report deviations from compliance with this subpart according to the requirements of 63.1575 | Y | 4/11/05 |
| 63.1570(g) | Deviations that occur during startup, shutdown, or malfunction are not violations if operating in accordance with SSMP | Y | 4/11/05 |
| 63.1571 | Performance Tests | <u>Y</u> | |
| 63.1571(a) | Conduct Performance Test and submit results no later than 150 days after compliance date | Y | 9/8/05 |
| 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 | 5/11/05 |

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Table IV – AP
Source-specific Applicable Requirements
S1426 – CP CATALYTIC CRACKING UNIT (CCU)

| | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|-----------------------|--|--|--------------------------------------|
| 63.1571(b) | Requirements for Performance Tests | ✗ | 9/8/05 |
| 63.1571(b)(1) | Conduct performance tests in accordance with the requirements of 63.7(e)(1) | ✗ | 9/8/05 |
| 63.1571(b)(2) | Except for opacity and visual emissions observations, conduct three separate test runs of at least an hour for each performance test | ✗ | 9/8/05 |
| 63.1571(b)(3) | Conduct each performance evaluation in accordance with the requirements of 63.8(e) | ✗ | 9/8/05 |
| 63.1571(b)(4) | Performance tests not conducted during periods of startup, shutdown, or malfunction | ✗ | 9/8/05 |
| 63.1571(b)(5) | Arithmetic average of emission rates | ✗ | 9/8/05 |
| 63.1571(e) | Changes to operating limits (optional) | Y | |
| 63.1572 | Monitoring installation, operation, and maintenance requirements | Y | 4/11/05 |
| 63.1572(a) | Requirements for installation, operation, and maintenance of continuous emission monitoring system | Y | 4/11/05 |
| 63.1572(a)(1) | CO CEMS must meet requirements of Performance Specification 4 (40 CFR Part 60, App B) (Table 40, Item 2) | Y | 4/11/05 |
| 63.1572(a)(2) | Conduct performance evaluation for CO CEMS according to Performance Specification 4 (Table 40, Item 2) | Y | 9/8/05 |
| 63.1572(a)(3) | CEMS complete one cycle of operation for each 15-minute period | Y | 4/11/05 |
| 63.1572(a)(4) | Data reduction per 63.8(g)(2) | Y | 4/11/05 |
| 63.1572(b) | Requirements for installation, operation, and maintenance of continuous opacity monitoring system | Y | 4/11/05 |
| 63.1572(b)(1) | COMS must meet requirements of Performance Specification 1 (40 CFR Part 60, App B) (Table 40, Item 1) | Y | 4/11/05 |
| 63.1572(b)(2) | Conduct performance evaluation for CO CEMS according to Performance Specification 1 | Y | 9/8/05 |
| 63.1572(b)(3) | COMS complete one cycle of sampling and analyzing for each 10-second period and one cycle of data recording for each 6-minute period | Y | 4/11/05 |
| 63.1572(d) | Data monitoring and collection requirements | Y | 4/11/05 |
| 63.1572(d)(1) | Conduct monitoring at all times, except for monitoring malfunctions, repairs, and QA/QC activities | Y | 4/11/05 |
| 63.1572(d)(2) | Data recorded during monitoring malfunctions, repairs, and QA/QC activities not used for compliance purposes | Y | 4/11/05 |
| 63.1573 | Monitoring Alternatives | Y | 4/11/05 |

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Table IV – AP
Source-specific Applicable Requirements
S1426 – CP CATALYTIC CRACKING UNIT (CCU)

| | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|-------------------|--|--|--------------------------------------|
| 63.1573(a)(2) | <u>Monitoring Alternative for CCUs with a gas analyzer installed in the catalytic cracking regenerator exhaust vent prior to the addition of air or other gas streams.</u> | Y | |
| 63.1573(c) | <u>Monitoring Alternative- automated data compression system</u> | Y | |
| 63.1573(d) | Monitoring for alternative parameters (optional) | Y | 4/11/05 |
| 63.1573(e) | Alternative Monitoring Requests (optional) | Y | 4/11/05 |
| 63.1574 | Notification Requirements | Y | 4/11/05 |
| 63.1574(a) | Notifications Required by Subpart A | Y | 5/11/05 and subsequent |
| 63.1574(a)(2) | Submit notification of intent to conduct performance test 30 days before scheduled (instead of 60 days) | Y | 30 days before test |
| 63.1574(a)(3) | Notification of Compliance Status | Y | 5/11/05 |
| 63.1574(a)(3)(i) | Submit Notification of Compliance Status for initial compliance demonstration that does not include a performance test, no later than 30 days following completion of initial compliance demonstration | Y | 5/11/05 |
| 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 | 9/8/05 |
| 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 | 5/11/05 |
| 63.1574(f) | Requirement to prepare Operation, Maintenance, and Monitoring Plan | Y | 4/11/05 |
| 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. <u>Changes must be reviewed and approved by permitting authority.</u> | Y | 9/8/05 |
| 63.1574(f)(2) | Minimum contents of Operation, Maintenance, and Monitoring Plan | Y | 4/11/05 |
| 63.1575 | Reports | Y | 4/11/05 |
| 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 | 7/31/05 |
| 63.1575(b) | Specified semiannual report submittal dates | Y | 7/31/05 |
| 63.1575(c) | Information required in compliance report | Y | 7/31/05 |

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Table IV – AP
Source-specific Applicable Requirements
S1426 – CP CATALYTIC CRACKING UNIT (CCU)

| | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|-----------------------------|--|--|--------------------------------------|
| 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 | 7/31/05 |
| 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 | 7/31/05 |
| 63.1575(f) | Additional information for compliance reports | Y | 7/31/05 |
| 63.1575(f)(1) | Requirement to submit performance test reports | Y | 1/31/06 |
| 63.1575(f)(2) | Submittal of requested change in the applicability of an emission standard | Y | 7/31/05 |
| 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 | 4/1/05 |
| 63.1575(h) | Reporting requirements for startups, shutdowns, and malfunctions | Y | 4/1/05 |
| 63.1576 | Recordkeeping | Y | 4/1/05 |
| 63.1576(a) | Required Records – General | Y | 4/1/05 |
| 63.1576(b) | Records for CEMS and COMS | Y | 4/1/05 |
| 63.1576(c) | Records of visible emissions observations | Y | 4/1/05 |
| 63.1576(d) | Records required by Tables 6, 7, 13, and 14 of Subpart UUU | Y | 4/1/05 |
| 63.1576(e) | Maintain copy of Operation, Maintenance, and Monitoring Plan | Y | 4/1/05 |
| 63.1576(f) | Records of changes that affect emission control system performance | Y | 4/1/05 |
| 63.1576(g) | Records in a form suitable and readily available for review | Y | 4/1/05 |
| 63.1576(h) | Maintain records for 5 years | Y | 4/1/05 |
| 63.1576(i) | Records onsite for two years; may be maintained offsite for remaining 3 years | Y | 4/1/05 |
| Condition # 7618 | | | |
| Part A | Emissions limitations [basis: Regulation 2-2-302] | Y | |
| Part B | Emissions profiles and emission factors [basis: Regulation 2-2-302] | Y | |
| Part B.1 | Baseline profiles [basis: Regulation 2-2-302] | Y | |
| Part B.4 | Annual review of CCU emission factors [basis: Regulation 2-2-302] | Y | |
| Part B.6 | Modification of baseline profiles for particulates, NOx, SO2, and CO [basis: Regulation 2-2-302] | Y | |
| Part C | Actions resulting from non-compliance [basis: Regulation 2-2-302] | N | |
| Part C.c | Catalytic Cracker feed throughput limit [basis: Regulation 2-2-302] | Y | |
| Part F | Reporting [basis: Cumulative Increase] | Y | |

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Table IV – AP
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| | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|--|--|--------------------------------------|
| Part G | Records [basis: Cumulative Increase] | Y | |
| Condition # 12911 | Fugitive requirements for pressure relief valves [basis: BACT] | Y | |
| Part 1 | Catalyst Storage and Injection System Baghouse (A1427) in proper working order [basis: BACT] | Y | |
| Part 2 | Ringelmann 0.5 requirement [basis: BACT] | Y | |
| Part 3 | vent to S1507, S1509, and/or S1512 [basis: Regulation 2-6-409.2] | Y | |
| Part 4 | Water seal of the dump stack [basis: Regulation 6-1-301] | Y N | |
| Part 5 | Monitoring and recordkeeping of water seal [basis: Regulation 6-1-301] | Y N | |
| BAAQMD Condition # 18407 | | | |
| Part 1 | Abated by A1426 Baghouse for CCU Spent Catalyst Hopper (Portable) (basis: Cumulative Increase) | Y | |
| Part 2 | Throughput loading limit [basis: Cumulative Increase] | Y | |
| Part 3 | Recordkeeping [basis: Cumulative Increase] | Y | |
| BAAQMD Condition # 18618 | | | |
| Part 1 | Throughput limit (basis: Regulation 2-1-234.3) | N | |
| Part 2 | Recordkeeping (basis: Regulation 2-1-234.3) | N | |
| BAAQMD Condition # 18643 | Applies to S1426 | | |
| Part 2 | New pump in light liquid requirement [basis: BACT/TBACT; Cumulative Increase] | Y | |
| Part 3 | New valves in POC gas and light liquid requirement [basis: BACT/TBACT; Cumulative Increase] | Y | |
| Part 4 | New flanges requirement [basis: BACT/TBACT; Cumulative Increase] | Y | |
| Part 5 | New centrifugal compressors requirement [basis: BACT/TBACT; Cumulative Increase] | Y | |
| Part 6 | New pressure relief valve requirement [basis: BACT/TBACT; Cumulative Increase] | Y | |

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IV. Source Specific Applicable Requirements

Table IV – AP
Source-specific Applicable Requirements
S1426 – CP CATALYTIC CRACKING UNIT (CCU)

| | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|-----------------------------|-----------------------|
| <u>BAAQMD</u> <u>AMP</u> <u>Condiiton #</u> <u>24335</u> | | | |
| <u>Part 1</u> | <u>Alternative procedures for demonstrating compliance with the SOx limit (calculated as sulfur dioxide) in NSPS J 60.104(b)(2). (Basis: Alternative Monitoring Plan, 40 CFR 60.13(i))</u> | <u>Y</u> | |
| <u>Part 2</u> | <u>SO2 CEM certification and RATA requirement. (Basis: Alternative Monitoring Plan, 40 CFR 60.13(i))</u> | <u>Y</u> | |
| <u>Part 3</u> | <u>Alternative procedures for measuring oxygen (O₂), carbon monoxide (CO) and carbon dioxide (CO₂) in the CCU regenerator off-gas with O₂, CO and CO₂ CEMS in place of using Methods 1,2,3 and 4 in 40 CFR Part 60, Appendix A. (Basis: Alternative Monitoring Plan, 40 CFR 60.13(i))</u> | <u>Y</u> | |
| <u>Part 4</u> | <u>O₂, CO, and CO₂ CEMs certification and RATA requirement. (Basis: Alternative Monitoring Plan, 40 CFR 60.13(i))</u> | <u>Y</u> | |
| <u>Part 5</u> | <u>Procedures for calculating the equivalent SO_x/Mg coke burn-off. (Basis: Alternative Monitoring Plan, 40 CFR 60.13(i))</u> | <u>Y</u> | |

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IV. Source Specific Applicable Requirements

Table IV – AQ
Source-specific Applicable Requirements
S1431 – CP SULFUR PLANT 1 (SRU1)
S1432 – CP SULFUR PLANT 2 (SRU2)
S1765– OPCEN SULFUR PLANT 3 (SRU3)
S4180 – OPCEN SULFUR PLANT 4 (SRU4)

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|-----------------------------------|---|-----------------------------|-----------------------|
| BAAQMD Regulation 1 | General Provisions and Definitions (5/2/04/7/19/06) | | |
| 1-520 | Continuous Emission Monitoring | Y | |
| 1-520.4 | SO2 monitor at sulfur recovery plants emitting more than 100 lb/day SO2 | Y | |
| 1-520.8 | Monitors required by BAAQMD Regulation 10 | Y | |
| 1-522 | Continuous Emission Monitoring and Recordkeeping Procedures | Y | |
| 1-522.1 | Approval of Plans and Specifications | Y | |
| 1-522.2 | Installation Scheduling | Y | |
| 1-522.3 | CEM Performance Testing | Y | |
| 1-522.4 | Periods of Inoperation | Y | |
| 1-522.5 | Daily Monitor Calibration | Y | |
| 1-522.6 | CEM Maintenance | Y | |
| 1-522.7 | Excess Emissions Reported (Nature, Extent, and Cause) | N | |
| 1-522.8 | Monitoring Data Submittal | Y | |
| 1-522.9 | Records | Y | |
| 1-522.10 | Monitors Required By 1-521 or 2-1-403 | Y | |
| SIP Regulation 1 | PROVISIONS NO LONGER IN CURRENT RULE General Provisions and Definitions (6/28/99) | | |
| 1-522.7 | Excess Emissions Reported (Nature, Extent, Cause, and Corrective Action) | Y | |
| BAAQMD Regulation 6 Rule 1 | Particulate Matter – General Requirements Particulate Matter and Visible Emissions (12/05/0709/04/98) | | |
| 6-1-301 | Ringelmann No. 1 Limitation | N | |
| 6-1-305 | Visible Particles | N | |
| 6-1-310 | Particulate Weight Limitation | N | |
| 6-1-311 | General Operations (process weight rate limitation) | N | |
| 6-1-330 | Sulfur Recovery Units (SO3, H2SO4 emission limitations) | N | |
| 6-1-401 | Appearance of Emissions | N | |

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Table IV – AQ
Source-specific Applicable Requirements
S1431 – CP SULFUR PLANT 1 (SRU1)
S1432 – CP SULFUR PLANT 2 (SRU2)
S1765– OPCEN SULFUR PLANT 3 (SRU3)
S4180 – OPCEN SULFUR PLANT 4 (SRU4)

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------------------------|--|-----------------------------|-----------------------|
| SIP Regulation 6 | Particulate Matter and Visible Emissions (9/4/98) | | |
| 6-301 | Ringelmann No. 1 Limitation | Y | |
| 6-305 | Visible Particles | Y | |
| 6-310 | Particulate Weight Limitation | Y | |
| 6-311 | General Operations (process weight rate limitation) | Y | |
| 6-330 | Sulfur Recovery Units (SO ₃ , H ₂ SO ₄ emission limitations) | Y | |
| 6-401 | Appearance of Emissions | Y | |
| BAAQMD Regulation 9, Rule 1 | Inorganic Gaseous Pollutants – Sulfur Dioxide (3/15/95) | | |
| 9-1-307 | Emission Limitations for Sulfur Recovery Plants | Y | |
| 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 andrecovers: 95% of H ₂ S from refinery fuel gas, and 95% of H ₂ S and ammonia from process water streams | N | |
| 9-1-502 | Emission Monitoring Requirements (Regulations 1-520, 1-522) | Y | |
| SIP Regulation 9, Rule 1 | Inorganic Gaseous Pollutants – Sulfur Dioxide (06/08/99) | | |
| 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 H ₂ S from refinery fuel gas, 95% of H ₂ S and ammonia from process water streams | Y | |
| 40 CFR 60 Subpart A | General Provisions (2/12/98) | | |
| 60.7 | Notification and record keeping | Y | |
| 60.8 | Performance tests | Y | |
| 60.11 | Compliance with standards and maintenance requirements | Y | |

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Table IV – AQ
Source-specific Applicable Requirements
S1431 – CP SULFUR PLANT 1 (SRU1)
S1432 – CP SULFUR PLANT 2 (SRU2)
S1765– OPCEN SULFUR PLANT 3 (SRU3)
S4180 – OPCEN SULFUR PLANT 4 (SRU4)

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|----------------------------|--|-----------------------------|-----------------------|
| 60.11(a) | Performance test | Y | |
| 60.11(d) | Good air pollution control practice for minimizing emissions | Y | |
| 60.11(f) | Special provisions | Y | |
| 60.11(g) | Any credible evidence or information | Y | |
| 60.12 | Circumvention | 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), ofPart 60 | Y | |
| 60.13(b) | Continuous monitoring systems and devices operational prior to performance tests required by 60.8 | Y | |
| 60.13(d) | Continuous monitoring system zero and span calibration requirements | Y | |
| 60.13(e) | Continuous monitoring system minimum frequency of operation | Y | |
| 60.13(f) | Continuous monitoring system installation location requirement | Y | |
| 40 CFR 60 Subpart J | Standards of Performance for Petroleum Refineries (8/17/89) | | |
| 60.104 | Standards for Sulfur Dioxide | Y | |
| 60.104(a)(2)(i) | Claus sulfur recovery plant emissions shall not exceed 250 ppmv SO ₂ at 0% excess air (for oxidation or reduction control systems followed by incineration) | Y | |
| 60.105 | Monitoring of Emissions and Operations | Y | |
| 60.105(a)(5) | Claus sulfur recovery plants with oxidation or reduction control systems followed by incineration shall continuously monitor and record the concentration (dry basis, 0% excess air) of SO ₂ emissions; a continuous O ₂ monitor shall also be used to provide excess air correction | Y | |
| 60.105(e)(4) | Definition of excess emissions | Y | |
| 60.106 | Test methods and procedures | Y | |
| 60.106(a) | Use procedures and test methods in appendix A | Y | |
| 60.106(f)(1) | SO ₂ test method and compliance | Y | |
| 60.106(f)(3) | Oxygen concentration for excess air | Y | |

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Table IV – AQ
Source-specific Applicable Requirements
S1431 – CP SULFUR PLANT 1 (SRU1)
S1432 – CP SULFUR PLANT 2 (SRU2)
S1765– OPCEN SULFUR PLANT 3 (SRU3)
S4180 – OPCEN SULFUR PLANT 4 (SRU4)

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|--------------------------|--|-----------------------------|-----------------------|
| BAAQMD Condition # 18618 | | | |
| Part 1 | Throughput limit (basis: Regulation 2-1-234.3) | N | |
| Part 2 | Recordkeeping (basis: Regulation 2-1-234.3) | N | |
| Part 8 | Source test to verify compliance with Regulation 6-1-330 (basis: Regulation 2-6-409.2) | Y N | |

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Source-specific Applicable Requirements
S1431 – CP SULFUR PLANT 1 (SRU1)
S1432 – CP SULFUR PLANT 2 (SRU2)
S1765– OPCEN SULFUR PLANT 3 (SRU3)
S4180 – OPCEN SULFUR PLANT 4 (SRU4)

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|--------------------------|--|-----------------------------|-----------------------|
| | See Table IV – AQ for additional requirements. | | |
| 40 CFR Part 63 Subpart A | MACT General Provisions | | |
| 63.4 | Prohibited Activities and Circumvention | Y | 4/11/05 |
| 63.6 | Compliance with Standards and Maintenance Requirements | Y | 4/11/05 |
| 63.6(e) | Operation and Maintenance Requirements | Y | 4/11/05 |
| 63.6(f) | Compliance with Nonopacity Emission Standards | Y | 4/11/05 |
| 63.6(g) | Use of Alternative Nonopacity Emission Standard (optional) | Y | 4/11/05 |
| 63.7 | Performance Tests | Y | 9/8/05 |
| 63.8 | Monitoring | Y | 4/11/05 |
| 63.9 | Notifications | Y | 4/11/05 |

IV. Source Specific Applicable Requirements

Table IV – ~~AqaA~~Qa
Source-specific Applicable Requirements
S1431 – CP SULFUR PLANT 1 (SRU1)
S1432 – CP SULFUR PLANT 2 (SRU2)
S1765 – OPCEN SULFUR PLANT 3 (SRU3)
S4180 – OPCEN SULFUR PLANT 4 (SRU4)

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------------------|--|-----------------------------|--|
| 63.9(e) | Notification of Performance Test | Y | 30 days before test |
| 63.9(g) | Notification Requirements for sources with Continuous Monitoring Systems | Y | Simultaneous with notice of performance test |
| 63.9(h) | Notification of Compliance Status | Y | 5/11/05 and Subsequent |
| 63.9(j) | Change in information already provided | Y | 4/11/05 |
| 63.10 | Recordkeeping and Reporting Requirements | Y | 4/11/05 |
| 63.10(a) | General Information | Y | 4/11/05 |
| 63.10(b) | General Recordkeeping Requirements | Y | 4/11/05 |
| 63.10(b)(2) | Records to be maintained | Y | 4/11/05 |
| 63.10(c) | Recordkeeping requirements for Continuous Monitoring Systems | Y | 4/11/05 |
| 63.10(d) | General Reporting Requirements | Y | 4/11/05 |
| 63.10(e) | Additional reports for sources with Continuous Monitoring Systems | Y | 4/11/05 |
| 63.10(e)(2) | Reporting results of Continuous Monitoring System performance evaluation | Y | 9/8/05 |
| 63.10(e)(3) | Excess Emissions and Continuous Monitoring System Performance Report and Summary Report | Y | 4/11/05 |
| 40 CFR 63 Subpart UUU | NESHAP for Petroleum Refineries: Sulfur Recovery Units | | |
| 63.1568 | Requirements for Sulfur Recovery Units | Y | 4/11/05 |
| 63.1568(a) | Emission Limitations and Work Practice Standards for Sulfur Recovery Units | Y | 4/11/05 |
| 63.1568(a)(1) | <u>Sulfur Emission Limitation from Claus sulfur recovery units subject to NSPS Limits: 250 ppmvd SO₂ at 0% excess air (Table 29, Item 1) Emission Limitations</u> | Y | 4/11/05 |
| 63.1568(a)(1) | Sulfur Emission Limitation from Claus sulfur recovery units electing to | Y | 4/11/05 |

IV. Source Specific Applicable Requirements

**Table IV – ~~Aq~~AQ
 Source-specific Applicable Requirements
 S1431 – CP SULFUR PLANT 1 (SRU1)
 S1432 – CP SULFUR PLANT 2 (SRU2)
S1765 – OPCEN SULFUR PLANT 3 (SRU3)
S4180 – OPCEN SULFUR PLANT 4 (SRU4)**

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|--------------------------|--|-----------------------------|-----------------------|
| (i) | meet NSPS Limits: 250 ppmvd SO₂ at 0% excess air. (Table 29, Item 2.a) | | |
| 63.1568(a)(3) | Prepare Operation, Maintenance, and Monitoring Plan and operate at all times according to the procedures in the plan | Y | 4/11/05 |
| 63.1568(b) | Demonstrate Initial Compliance with Emission Limitation and Work Practice Standard | Y | 4/11/05 |
| 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 | 4/11/05 |
| 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 | 4/11/05 |
| 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 | 9/8/05 |
| 63.1568(b)(6) | Demonstrate initial compliance by submitting Operation, Maintenance, and Monitoring Plan | Y | 5/11/05 |
| 63.1568(b)(7) | Submit Notice of Compliance Status | Y | 5/11/05 |
| 63.1568(c) | Demonstrate Continuous Compliance with Emission Limitation and Work Practice Standards | Y | 4/11/05 |
| 63.1568(c)(1) | Demonstrate Continuous Compliance with Emission Limitation: collect hourly average SO ₂ 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 12.a) | Y | 4/11/05 |
| 63.1568(c)(2) | Demonstrate Continuous Compliance with Work Practice Standards by complying with the procedures in Operation, Maintenance, and Monitoring Plan. | Y | 4/11/05 |
| 63.1569 | Bypass Lines | Y | 4/11/05 |
| 63.1569(a) | Work Practice Standards for Bypass Lines | Y | 4/11/05 |

IV. Source Specific Applicable Requirements

**Table IV – ~~AqA~~AQa
 Source-specific Applicable Requirements
 S1431 – CP SULFUR PLANT 1 (SRU1)
 S1432 – CP SULFUR PLANT 2 (SRU2)
S1765 – OPCEN SULFUR PLANT 3 (SRU3)
S4180 – OPCEN SULFUR PLANT 4 (SRU4)**

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|--------------------------|--|-----------------------------|-----------------------|
| 63.1569(a)(1)(iii) | Work Practice Standard: Option 3 – <u>Elect to seal the line by installing a solid blind between piping flanges</u> (Table 36, Item 3) | Y | 4/11/05 |
| 63.1569(a)(3) | Prepare Operation, Maintenance, and Monitoring Plan and operate at all times according to the procedures in the plan | Y | 4/11/05 |
| 63.1569(b) | Initial Compliance Demonstration | Y | 5/11/05 |
| 63.1569(b)(2) | Initial Compliance Demonstration: as part of Notification of Compliance Status, certify that equipment is installed, the equipment operational by compliance date, and identify the type of equipment installed. (Table 38, Item 1.c) | Y | 5/11/05 |
| 63.1569(b)(3) | Submit Operation, Maintenance, and Monitoring Plan as part of NOCS | Y | 5/11/05 |
| 63.1569(b)(4) | Submit Notification of Compliance Status | Y | 4/11/05 |
| 63.1569(c) | Continuous Compliance Demonstration | Y | 4/11/05 |
| 63.1569(c)(1) | Visually inspect the blind at least once a month and record whether the blind is maintained in the correct position (Table 39, Item 3) | Y | 4/11/05 |
| 63.1569(c)(2) | Comply with procedures in Operation, Maintenance, and Monitoring Plan | Y | 4/11/05 |
| 63.1570 | General Compliance Requirements | Y | 4/11/05 |
| 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 | 4/11/05 |
| 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 | 4/11/05 |
| 63.1570(d) | Develop and implement startup, shutdown, and malfunction plan (SSMP) in accordance with 63.6(e)(3) | Y | 4/11/05 |
| 63.1570(e) | Operate in accordance with SSMPP during periods of startup, shutdown, and malfunction (Reserved) | Y | 4/11/05 |
| 63.1570(f) | Report deviations from compliance with this subpart according to the requirements of 63.1575 | Y | 4/11/05 |

IV. Source Specific Applicable Requirements

**Table IV – ~~Aq~~AQ
 Source-specific Applicable Requirements
 S1431 – CP SULFUR PLANT 1 (SRU1)
 S1432 – CP SULFUR PLANT 2 (SRU2)
S1765 – OPCEN SULFUR PLANT 3 (SRU3)
S4180 – OPCEN SULFUR PLANT 4 (SRU4)**

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|--------------------------|--|-----------------------------|-----------------------|
| 63.1570(g) | Deviations that occur during startup, shutdown, or malfunction are not violations if operating in accordance with SSMP | Y | 4/11/05 |
| 63.1571 | Performance Tests | Y | 5/11/05 |
| 63.1571(a) | Conduct Performance Test and submit results no later than 150 days after compliance date | Y | 9/8/05 |
| 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 | 5/11/05 |
| 63.1571(b) | Requirements for Performance Tests | Y | 9/8/05 |
| 63.1571(b)(1) | Conduct performance tests in accordance with the requirements of 63.7(e)(1) | Y | 9/8/05 |
| 63.1571(b)(2) | Conduct three separate test runs of at least an hour for each performance test | Y | 9/8/05 |
| 63.1571(b)(3) | Conduct each performance evaluation in accordance with the requirements of 63.8(e) | Y | 9/8/05 |
| 63.1571(b)(4) | Performance tests not conducted during periods of startup, shutdown, or malfunction | Y | 9/8/05 |
| 63.1571(b)(5) | Arithmetic average of emission rates | Y | 9/8/05 |
| <u>63.1571(e)</u> | <u>Changes to Operating Limits (Optional)</u> | <u>Y</u> | |
| 63.1572 | Monitoring installation, operation, and maintenance requirements | Y | 4/11/05 |
| 63.1572(a) | Requirements for installation, operation, and maintenance of continuous emission monitoring system | Y | 4/11/05 |
| 63.1572(a)(1) | SO ₂ CEMS must meet requirements of Performance Specification 2 (40 CFR Part 60, App B) (Table 40, Item 4) | Y | 4/11/05 |
| 63.1572(a)(2) | Conduct performance evaluation for SO ₂ CEMS according to Performance Specification 2 (Table 40, Item 4) | Y | 9/8/05 |
| 63.1572(a)(3) | CEMS complete one cycle of operation for each 15-minute period | Y | 4/11/05 |
| 63.1572(a)(4) | Data reduction per 63.8(g)(2) | Y | 4/11/05 |
| 63.1572(d) | Data monitoring and collection requirements | Y | 4/11/05 |
| 63.1572(d)(1) | Conduct monitoring at all times, except for monitoring malfunctions, | Y | 4/11/05 |

IV. Source Specific Applicable Requirements

**Table IV – ~~Aq~~AQ
 Source-specific Applicable Requirements
 S1431 – CP SULFUR PLANT 1 (SRU1)
 S1432 – CP SULFUR PLANT 2 (SRU2)
S1765 – OPCEN SULFUR PLANT 3 (SRU3)
S4180 – OPCEN SULFUR PLANT 4 (SRU4)**

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------------|--|-----------------------------|-----------------------------------|
| | repairs, and QA/QC activities | | |
| 63.1572(d)(2) | Data recorded during monitoring malfunctions, repairs, and QA/QC activities not used for compliance purposes | Y | 4/11/05 |
| 63.1573 | Monitoring Alternatives | Y | 4/11/05 |
| 63.1573(d) | Monitoring for alternative parameters (optional) | Y | 4/11/05 |
| 63.1573(e) | Alternative Monitoring Requests (optional) | Y | 4/11/05 |
| 63.1574 | Notification Requirements | Y | 5/11/05 |
| 63.1574(a) | Notifications Required by Subpart A | Y | 5/11/05 and subsequent |
| 63.1574(a)(2) | Submit notification of intent to conduct performance test 30 days before scheduled (instead of 60 days) | Y | 30 days before test |
| 63.1574(a)(3) | Notification of Compliance Status | Y | 5/11/05 |
| 63.1574(a)(3)(i) | Submit Notification of Compliance Status for initial compliance demonstration that does not include a performance test, no later than 30 days following completion of initial compliance demonstration | Y | 5/11/05 |
| 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 | 9/8/05 |
| 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 | 5/11/05 |
| 63.1574(f) | Requirement to prepare Operation, Maintenance, and Monitoring Plan | Y | 5/11/05 |
| 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. <u>Changes must be reviewed and approved by permitting authority.</u> | Y | 9/8/05 |
| 63.1574(f)(2) | Minimum contents of Operation, Maintenance, and Monitoring Plan | Y | 4/11/05 |
| 63.1575 | Reports | Y | 7/31/05 |
| 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 | 7/31/05 |
| 63.1575(b) | Specified semiannual report submittal dates | Y | 7/31/05 |

IV. Source Specific Applicable Requirements

**Table IV – ~~AqA~~AQa
 Source-specific Applicable Requirements
 S1431 – CP SULFUR PLANT 1 (SRU1)
 S1432 – CP SULFUR PLANT 2 (SRU2)
S1765 – OPCEN SULFUR PLANT 3 (SRU3)
S4180 – OPCEN SULFUR PLANT 4 (SRU4)**

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------------|--|-----------------------------|-----------------------|
| 63.1575(c) | Information required in compliance report | Y | 7/31/05 |
| 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 | 7/31/05 |
| 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 | 7/31/05 |
| 63.1575(f) | Additional information for compliance reports | Y | 7/31/05 |
| 63.1575(f)(1) | Requirement to submit performance test reports | Y | 1/31/06 |
| 63.1575(f)(2) | Submittal of requested change in the applicability of an emission standard | Y | 7/31/05 |
| 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 | 4/11/05 |
| 63.1575(h) | Reporting requirements for startups, shutdowns, and malfunctions | Y | 7/31/05 |
| 63.1576 | Recordkeeping | Y | 4/11/05 |
| 63.1576(a) | Required Records – General | Y | 4/11/05 |
| 63.1576(b) | Records for CEMS | Y | 4/11/05 |
| 63.1576(d) | Records required by Tables 34 and 35 of Subpart UUU | Y | 4/11/05 |
| 63.1576(e) | Maintain copy of Operation, Maintenance, and Monitoring Plan | Y | 4/11/05 |
| 63.1576(f) | Records of changes that affect emission control system performance | Y | 4/11/05 |
| 63.1576(g) | Records in a form suitable and readily available for review | Y | 4/11/05 |
| 63.1576(h) | Maintain records for 5 years | Y | 4/11/05 |
| 63.1576(i) | Records onsite for two years; may be maintained offsite for remaining 3 years | Y | 4/11/05 |

IV. Source Specific Applicable Requirements

Table IV—AQb
Source-specific Applicable Requirements
S1765—OPCEN SULFUR PLANT 3 (SRU3)
S4180—OPCEN SULFUR PLANT 4 (SRU4)

| See Table IV—AQ for additional requirements. | | | |
|--|--|-----------------------------|------------------------|
| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
| 40 CFR Part 63 Subpart A | MACT General Provisions | | |
| 63.4 | Prohibited Activities and Circumvention | Y | 4/11/05 |
| 63.6 | Compliance with Standards and Maintenance Requirements | Y | 4/11/05 |
| 63.6(e) | Operation and Maintenance Requirements | Y | 4/11/05 |
| 63.6(f) | Compliance with Nonopacity Emission Standards | Y | 4/11/05 |
| 63.6(g) | Use of Alternative Nonopacity Emission Standard (optional) | Y | 4/11/05 |
| 63.8 | Monitoring | Y | 4/11/05 |
| 63.9 | Notifications | Y | 4/11/05 |
| 63.9(h) | Notification of Compliance Status | Y | 5/11/05 and Subsequent |
| 63.9(i) | Change in information already provided | Y | 4/11/05 |
| 63.10 | Recordkeeping and Reporting Requirements | Y | 4/11/05 |
| 63.10(a) | General Information | Y | 4/11/05 |
| 63.10(b) | General Recordkeeping Requirements | Y | 4/11/05 |
| 63.10(b)(2) | Records to be maintained | Y | 4/11/05 |
| 63.10(c) | Recordkeeping requirements for Continuous Monitoring Systems | Y | 4/11/05 |
| 63.10(d) | General Reporting Requirements | Y | 4/11/05 |
| 63.10(e) | Additional reports for sources with Continuous Monitoring Systems | Y | 4/11/05 |
| 63.10(e)(2) | Reporting results of Continuous Monitoring System performance evaluation | Y | 9/8/05 |
| 63.10(e)(3) | Excess Emissions and Continuous Monitoring System Performance Report and Summary Report | Y | 4/11/05 |
| 40 CFR 63 Subpart UUU | NESHAP for Petroleum Refineries: Sulfur Recovery Units | | |
| 63.1568 | Requirements for Sulfur Recovery Units | Y | 4/11/05 |
| 63.1568(a) | Emission Limitations and Work Practice Standards for Sulfur Recovery Units | Y | 4/11/05 |
| 63.1568(a)(1) | Sulfur Emission Limitation from Claus sulfur recovery units subject to NSPS: 250 ppmvd SO ₂ at 0% excess air (Table 29, Item 1.a) | Y | 4/11/05 |
| 63.1568(a)(3) | Prepare Operation, Maintenance, and Monitoring Plan and operate at all times according to the procedures in the plan | Y | 4/11/05 |
| 63.1568(b) | Demonstrate Initial Compliance with Emission Limitation and Work Practice Standard | Y | 4/11/05 |
| 63.1568(b)(1) | Continuous Emission Monitoring System to measure and record hourly average SO ₂ concentration, with O ₂ monitor to correct excess air concentration (Table 31, Item 1.a) | Y | 4/11/05 |
| 63.1568(b)(5) | Demonstrate Initial Compliance with Emission Limitation - Certification that vent meets NSPS SO ₂ limit; certification that CEMS meets applicable requirements of 63.1572. (Table 33, Item 1.a) | Y | 5/11/05 |
| 63.1568(b)(6) | Demonstrate initial compliance by submitting Operation, Maintenance, and Monitoring Plan | Y | 5/11/05 |

IV. Source Specific Applicable Requirements

Table IV—AQb
Source-specific Applicable Requirements
S1765—OPCEN SULFUR PLANT3 (SRU3)
S4180—OPCEN SULFUR PLANT 4 (SRU4)

| See Table IV—AQ for additional requirements. | | | |
|---|---|------------------------------------|------------------------------|
| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
| 63.1568(b)(7) | Submit Notice of Compliance Status | Y | 5/11/05 |
| 63.1568(e) | Demonstrate Continuous Compliance with Emission Limitation and Work Practice Standards | Y | 4/11/05 |
| 63.1568(e)(1) | Demonstrate Continuous Compliance with Emission Limitation: collect hourly average SO ₂ 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 1.a) | Y | 4/11/05 |
| 63.1568(e)(2) | Demonstrate Continuous Compliance with Work Practice Standards by complying with the procedures in Operation, Maintenance, and Monitoring Plan. | Y | 4/11/05 |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| 63.1570 | General Compliance Requirements | Y | 4/11/05 |
| 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 | 4/11/05 |
| 63.1570(e) | 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 | 4/11/05 |
| 63.1570(d) | Develop and implement startup, shutdown, and malfunction plan (SSMP) in accordance with 63.6(e)(3) | Y | 4/11/05 |
| 63.1570(e) | Operate in accordance with SSMP during periods of startup, shutdown, and malfunction | Y | 4/11/05 |
| 63.1570(f) | Report deviations from compliance with this subpart according to the requirements of 63.1575 | Y | 4/11/05 |
| 63.1570(g) | Deviations that occur during startup, shutdown, or malfunction are not violations if operating in accordance with SSMP | Y | 4/11/05 |
| 63.1571 | Performance Tests | Y | |
| 63.1571(e) | Changes to Operating Limits (Optional) | Y | |
| 63.1572 | Monitoring installation, operation, and maintenance requirements | Y | 4/11/05 |
| 63.1572(a) | Requirements for installation, operation, and maintenance of continuous emission monitoring system | Y | 4/11/05 |
| 63.1572(a)(1) | SO ₂ CEMS must meet requirements of Performance Specification 2 (40 CFR Part 60, App B) (Table 40, Item 4) | Y | 4/11/05 |
| | | | |

IV. Source Specific Applicable Requirements

Table IV—AQb
Source-specific Applicable Requirements
S1765—OPCEN SULFUR PLANT3 (SRU3)
S4180—OPCEN SULFUR PLANT 4 (SRU4)

| See Table IV—AQ for additional requirements. | | | |
|--|---|-----------------------------|------------------------|
| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
| 63.1572(a)(3) | CEMS complete one cycle of operation for each 15 minute period | Y | 4/11/05 |
| 63.1572(e)(4) | Data reduction per 63.8(g)(2) | Y | 4/11/05 |
| 63.1572(d) | Data monitoring and collection requirements | Y | 4/11/05 |
| 63.1572(d)(1) | Conduct monitoring at all times, except for monitoring malfunctions, repairs, and QA/QC activities | Y | 4/11/05 |
| 63.1572(d)(2) | Data recorded during monitoring malfunctions, repairs, and QA/QC activities not used for compliance purposes | Y | 4/11/05 |
| 63.1573 | Monitoring Alternatives | Y | 4/11/05 |
| 63.1573(d) | Monitoring for alternative parameters (optional) | Y | 4/11/05 |
| 63.1573(e) | Alternative Monitoring Requests (optional) | Y | 4/11/05 |
| 63.1574 | Notification Requirements | Y | 4/11/05 |
| 63.1574(a) | Notifications Required by Subpart A | Y | 5/11/05 and subsequent |
| 63.1574(a)(3) | Notification of Compliance Status | Y | 5/11/05 |
| 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 | 5/11/05 |
| 63.1574(f) | Requirement to prepare Operation, Maintenance, and Monitoring Manual | Y | 4/11/05 |
| 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. Changes must be reviewed and approved by permitting authority. | Y | 9/8/05 |
| 63.1574(f)(2) | Minimum contents of Operation, Maintenance, and Monitoring Plan | Y | 4/11/05 |
| 63.1575 | Reports | Y | 4/11/05 |
| 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 | 7/31/05 |
| 63.1575(b) | Specified semiannual report submittal dates | Y | 7/31/05 |
| 63.1575(c) | Information required in compliance report | Y | 7/31/05 |
| 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 | 7/31/05 |
| 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 | 7/31/05 |
| 63.1575(f) | Additional information for compliance reports | Y | 7/31/05 |
| 63.1575(f)(2) | Submittal of requested change in the applicability of an emission standard | Y | 7/31/05 |
| 63.1575(g) | Submittal of reports required by other regulations in place of or as part | Y | 4/11/05 |

IV. Source Specific Applicable Requirements

Table IV—AQb
Source-specific Applicable Requirements
~~S1765—OPCEN SULFUR PLANT 3 (SRU3)~~
~~S4180—OPCEN SULFUR PLANT 4 (SRU4)~~

| See Table IV—AQ for additional requirements. | | | |
|---|---|------------------------------------|------------------------------|
| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
| | of compliance report if they contain the required information | | |
| 63.1575(h) | Reporting requirements for startups, shutdowns, and malfunctions | Y | 7/31/05 |
| 63.1576 | Recordkeeping | Y | 4/11/05 |
| 63.1576(a) | Required Records—General | Y | 4/11/05 |
| 63.1576(b) | Records for CEMS | Y | 4/11/05 |
| 63.1576(d) | Records required by Tables 34 and 35 of Subpart UUU | Y | 4/11/05 |
| 63.1576(e) | Maintain copy of Operation, Maintenance, and Monitoring Plan | Y | 4/11/05 |
| 63.1576(f) | Records of changes that affect emission control system performance | Y | 4/11/05 |
| 63.1576(g) | Records in a form suitable and readily available for review | Y | 4/11/05 |
| 63.1576(h) | Maintain records for 5 years | Y | 4/11/05 |
| 63.1576(i) | Records onsite for two years; may be maintained offsite for remaining 3 years | Y | 4/11/05 |

IV. Source Specific Applicable Requirements

Table IV – AR
Source-specific Applicable Requirements
S1765– OPCEN SULFUR PLANT 3 (SRU3)

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---------------------------------|---|-----------------------------|-----------------------|
| | See Table IV – AQ and AQab for additional requirements. | | |
| BAAQMD Condition # 7618 | | | |
| Part A | Emissions limitations [basis: Regulation 2-2-302] | Y | |
| Part B | Emissions profiles and emission factors [basis: Regulation 2-2-302] | Y | |
| Part B.1 | Baseline profiles [basis: Regulation 2-2-302] | Y | |
| Part B.5 | Baseline for sulfur plants [basis: Regulation 2-2-302] | Y | |
| Part B.6 | Modification of baseline profiles for particulate, NOx, SO2, and CO [basis: Regulation 2-2-302] | Y | |
| Part F | Reporting [basis: Cumulative Increase] | Y | |
| Part G | Records [basis: Cumulative Increase] | Y | |
| BAAQMD Condition # 19748 | | | |
| Part 1 | Catalytic oxidizer operating requirements (basis: Cumulative Increase; NSPS) | Y | |
| Part 2 | Concentration of H2S in catalytic oxidizer exhaust (basis: Cumulative Increase) | Y | |
| Part 3 | Annual SO2 mass emission limit for the catalytic oxidizer (basis: Cumulative Increase) | Y | |
| Part 4 | Operating requirements in the event of SRU3, SCOT3, and catalytic oxidizer shutdown (basis: Cumulative Increase) | Y | |
| Part 5 | SO2 CEM requirement at catalytic oxidizer (basis: Cumulative Increase) | Y | |
| Part 6 | Annual source test requirement at catalytic oxidizer (basis: Cumulative Increase) | Y | |
| Part 1 | Thermal oxidizer operating requirements, (Basis: Cumulative Increase) | Y | |
| Part 2 | Thermal oxidizer fuel requirement, (Basis: Cumulative Increase) | Y | |
| Part 3 | Thermal oxidizer RACT NOx limit, (Basis: RACT, Source Test Method 13A) | Y | |
| Part 4 | Thermal oxidizer RACT CO limit, | Y | |

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IV. Source Specific Applicable Requirements

Table IV – AR
Source-specific Applicable Requirements
S1765– OPCEN SULFUR PLANT 3 (SRU3)

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------------|---|-----------------------------|-----------------------|
| | See Table IV – AQ and AQab for additional requirements. (Basis: RACT, Source Test Method 6) | | |
| Part 5 | Source test requirement for Thermal Oxidizer to demonstrate compliance with the NOx and CO RACT limit. (Basis: RACT, Cumulative Increase) | Y | |
| Part 6 | Procedural requirements for conducting source tests for NOx and CO. (Basis: RACT, Cumulative Increase) | Y | |
| Part 7 | SO2 concentration limit for gases exhausting out of A2023's stack. (Basis: Cumulative Increase; NSPS Subpart J) | Y | |
| Part 8 | Requirement to install SO2 CEMS at A2023's stack. (Basis: Cumulative Increase; NSPS Subpart J) | Y | |
| Part 9 | Annual SO2 mass emissions limit for gases exhausting out of A2023's stack (Basis: Cumulative Increase) | Y | |
| Part 10 | Calculation procedures for estimating daily SO2 emissions. (Basis: Cumulative Increase, Regulation 2-1-403) | Y | |
| Part 11 | Daily H2S mass emissions limit for gases exhausting out of A2023's stack (Basis: Cumulative Increase) | Y | |
| Part 12 | Initial and subsequent source test requirements for H2S, and procedural requirements for conducting source tests. (Basis: Cumulative Increase) | Y | |
| Part 13 | Annual Sulfuric Acid Mist (SAM) mass emissions limit for gases exhausting out of A2023's stack (Basis: Cumulative Increase) | Y | |
| Part 14 | Initial and subsequent source test requirements for SAM, and procedural requirements for conducting source tests. (Basis: Cumulative Increase, Regulation 6-1-330) | Y | |
| Part 15 | Operating requirements in the event SRU3, SCOT3, and A2023 are shutdown (Basis: Cumulative Increase) | Y | |
| Part 16 | Minimum operating temperature requirement for A2023 (Basis: Cumulative Increase; BACT/TBACT) | Y | |
| Part 17 | Temperature measuring device requirements (Basis: Regulation 1-521) | Y | |
| Part 18 | Reporting procedures in the event of non-compliance (Basis: Regulations 1-523.8 and 2-1-403) | Y | |
| Part 19 | Allowable Temperature Excursion for A2023 (Basis: Regulation 2-1-403) | Y | |
| Part 20 | Recordkeeping requirements for Allowable Temperature Excursions | Y | |

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IV. Source Specific Applicable Requirements

Table IV – AR
Source-specific Applicable Requirements
S1765– OPCEN SULFUR PLANT 3 (SRU3)

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------------|--|-----------------------------|-----------------------|
| | See Table IV – AQ and AQab for additional requirements. (Basis: Regulation 2-1-403) | | |
| Part 21 | Applicability of temperature excursion (Basis: Regulation 2-1-403) | Y | |

Table IV – AS
Source-specific Applicable Requirements
S1457 – COOLING WATER TOWER (CWT-32)
S1778 – COOLING WATER TOWER (CWT-50)

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|-----------------------------------|--|-----------------------------|-----------------------|
| BAAQMD Regulation 6 Rule 1 | Particulate Matter – General Requirements Particulate Matter and Visible Emissions (12/05/0709/04/98) | | |
| 6-1-301 | Ringelmann No. 1 Limitation | N | |
| 6-1-305 | Visible Particles | N | |
| 6-1-310 | Particle Weight Limitation | N | |
| 6-1-311 | General Operations (process weight rate limitation) | N | |
| 6-1-401 | Appearance of Emissions | N | |
| SIP Regulation 6 | Particulate Matter and Visible Emissions (9/4/98) | | |
| 6-301 | Ringelmann No. 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 | |

IV. Source Specific Applicable Requirements

Table IV – AT
Source-specific Applicable Requirements
S1465 – LOG LIGHT OIL PRODUCTS GROSS OIL SEPARATOR
S1779 - OPCEN CPI OIL/WATER SEPARATOR
S1469 – LOG API SEPARATOR (ETP 1)

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|--|--|-----------------------------|-----------------------|
| BAAQMD Regulation 8, Rule 8 | Wastewater (Oil-Water) Separator (08/29/94/09/15/04) | | |
| 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 | |
| 8-8-302.4 | a solid, sealed, gasketed, 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. The cover may include a pressure-vacuum valve. Also includes leak inspection frequency and leak criteria. | Y | |
| <u>8-8-302.6</u> | <u>Roof seals, fixed covers, access doors, and other openings shall be inspected initially and semiannually thereafter to ensure that they are vapor tight. A leak in any component that is not vapor tight must be minimized within 24 hours and repaired within 7 days.</u> | <u>N</u> | |
| 8-8-303 | Gauging and Sampling Devices | Y | |
| 8-8-501 | API Separator or Air Flotation Bypassed Wastewater Records | Y N | |
| 8-8-503 | Inspection and Repair Records | Y | |
| <u>SIP Regulation 8, Rule 8</u> | <u>Wastewater (Oil-Water) Separator (08/29/94)</u> | | |
| <u>8-8-501</u> | <u>API Separator or Air Flotation Bypassed Wastewater Records</u> | <u>Y</u> | |
| <u>Condition # 5077</u> | | | |
| <u>Part 1</u> | <u>Design Rated Capacity Limit [basis: Cumulative Increase]</u> | <u>Y</u> | |
| <u>Part 4</u> | <u>Design Rated Capacity Limit [basis: Cumulative Increase] (Applies to S1465)</u> | <u>Y</u> | |
| <u>Part 7</u> | <u>Design Rated Capacity Limit [basis: Cumulative Increase] (Applies to S1779)</u> | <u>Y</u> | |

IV. Source Specific Applicable Requirements

~~Table IV—AU~~
~~Source-specific Applicable Requirements~~
~~S1465—LOG LIGHT OIL PRODUCTS CROSS OIL SEPARATOR~~

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|-----------------------------------|--|--|----------------------------------|
| | See Table IV—AT for additional requirements. | | |
| Condition # 5077 | | | |
| Part 4 | Design Rated Capacity Limit [basis: Cumulative Increase] | Y | |
| Part 6 | Reporting of Emission Leaks [basis: Regulation 8.8.302.1] | Y | |

IV. Source Specific Applicable Requirements

Table IV—AV
Source-specific Applicable Requirements
S1469—LOG API SEPARATOR (ETP 1)

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------------------------|--|-----------------------------|-----------------------|
| BAAQMD Regulation 8, Rule 8 | Wastewater (Oil-Water) Separator (09/15/0408/29/94) | | |
| 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 | |
| 8-8-302.4 | a solid, sealed, gasketed, 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. The cover may include a pressure vacuum valve. Also includes leak inspection frequency and leak criteria. | Y | |
| 8-8-303 | Gauging and Sampling Devices | Y | |
| 8-8-501 | API Separator or Air Flotation Bypassed Wastewater Records | <u>YN</u> | |
| 8-8-503 | Inspection and Repair Records | Y | |
| SIP Regulation 8, Rule 8 | Wastewater (Oil-Water) Separator (08/29/94) | | |
| 8-8-501 | API Separator or Air Flotation Bypassed Wastewater Records | Y | |
| Condition # 5077 | | | |
| Part 1 | Design Rated Capacity Limit [basis: Cumulative Increase] | Y | |
| Part 3 | Reporting of Emission Leaks [basis: Regulation 8-8-302.1] | Y | |

IV. Source Specific Applicable Requirements

Table IV – AW
Source-specific Applicable Requirements
S1470 – LOG LPG Loading Flare

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------------|--|-----------------------------|-----------------------|
| BAAQMD | | | |
| Regulation 6 | Particulate Matter – General Requirements | | |
| Rule 1 | Particulate Matter and Visible Emissions (12/05/0709/04/98) | | |
| 6-1-301 | Ringelmann No. 1 Limitation | N | |
| 6-1-305 | Visible Particles | N | |
| 6-1-310 | Particulate Weight Limitation | N | |
| SIP | | | |
| Regulation 6 | Particulate Matter and Visible Emissions (9/4/98) | | |
| 6-301 | Ringelmann No. 1 Limitation | Y | |
| 6-305 | Visible Particles | Y | |
| 6-310 | Particulate Weight Limitation | Y | |
| 40 CFR | | | |
| Part 60 | General Provisions | | |
| Subpart A | | | |
| 60.7 | Notification and record keeping | Y | |
| 60.7(a) | Notification | Y | |
| 60.7(g) | Alternative notification | Y | |
| 60.7(h) | Specific provisions | Y | |
| 60.11 | Compliance with standards and maintenance requirements | Y | |
| 60.11(a) | Performance test | Y | |
| 60.11(d) | Good air pollution control practice for minimizing emissions | Y | |
| 60.11(f) | Special provisions | Y | |
| 60.11(g) | Any credible evidence or information | Y | |
| 60.12 | Circumvention | Y | |
| 60.13 | Monitoring requirements | Y | |
| 60.13(i) | Alternatives to any monitoring procedures or requirements | Y | |
| 60.19 | General notification and reporting requirements | Y | |
| NSPS | | | |
| 40 CFR 60 | Standards of Performance for Petroleum Refineries (7/1/00) | | |
| Subpart J | | | |
| 60.104 | Standards for Sulfur Oxides: Compliance Schedule | Y | |
| 60.104(a)(1) | Fuel gas H2S limit | Y | |

IV. Source Specific Applicable Requirements

Table IV – AW
Source-specific Applicable Requirements
S1470 – LOG LPG Loading Flare

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---------------------------------|--|-----------------------------|-----------------------|
| 60.105 | <u>Monitoring of Emissions and Operations</u> | <u>Y</u> | |
| 60.105(a)(4) | <u>monitoring requirement for H2S (dry basis) in fuel gas prior to combustion (in lieu of separate combustion device exhaust SO2 monitors as required by 60.105(a)(3))</u> | <u>Y</u> | |
| 60.105(e)(3) | <u>Excess SO₂ emission definitions for 60.7(c)</u> | <u>Y</u> | |
| 60.106 | <u>Test methods and procedures</u> | <u>Y</u> | |
| 60.106(e) | <u>Method 11 shall be used to verify compliance with 60.104(a)(1)</u> | <u>Y</u> | |
| BAAQMD Condition # 12271 | | | |
| Part 74 | Vapors from S4338 shall be collected and controlled by S1470, LOG LPG Loading Flare. [basis: BACT] | Y | |

Table IV – AXa
Source-specific Applicable Requirements
A101 – Flare for Vine Hill Vapor Recovery System
A102 – Flare for Crude String Vapor Recovery System

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|-----------------------------------|---|-----------------------------|-----------------------|
| BAAQMD Regulation 6 Rule 1 | <u>Particulate Matter – General Requirements Particulate Matter and Visible Emissions (12/05/0709/04/98)</u> | | |
| 6-1-301 | Ringelmann No. 1 Limitation | NY | |
| 6-1-305 | Visible Particles | NY | |
| 6-1-310 | Particulate Weight Limitation | NY | |
| SIP Regulation 6 | <u>Particulate Matter and Visible Emissions (9/4/98)</u> | | |
| 6-301 | <u>Ringelmann No. 1 Limitation</u> | <u>Y</u> | |
| 6-305 | <u>Visible Particles</u> | <u>Y</u> | |

IV. Source Specific Applicable Requirements

Table IV – AXa
Source-specific Applicable Requirements
A101 – Flare for Vine Hill Vapor Recovery System
A102 – Flare for Crude String Vapor Recovery System

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|--|-----------------------------|-----------------------|
| 6-310 | <u>Particulate Weight Limitation</u> | <u>Y</u> | |
| BAAQMD Reg 8 Rule 5 | <u>Organic Compounds - STORAGE OF ORGANIC LIQUIDS (10/18/06)</u> | | |
| 8-5-118 | <u>Limited Exemption. Gas Tight Requirement for approved emission control system in 8-5-306.2 does not apply if facility is subject to BAAQMD 8-18</u> | <u>N</u> | |
| 8-5-306 | <u>Requirements for Approved Emission Control Systems</u> | <u>N</u> | |
| 8-5-306.1 | <u>Requirements for approved Emission Control System: Abatement Efficiency >=95%</u> | <u>N</u> | |
| 8-5-328 | <u>Tank degassing requirements</u> | <u>N</u> | |
| 8-5-328.1 | <u>Tank degassing requirements; Tanks > 75 cubic meters</u> | <u>N</u> | |
| 8-5-502 | <u>Source Test Requirements and exemption for sources vented to fuel gas</u> | <u>N</u> | |
| 8-5-502.1 | <u>Source Test Requirements: Annual source test for approved emission control systems and abatement devices for 8-5-302.2, 8-5-306.1, 8-5-307.2</u> | <u>N</u> | |
| SIP BAAQMD Reg 8 Rule 5 | <u>Organic Compounds –STORAGE OF ORGANIC LIQUIDS (6/5/03)</u> | | |
| 8-5-306 | Requirements for Approved Emission Control Systems | Y | |
| 8-5-328.1.2 | Tank Degassing: Emission Control System Requirements during | Y | |
| 8-5-502 | Tank Degassing: Annual Source Test Requirement for Emission Control System | Y | |
| NSPS 40 CFR 60 Subpart A | <u>New Source Performance Standards – General Provisions (12/23/71)</u> | | |
| 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 | |
| 60.18 | <u>General Control Device and Work Practice Requirements</u> | <u>Y</u> | |
| 60.18(c) (1) | <u>Limitation on visible emissions</u> | <u>Y</u> | |
| 60.18(c) (2) | <u>Requirement for a flame to be present at all times</u> | <u>Y</u> | |
| 60.18(c) (3) | <u>Requirement to meet heat content specification in 60.18(c)(3)(ii), or</u> | <u>Y</u> | |

IV. Source Specific Applicable Requirements

Table IV – AXa
Source-specific Applicable Requirements
A101 – Flare for Vine Hill Vapor Recovery System
A102 – Flare for Crude String Vapor Recovery System

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|-----------------------------|-----------------------|
| | <u>maximum tip velocity specification in 60.18(c)(4), or 60.18(c)(3)(i).</u> | | |
| 60.18(c)(4) | <u>Exit velocity requirements for steam-assisted flares</u> | <u>Y</u> | |
| 60.18(c)(6) | <u>Requirements for flares complying with 60.18</u> | <u>Y</u> | |
| 60.18(d) | <u>Requirement to monitor flares to ensure they are operated and maintained in conformance with their designs.</u> | <u>Y</u> | |
| 60.18(e) | <u>Flare operating requirements.</u> | <u>Y</u> | |
| 60.18(f)(1) | <u>Method 22 of appendix A shall be used to determine the compliance of flares with the visible emissions provisions of this subpart. The observation period is 2 hours and shall be used according to Method 22.</u> | <u>Y</u> | |
| 60.18(f)(2) | <u>Presence of a flare pilot flame shall be monitored using a thermocouple or any other equivalent device to detect the presence of a flame</u> | <u>Y</u> | |
| 60.18(f)(3) | <u>Net heating value calculation for gases combusted in flare.</u> | <u>Y</u> | |
| 60.18(f)(4) | <u>Determination of actual exit velocity of a flare</u> | <u>Y</u> | |
| 60.18(f)(5) | <u>Determination of maximum permitted velocity of a flare</u> | <u>Y</u> | |
| 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) | <u>Fuel gas H2S limit</u> Exempt from fuel gas H2S limit if flare used only for upsets or emergency malfunctions | Y | |
| 60.105 | <u>Monitoring of Emissions and Operations</u> | <u>Y</u> | |
| 60.105(a)(4) | <u>monitoring requirement for H2S (dry basis) in fuel gas prior to combustion (in lieu of separate combustion device exhaust SO2 monitors as required by 60.105(a)(3))</u> | <u>Y</u> | |
| 60.105(e)(3) | <u>Excess SO₂ emission definitions for 60.7(c)</u> | <u>Y</u> | |
| 60.106 | <u>Test methods and procedures</u> | <u>Y</u> | |
| 60.106(e) | <u>Method 11 shall be used to verify compliance with 60.104(a)(1)</u> | <u>Y</u> | |
| BAAQMD Condition # 18618 | | | |

IV. Source Specific Applicable Requirements

Table IV – AXa
Source-specific Applicable Requirements
A101 – Flare for Vine Hill Vapor Recovery System
A102 – Flare for Crude String Vapor Recovery System

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------------|--|-----------------------------|-----------------------|
| Part 19 | Upset gas limitation (basis: 60.104(a)(1); Regulation 2-1-403) | Y | 12/01/04 |

Table IV – AXb
Source-specific Applicable Requirements
A103 – Flare for Interim Gasoline Vapor Recovery System

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|-----------------------------------|--|-----------------------------|-----------------------|
| BAAQMD Regulation 6 Rule 1 | Particulate Matter – General Requirements Particulate Matter and Visible Emissions (12/05/0709/04/98) | | |
| 6-1-301 | Ringelmann No. 1 Limitation | N | |
| 6-1-305 | Visible Particles | N | |
| 6-1-310 | Particulate Weight Limitation | N | |
| SIP Regulation 6 | Particulate Matter and Visible Emissions (9/4/98) | | |
| 6-301 | Ringelmann No. 1 Limitation | Y | |
| 6-305 | Visible Particles | Y | |
| 6-310 | Particulate Weight Limitation | Y | |
| BAAQMD Reg 8 Rule 5 | Organic Compounds - STORAGE OF ORGANIC LIQUIDS (10/18/06) | | |
| 8-5-118 | Limited Exemption. Gas Tight Requirement for approved emission control system in 8-5-306.2 does not apply if facility is subject to BAAQMD 8-18 | N | |
| 8-5-306 | Requirements for Approved Emission Control Systems | N | |
| 8-5-306.1 | Requirements for approved Emission Control System; Abatement Efficiency >=95% | N | |
| 8-5-328 | Tank degassing requirements | N | |
| 8-5-328.1 | Tank degassing requirements; Tanks > 75 cubic meters | N | |

IV. Source Specific Applicable Requirements

**Table IV – AXb
 Source-specific Applicable Requirements
 A103 – Flare for Interim Gasoline Vapor Recovery System**

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|--|-----------------------------|-----------------------|
| 8-5-502 | Source Test Requirements and exemption for sources vented to fuel gas | N | |
| 8-5-502.1 | Source Test Requirements: Annual source test for approved emission control systems and abatement devices for 8-5-303.2, 8-5-306.1, 8-5-307.3 | N | |
| SIP BAAQMD Reg 8 Rule 5 | Organic Compounds – STORAGE OF ORGANIC LIQUIDS (6/5/03) | | |
| 8-5-306 | Requirements for Approved Emission Control Systems | Y | |
| 8-5-328.1.2 | Tank Degassing: Emission Control System Requirements during | Y | |
| 8-5-502 | Tank Degassing: Annual Source Test Requirement for Emission Control System | Y | |
| NSPS 40 CFR 60 Subpart A | New Source Performance Standards – General Provisions (12/23/71) | | |
| 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 | |
| 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) | Fuel gas H2S limit Exempt from fuel gas H2S limit | 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) | Excess SO2 emission definitions for 60.7(c) | Y | |
| 60.106 | Test methods and procedures | Y | |
| 60.106(e) | Method 11 shall be used to verify compliance with 60.104(a)(1) | Y | |
| BAAQMD Condition # 18618 | | | |
| Part 19 | Upset gas limitation (basis: 60.104(a)(1); Regulation 2-1-403) | Y | <u>12/01/04</u> |

IV. Source Specific Applicable Requirements

Table IV – AXc
Source-specific Applicable Requirements
S1471 - LOP Auxiliary Flare
S1472 - LOP Main Flare

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|--|--|-----------------------------|-----------------------|
| BAAQMD Regulation 6 Rule 1 | Particulate Matter – General Requirements Particulate Matter and Visible Emissions (12/05/0709/04/98) | | |
| 6-1-301 | Ringelmann No. 1 Limitation | N | |
| 6-1-305 | Visible Particles | N | |
| 6-1-310 | Particulate Weight Limitation | N | |
| SIP Regulation 6 | Particulate Matter and Visible Emissions (9/4/98) | | |
| 6-301 | Ringelmann No. 1 Limitation | Y | |
| 6-305 | Visible Particles | Y | |
| 6-310 | Particulate Weight Limitation | Y | |
| BAAQMD Regulation 8, Rule 1 | Organic Compounds - General Provisions (6/15/94) | | |
| 8-1-110 | Exemptions | Y | |
| 8-1-110.3 | Reduction due to incineration | Y | |
| BAAQMD Regulation 12-11 | Flare Monitoring at Petroleum Refineries (06/04/03) | | |
| 12-11-401 | Flare Data Reporting Requirements | N | |
| 12-11-402 | Flow Verification Report | N | 6/4/04 |
| 12-11-501 | Vent Gas Flow Monitoring | N | 12/4/04 |
| 12-11-502 | Vent Gas Composition Monitoring | N | |
| 12-11-502.3 | Vent Gas Composition Monitoring | N | 03/4/04 |
| 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 | |

IV. Source Specific Applicable Requirements

Table IV – AXc
Source-specific Applicable Requirements
S1471 - LOP Auxiliary Flare
S1472 - LOP Main Flare

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|--|-----------------------------|-----------------------|
| 12-11-506.1 | Periods of Inoperation of Vent Gas Monitoring | N | 09/4/04 |
| 12-11-507 | Video Monitoring | N | 12/4/03 |
| NSPS 40 CFR 60 Subpart A | <u>New Source Performance Standards – General Provisions (12/23/71)</u> | | |
| <u>60.11</u> | <u>Compliance with standards and maintenance requirements</u> | <u>Y</u> | |
| <u>60.11(a)</u> | <u>Compliance determined by performance tests</u> | <u>Y</u> | |
| <u>60.11(d)</u> | <u>Control devices operated using good air pollution control practice</u> | <u>Y</u> | |
| NSPS 40 CFR 60 Subpart J | <u>Standards of Performance for Petroleum Refineries (7/1/00)</u> | | |
| <u>60.104</u> | <u>Standards for Sulfur Oxides: Compliance Schedule</u> | <u>Y</u> | |
| <u>60.104(a)(1)</u> | <u>Fuel gas H2S limit</u> <u>Exempt from fuel gas H2S limit</u> | <u>Y</u> | |
| <u>60.105</u> | <u>Monitoring of Emissions and Operations</u> | <u>Y</u> | |
| <u>60.105(a)(4)</u> | <u>monitoring requirement for H2S (dry basis) in fuel gas prior to combustion (in lieu of separate combustion device exhaust SO2 monitors as required by 60.105(a)(3))</u> | <u>Y</u> | |
| <u>60.105(e)(3)</u> | <u>Excess SO₂ emission definitions for 60.7(c)</u> | <u>Y</u> | |
| <u>60.106</u> | <u>Test methods and procedures</u> | <u>Y</u> | |
| <u>60.106(e)</u> | <u>Method 11 shall be used to verify compliance with 60.104(a)(1)</u> | <u>Y</u> | |
| BAAQMD Condition # 18618 | | | |
| Part 12 | Flare throughput limit (basis: Regulations 8-1-110.3; 2-1-403) | Y | 01/01/05 |
| Part 13 | Flaring recordkeeping requirements (basis: Regulations 8-1-110.3; 2-6-409.2; 2-6-501) | Y | 01/01/05 |
| Part 14 | Inspection of flaring requirements (basis: Regulation 2-6-4092.) | Y | 01/01/05 |
| Part 15 | Inspection procedures (basis: Regulation 6-1-301; 2-1-403) | Y N | 01/01/05 |

IV. Source Specific Applicable Requirements

Table IV – AXc
Source-specific Applicable Requirements
S1471 - LOP Auxiliary Flare
S1472 - LOP Main Flare

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|-------------------------------|--|------------------------------------|------------------------------|
| Part 16 | Visual inspection requirements (basis: Regulation 2-6-403) | Y | 01/01/05 |
| Part 17 | Recordkeeping requirements for flaring events (basis: Regulation 2-6-501; 2-6-409.2) | Y | 01/01/05 |

Table IV – AXd
Source-specific Applicable Requirements
S1471 - LOP Auxiliary Flare

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|-------------------------------|---|------------------------------------|------------------------------|
| NSPS 40 CFR Subpart A | New Source Performance Standards – General Provisions (12/23/71) | | |
| <u>60.18</u> | <u>General Control Device and Work Practice Requirements</u> | <u>Y</u> | |
| <u>60.18(c)(1)</u> | <u>Limitation on visible emissions</u> | <u>Y</u> | |
| <u>60.18(c)(2)</u> | <u>Requirement for a flame to be present at all times</u> | <u>Y</u> | |
| <u>60.18(c)(3)</u> | <u>Requirement to meet heat content specification in 60.18(c)(3)(ii), or maximum tip velocity specification in 60.18(c)(4), or 60.18(c)(3)(i).</u> | <u>Y</u> | |
| <u>60.18(c)(4)</u> | <u>Exit velocity requirements for steam-assisted flares</u> | <u>Y</u> | |
| <u>60.18(c)(6)</u> | <u>Requirements for flares complying with 60.18</u> | <u>Y</u> | |
| <u>60.18(d)</u> | <u>Requirement to monitor flares to ensure they are operated and maintained in conformance with their designs.</u> | <u>Y</u> | |
| <u>60.18(e)</u> | <u>Flare operating requirements.</u> | <u>Y</u> | |
| <u>60.18(f)(1)</u> | <u>Method 22 of appendix A shall be used to determine the compliance of flares with the visible emissions provisions of this subpart. The observation period is 2 hours and shall be used according to Method 22.</u> | <u>Y</u> | |
| <u>60.18(f)(2)</u> | <u>Presence of a flare pilot flame shall be monitored using a thermocouple or any other equivalent device to detect the presence of a flame</u> | <u>Y</u> | |
| <u>60.18(f)(3)</u> | <u>Net heating value calculation for gases combusted in flare.</u> | <u>Y</u> | |

IV. Source Specific Applicable Requirements

Table IV – AXd
Source-specific Applicable Requirements
S1471 - LOP Auxiliary Flare

| <u>Applicable Requirement</u> | <u>Regulation Title or Description of Requirement</u> | <u>Federally Enforceable (Y/N)</u> | <u>Future Effective Date</u> |
|-------------------------------|--|------------------------------------|------------------------------|
| 60.18(f)(4) | Determination of actual exit velocity of a flare | Y | |
| 60.18(f)(5) | Determination of maximum permitted velocity of a flare | Y | |

Table IV – AZ
Source-specific Applicable Requirements
S1480 - LUBS F-69 ASPHALT CIRCULATION,
S1481 - OPCEN F-30 DSU,
S1483 - LUBS F-32 ASPHALT CIRCULATION,
S1506 - CP F-61 CGP FEED,

| <u>Applicable Requirement</u> | <u>Regulation Title or Description of Requirement</u> | <u>Federally Enforceable (Y/N)</u> | <u>Future Effective Date</u> |
|-------------------------------|--|------------------------------------|------------------------------|
| BAAQMD Regulation 1 | General Provisions and Definitions (05/02/2001/19/06) | | |
| 1-522 | Continuous Emission Monitoring and Recordkeeping Procedures | Y | |
| 1-522.1 | Approval of Plans and Specifications | Y | |
| 1-522.2 | Installation Scheduling | Y | |
| 1-522.3 | CEM Performance Testing | Y | |
| 1-522.4 | Periods of Inoperation | Y | |
| 1-522.5 | Daily Monitor Calibration | Y | |
| 1-522.6 | CEM Maintenance | Y | |
| 1-522.7 | Excess Emissions Reported (Nature, Extent, and Cause) | N | |
| 1-522.8 | Monitoring Data Submittal | Y | |
| 1-522.9 | Records | Y | |
| 1-522.10 | Monitors Required By 1-521 or 2-1-403 | Y | |
| 1-523 | Parametric Monitoring and Recordkeeping Procedures | Y | |
| 1-523.1 | Periods of Inoperation Reported | Y | |
| 1-523.2 | Periods of Inoperation Per Incident | Y | |
| 1-523.3 | Violations of Permit Conditions Reported (Nature, Extent, and Cause) | N | |
| 1-523.4 | Records | Y | |
| 1-523.5 | Maintenace and Calibration Required | N | |

IV. Source Specific Applicable Requirements

Table IV – AZ
Source-specific Applicable Requirements
S1480 - LUBS F-69 ASPHALT CIRCULATION,
S1481 - OPCEN F-30 DSU,
S1483 - LUBS F-32 ASPHALT CIRCULATION,
S1506 - CP F-61 CGP FEED,

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------------------------|--|-----------------------------|-----------------------|
| SIP Regulation 1 | PROVISIONS NO LONGER IN CURRENT RULE General Provisions and Definitions (6/28/99) | | |
| 1-522.7 | Excess Emissions Reported (Nature, Extent, Cause, and Corrective Action) | Y | |
| 1-523.3 | Violations of Permit Conditions Reported (Nature, Extent, Cause, and Corrective Action) | Y | |
| BAAQMD Regulation 2, Rule 9 | Interchangeable Emission Reduction Credits (04/07/99/15/05) | | |
| 2-9-302 | Use of IERC's | N | |
| 2-9-303 | Alternative Compliance Plan Using IERC's | N | |
| 2-9-304 | Restrictions on the Use of IERC's | N | |
| 2-9-306 | Environmental Benefit Surcharge | N | |
| 2-9-501 | Monitoring and Record Keeping | N | |
| 2-9-502 | Alternative Compliance Plan Record Keeping and Reporting | N | |
| BAAQMD Regulation 6 Rule 1 | Particulate Matter – General Requirements Particulate Matter and Visible Emissions (12/05/0709/04/98) | | |
| 6-1-301 | Ringelmann No. 1 Limitation | N | |
| 6-1-304 | Tube Cleaning | N | |
| 6-1-305 | Visible Particles | N | |
| 6-1-310 | Particle Weight Limitation | N | |
| 6-1-310.3 | 0.15 grain per dscf at 6% O ₂ | N | |
| SIP Regulation 6 | Particulate Matter and Visible Emissions (9/4/98) | | |
| 6-301 | Ringelmann No. 1 Limitation | Y | |
| 6-304 | Tube Cleaning | Y | |
| 6-305 | Visible Particles | Y | |
| 6-310 | Particulate Weight Limitation | Y | |
| 6-310.3 | 0.15 grain per dscf at 6% O ₂ | Y | |

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IV. Source Specific Applicable Requirements

Table IV – AZ
Source-specific Applicable Requirements
S1480 - LUBS F-69 ASPHALT CIRCULATION,
S1481 - OPCEN F-30 DSU,
S1483 - LUBS F-32 ASPHALT CIRCULATION,
S1506 - CP F-61 CGP FEED,

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|-------------------------------------|---|-----------------------------|-----------------------|
| | | | |
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| | | | |
| 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 | |
| 9-10-303 | Federal Interim Facility-wide NOx emission rate limit | Y N | |
| 9-10-305 | CO emission limit | N | |
| 9-10-502 | Monitoring | N | |
| 9-10-502.1 | CEMS for NOx, CO, and O2 | N | |
| 9-10-502.2 | Fuel flowmeters | N Y | |
| 9-10-504 | Recordkeeping | N | |
| 9-10-504.1 | For All Sources Subject to 9-10-301, 303, 305 | N | |
| 9-10-505 | Reporting | N | |
| SIP Regulation 9, Rule 10 | Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon Monoxide from Boilers, Steam Generators, and Process Heaters in Petroleum Refineries (3/29/01) | | |
| 9-10-303 | Interim Emission Limit for Facility (Federal Requirements) | Y | |
| 9-10-502 | Monitoring | Y | |
| 40 CFR Part 60 Subpart A | General Provisions | | |
| 60.7 | Notification and record keeping | Y | |
| 60.8 | Performance tests | Y | |
| 60.11 | Compliance with standards and maintenance requirements | Y | |

IV. Source Specific Applicable Requirements

Table IV – AZ
Source-specific Applicable Requirements
S1480 - LUBS F-69 ASPHALT CIRCULATION,
S1481 - OPCEN F-30 DSU,
S1483 - LUBS F-32 ASPHALT CIRCULATION,
S1506 - CP F-61 CGP FEED,

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|-----------------------------|-----------------------|
| 60.11(a) | Performance test | Y | |
| 60.11(d) | Good air pollution control practice for minimizing emissions | Y | |
| 60.11(f) | Special provisions | Y | |
| 60.11(g) | Any credible evidence or information | Y | |
| 60.12 | Circumvention | Y | |
| 60.13 | Monitoring requirements | 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) | Fuel gas H2S limit | 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) | Excess SO ₂ emission definitions for 60.7(c) | Y | |
| 60.106 | Test methods and procedures | Y | |
| 60.106(e) | Method 11 shall be used to verify compliance with 60.104(a)(1) | Y | |
| BAAQMD Condition # 7618 | | | |
| Part A | Emissions limitations [basis: Regulation 2-2-302] | Y | |
| Part B | Emissions profiles and emission factors [basis: Regulation 2-2-302] | Y | |
| Part B.1 | Baseline profiles [basis: Regulation 2-2-302] | Y | |
| Part B.3 | Emission factors used for combustion [basis: Regulation 2-2-302] | Y | |
| Part B.6 | Modification of baseline profiles for particulate, NOx, SO ₂ , and CO [basis: Regulation 2-2-302] | Y | |
| Part C | Actions resulting from non-compliance [basis: Regulation 2-2-302] | N | |
| Part C.d | Total fuel usage [basis: Regulation 2-2-302] | Y | |
| Part F | Reporting [basis: Cumulative Increase] | Y | |

IV. Source Specific Applicable Requirements

Table IV – AZ
Source-specific Applicable Requirements
S1480 - LUBS F-69 ASPHALT CIRCULATION,
S1481 - OPCEN F-30 DSU,
S1483 - LUBS F-32 ASPHALT CIRCULATION,
S1506 - CP F-61 CGP FEED,

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---------------------------------|--|-----------------------------|-----------------------|
| Part G | Records [basis: Cumulative Increase] | Y | |
| BAAQMD Condition # 16688 | | | |
| Part 1 | Maximum firing rate [basis: Regulation 2-1-234] | N | |
| BAAQMD Condition # 18265 | | | |
| Part 1 | Sources subject to Regulation 9-10 (basis: Regulation 9-10-301 & 305) | N | 1/1/05 |
| Part 2 | O2 monitor and recorder requirement (basis: Regulation 9-10-502) | N | 09/01/04 |
| Part 3 | Operating conditions requirements for those sources without CEM (basis: Regulation 9-10-502) | N | 1/1/05 |
| Part 4 | NOx box establishment requirements (basis: Regulation 9-10-502) | N | 1/1/05 |
| Part 5 | NOx box ranges (basis: Regulation 9-10-502) | N | 1/1/05 |
| Part 6 | NOx Box Deviations (basis: Regulation 9-10-502) | N | 1/1/05 |
| Part 7 | Source test requirements (basis: Regulation 9-10-502) | N | 1/1/05 |
| Part 9 | CO results requires CEM (basis: Regulation 9-10-502, 1-522) | N | 1/1/05 |
| Part 10 | Source test records (basis: recordkeeping; Regulation 9-10-504) | N | 1/1/05 |
| Part 11 | CEM for NOx and O2 monitoring [basis: Regulation 9-10-502] | N | 1/1/05 |
| Part 12 | Equivalent verification system [basis: Regulation 9-10-502] | N | |
| Part 13 | IERC required to comply with Regulation 9-10 [Regulation 2-9-303] | N | |

IV. Source Specific Applicable Requirements

Table IV – AZ
Source-specific Applicable Requirements
S1480 - LUBS F-69 ASPHALT CIRCULATION,
S1481 - OPCEN F-30 DSU,
S1483 - LUBS F-32 ASPHALT CIRCULATION,
S1506 - CP F-61 CGP FEED,

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------------|---|-----------------------------|-----------------------|
| Part 14 | Monthly summary of daily actual emissions, daily allowable emissions, and actual NOx emission rate (lb/MM BTU) [basis: Regulation 9-10-504] | N | |
| Part 15 | Monthly sum of daily totals [basis: Regulation 9-10-504] | N | |
| Part 17 | Alternative compliance plan [basis: Regulation 9-10-502] | N | |
| Part 18 | operating range limits for S-1478, S-1479, S-1508, S-1760 and S-4021 [basis: Regulation 9-10-502] | N | |
| Part 19 | Allowable operating ranges for S-1478, S-1479, S-1508, S-1760 and S-4021 [basis: Regulation 9-10-502] | N | |
| Part 20 | Maintain fuel flow meter [basis: Regulation 9-10-503] | N | |
| Part 21 | Recordkeeping [basis: Regulation 9-10-503] | N | |

Table IV – Aza
Source-specific Applicable Requirements
S1480 – LUBS F-69 ASPHALT CIRCULATION,
S1506 – CP F-61 CGP FEED

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|-------------------------------------|---|-----------------------------|-----------------------|
| 40 CFR Part 60 Subpart A | General Provisions | | |
| 60.13(i) | Alternatives to any monitoring procedures or requirements | Y | |

IV. Source Specific Applicable Requirements

**Table IV – ~~AzbAZb~~
 Source-specific Applicable Requirements
 S1760 - OPCEN F-102 FXU STEAM SUPERHEATER**

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------------------------|---|-----------------------------|-----------------------|
| BAAQMD Regulation 1 | General Provisions and Definitions (05/02/20017/19/06) | | |
| 1-520 | Continuous Emission Monitoring | Y | |
| 1-520.8 | Monitors as required by Regulation 10, 12 and Section 2-1-403 | Y | |
| 1-522 | Continuous Emission Monitoring and Recordkeeping Procedures | Y | |
| 1-522.1 | Approval of Plans and Specifications | Y | |
| 1-522.2 | Installation Scheduling | Y | |
| 1-522.3 | CEM Performance Testing | Y | |
| 1-522.4 | Periods of Inoperation | Y | |
| 1-522.5 | Daily Monitor Calibration | Y | |
| 1-522.6 | CEM Maintenance | Y | |
| 1-522.7 | Excess Emissions Reported (Nature, Extent, and Cause) | N | |
| 1-522.8 | Monitoring Data Submittal | Y | |
| 1-522.9 | Records | Y | |
| 1-522.10 | Monitors Required By 1-521 or 2-1-403 | Y | |
| 1-523 | Parametric Monitoring and Recordkeeping Procedures | Y | |
| 1-523.1 | Periods of Inoperation Reported | Y | |
| 1-523.2 | Periods of Inoperation Per Incident | Y | |
| 1-523.3 | Violations of Permit Conditions Reported (Nature, Extent, and Cause) | N | |
| 1-523.4 | Records | Y | |
| 1-523.5 | Maintenace and Calibration Required | N | |
| SIP Regulation 1 | PROVISIONS NO LONGER IN CURRENT RULE General Provisions and Definitions (6/28/99) | | |
| 1-522.7 | Excess Emissions Reported (Nature, Extent, Cause, and Corrective Action) | Y | |
| 1-523.3 | Violations of Permit Conditions Reported (Nature, Extent, Cause, and Corrective Action) | Y | |
| BAAQMD Regulation 2, Rule 9 | Interchangeable Emission Reduction Credits (6/15/0504/07/99) | | |
| 2-9-302 | Use of IERC's | N | |
| 2-9-303 | Alternative Compliance Plan Using IERC's | N | |

IV. Source Specific Applicable Requirements

**Table IV – ~~Azb~~AZb
 Source-specific Applicable Requirements
 S1760 - OPCEN F-102 FXU STEAM SUPERHEATER**

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|-------------------------------------|---|-----------------------------|-----------------------|
| 2-9-304 | Restrictions on the Use of IERC's | N | |
| 2-9-306 | Environmental Benefit Surcharge | N | |
| 2-9-501 | Monitoring and Record Keeping | N | |
| 2-9-502 | Alternative Compliance Plan Record Keeping and Reporting | N | |
| BAAQMD Regulation 6 Rule 1 | Particulate Matter – General Requirements Particulate Matter and Visible Emissions (12/05/0709/04/98) | | |
| 6-1-301 | Ringelmann No. 1 Limitation | N | |
| 6-1-304 | Tube Cleaning | N | |
| 6-1-305 | Visible Particles | N | |
| 6-1-310 | Particle Weight Limitation | N | |
| 6-1-310.3 | 0.15 grain per dscf at 6% O ₂ | N | |
| SIP Regulation 6 | Particulate Matter and Visible Emissions (9/4/98) | | |
| 6-301 | Ringelmann No. 1 Limitation | Y | |
| 6-304 | Tube Cleaning | Y | |
| 6-305 | Visible Particles | Y | |
| 6-310 | Particulate Weight Limitation | Y | |
| 6-310.3 | 0.15 grain per dscf at 6% O ₂ | 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 | |
| 9-10-303 | Federal Interim Facility-wide NOx emission rate limit | Y | |
| 9-10-305 | CO emission limit | N | |
| 9-10-502 | Monitoring | N | |
| 9-10-502.1 | CEMS for NOx, CO, and O ₂ | N | |
| 9-10-502.2 | Fuel flowmeters | Y | |
| 9-10-504 | Recordkeeping | N | |
| 9-10-504.1 | For All Sources Subject to 9-10-301, 303, 305 | N | |
| 9-10-505 | Reporting | N | |

IV. Source Specific Applicable Requirements

**Table IV – ~~Azb~~AZb
 Source-specific Applicable Requirements
 S1760 - OPCEN F-102 FXU STEAM SUPERHEATER**

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|----------------------------------|---|-----------------------------|-----------------------|
| SIP Regulation 9, Rule 10 | Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon Monoxide from Boilers, Steam Generators, and Process Heaters in Petroleum Refineries (3/29/01) | | |
| 9-10-303 | Interim Emission Limit for Facility (Federal Requirements) | Y | |
| 9-10-502 | Monitoring | Y | |
| 40 CFR Part 60 Subpart A | General Provisions | | |
| 60.7 | Notification and record keeping | Y | |
| 60.8 | Performance tests | Y | |
| 60.11 | Compliance with standards and maintenance requirements | Y | |
| 60.11(a) | Performance test | Y | |
| 60.11(d) | Good air pollution control practice for minimizing emissions | Y | |
| 60.11(f) | Special provisions | Y | |
| 60.11(g) | Any credible evidence or information | Y | |
| 60.12 | Circumvention | Y | |
| 60.13 | Monitoring requirements | 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) | Fuel gas H2S limit | 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) | Excess SO ₂ emission definitions for 60.7(c) | Y | |
| 60.106 | Test methods and procedures | Y | |
| 60.106(e) | Method 11 shall be used to verify compliance with 60.104(a)(1) | Y | |
| BAAQMD Condition # 7618 | | | |
| Part A | Emissions limitations [basis: Regulation 2-2-302] | Y | |

IV. Source Specific Applicable Requirements

**Table IV – ~~Azb~~AZb
 Source-specific Applicable Requirements
 S1760 - OPCEN F-102 FXU STEAM SUPERHEATER**

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---------------------------------|---|-----------------------------|-----------------------|
| Part B | Emissions profiles and emission factors [basis: Regulation 2-2-302] | Y | |
| Part B.1 | Baseline profiles [basis: Regulation 2-2-302] | Y | |
| Part B.3 | Emission factors used for combustion [basis: Regulation 2-2-302] | Y | |
| Part B.6 | Modification of baseline profiles for particulate, NOx, SO2, and CO [basis: Regulation 2-2-302] | Y | |
| Part C | Actions resulting from non-compliance [basis: Regulation 2-2-302] | N | |
| Part C.d | Total fuel usage [basis: Regulation 2-2-302] | Y | |
| Part E.2 | Processing limit of San Joaquin Valley Crude [basis: Regulation 2-2-302] | Y | |
| Part F | Reporting [basis: Cumulative Increase] | Y | |
| Part G | Records [basis: Cumulative Increase] | Y | |
| BAAQMD Condition # 16688 | | | |
| Part 1 | Maximum firing rate [basis: Regulation 2-1-234] | N | |
| BAAQMD Condition # 18265 | | | |
| Part 1 | Sources subject to Regulation 9-10 (basis: Regulation 9-10-301 & 305) | N | 1/1/05 |
| Part 2 | O2 monitor and recorder requirement (basis: Regulation 9-10-502) | N | 09/01/04 |
| Part 8 | For sources with NOx CEMS, semi-annual source test for CO at as-found conditions (basis: Regulation 9-10-502, 1-522) | N | 1/1/05 |
| Part 10 | Source test records (basis: recordkeeping; Regulation 9-10-504) | N | 1/1/05 |
| Part 11 | CEM for NOx and O2 monitoring [basis: Regulation 9-10-502] | N | 1/1/05 |
| Part 13 | IERC required to comply with Regulation 9-10 [Regulation 2-9-303] | N | |
| Part 14 | Monthly summary of daily actual emissions, daily allowable emissions, and actual NOx emission rate (lb/MM BTU) [basis: Regulation 9-10-504] | N | |
| Part 15 | Monthly sum of daily totals [basis: Regulation 9-10-504] | N | |
| Part 17 | Alternative compliance plan [basis: Regulation 9-10-502] | N | |
| Part 20 | Maintain fuel flow meter [basis: Regulation 9-10-503] | N | |
| Part 21 | Recordkeeping [basis: Regulation 9-10-503] | N | |

IV. Source Specific Applicable Requirements

**Table IV – ~~Azb~~AZb
 Source-specific Applicable Requirements
 S1760 - OPCEN F-102 FXU STEAM SUPERHEATER**

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|--|--|-----------------------------|-----------------------|
| <u>BAAQMD Condition # 22119</u> | | | |
| <u>Part 1</u> | <u>Fuel specification [basis: Regulation 1-520.11]</u> | <u>Y</u> | |
| <u>Part 2</u> | <u>NOx emission rate [basis: Shell-EPA Consent Decree]</u> | <u>Y</u> | |
| <u>Part 3</u> | <u>NOx mass emission limit (Basis: Shell-EPA Consent Decree)</u> | <u>Y</u> | |

**Table IV – BA
 Source-specific Applicable Requirements
 S1486 - DH F-40 CU FEED, S1487 - DH F-41B VFU FEED,
 S1488 – DH F-41A VFU FEED, S1490 – DH F-43 GOHT FEED,
 S1491 – DH F-44 NHT FEED,
 S1492 – DH F-45 PRIMARY COLUMN REBOIL, S1493 – DH F-46 STABILIZER REBOIL,
 S1495 – DH F-49 CRU PREHEAT, S1496 – DH F-50 CRU,
 S1497 – DH F-51 CRU, S1498 – DH F-52 CRU REBOIL,
S1499 – DH F-53 CRU REGEN,
 S1508 – CP F-63 CFH FEED, S1510 - CP F-66 CCU PREHEAT,
 S1511 - CP F-67 CCU LGO REBOIL, S1762 – DH F-128 CRU INTERHEATER**

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|-----------------------------------|---|-----------------------------|-----------------------|
| <u>BAAQMD Regulation 1</u> | <u>General Provisions and Definitions (5/02/017/19/06)</u> | | |
| 1-520 | Continuous Emission Monitoring | Y | |
| 1-520.8 | Monitors as required by Regulation 10, 12 and Section 2-1-403 | Y | |
| 1-522 | Continuous Emission Monitoring and Recordkeeping Procedures | Y | |
| 1-522.1 | Approval of Plans and Specifications | Y | |
| 1-522.2 | Installation Scheduling | Y | |
| 1-522.3 | CEM Performance Testing | Y | |

IV. Source Specific Applicable Requirements

Table IV – BA
Source-specific Applicable Requirements
S1486 - DH F-40 CU FEED, S1487 - DH F-41B VFU FEED,
S1488 – DH F-41A VFU FEED, S1490 – DH F-43 GOHT FEED,
S1491 – DH F-44 NHT FEED,
S1492 – DH F-45 PRIMARY COLUMN REBOIL, S1493 – DH F-46 STABILIZER REBOIL,
S1495 – DH F-49 CRU PREHEAT, S1496 – DH F-50 CRU,
S1497 – DH F-51 CRU, S1498 – DH F-52 CRU REBOIL,
S1499 – DH F-53 CRU REGEN,
S1508 – CP F-63 CFH FEED, S1510 - CP F-66 CCU PREHEAT,
S1511 - CP F-67 CCU LGO REBOIL, S1762 – DH F-128 CRU INTERHEATER

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------------------------|--|-----------------------------|-----------------------|
| 1-522.4 | Periods of Inoperation | Y | |
| 1-522.5 | Daily Monitor Calibration | Y | |
| 1-522.6 | CEM Maintenance | Y | |
| 1-522.7 | Excess Emissions Reported (Nature, Extent, and Cause) | N | |
| 1-522.8 | Monitoring Data Submittal | Y | |
| 1-522.9 | Records | Y | |
| 1-522.10 | Monitors Required By 1-521 or 2-1-403 | Y | |
| 1-523 | Parametric Monitoring and Recordkeeping Procedures | Y | |
| 1-523.1 | Periods of Inoperation Reported | Y | |
| 1-523.2 | Periods of Inoperation Per Incident | Y | |
| 1-523.3 | Violations of Permit Conditions Reported (Nature, Extent, and Cause) | N | |
| 1-523.4 | Records | Y | |
| 1-523.5 | Maintenace and Calibration Required | N | |
| SIP Regulation 1 | PROVISIONS NO LONGER IN CURRENT RULE General Provisions and Definitions (6/28/99) | | |
| 1-522.7 | Excess Emissions Reported (Nature, Extent, Cause, and Corrective Action) | Y | |
| 1-523.3 | Violations of Permit Conditions Reported (Nature, Extent, Cause, and Corrective Action) | Y | |
| BAAQMD Regulation 2, Rule 9 | Interchangeable Emission Reduction Credits (6/15/0504/07/99) | | |
| 2-9-302 | Use of IERC's | N | |
| 2-9-303 | Alternative Compliance Plan Using IERC's | N | |
| 2-9-304 | Restrictions on the Use of IERC's | N | |

IV. Source Specific Applicable Requirements

Table IV – BA
Source-specific Applicable Requirements
S1486 - DH F-40 CU FEED, S1487 - DH F-41B VFU FEED,
S1488 – DH F-41A VFU FEED, S1490 – DH F-43 GOHT FEED,
S1491 – DH F-44 NHT FEED,
S1492 – DH F-45 PRIMARY COLUMN REBOIL, S1493 – DH F-46 STABILIZER REBOIL,
S1495 – DH F-49 CRU PREHEAT, S1496 – DH F-50 CRU,
S1497 – DH F-51 CRU, S1498 – DH F-52 CRU REBOIL,
S1499 – DH F-53 CRU REGEN,
S1508 – CP F-63 CFH FEED, S1510 - CP F-66 CCU PREHEAT,
S1511 - CP F-67 CCU LGO REBOIL, S1762 – DH F-128 CRU INTERHEATER

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|-----------------------------------|--|-----------------------------|-----------------------|
| 2-9-306 | Environmental Benefit Surcharge | N | |
| 2-9-501 | Monitoring and Record Keeping | N | |
| 2-9-502 | Alternative Compliance Plan Record Keeping and Reporting | N | |
| BAAQMD Regulation 6 Rule 1 | Particulate Matter – General Requirements Particulate Matter and Visible Emissions (12/05/0709/04/98) | | |
| 6-1-301 | Ringelmann No. 1 Limitation | N | |
| 6-1-304 | Tube Cleaning | N | |
| 6-1-305 | Visible Particles | N | |
| 6-1-310 | Particle Weight Limitation | N | |
| 6-1-310.3 | 0.15 grain per dscf at 6% O ₂ | N | |
| 6-1-401 | Appearance of Emissions <u>Applies to: S1486, S1487, S1488, S1491, S1492, S1493, S1495, S1496, S1497, S1498, S1508, S1510, and S1511</u> | N | |
| <u>SIP Regulation 6</u> | <u>Particulate Matter and Visible Emissions (9/4/98)</u> | | |
| 6-301 | <u>Ringelmann No. 1 Limitation</u> | <u>Y</u> | |
| 6-304 | <u>Tube Cleaning</u> | <u>Y</u> | |
| 6-305 | <u>Visible Particles</u> | <u>Y</u> | |
| 6-310 | <u>Particulate Weight Limitation</u> | <u>Y</u> | |
| 6-310.3 | <u>0.15 grain per dscf at 6% O₂</u> | <u>Y</u> | |
| 6-401 | <u>Appearance of Emissions</u> <u>Applies to: S1486, S1487, S1488, S1491, S1492, S1493, S1495, S1496, S1497, S1498, S1508, S1510, and S1511</u> | <u>Y</u> | |

IV. Source Specific Applicable Requirements

Table IV – BA
Source-specific Applicable Requirements
S1486 - DH F-40 CU FEED, S1487 - DH F-41B VFU FEED,
S1488 – DH F-41A VFU FEED, S1490 – DH F-43 GOHT FEED,
S1491 – DH F-44 NHT FEED,
S1492 – DH F-45 PRIMARY COLUMN REBOIL, S1493 – DH F-46 STABILIZER REBOIL,
S1495 – DH F-49 CRU PREHEAT, S1496 – DH F-50 CRU,
S1497 – DH F-51 CRU, S1498 – DH F-52 CRU REBOIL,
S1499 – DH F-53 CRU REGEN,
S1508 – CP F-63 CFH FEED, S1510 - CP F-66 CCU PREHEAT,
S1511 - CP F-67 CCU LGO REBOIL, S1762 – DH F-128 CRU INTERHEATER

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|-------------------------------------|--|-----------------------------|-----------------------|
| BAAQMD Regulation 9, Rule 1 | Inorganic Gaseous Pollutants - Sulfur Dioxide (3/15/95; SIP approved 6/8/99) Applies to: S1486, S1487, S1488, S1491, S1492, S1493, S1495, S1496, S1497, S1498, S1508, S1510, and S1511 | | |
| 9-1-304 | Fuel Burning (Liquid and Solid Fuels) | Y | |
| 9-1-502 | Continuous Emission Monitoring If Required by APCO | 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 Applies to: S1486, S1487, S1488, S1491, S1492, S1493, S1495, S1496, S1497, S1498, S1508, S1510, and S1511 | N | |
| 9-10-303 | Federal Interim Facility-wide NOx emission rate limit | Y N | |
| 9-10-305 | CO emission limit | N | |
| 9-10-502 | Monitoring | N | |
| 9-10-502.1 | CEMS for NOx, CO, and O2 | N | |
| 9-10-502.2 | Fuel flowmeters | N Y | |
| 9-10-504 | Recordkeeping | N | |
| 9-10-504.1 | For All Sources Subject to 9-10-301, 303, 305 | N | |
| 9-10-505 | Reporting | N | |
| SIP Regulation 9, | Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon Monoxide from Boilers, Steam Generators, and Process Heaters in | | |

IV. Source Specific Applicable Requirements

Table IV – BA
Source-specific Applicable Requirements
S1486 - DH F-40 CU FEED, S1487 - DH F-41B VFU FEED,
S1488 – DH F-41A VFU FEED, S1490 – DH F-43 GOHT FEED,
S1491 – DH F-44 NHT FEED,
S1492 – DH F-45 PRIMARY COLUMN REBOIL, S1493 – DH F-46 STABILIZER REBOIL,
S1495 – DH F-49 CRU PREHEAT, S1496 – DH F-50 CRU,
S1497 – DH F-51 CRU, S1498 – DH F-52 CRU REBOIL,
S1499 – DH F-53 CRU REGEN,
S1508 – CP F-63 CFH FEED, S1510 - CP F-66 CCU PREHEAT,
S1511 - CP F-67 CCU LGO REBOIL, S1762 – DH F-128 CRU INTERHEATER

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|-----------------------------|-----------------------|
| Rule 10 | Petroleum Refineries (3/29/01) | | |
| 9-10-303 | Interim Emission Limit for Facility (Federal Requirements) | Y | |
| 9-10-502 | Monitoring | Y | |
| NSPS 40 CFR 60 Subpart A | Standards of Performance for New Stationary Sources (12/23/71) | Y | |
| 60.7 | Notification and record keeping | Y | |
| 60.8 | Performance tests | Y | |
| 60.11 | Compliance with standards and maintenance requirements | Y | |
| 60.11(a) | Performance test | Y | |
| 60.11(d) | Good air pollution control practice for minimizing emissions | Y | |
| 60.11(f) | Special provisions | Y | |
| 60.11(g) | Any credible evidence or information | Y | |
| 60.12 | Circumvention | Y | |
| 60.13 | Monitoring requirements | 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) | Fuel gas H2S limit | 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 – BA
Source-specific Applicable Requirements
S1486 - DH F-40 CU FEED, S1487 - DH F-41B VFU FEED,
S1488 – DH F-41A VFU FEED, S1490 – DH F-43 GOHT FEED,
S1491 – DH F-44 NHT FEED,
S1492 – DH F-45 PRIMARY COLUMN REBOIL, S1493 – DH F-46 STABILIZER REBOIL,
S1495 – DH F-49 CRU PREHEAT, S1496 – DH F-50 CRU,
S1497 – DH F-51 CRU, S1498 – DH F-52 CRU REBOIL,
S1499 – DH F-53 CRU REGEN,
S1508 – CP F-63 CFH FEED, S1510 - CP F-66 CCU PREHEAT,
S1511 - CP F-67 CCU LGO REBOIL, S1762 – DH F-128 CRU INTERHEATER

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|--------------------------------|---|-----------------------------|-----------------------|
| 60.105(e)(3) | Excess SO ₂ emission definitions for 60.7(c) | Y | |
| 60.106 | Test methods and procedures | Y | |
| 60.106(e) | Method 11 shall be used to verify compliance with 60.104(a)(1) | Y | |
| BAAQMD Condition # 7618 | | | |
| Part A | Emissions limitations [basis: Regulation 2-2-302] | Y | |
| Part B | Emissions profiles and emission factors [basis: Regulation 2-2-302] | Y | |
| Part B.1 | Baseline profiles [basis: Regulation 2-2-302] | Y | |
| Part B.3 | Emission factors used for combustion [basis: Regulation 2-2-302] | Y | |
| Part B.6 | Modification of baseline profiles for particulate, NO _x , SO ₂ , and CO [basis: Regulation 2-2-302] | Y | |
| Part C | Actions resulting from non-compliance [basis: Regulation 2-2-302] | N | |
| Part C.d | Total fuel usage [basis: Regulation 2-2-302] | Y | |
| Part C.e | Sulfur content limit of liquid fuel [basis: Regulation 2-2-302] <u>Applies to: S1486, S1487, S1488, S1491, S1492, S1493, S1495, S1496, S1497, S1498, S1508, S1510, and S1511</u> | Y | |
| Part E | Fuel Conditions [basis: Regulation 2-2-302] <u>Applies to: S1486, S1487, S1488, S1491, S1492, S1493, S1495, S1496, S1497, S1498, S1508, S1510, and S1511</u> | Y | |
| Part E.1 | Sulfur limit of liquid fuel [Regulation 9-1-304] <u>Applies to: S1486, S1487, S1488, S1491, S1492, S1493, S1495, S1496, S1497, S1498, S1508, S1510, and S1511</u> | Y | |
| Part E.2 | Processing limit of San Joaquin Valley Crude [basis: Regulation 2-2-302] (<u>Applies to S1486, S1487, S1488, S1495, S1496, S1497, and S1508, and S1762 only</u>) | <u>Y</u> | |

IV. Source Specific Applicable Requirements

Table IV – BA
Source-specific Applicable Requirements
S1486 - DH F-40 CU FEED, S1487 - DH F-41B VFU FEED,
S1488 – DH F-41A VFU FEED, S1490 – DH F-43 GOHT FEED,
S1491 – DH F-44 NHT FEED,
S1492 – DH F-45 PRIMARY COLUMN REBOIL, S1493 – DH F-46 STABILIZER REBOIL,
S1495 – DH F-49 CRU PREHEAT, S1496 – DH F-50 CRU,
S1497 – DH F-51 CRU, S1498 – DH F-52 CRU REBOIL,
S1499 – DH F-53 CRU REGEN,
S1508 – CP F-63 CFH FEED, S1510 - CP F-66 CCU PREHEAT,
S1511 - CP F-67 CCU LGO REBOIL, S1762 – DH F-128 CRU INTERHEATER

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---------------------------------|---|-----------------------------|-----------------------|
| Part F | Reporting [basis: Cumulative Increase] | Y | |
| Part G | Records [basis: Cumulative Increase] | Y | |
| BAAQMD Condition # 16688 | | | |
| Part 1 | Maximum firing rate [basis: Regulation 2-1-234] | N | |
| BAAQMD Condition # 18265 | | | |
| Part 1 | Sources subject to Regulation 9-10 (basis: Regulation 9-10-301 & 305) | N | 1/1/05 |
| Part 2 | O2 monitor and recorder requirement (basis: Regulation 9-10-502) | N | 09/01/04 |
| Part 8 | For sources with NOx CEMS, semi-annual source test for CO at as-found conditions (basis: Regulation 9-10-502, 1-522) | N | 1/1/05 |
| Part 10 | Source test records (basis: recordkeeping; Regulation 9-10-504) | N | 1/1/05 |
| Part 11 | CEM for NOx and O2 monitoring [basis: Regulation 9-10-502] | N | 1/1/05 |
| Part 13 | IERC required to comply with Regulation 9-10 [Regulation 2-9-303] | N | |
| Part 14 | Monthly summary of daily actual emissions, daily allowable emissions, and actual NOx emission rate (lb/MM BTU) [basis: Regulation 9-10-504] | N | |
| Part 15 | Monthly sum of daily totals [basis: Regulation 9-10-504] | N | |
| Part 17 | Alternative compliance plan [basis: Regulation 9-10-502] | N | |
| Part 20 | Maintain fuel flow meter [basis: Regulation 9-10-503] | N | |
| Part 21 | Recordkeeping [basis: Regulation 9-10-503] | N | |
| BAAQMD | <u>Applies to: S1486, S1487, S1488, S1491, S1492, S1493, S1495, S1496, S1497, S1498, S1508, S1510, and S1511</u> | | |

IV. Source Specific Applicable Requirements

Table IV – BA
Source-specific Applicable Requirements
S1486 - DH F-40 CU FEED, S1487 - DH F-41B VFU FEED,
S1488 – DH F-41A VFU FEED, S1490 – DH F-43 GOHT FEED,
S1491 – DH F-44 NHT FEED,
S1492 – DH F-45 PRIMARY COLUMN REBOIL, S1493 – DH F-46 STABILIZER REBOIL,
S1495 – DH F-49 CRU PREHEAT, S1496 – DH F-50 CRU,
S1497 – DH F-51 CRU, S1498 – DH F-52 CRU REBOIL,
S1499 – DH F-53 CRU REGEN,
S1508 – CP F-63 CFH FEED, S1510 - CP F-66 CCU PREHEAT,
S1511 - CP F-67 CCU LGO REBOIL, S1762 – DH F-128 CRU INTERHEATER

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|--|---|-----------------------------|-----------------------|
| Condition # 18618 | | | |
| Part 3 | Visible emissions inspection (basis: Regulation 2-6-409.2) | Y | |
| Part 4 | Fuel certification (basis: Regulation 2-6-409.2) | Y | |
| Part 6 | Visible emission inspection during tube cleaning (basis: Regulation 2-6-409.2) | Y | |
| Part 7 | Recordkeeping (basis: Regulation 2-6-409.2) | Y | |
| BAAQMD Condition #23559 | Applies to S1510 | | |
| Part 1 | Fuel type limitation (basis: Regulation 2-1-301) | Y | |
| Part 2 | Average NOx emissions factor limit (basis: Shell-EPA Consent Decree) | Y | |
| Part 3 | Allowable NOx emission limit (basis: Shell-EPA Consent Decree) | Y | |
| BAAQMD Condition #23560 | Applies to S1511 | | |
| Part 1 | Fuel type limitation (basis: Regulation 2-1-301) | Y | |
| Part 2 | Average NOx emissions factor limit (basis: Shell-EPA Consent Decree) | Y | |
| Part 3 | Allowable NOx emission limit (basis: Shell-EPA Consent Decree) | Y | |
| <u>BAAQMD Condition # 24263</u> | <u>Applies to S1490, S1491, S1492, S1493, S1495, S1496, S1497, S1498, and S1499</u> | | |
| <u>Part 1</u> | <u>Fuel specification (Basis: Regulation 2-1-301)</u> | <u>Y</u> | |
| <u>Part 2</u> | <u>NOx emission rate (Basis: Shell-EPA Consent Decree)</u> | <u>Y</u> | |
| <u>Part 3</u> | <u>Combined NOx mass emission limit (Basis: Shell-EPA Consent Decree)</u> | <u>Y</u> | |

IV. Source Specific Applicable Requirements

Table IV—BB
Source-specific Applicable Requirements
~~S1486—DHF-40 CU FEED~~
~~S1487—DHF-41B VFU FEED~~
~~S1488—DHF-41A VFU FEED~~
~~S1495—DHF-49 CRU PREHEAT~~
~~S1496—DHF-50 CRU~~
~~S1497—DHF-51 CRU~~
~~S1508—CPF-63 CFH FEED~~

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|-------------------------|--|-----------------------------|-----------------------|
| | See Table IV—BA for additional requirements. | | |
| BAAQMD Condition # 7618 | | | |
| Part E.2 | Processing limit of San Joaquin Valley Crude [basis: Regulation 2-2-302] | Y | |

Table IV—BC
Source-specific Applicable Requirements
~~S1490—DHF-43 GOHT FEED~~
~~S1499—DHF-53 CRU REGEN~~
~~S1762—DHF-128 CRU INTERHEATER~~

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------------|---|-----------------------------|-----------------------|
| BAAQMD Regulation 4 | General Provisions and Definitions (7/19/065/02/01) | Y | |
| 4-520 | Continuous Emission Monitoring | Y | |
| 4-520.8 | Monitors as required by Regulation 10, 12 and Section 2-1-403 | Y | |
| 4-522 | Continuous Emission Monitoring and Recordkeeping Procedures | Y | |
| 4-522.1 | Approval of Plans and Specifications | Y | |
| 4-522.2 | Installation Scheduling | Y | |
| 4-522.3 | CEM Performance Testing | Y | |
| 4-522.4 | Periods of Inoperation | Y | |
| 4-522.5 | Daily Monitor Calibration | Y | |

IV. Source Specific Applicable Requirements

Table IV—BC
Source-specific Applicable Requirements
~~S1490—DHF-43 COHT FEED~~
~~S1499—DHF-53 CRU REGEN~~
~~S1762—DHF-128 CRU INTERHEATER~~

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------------------------|--|-----------------------------|-----------------------|
| 4-522.6 | CEM Maintenance | Y | |
| 4-522.7 | Excess Emissions Reported (Nature, Extent, and Cause) | N | |
| 4-522.8 | Monitoring Data Submittal | Y | |
| 4-522.9 | Records | Y | |
| 4-522.10 | Monitors Required By 4-521 or 2-1-403 | Y | |
| 4-523 | Parametric Monitoring and Recordkeeping Procedures | Y | |
| 4-523.1 | Periods of Inoperation Reported | Y | |
| 4-523.2 | Periods of Inoperation Per Incident | Y | |
| 4-523.3 | Violations of Permit Conditions Reported (Nature, Extent, and Cause) | N | |
| 4-523.4 | Records | Y | |
| 4-523.5 | Maintenance and Calibration Required | N | |
| SIP Regulation 1 | PROVISIONS NO LONGER IN CURRENT RULE General Provisions and Definitions (6/28/99) | | |
| 4-522.7 | Excess Emissions Reported (Nature, Extent, Cause, and Corrective Action) | Y | |
| 4-523.3 | Violations of Permit Conditions Reported (Nature, Extent, Cause, and Corrective Action) | Y | |
| BAAQMD Regulation 2, Rule 9 | Interchangeable Emission Reduction Credits (6/15/05/04/07/99) | | |
| 2-9-302 | Use of IERC's | N | |
| 2-9-303 | Alternative Compliance Plan Using IERC's | N | |
| 2-9-304 | Restrictions on the Use of IERC's | N | |
| 2-9-306 | Environmental Benefit Surcharge | N | |
| 2-9-501 | Monitoring and Record Keeping | N | |
| 2-9-502 | Alternative Compliance Plan Record Keeping and Reporting | N | |
| BAAQMD Regulation 6 Rule 1 | Particulate Matter and Visible Emissions (12/05/07/09/04/98) | | |
| 6-1-301 | Ringelmann No. 1 Limitation | Y | |
| 6-1-304 | Tube Cleaning | Y | |

IV. Source Specific Applicable Requirements

Table IV—BC
Source-specific Applicable Requirements
~~S1490—DHF 43 COHT FEED~~
~~S1499—DHF 53 CRU REGEN~~
~~S1762—DHF 128 CRU INTERHEATER~~

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|-----------------------------|-----------------------|
| 6.1.305 | Visible Particles | Y | |
| 6.1.310 | Particle Weight Limitation | Y | |
| 6.1.310.3 | 0.15 grain per dscf at 6% O ₂ | Y | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| BAAQMD | 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 | |
| 9.10.303 | Federal Interim Facility-wide NOx emission rate limit | Y | |
| 9.10.305 | CO emission limit | N | |
| 9.10.502 | Monitoring | N | |
| 9.10.502.1 | CEMS for NOx, CO, and O ₂ | N | |
| 9.10.502.2 | Fuel flowmeters | N | |
| 9.10.504 | Recordkeeping | N | |
| 9.10.504.1 | For All Sources Subject to 9.10.301, 303, 305 | N | |
| 9.10.505 | Reporting | N | |
| SIP | Inorganic Gaseous Pollutants—Nitrogen Oxides and Carbon Monoxide from Boilers, Steam Generators, and Process Heaters in Petroleum Refineries (3/29/01) | | |
| | | | |
| 9.10.502 | Monitoring | Y | |
| NSPS 40 CFR 60 Subpart A | Standards of Performance for New Stationary Sources (12/23/71) | | |

IV. Source Specific Applicable Requirements

Table IV—BC
Source-specific Applicable Requirements
~~S1490—DHF 43 GOHT FEED~~
~~S1499—DHF 53 CRU REGEN~~
~~S1762—DHF 128 CRU INTERHEATER~~

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|-----------------------------|-----------------------|
| 60.7 | Notification and record-keeping | Y | |
| 60.8 | Performance tests | Y | |
| 60.11 | Compliance with standards and maintenance requirements | Y | |
| 60.11(a) | Performance test | Y | |
| 60.11(d) | Good air pollution control practice for minimizing emissions | Y | |
| 60.11(f) | Special provisions | Y | |
| 60.11(g) | Any credible evidence or information | Y | |
| 60.12 | Circumvention | Y | |
| 60.13 | Monitoring requirements | 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) | Fuel gas H ₂ S limit | Y | |
| 60.105 | Monitoring of Emissions and Operations | Y | |
| 60.105(a)(4) | —monitoring requirement for H ₂ S (dry basis) in fuel gas prior to —combustion (in lieu of separate combustion device exhaust SO ₂ —monitors as required by 60.105(a)(3)) | Y | |
| 60.105(e)(3) | Excess SO ₂ emission definitions for 60.7(e) | Y | |
| 60.106 | Test methods and procedures | Y | |
| 60.106(e) | —Method 11 shall be used to verify compliance with 60.104(a)(1) | Y | |
| BAAQMD Condition # 7618 | | | |
| Part A | Emissions limitations [basis: Regulation 2.2.302] | Y | |
| Part B | Emissions profiles and emission factors [basis: Regulation 2.2.302] | Y | |
| Part B.1 | Baseline profiles [basis: Regulation 2.2.302] | Y | |
| Part B.3 | Emission factors used for combustion [basis: Regulation 2.2.302] | Y | |
| Part B.6 | Modification of baseline profiles for particulate, NO _x , SO ₂ , and CO [basis: Regulation 2.2.302] | Y | |

IV. Source Specific Applicable Requirements

Table IV—BC
Source-specific Applicable Requirements
~~S1490—DHF 43 COHT FEED~~
~~S1499—DHF 53 CRU REGEN~~
~~S1762—DHF 128 CRU INTERHEATER~~

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---------------------------------|---|-----------------------------|-----------------------|
| Part C | Actions resulting from non-compliance [basis: Regulation 2-2-302] | N | |
| Part C.d | Total fuel usage [basis: Regulation 2-2-302] | Y | |
| Part E.2 | Processing limit of San Joaquin Valley Crude [basis: Regulation 2-2-302] (Applies to S1762 only) | Y | |
| Part F | Reporting [basis: Cumulative Increase] | Y | |
| Part G | Records [basis: Cumulative Increase] | Y | |
| BAAQMD Condition # 16688 | | | |
| Part 1 | Maximum firing rate [basis: Regulation 2-1-234] | N | |
| BAAQMD Condition # 18265 | | | |
| Part 1 | Sources subject to Regulation 9-10 (basis: Regulation 9-10-301 & 305) | N | 1/1/05 |
| Part 2 | O2 monitor and recorder requirement (basis: Regulation 9-10-502) | N | 09/01/04 |
| Part 8 | For sources with NOx CEMS, semi-annual source test for CO at as-found conditions (basis: Regulation 9-10-502, 1-522) | N | 1/1/05 |
| Part 10 | Source test records (basis: recordkeeping: Regulation 9-10-504) | N | 1/1/05 |
| Part 11 | CEM for NOx and O2 monitoring [basis: Regulation 9-10-502] | N | 1/1/05 |
| Part 13 | HERC required to comply with Regulation 9-10 [Regulation 2-9-303] | N | |
| Part 14 | Monthly summary of daily actual emissions, daily allowable emissions, and actual NOx emission rate (lb/MM BTU) [basis: Regulation 9-10-504] | N | |
| Part 15 | Monthly sum of daily totals [basis: Regulation 9-10-504] | N | |
| Part 17 | Alternative compliance plan [basis: Regulation 9-10-502] | N | |
| Part 20 | Maintain fuel flow meter [basis: Regulation 9-10-503] | N | |
| Part 21 | Recordkeeping [basis: Regulation 9-10-503] | N | |
| | | | |
| | | | |

IV. Source Specific Applicable Requirements

Table IV – BC
Source-specific Applicable Requirements
~~S1490 – DH F-43 COHT FEED~~
~~S1499 – DH F-53 CRU REGEN~~
~~S1762 – DH F-128 CRU INTERHEATER~~

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

Table IV – BD
Source-specific Applicable Requirements
 S1494 – DH F-47 SECONDARY COLUMN REBOIL
 S1502 – DH F-57 HCU FIRST STAGE FEED
 S1503 – DH F-58 HCU SECOND STAGE FEED
 S1505 - DH F-60 HP1 STEAM METHANE REFORMER
 S1515 – DH F-71 HCU FIRST STAGE REBOIL
 S1761 - OPCEN F-104 HP2 STEAM METHANE REFORMER
 S4031 – DC F-14012 HGHT REBOIL
 S4141 – DC F-14011 HGHT FEED

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------------|--|-----------------------------|-----------------------|
| BAAQMD Regulation 1 | General Provisions and Definitions (7/19/06 5/02/04) | | |
| 1-520 | Continuous Emission Monitoring | Y | |
| 1-520.8 | Monitors as required by Regulation 10, 12 and Section 2-1-403 | Y | |
| 1-522 | Continuous Emission Monitoring and Recordkeeping Procedures | Y | |
| 1-522.1 | Approval of Plans and Specifications | Y | |
| 1-522.2 | Installation Scheduling | Y | |
| 1-522.3 | CEM Performance Testing | Y | |
| 1-522.4 | Periods of Inoperation | Y | |
| 1-522.5 | Daily Monitor Calibration | Y | |
| 1-522.6 | CEM Maintenance | Y | |
| 1-522.7 | Excess Emissions Reported (Nature, Extent, and Cause) | N | |

IV. Source Specific Applicable Requirements

Table IV – BD
Source-specific Applicable Requirements
S1494 – DH F-47 SECONDARY COLUMN REBOIL
S1502 – DH F-57 HCU FIRST STAGE FEED
S1503 – DH F-58 HCU SECOND STAGE FEED
S1505 - DH F-60 HP1 STEAM METHANE REFORMER
S1515 – DH F-71 HCU FIRST STAGE REBOIL
S1761 - OPCEN F-104 HP2 STEAM METHANE REFORMER
S4031 – DC F-14012 HGHT REBOIL
S4141 – DC F-14011 HGHT FEED

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------------------------|---|-----------------------------|-----------------------|
| 1-522.8 | Monitoring Data Submittal | Y | |
| 1-522.9 | Records | Y | |
| 1-522.10 | Monitors Required By 1-521 or 2-1-403 | Y | |
| 1-523 | Parametric Monitoring and Recordkeeping Procedures | Y | |
| 1-523.1 | Periods of Inoperation Reported | Y | |
| 1-523.2 | Periods of Inoperation Per Incident | Y | |
| 1-523.3 | Violations of Permit Conditions Reported (Nature, Extent, and Cause) | N | |
| 1-523.4 | Records | Y | |
| 1-523.5 | Maintenace and Calibration Required | N | |
| SIP Regulation 1 | PROVISIONS NO LONGER IN CURRENT RULE General Provisions and Definitions (6/28/99) | | |
| 1-522.7 | Excess Emissions Reported (Nature, Extent, Cause, and Corrective Action) | Y | |
| 1-523.3 | Violations of Permit Conditions Reported (Nature, Extent, and Cause) | Y | |
| BAAQMD Regulation 2, Rule 9 | Interchangeable Emission Reduction Credits (6/15/05/04/07/99) | | |
| 2-9-302 | Use of IERC's | N | |
| 2-9-303 | Alternative Compliance Plan Using IERC's | N | |
| 2-9-304 | Restrictions on the Use of IERC's | N | |
| 2-9-306 | Environmental Benefit Surcharge | N | |
| 2-9-501 | Monitoring and Record Keeping | N | |
| 2-9-502 | Alternative Compliance Plan Record Keeping and Reporting | N | |
| BAAQMD Regulation 6 Rule 1 | Particulate Matter – General Requirements Particulate Matter and Visible Emissions (12/05/07/09/04/98) | | |

IV. Source Specific Applicable Requirements

Table IV – BD
Source-specific Applicable Requirements
S1494 – DH F-47 SECONDARY COLUMN REBOIL
S1502 – DH F-57 HCU FIRST STAGE FEED
S1503 – DH F-58 HCU SECOND STAGE FEED
S1505 - DH F-60 HP1 STEAM METHANE REFORMER
S1515 – DH F-71 HCU FIRST STAGE REBOIL
S1761 - OPCEN F-104 HP2 STEAM METHANE REFORMER
S4031 – DC F-14012 HGHT REBOIL
S4141 – DC F-14011 HGHT FEED

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|--|--|-----------------------------|-----------------------|
| 6-1-301 | Ringelmann No. 1 Limitation | N | |
| 6-1-304 | Tube Cleaning | N | |
| 6-1-305 | Visible Particles | N | |
| 6-1-310 | Particle Weight Limitation | N | |
| 6-1-310.3 | 0.15 grain per dscf at 6% O ₂ | N | |
| <u>SIP Regulation 6</u> | <u>Particulate Matter and Visible Emissions (9/4/98)</u> | | |
| 6-301 | Ringelmann No. 1 Limitation | <u>Y</u> | |
| 6-304 | Tube Cleaning | <u>Y</u> | |
| 6-305 | Visible Particles | <u>Y</u> | |
| 6-310 | Particulate Weight Limitation | <u>Y</u> | |
| 6-310.3 | 0.15 grain per dscf at 6% O ₂ | <u>Y</u> | |
| <u>BAAQMD Regulation 9, Rule 10</u> | <u>Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon Monoxide from Boilers, Steam Generators, and Process Heaters in Petroleum Refineries (7/17/02)</u> | | |
| 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 | |
| 9-10-303 | Federal Interim Facility-wide NOx emission rate limit | N | |
| 9-10-305 | CO emission limit | N | |
| 9-10-502 | Monitoring | N | |
| 9-10-502.1 | CEMS for NOx, CO, and O ₂ | N | |
| 9-10-502.2 | Fuel flowmeters | Y | |
| 9-10-504 | Recordkeeping | N | |
| 9-10-504.1 | For All Sources Subject to 9-10-301, 303, 305 | N | |

IV. Source Specific Applicable Requirements

Table IV – BD
Source-specific Applicable Requirements
S1494 – DH F-47 SECONDARY COLUMN REBOIL
S1502 – DH F-57 HCU FIRST STAGE FEED
S1503 – DH F-58 HCU SECOND STAGE FEED
S1505 - DH F-60 HP1 STEAM METHANE REFORMER
S1515 – DH F-71 HCU FIRST STAGE REBOIL
S1761 - OPCEN F-104 HP2 STEAM METHANE REFORMER
S4031 – DC F-14012 HGHT REBOIL
S4141 – DC F-14011 HGHT FEED

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|----------------------------------|---|-----------------------------|-----------------------|
| 9-10-505 | Reporting | N | |
| SIP Regulation 9, Rule 10 | Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon Monoxide from Boilers, Steam Generators, and Process Heaters in Petroleum Refineries (3/29/01) | | |
| 9-10-303 | <u>Interim Emission Limit for Facility (Federal Requirements)</u> | <u>Y</u> | |
| 9-10-502 | Monitoring | Y | |
| NSPS 40 CFR 60 Subpart A | Standards of Performance for New Stationary Sources (12/23/71) | | |
| 60.7 | Notification and record keeping | Y | |
| 60.8 | Performance tests | Y | |
| 60.11 | Compliance with standards and maintenance requirements | Y | |
| 60.11(a) | Performance test | Y | |
| 60.11(d) | Good air pollution control practice for minimizing emissions | Y | |
| 60.11(f) | Special provisions | Y | |
| 60.11(g) | Any credible evidence or information | Y | |
| 60.12 | Circumvention | Y | |
| 60.13 | Monitoring requirements | Y | |
| 60.13(i) | <u>Alternatives to any monitoring procedures or requirements (Applies to S4141)</u> | <u>Y</u> | |
| 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) | Fuel gas H2S limit | Y | |

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IV. Source Specific Applicable Requirements

Table IV – BD
Source-specific Applicable Requirements
S1494 – DH F-47 SECONDARY COLUMN REBOIL
S1502 – DH F-57 HCU FIRST STAGE FEED
S1503 – DH F-58 HCU SECOND STAGE FEED
S1505 - DH F-60 HP1 STEAM METHANE REFORMER
S1515 – DH F-71 HCU FIRST STAGE REBOIL
S1761 - OPCEN F-104 HP2 STEAM METHANE REFORMER
S4031 – DC F-14012 HGHT REBOIL
S4141 – DC F-14011 HGHT FEED

| 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) | Excess SO ₂ emission definitions for 60.7(c) | Y | |
| 60.106 | Test methods and procedures | Y | |
| 60.106(e) | Method 11 shall be used to verify compliance with 60.104(a)(1) | Y | |
| BAAQMD Condition # 7618 | <u>Applies to S1494, S1502, S1503, S1505, S1515, and S1761</u> <u>Part E.2 also applies to S4031 and S4141.</u> | | |
| <u>Part A</u> | <u>Emissions limitations [basis: Regulation 2-2-302]</u> | <u>Y</u> | |
| <u>Part B</u> | <u>Emissions profiles and emission factors [basis: Regulation 2-2-302]</u> | <u>Y</u> | |
| <u>Part B.1</u> | <u>Baseline profiles [basis: Regulation 2-2-302]</u> | <u>Y</u> | |
| <u>Part B.3</u> | <u>Emission factors used for combustion [basis: Regulation 2-2-302]</u> | <u>Y</u> | |
| <u>Part B.6</u> | <u>Modification of baseline profiles for particulate, NOx, SO₂, and CO [basis: Regulation 2-2-302]</u> | <u>Y</u> | |
| <u>Part E.2</u> | <u>Processing limit of San Joaquin Valley Crude [basis: Regulation 2-2-302] (Applies to S1494, S1505, S1515, S1761, S4031, and S4141 only)</u> | <u>Y</u> | |
| BAAQMD Condition # 12271 | <u>Applies to S4031 and S4141</u> | | |
| <u>Part A</u> | <u>Monthly and annual emission limits [basis: Offsets, Cumulative Increase]</u> | <u>Y</u> | |
| <u>Part B</u> | <u>Applicable sources [basis: Offsets, Cumulative Increase]</u> | <u>Y</u> | |
| <u>Part C</u> | <u>In the case of a process upset or other irregularity [basis: Offsets, Cumulative Increase]</u> | <u>N</u> | |

IV. Source Specific Applicable Requirements

Table IV – BD
Source-specific Applicable Requirements
S1494 – DH F-47 SECONDARY COLUMN REBOIL
S1502 – DH F-57 HCU FIRST STAGE FEED
S1503 – DH F-58 HCU SECOND STAGE FEED
S1505 - DH F-60 HP1 STEAM METHANE REFORMER
S1515 – DH F-71 HCU FIRST STAGE REBOIL
S1761 - OPCEN F-104 HP2 STEAM METHANE REFORMER
S4031 – DC F-14012 HGHT REBOIL
S4141 – DC F-14011 HGHT FEED

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------------|---|-----------------------------|-----------------------|
| Part D | <u>Applicable source test methods [basis: Manual of Procedures, Volume IV]</u> | <u>Y</u> | |
| Part E | <u>Notification of the Source Test Section [basis: Manual of Procedures, Volume IV]</u> | <u>Y</u> | |
| Part G | <u>Source test results [basis: Manual of Procedures Volume IV]</u> | <u>Y</u> | |
| Part J | <u>CEM requirements [basis: Cumulative Increase, Offsets]</u> | <u>Y</u> | |
| Part K | <u>CEM data for compliance verification [basis: BACT, Offsets]</u> | <u>Y</u> | |
| Part L | <u>Recordkeeping [basis: BACT, Offsets, Cumulative Increase]</u> | <u>Y</u> | |
| Part M | <u>Monthly reports [basis: Offsets, Cumulative Increase]</u> | <u>Y</u> | |
| Part O | <u>Offsets requirements [basis: Offsets]</u> | <u>Y</u> | |
| Part 15 | <u>Refinery fuel gas limits [basis: BACT]</u> | <u>Y</u> | |
| Part 16 | <u>Continuous gaseous fuel monitor/recorder for H2S [basis: BACT]</u> | <u>Y</u> | |
| Part 16A | <u>Natural gas line connection upstream of CO Boilers [basis: Offsets]</u> | <u>Y</u> | |
| Part 17 | <u>Recordkeeping requirements [basis: Cumulative Emissions]</u> | <u>Y</u> | |
| Part 18 | <u>Fuel usage limitation [basis: Offsets, Cumulative Increase]</u> | <u>Y</u> | |
| Part 19 | <u>ULSD defined [basis: Offsets, Cumulative Increase]</u> | <u>Y</u> | |
| Part 20 | <u>Continuous Fuel Flow Monitor [basis: Offsets, Cumulative Increase]</u> | <u>Y</u> | |
| Part 21 | <u>Calculate and Record Emissions Monthly [basis: Offsets, Cumulative Increase]</u> | <u>Y</u> | |
| Part 22 | <u>Startup and shutdown limits [basis: BACT]</u> | <u>Y</u> | |
| Part 23 | <u>HHV basis [basis: Cumulative Emissions]</u> | <u>Y</u> | |
| Part 35 | <u>Furnaces with SCR NOx emission limit [basis: BACT]</u> | <u>Y</u> | |
| Part 36 | <u>Furnaces with SCR CO emission limit [basis: BACT]</u> | <u>Y</u> | |
| Part 37 | <u>Furnaces with SCR Ammonia emission limit [basis: BACT]</u> | <u>N</u> | |
| Part 38 | <u>Furnaces with SCR CEM recorder for NOx and O2 [basis: BACT]</u> | <u>Y</u> | |
| Part 105 | <u>Source Test for CO emissions [basis: Regulation 2-6-409.2]</u> | <u>Y</u> | |

IV. Source Specific Applicable Requirements

Table IV – BD
Source-specific Applicable Requirements
S1494 – DH F-47 SECONDARY COLUMN REBOIL
S1502 – DH F-57 HCU FIRST STAGE FEED
S1503 – DH F-58 HCU SECOND STAGE FEED
S1505 - DH F-60 HP1 STEAM METHANE REFORMER
S1515 – DH F-71 HCU FIRST STAGE REBOIL
S1761 - OPCEN F-104 HP2 STEAM METHANE REFORMER
S4031 – DC F-14012 HGHT REBOIL
S4141 – DC F-14011 HGHT FEED

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---------------------------------|---|-----------------------------|-----------------------|
| Part 111 | Source Test for NH ₃ emissions [basis: Regulation 2-6-409.2] | N | |
| BAAQMD Condition # 16688 | Applies to S4031 and S4141 | | |
| Part 1 | Maximum firing rate [basis: Regulation 2-1-234] | N | |
| BAAQMD Condition # 18265 | | | |
| Part 1 | Sources subject to Regulation 9-10 (basis: Regulation 9-10-301 & 305) | N | 1/1/05 |
| Part 2 | O2 monitor and recorder requirement (basis: Regulation 9-10-502) | N | 09/01/04 |
| Part 8 | For sources with NOx CEMS, semi-annual source test for CO at as-found conditions (basis: Regulation 9-10-502, 1-522) | N | 1/1/05 |
| Part 10 | Source test records (basis: recordkeeping; Regulation 9-10-504) | N | 1/1/05 |
| Part 11 | CEM for NOx and O2 monitoring [basis: Regulation 9-10-502] | N | 1/1/05 |
| Part 13 | IERC required to comply with Regulation 9-10 [Regulation 2-9-303] | N | |
| Part 14 | Monthly summary of daily actual emissions, daily allowable emissions, and actual NOx emission rate (lb/MM BTU) [basis: Regulation 9-10-504] | N | |
| Part 15 | Monthly sum of daily totals [basis: Regulation 9-10-504] | N | |
| Part 17 | Alternative compliance plan [basis: Regulation 9-10-502] | N | |
| Part 20 | Maintain fuel flow meter [basis: Regulation 9-10-503] | N | |
| Part 21 | Recordkeeping [basis: Regulation 9-10-503] | N | |
| BAAQMD Condition # | | | |

IV. Source Specific Applicable Requirements

Table IV – BD
Source-specific Applicable Requirements
S1494 – DH F-47 SECONDARY COLUMN REBOIL
S1502 – DH F-57 HCU FIRST STAGE FEED
S1503 – DH F-58 HCU SECOND STAGE FEED
S1505 - DH F-60 HP1 STEAM METHANE REFORMER
S1515 – DH F-71 HCU FIRST STAGE REBOIL
S1761 - OPCEN F-104 HP2 STEAM METHANE REFORMER
S4031 – DC F-14012 HGHT REBOIL
S4141 – DC F-14011 HGHT FEED

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|-----------------------------|-----------------------|
| 16688 | | | |
| Part 1 | Maximum firing rate [basis: Regulation 2-1-234] | N | |
| BAAQMD Condition # 24263 | <u>Applies to S1494</u> | | |
| Part 1 | <u>Fuel specification (Basis: Regulation 2-1-301)</u> | <u>Y</u> | |
| Part 2 | <u>NOx emission rate (Basis: Shell-EPA Consent Decree)</u> | <u>Y</u> | |
| Part 3 | <u>Combined NOx mass emission limit (Basis: Shell-EPA Consent Decree)</u> | <u>Y</u> | |
| BAAQMD AMP Condiiton # 24336 | <u>For S4141</u> | | |
| Part 1 | <u>Alternative procedures for demonstrating compliance with the 162 ppmv H2S limit in NSPS J 60.104(a)(1) (Basis: Alternative Monitoring Plan, 40 CFR 60.13(i))</u> | <u>Y</u> | |
| Part 2 | <u>Recordkeeping requirements (Basis: Regulation 2-6-501)</u> | <u>Y</u> | |

IV. Source Specific Applicable Requirements

Table IV – BE
Source-specific Applicable Requirements
~~S1494 – DH F-47 SECONDARY COLUMN REBOIL~~
~~S1502 – DH F-57 HCU FIRST STAGE FEED~~
~~S1503 – DH F-58 HCU SECOND STAGE FEED~~
~~S1505 – DH F-60 HP1 STEAM METHANE REFORMER~~
~~S1515 – DH F-71 HCU FIRST STAGE REBOIL~~
~~S1761 – OPCEN F-104 HP2 STEAM METHANE REFORMER~~

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|--------------------------------|---|-----------------------------|-----------------------|
| | See Table IV – BD for additional requirements. | | |
| BAAQMD Condition # 7618 | | | |
| Part A | Emissions limitations [basis: Regulation 2-2-302] | Y | |
| Part B | Emissions profiles and emission factors [basis: Regulation 2-2-302] | Y | |
| Part B-1 | Baseline profiles [basis: Regulation 2-2-302] | Y | |
| Part B-3 | Emission factors used for combustion [basis: Regulation 2-2-302] | Y | |
| Part B-6 | Modification of baseline profiles for particulate, NOx, SO2, and CO [basis: Regulation 2-2-302] | Y | |
| Part C | Actions resulting from non-compliance [basis: Regulation 2-2-302] | N | |
| Part C-d | Total fuel usage [basis: Regulation 2-2-302] | Y | |
| Part F | Reporting [basis: Cumulative Increase] | Y | |
| Part G | Records [basis: Cumulative Increase] | Y | |

Table IV – BF
Source-specific Applicable Requirements
~~S1494 – DH F-47 SECONDARY COLUMN REBOIL~~

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|--------------------------------|--|-----------------------------|-----------------------|
| | See Table IV – BD for additional requirements. | | |
| BAAQMD Condition # 7618 | | | |
| Part E-2 | Processing limit of San Joaquin Valley Crude [basis: Regulation 2-2- | Y | |

IV. Source Specific Applicable Requirements

Table IV – BF
Source-specific Applicable Requirements
~~S1494 – DH F-47 SECONDARY COLUMN REBOIL~~

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------------|--|-----------------------------|-----------------------|
| | See Table IV – BD for additional requirements. | | |
| | 3021 | | |

Table IV – BG
Source-specific Applicable Requirements
 S1500 DH F-55 SGP HEAT MEDIUM
 S1504 - DH F-59 HCU SECOND STAGE REBOIL
 S1763 - DH F-126 CU FEED
 S4002 – DC F-13425-A DCU
 S4003 – DC F13425-B DCU

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------------|--|-----------------------------|-----------------------|
| BAAQMD Regulation 1 | General Provisions and Definitions (7/19/06 5/02/01) | Y | |
| 1-520 | Continuous Emission Monitoring | Y | |
| 1-520.8 | Monitors as required by Regulation 10, 12 and Section 2-1-403 | Y | |
| 1-522 | Continuous Emission Monitoring and Recordkeeping Procedures | Y | |
| 1-522.1 | Approval of Plans and Specifications | Y | |
| 1-522.2 | Installation Scheduling | Y | |
| 1-522.3 | CEM Performance Testing | Y | |
| 1-522.4 | Periods of Inoperation | Y | |
| 1-522.5 | Daily Monitor Calibration | Y | |
| 1-522.6 | CEM Maintenance | Y | |
| 1-522.7 | Excess Emissions Reported (Nature, Extent, and Cause) | N | |
| 1-522.8 | Monitoring Data Submittal | Y | |
| 1-522.9 | Records | Y | |
| 1-522.10 | Monitors Required By 1-521 or 2-1-403 | Y | |
| 1-523 | Parametric Monitoring and Recordkeeping Procedures | Y | |
| 1-523.1 | Periods of Inoperation Reported | Y | |

IV. Source Specific Applicable Requirements

Table IV – BG
Source-specific Applicable Requirements
S1500 DH F-55 SGP HEAT MEDIUM
S1504 - DH F-59 HCU SECOND STAGE REBOIL
S1763 - DH F-126 CU FEED
S4002 – DC F-13425-A DCU
S4003 – DC F13425-B DCU

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------------------------|--|-----------------------------|-----------------------|
| 1-523.2 | Periods of Inoperation Per Incident | Y | |
| 1-523.3 | Violations of Permit Conditions Reported (Nature, Extent, and Cause) | N | |
| 1-523.4 | Records | Y | |
| 1-523.5 | Maintenace and Calibration Required | N | |
| SIP Regulation 1 | PROVISIONS NO LONGER IN CURRENT RULE General Provisions and Definitions (6/28/99) | | |
| 1-522.7 | Excess Emissions Reported (Nature, Extent, Cause, and Corrective Action) | Y | |
| 1-523.3 | Violations of Permit Conditions Reported (Nature, Extent, Cause, and Corrective Action) | Y | |
| BAAQMD Regulation 2, Rule 9 | Interchangeable Emission Reduction Credits (6/15/05/04/07/99) | | |
| 2-9-302 | Use of IERC's | N | |
| 2-9-303 | Alternative Compliance Plan Using IERC's | N | |
| 2-9-304 | Restrictions on the Use of IERC's | N | |
| 2-9-306 | Environmental Benefit Surcharge | N | |
| 2-9-501 | Monitoring and Record Keeping | N | |
| 2-9-502 | Alternative Compliance Plan Record Keeping and Reporting | N | |
| BAAQMD Regulation 6 Rule 1 | Particulate Matter – General Requirements Particulate Matter and Visible Emissions (12/05/0709/04/98) | | |
| 6-1-301 | Ringelmann No. 1 Limitation | N | |
| 6-1-304 | Tube Cleaning | N | |
| 6-1-305 | Visible Particles | N | |
| 6-1-310 | Particle Weight Limitation | N | |
| 6-1-310.3 | 0.15 grain per dscf at 6% O ₂ | N | |
| 6-1-401 | Appearance of Emissions | N | |

IV. Source Specific Applicable Requirements

Table IV – BG
Source-specific Applicable Requirements
S1500 DH F-55 SGP HEAT MEDIUM
S1504 - DH F-59 HCU SECOND STAGE REBOIL
S1763 - DH F-126 CU FEED
S4002 – DC F-13425-A DCU
S4003 – DC F13425-B DCU

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|-----------------------------|-----------------------|
| <u>SIP</u> <u>Regulation 6</u> | <u>Particulate Matter and Visible Emissions (9/4/98)</u> | | |
| 6-301 | <u>Ringelmann No. 1 Limitation</u> | <u>Y</u> | |
| 6-304 | <u>Tube Cleaning</u> | <u>Y</u> | |
| 6-305 | <u>Visible Particles</u> | <u>Y</u> | |
| 6-310 | <u>Particulate Weight Limitation</u> | <u>Y</u> | |
| 6-310.3 | <u>0.15 grain per dscf at 6% O₂</u> | <u>Y</u> | |
| 6-401 | <u>Appearance of Emissions</u> | <u>Y</u> | |
| BAAQMD Regulation 9, Rule 1 | Inorganic Gaseous Pollutants - Sulfur Dioxide (3/15/95; SIP approved 6/8/99) | | |
| 9-1-304 | Fuel Burning (Liquid and Solid Fuels) | Y | |
| 9-1-502 | Continuous Emission Monitoring If Required by APCO | 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 Interim Facility-wide NOx emission rate limit | Y N | |
| 9-10-305 | CO emission limit | N | |
| 9-10-502 | Monitoring | N | |
| 9-10-502.1 | CEMS for NOx, CO, and O ₂ | N | |
| 9-10-502.2 | Fuel flowmeters | N Y | |
| 9-10-504 | Recordkeeping | N | |
| 9-10-504.1 | For All Sources Subject to 9-10-301, 303, 305 | N | |
| 9-10-505 | Reporting | N | |
| SIP | Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon | | |

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IV. Source Specific Applicable Requirements

Table IV – BG
Source-specific Applicable Requirements
S1500 DH F-55 SGP HEAT MEDIUM
S1504 - DH F-59 HCU SECOND STAGE REBOIL
S1763 - DH F-126 CU FEED
S4002 – DC F-13425-A DCU
S4003 – DC F13425-B DCU

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---------------------------------|---|-----------------------------|-----------------------|
| Regulation 9, Rule 10 | Monoxide from Boilers, Steam Generators, and Process Heaters in Petroleum Refineries (3/29/01) | | |
| 9-10-303 | Interim Emission Limit for Facility (Federal Requirements) | Y | |
| 9-10-502 | Monitoring | Y | |
| NSPS 40 CFR 60 Subpart A | Standards of Performance for New Stationary Sources (12/23/71) | Y | |
| 60.7 | Notification and record keeping | Y | |
| 60.8 | Performance tests | N | |
| 60.105 | Monitoring of Emissions and Operations | N | |
| 60.105(e)(3) | Excess SO₂ emission definitions for 60.7(e) | N | |
| 60.11 | Compliance with standards and maintenance requirements | Y | |
| 60.11(a) | Performance test | Y | |
| 60.11(d) | Good air pollution control practice for minimizing emissions | Y | |
| 60.11(f) | Special provisions | Y | |
| 60.11(g) | Any credible evidence or information | Y | |
| 60.12 | Circumvention | Y | |
| 60.13 | Monitoring requirements | Y | |
| 60.13(i) | Alternatives to any monitoring procedures or requirement (Applies to S4002 and S4003) | 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) | Fuel gas H2S limit | 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 | N | |

IV. Source Specific Applicable Requirements

Table IV – BG
Source-specific Applicable Requirements
S1500 DH F-55 SGP HEAT MEDIUM
S1504 - DH F-59 HCU SECOND STAGE REBOIL
S1763 - DH F-126 CU FEED
S4002 – DC F-13425-A DCU
S4003 – DC F13425-B DCU

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|--------------------------------|---|-----------------------------|-----------------------|
| | monitors as required by 60.105(a)(3)) | | |
| 60.106 | Test methods and procedures | N | |
| 60.106(e) | Method 11 shall be used to verify compliance with 60.104(a)(1) | N | |
| 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) | Excess SO ₂ emission definitions for 60.7(c) | Y | |
| 60.106 | Test methods and procedures | Y | |
| 60.106(e) | Method 11 shall be used to verify compliance with 60.104(a)(1) | Y | |
| BAAQMD Condition # 7618 | <u>Applies to S1500, S1504, S1763, S4002, and S4003</u> | | |
| Part A | <u>Emissions limitations [basis: Regulation 2-2-302]</u> | Y | |
| Part B | <u>Emissions profiles and emission factors [basis: Regulation 2-2-302]</u> | Y | |
| Part B.1 | <u>Baseline profiles [basis: Regulation 2-2-302]</u> | Y | |
| Part B.3 | <u>Emission factors used for combustion [basis: Regulation 2-2-302]</u> | Y | |
| Part B.6 | <u>Modification of baseline profiles for particulate, NOx, SO2, and CO [basis: Regulation 2-2-302]</u> | Y | |
| Part C | <u>Actions resulting from non-compliance [basis: Regulation 2-2-302]</u> | N | |
| Part C.d | <u>Total fuel usage [basis: Regulation 2-2-302]</u> | Y | |
| Part C.e | <u>Sulfur content limit of liquid fuel [basis: Regulation 2-2-302]</u> | Y | |
| Part E | <u>Fuel Conditions</u> | Y | |
| Part E.1 | <u>Sulfur limit of liquid fuel [Regulation 9-1-304]</u> | Y | |
| Part E.2 | <u>Processing limit of San Joaquin Valley Crude [basis: Regulation 2-2-302]</u> | Y | |
| Part F | <u>Reporting [basis: Cumulative Increase]</u> | Y | |
| Part G | <u>Records [basis: Cumulative Increase]</u> | Y | |
| Part E.2 | <u>Processing limit of San Joaquin Valley Crude [basis: Regulation 2-2-302] (Applies to S1504 and S1763 only)</u> | Y | |

IV. Source Specific Applicable Requirements

Table IV – BG
Source-specific Applicable Requirements
S1500 DH F-55 SGP HEAT MEDIUM
S1504 - DH F-59 HCU SECOND STAGE REBOIL
S1763 - DH F-126 CU FEED
S4002 – DC F-13425-A DCU
S4003 – DC F13425-B DCU

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|--|-----------------------------|-----------------------|
| <u>BAAQMD</u> <u>Condition #</u> <u>12271</u> | Applies to S4002 and S4003 | | |
| Part A | Monthly and annual emission limits [basis: Offsets, Cumulative Increase] | Y | |
| Part B | Applicable sources [basis: Offsets, Cumulative Increase] | Y | |
| Part C | In the case of a process upset or other irregularity [basis: Offsets, Cumulative Increase] | N | |
| Part D | Applicable source test methods [basis: Manual of Procedures, Volume IV] | Y | |
| Part E | Notification of the Source Test Section [basis: Manual of Procedures, Volume IV] | Y | |
| Part G | Source test results [basis: Manual of Procedures Volume IV] | Y | |
| Part J | CEM requirements [basis: Cumulative Increase, Offsets] | Y | |
| Part K | CEM data for compliance verification [basis: BACT, Offsets] | Y | |
| Part L | Recordkeeping [basis: BACT, Offsets, Cumulative Increase] | Y | |
| Part M | Monthly reports [basis: Offsets, Cumulative Increase] | Y | |
| Part O | Offsets requirements [basis: Offsets] | Y | |
| Part 15 | Refinery fuel gas limits [basis: BACT] | Y | |
| Part 16 | Continuous gaseous fuel monitor/recorder for H2S [basis: BACT] | Y | |
| Part 16A | Natural gas line connection upstream of CO Boilers [basis: Offsets] | Y | |
| Part 17 | Recordkeeping requirements [basis: Cumulative Emissions] | Y | |
| Part 18.a. | Fuel usage limitation [basis: Offsets, Cumulative Increase] | Y | |
| Part 19 | ULSD defined [basis: Offsets, Cumulative Increase] | Y | |
| Part 20 | Continuous Fuel Flow Monitor [basis: Offsets, Cumulative Increase] | Y | |
| Part 21 | Calculate and Record Emissions Monthly [basis: Offsets, Cumulative Increase] | Y | |
| Part 22 | Startup and shutdown limits [basis: BACT] | Y | |
| Part 23 | HHV basis [basis: Cumulative Emissions] | Y | |

IV. Source Specific Applicable Requirements

Table IV – BG
Source-specific Applicable Requirements
S1500 - DH F-55 SGP HEAT MEDIUM
S1504 - DH F-59 HCU SECOND STAGE REBOIL
S1763 - DH F-126 CU FEED
S4002 – DC F-13425-A DCU
S4003 – DC F13425-B DCU

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---------------------------------|---|-----------------------------|-----------------------|
| Part 35 | Furnaces with SCR NOx emission limit [basis: BACT] | Y | |
| Part 36 | Furnaces with SCR CO emission limit [basis: BACT] | Y | |
| Part 37 | Furnaces with SCR Ammonia emission limit [basis: BACT] | N | |
| Part 38 | Furnaces with SCR CEM recorder for NOx and O2 [basis: BACT] | Y | |
| Part 105 | Source Test for CO emissions [basis: Regulation 2-6-409.2] | Y | |
| Part 111 | Source Test for NH ₃ emissions [basis: Regulation 2-6-409.2] | N | |
| BAAQMD Condition # 16688 | Applies to S4002 and S4003 | | |
| Part 1 | Maximum firing rate [basis: Regulation 2-1-234] | N | |
| BAAQMD Condition # 18265 | | | |
| Part 1 | Sources subject to Regulation 9-10 (basis: Regulation 9-10-301 & 305) | N | 1/1/05 |
| Part 2 | O2 monitor and recorder requirement (basis: Regulation 9-10-502) | N | 09/01/04 |
| Part 8 | For sources with NOx CEMS, semi-annual source test for CO at as-found conditions (basis: Regulation 9-10-502, 1-522) | N | 1/1/05 |
| Part 10 | Source test records (basis: recordkeeping: Regulation 9-10-504) | N | 1/1/05 |
| Part 11 | CEM for NOx and O2 monitoring [basis: Regulation 9-10-502] | N | 1/1/05 |
| Part 13 | IERC required to comply with Regulation 9-10 [Regulation 2-9-303] | N | |
| Part 14 | Monthly summary of daily actual emissions, daily allowable emissions, and actual NOx emission rate (lb/MM BTU) [basis: Regulation 9-10-504] | N | |
| Part 15 | Monthly sum of daily totals [basis: Regulation 9-10-504] | N | |
| Part 17 | Alternative compliance plan [basis: Regulation 9-10-502] | N | |
| Part 20 | Maintain fuel flow meter [basis: Regulation 9-10-503] | N | |
| Part 21 | Recordkeeping [basis: Regulation 9-10-503] | N | |

IV. Source Specific Applicable Requirements

Table IV – BG
Source-specific Applicable Requirements
S1500 DH F-55 SGP HEAT MEDIUM
S1504 - DH F-59 HCU SECOND STAGE REBOIL
S1763 - DH F-126 CU FEED
S4002 – DC F-13425-A DCU
S4003 – DC F13425-B DCU

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|-----------------------------|-----------------------|
| BAAQMD Condition # 16688 | | | |
| Part 1 | Maximum firing rate [basis: Regulation 2-1-234] | N | |
| BAAQMD Condition # 18618 | | | |
| Part 2 | Recordkeeping (basis: Regulation 2-1-234.3) | N | |
| Part 3 | Visible emissions inspection (basis: Regulation 2-6-409.2) | Y | |
| Part 4 | Fuel certification (basis: Regulation 2-6-409.2) | Y | |
| Part 6 | Visible emission inspection during tube cleaning (basis: Regulation 2-6-409.2) | Y | |
| Part 7 | Recordkeeping (basis: Regulation 2-6-409.2) | Y | |
| <u>BAAQMD</u> | <u>For S4002 and S4003</u> | | |
| <u>AMP</u> <u>Condiiton #</u> <u>24336</u> | | | |
| Part 1 | <u>Alternative procedures for demonstrating compliance with the 162 ppmv H2S limit in NSPS J 60.104(a)(1)</u> <u>(Basis: Alternative Monitoring Plan, 40 CFR 60.13(i))</u> | <u>Y</u> | |
| Part 2 | <u>Recordkeeping requirements (Basis: Regulation 2-6-501)</u> | <u>Y</u> | |

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IV. Source Specific Applicable Requirements

Table IV—BH
Source-specific Applicable Requirements
~~S1500—DHF-55 SGP HEAT MEDIUM~~
~~S1504—DHF-59 HCU SECOND STAGE REBOIL~~
 S1763—DHF-126 CU FEED

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|--------------------------------|--|-----------------------------|-----------------------|
| | See Table IV—BG for additional requirements. | | |
| BAAQMD Condition # 7618 | | | |
| Part A | Emissions limitations [basis: Regulation 2-2-302] | Y | |
| Part B | Emissions profiles and emission factors [basis: Regulation 2-2-302] | Y | |
| Part B.1 | Baseline profiles [basis: Regulation 2-2-302] | Y | |
| Part B.3 | Emission factors used for combustion [basis: Regulation 2-2-302] | Y | |
| Part B.6 | Modification of baseline profiles for particulate, NOx, SO ₂ , and CO [basis: Regulation 2-2-302] | Y | |
| Part C | Actions resulting from non-compliance [basis: Regulation 2-2-302] | N | |
| Part C.d | Total fuel usage [basis: Regulation 2-2-302] | Y | |
| Part C.e | Sulfur content limit of liquid fuel [basis: Regulation 2-2-302] | Y | |
| Part E | Fuel Conditions | Y | |
| Part E.1 | Sulfur limit of liquid fuel [Regulation 9-1-304] | Y | |
| Part E.2 | Processing limit of San Joaquin Valley Crude [basis: Regulation 2-2-302] | Y | |
| Part F | Reporting [basis: Cumulative Increase] | Y | |
| Part G | Records [basis: Cumulative Increase] | Y | |

IV. Source Specific Applicable Requirements

Table IV—BI
Source-specific Applicable Requirements
~~S1504—DH F-59 HCU SECOND STAGE REBOIL~~
~~S1763—DH F-126 CU FEED~~

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|-------------------------|--|-----------------------------|-----------------------|
| | See Table IV—BG & BH for additional requirements. | | |
| BAAQMD Condition # 7618 | | | |
| Part E.2 | Processing limit of San Joaquin Valley Crude [basis: Regulation 2 2-302] | Y | |

Table IV—BJ
Source-specific Applicable Requirements
~~S1505—DH F-60 HP1 STEAM METHANE REFORMER~~
~~S1515—DH F-71 HCU FIRST STAGE REBOIL~~
~~S1761—OPCEN F-104 HP2 STEAM METHANE REFORMER~~

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|-------------------------|--|-----------------------------|-----------------------|
| | See Table IV—BD & BE for additional requirements. | | |
| BAAQMD Condition # 7618 | | | |
| Part E.2 | Processing limit of San Joaquin Valley Crude [basis: Regulation 2 2-302] | Y | |

IV. Source Specific Applicable Requirements

Table IV - BK
Source-specific Applicable Requirements
S1507 - UTIL CO BOILER .1
S1509 - UTIL CO BOILER 2
S1512 - UTIL CO BOILER 3

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------------------------|--|-----------------------------|-----------------------|
| BAAQMD Regulation 1 | General Provisions and Definitions (7/19/065/02/01) | Y | |
| 1-520 | Continuous Emission Monitoring | Y | |
| 1-520.8 | Monitors as required by Regulation 10, 12 and Section 2-1-403 | Y | |
| 1-522 | Continuous Emission Monitoring and Recordkeeping Procedures | Y | |
| 1-522.1 | Approval of Plans and Specifications | Y | |
| 1-522.2 | Installation Scheduling | Y | |
| 1-522.3 | CEM Performance Testing | Y | |
| 1-522.4 | Periods of Inoperation | Y | |
| 1-522.5 | Daily Monitor Calibration | Y | |
| 1-522.6 | CEM Maintenance | Y | |
| 1-522.7 | Excess Emissions Reported (Nature, Extent, and Cause) | N | |
| 1-522.8 | Monitoring Data Submittal | Y | |
| 1-522.9 | Records | Y | |
| 1-522.10 | Monitors Required By 1-521 or 2-1-403 | Y | |
| 1-523 | Parametric Monitoring and Recordkeeping Procedures | Y | |
| 1-523.1 | Periods of Inoperation Reported | Y | |
| 1-523.2 | Periods of Inoperation Per Incident | Y | |
| 1-523.3 | Violations of Permit Conditions Reported (Nature, Extent, and Cause) | N | |
| 1-523.4 | Records | Y | |
| 1-523.5 | Maintenace and Calibration Required | N | |
| SIP Regulation 1 | PROVISIONS NO LONGER IN CURRENT RULE General Provisions and Definitions (6/28/99) | | |
| 1-522.7 | Excess Emissions Reported (Nature, Extent, Cause, and Corrective Action) | Y | |
| 1-523.3 | Violations of Permit Conditions Reported (Nature, Extent, Cause, and Corrective Action) | Y | |
| BAAQMD Regulation 2, Rule 9 | Interchangeable Emission Reduction Credits (6/15/0504/07/99) | | |

IV. Source Specific Applicable Requirements

Table IV - BK
Source-specific Applicable Requirements
S1507 - UTIL CO BOILER .1
S1509 - UTIL CO BOILER 2
S1512 - UTIL CO BOILER 3

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------------------------|---|-----------------------------|-----------------------|
| 2-9-302 | Use of IERC's | N | |
| 2-9-303 | Alternative Compliance Plan Using IERC's | N | |
| 2-9-304 | Restrictions on the Use of IERC's | N | |
| 2-9-306 | Environmental Benefit Surcharge | N | |
| 2-9-501 | Monitoring and Record Keeping | N | |
| 2-9-502 | Alternative Compliance Plan Record Keeping and Reporting | N | |
| BAAQMD Regulation 6 Rule 1 | Particulate Matter – General Requirements Particulate Matter and Visible Emissions (12/05/0709/0498) | | |
| 6-1-301 | Ringelmann No. 1 Limitation | N | |
| 6-1-304 | Tube Cleaning | N | |
| 6-1-305 | Visible Particles | N | |
| 6-1-310 | Particle Weight Limitation | N | |
| 6-1-310.3 | 0.15 grain per dscf at 6% O₂ | N | |
| 6-1-311 | General Operations (process weight rate limitation) | N | |
| 6-1-401 | Appearance of Emissions | N | |
| SIP Regulation 6 | Particulate Matter and Visible Emissions (9/4/98) | | |
| 6-301 | Ringelmann No. 1 Limitation | Y | |
| 6-304 | Tube Cleaning | Y | |
| 6-305 | Visible Particles | Y | |
| 6-310 | Particulate Weight Limitation | Y | |
| 6-310.3 | 0.15 grain per dscf at 6% O₂ | Y | |
| 6-311 | General Operations (process weight rate limitation) | Y | |
| 6-401 | Appearance of Emissions | Y | |
| BAAQMD Regulation 9, Rule 1 | Inorganic Gaseous Pollutants - Sulfur Dioxide (3/15/95; SIP approved 6/8/99) | | |
| 9-1-304 | Fuel Burning (Liquid and Solid Fuels) | Y | |
| 9-1-502 | Continuous Emission Monitoring If Required by APCO | Y | |
| BAAQMD | Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon | | |

IV. Source Specific Applicable Requirements

Table IV - BK
Source-specific Applicable Requirements
S1507 - UTIL CO BOILER .1
S1509 - UTIL CO BOILER 2
S1512 - UTIL CO BOILER 3

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|----------------------------------|---|-----------------------------|-----------------------|
| Regulation 9, Rule 10 | Monoxide from Boilers, Steam Generators, and Process Heaters in Petroleum Refineries (7/17/02) | | |
| 9-10-303.1 | Federal Interim Facility-wide NOx emission limit for CO Boilers | Y | |
| 9-10-304 | NOx emission limit for CO Boilers | N | |
| 9-10-305 | CO emission limit | N | |
| 9-10-502 | Monitoring | N | |
| 9-10-502.1 | CEMS for NOx, CO, and O2 | N | |
| 9-10-502.2 | Fuel flowmeters | NY | |
| 9-10-504 | Recordkeeping | N | |
| 9-10-504.1 | For All Sources Subject to 9-10-301, 303, 305 | N | |
| 9-10-505 | Reporting | N | |
| SIP Regulation 9, Rule 10 | Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon Monoxide from Boilers, Steam Generators, and Process Heaters in Petroleum Refineries (3/29/01) | | |
| 9-10-502 | Monitoring | Y | |
| NSPS 40 CFR 60 Subpart A | Standards of Performance for New Stationary Sources (12/23/71) | | |
| 60.7 | Notification and record keeping | Y | |
| 60.8 | Performance tests | Y | |
| 60.11 | Compliance with standards and maintenance requirements | Y | |
| 60.11(a) | Performance test | Y | |
| 60.11(d) | Good air pollution control practice for minimizing emissions | Y | |
| 60.11(f) | Special provisions | Y | |
| 60.11(g) | Any credible evidence or information | Y | |
| 60.12 | Circumvention | Y | |
| 60.13 | Monitoring requirements | Y | |
| 60.19 | General notification and reporting requirements | Y | |
| NSPS 40 CFR 60 Subpart J | Standards of Performance for Petroleum Refineries (7/1/00) | | |

IV. Source Specific Applicable Requirements

Table IV - BK
Source-specific Applicable Requirements
S1507 - UTIL CO BOILER .1
S1509 - UTIL CO BOILER 2
S1512 - UTIL CO BOILER 3

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|-----------------------------------|--|-----------------------------|-----------------------|
| 60.104 | Standards for Sulfur Oxides: Compliance Schedule | Y | |
| 60.104(a)(1) | Fuel gas H2S limit | 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) | Excess SO ₂ emission definitions for 60.7(c) | Y | |
| 60.106 | Test methods and procedures | Y | |
| 60.106(e) | Method 11 shall be used to verify compliance with 60.104(a)(1) | Y | |
| MACT Part 63 Subpart A | General Provisions | | |
| <u>63.4</u> | <u>Prohibited Activities and Circumvention</u> | <u>Y</u> | |
| <u>63.6(e)</u> | <u>Operation and Maintenance</u> | <u>Y</u> | |
| <u>63.7</u> | <u>Performance Testing Requirements</u> | <u>Y</u> | |
| <u>63.8</u> | <u>Monitoring Requirements</u> | <u>Y</u> | |
| <u>63.9</u> | <u>Notification Requirements</u> | <u>Y</u> | |
| <u>63.10</u> | <u>Recordkeeping and Reporting Requirements</u> | <u>Y</u> | |
| NESHAP Part 63 Subpart EEE | National Emission Standards for Hazardous Air Pollutants from Petroleum Refineries (10/12/05) | | |
| <u>63.1206(a)(2)</u> | <u>Compliance dates for 63.1217</u> | <u>Y</u> | <u>10/14/2008</u> |
| <u>63.1206(a)(2)(i)</u> | <u>Existing sources must comply with the standards of 63.1217 no later than 10/14/2008, unless Administrator grants an extension of time under 63.6(i) or 63.1213.</u> | <u>Y</u> | <u>10/14/2008</u> |
| <u>63.1206(b)</u> | <u>Compliance with Standards</u> | <u>Y</u> | <u>10/14/2008</u> |
| <u>63.1206(c)</u> | <u>Operating Requirements</u> | <u>Y</u> | <u>10/14/2008</u> |
| <u>63.1207</u> | <u>Performance Testing – Commence initial comprehensive performance test within six months of compliance date. Description of other compliance testing, frequency and notifications.</u> | <u>Y</u> | <u>4/14/2009</u> |
| <u>63.1208</u> | <u>Test Methods</u> | <u>Y</u> | <u>4/14/09</u> |
| <u>63.1209</u> | <u>Monitoring Requirements</u> | <u>Y</u> | <u>10/14/2008</u> |

IV. Source Specific Applicable Requirements

Table IV - BK
Source-specific Applicable Requirements
S1507 - UTIL CO BOILER .1
S1509 - UTIL CO BOILER 2
S1512 - UTIL CO BOILER 3

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------------|---|-----------------------------|-----------------------|
| 63.1210 | <u>Notification Requirements</u> | <u>Y</u> | <u>10/14/2008</u> |
| 63.1211 | <u>Recordkeeping and Reporting</u> | <u>Y</u> | <u>10/14/2008</u> |
| 63.1213 | <u>Procedures for Extension of Compliance Date</u> | | <u>10/14/2008</u> |
| 63.1217 | <u>Standards for Liquid Fuel Boilers that Burn Hazardous Waste</u> | <u>Y</u> | <u>10/14/2008</u> |
| 63.1217(a) | <u>Emissions Limits for Existing Sources</u> | <u>Y</u> | <u>10/14/2008</u> |
| 63.1217(a)(1) (i) | <u>Dioxins and furans cannot be discharged in excess of 0.40 ng TEO/dscm, corrected to 7 percent oxygen for liquid fuel boilers equipped with a dry air pollution control system</u> | <u>Y</u> | <u>10/14/2008</u> |
| 63.1217(a)(2) | <u>Mercury Standards</u> | <u>Y</u> | <u>10/14/2008</u> |
| 63.1217(a)(2) (i) | <u>When burning hazardous waste with an as-fired heating value less than 10,000 Btu/lb, emissions of Hg cannot be discharged in excess of 19 ug/dscm, corrected to 7% oxygen, on an (not-to exceed) annual averaging period</u> | <u>Y</u> | <u>10/14/2008</u> |
| 63.1217(a)(3) | <u>Cadmium and Lead Combined Standard</u> | <u>Y</u> | <u>10/14/2008</u> |
| 63.1217(a)(3) (i) | <u>When burning hazardous waste with an as-fired heating value less than 10,000 Btu/lb, emissions of Cd and Pb combined cannot be discharged in excess of 150 ug/dscm, corrected to 7% oxygen, on an (not-to exceed) annual averaging period</u> | <u>Y</u> | <u>10/14/2008</u> |
| 63.1217(a)(4) | <u>Chromium Standard</u> | <u>Y</u> | <u>10/14/2008</u> |
| 63.1217(a)(4) (i) | <u>When burning hazardous waste with an as-fired heating value less than 10,000 Btu/lb, emissions of Cr cannot be discharged in excess of 370 ug/dscm, corrected to 7% oxygen, on an (not-to exceed) annual averaging period</u> | <u>Y</u> | <u>10/14/2008</u> |
| 63.1217(a)(5) | <u>Carbon Monoxide and Hydrocarbon Standard</u> | <u>Y</u> | <u>10/14/2008</u> |
| 63.1217(a)(5) (i) | <u>CO cannot be discharged in excess of 100 ppmv, over an hourly rolling average (monitored continuously with a CEMs) dry basis and corrected to 7% oxygen. Document during DRE test runs or their equivalent as provided by 63.1206(b)(7), hydrocarbon do not exceed 10 ppmv during those runs, over an hourly rolling average (monitored continuously with a CEMs), dry basis and corrected to 7% oxygen, and reported as propane</u> | <u>Y</u> | <u>10/14/2008</u> |
| 63.1217(a)(6) | <u>Hydrogen Chloride and Chlorine Standard</u> | <u>Y</u> | <u>10/14/2008</u> |

IV. Source Specific Applicable Requirements

Table IV - BK
Source-specific Applicable Requirements
S1507 - UTIL CO BOILER .1
S1509 - UTIL CO BOILER 2
S1512 - UTIL CO BOILER 3

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---------------------------------|--|-----------------------------|-----------------------|
| 63.1217(a)(6)(i) | When burning hazardous waste with an as-fired heating value less than 10,000 Btu/lb, emissions of hydrogen chloride and chlorine combined cannot be discharged in excess of 31 ppmv, expressed as chloride equivalent, dry basis and corrected to 7% oxygen. | Y | 10/14/2008 |
| 63.1217(a)(7)(i) | PM cannot be discharged in excess of 80 mg/dscm corrected to 7% oxygen | Y | 10/14/2008 |
| 63.1217(c) | Destruction and Removal Efficiency (DRE) Standard | Y | 10/14/2008 |
| 63.1217(c)(1) | Achieve 99.99% DRE for each principle organic hazardous constituent (POHC) calculated using equation, $DRE = [1 - (W_{out}/W_{in})] \times 100\%$ | Y | 10/14/2008 |
| 63.1217(c)(3) | Specify and treat POHCs and treat to 99.99% DRE | Y | 10/14/2008 |
| 63.1217(d) | Use of significant figures | Y | 10/14/2008 |
| BAAQMD Condition # 7618 | | | |
| Part A | Emissions limitations [basis: Regulation 2-2-302] | Y | |
| Part B | Emissions profiles and emission factors [basis: Regulation 2-2-302] | Y | |
| Part B.1 | Baseline profiles [basis: Regulation 2-2-302] | Y | |
| Part B.3 | Emission factors used for combustion [basis: Regulation 2-2-302] | Y | |
| Part B.6 | Modification of baseline profiles for particulate, NOx, SO2, and CO [basis: Regulation 2-2-302] | Y | |
| Part C | Actions resulting from non-compliance [basis: Regulation 2-2-302] | N | |
| Part C.d | Total fuel usage [basis: Regulation 2-2-302] | Y | |
| Part C.e | Sulfur content limit of liquid fuel [basis: Regulation 2-2-302] | Y | |
| Part E | Fuel Conditions | Y | |
| Part E.1 | Sulfur limit of liquid fuel [Regulation 9-1-304] | Y | |
| Part E.2 | Processing limit of San Joaquin Valley Crude [basis: Regulation 2-2-302] | Y | |
| Part F | Reporting [basis: Cumulative Increase] | Y | |
| Part G | Records [basis: Cumulative Increase] | Y | |
| BAAQMD Condition # 12271 | | | |

IV. Source Specific Applicable Requirements

Table IV - BK
Source-specific Applicable Requirements
S1507 - UTIL CO BOILER .1
S1509 - UTIL CO BOILER 2
S1512 - UTIL CO BOILER 3

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---------------------------------|--|-----------------------------|-----------------------|
| Part J | CEM requirements [basis: Cumulative Increase, Offsets] | Y | |
| Part K | CEM data for compliance verification [basis: BACT, Offsets] | Y | |
| Part L | Recordkeeping [basis: BACT, Offsets, Cumulative Increase] | Y | |
| Part M | Monthly reports [basis: Offsets, Cumulative Increase] | Y | |
| Part 15 | Refinery fuel gas limits [basis: BACT] | Y | |
| Part 16 | Continuous gaseous fuel monitor/recorder for H2S [basis: BACT] | Y | |
| Part 16A | Natural gas line connection upstream of CO Boilers [basis: Offsets] | Y | |
| Part 17 | Recordkeeping requirements [basis: Cumulative Emissions] | Y | |
| Part 18 | Fuel usage limitation [basis: Offsets, Cumulative Increase] | Y | |
| Part 19 | ULSD defined [basis: Offsets, Cumulative Increase] | Y | |
| Part 20 | Continuous Fuel Flow Monitor [basis: Offsets, Cumulative Increase] | Y | |
| Part 21 | Calculate and Record Emissions Monthly [basis: Offsets, Cumulative Increase] | Y | |
| Part 22 | Startup and shutdown limits [basis: BACT] | Y | |
| Part 23 | HHV basis [basis: Cumulative Emissions] | Y | |
| Part 85 | CO Boilers NOx limit [basis: Offsets] | Y | |
| Part 86 | NOx CEM [basis: Offsets] | Y | |
| Part 87 | 365-day average NOx emission [basis: Offsets] | Y | |
| Part 88 | Reporting requirements [basis: Offsets] | Y | |
| Part 90 | CO Boilers SO2 limit [basis: Offsets] | Y | |
| Part 91 | SO2 CEM [basis: Offsets] | Y | |
| Part 92 | 365-day average SO2 emission [basis: Offsets] | Y | |
| Part 93 | Reporting requirements [basis: Offsets] | Y | |
| BAAQMD Condition # 17533 | | | |
| Part 2 | Ammonia emission limit [basis: Toxics] | N | |
| Part 3 | If 3 separate violations of Part 2 [basis: Toxics] | N | |
| Part 5 | Automatic controls of urea injection system [basis: Offsets] | Y | |
| Part 8 | Annual source test of ammonia [basis: Toxics] | N | |
| Part 9 | Daily records [basis: Offsets] | Y | |

IV. Source Specific Applicable Requirements

Table IV - BK
Source-specific Applicable Requirements
S1507 - UTIL CO BOILER .1
S1509 - UTIL CO BOILER 2
S1512 - UTIL CO BOILER 3

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---------------------------------|---|-----------------------------|-----------------------|
| Part 10 | Temperature indicator and recorder [basis: Offsets] | Y | |
| Part 11 | Curtailement if excess opacity [basis: Regulation 6-1-301] | Y | |
| Part 12 | Additional source test results availability [basis: Offsets] | Y | |
| Part 13 | NOx and O2 CEM and recording system [basis: Offsets] | Y | |
| Part 14 | Field accuracy test of CEM [basis: Offsets] | Y | |
| Part 15 | If CEM inoperable [basis: Offsets] | Y | |
| BAAQMD Condition # 16688 | | | |
| Part 1 | Maximum firing rate [basis: Regulation 2-1-234] | N | |
| BAAQMD Condition # 18618 | | | |
| Part 1 | Throughput limit (basis: Regulation 2-1-234.3) | N | |
| Part 2 | Recordkeeping (basis: Regulation 2-1-234.3) | N | |
| Part 4 | Fuel certification (basis: Regulation 2-6-409.2) | Y | |
| Part 9 | Source Test for grain loading rate (basis: Regulation 2-6-409.2) | Y | |
| BAAQMD Condition # 22165 | | | |
| Part 1 | Continuous monitoring of ESP opacity operating parameters for reasonable assurance of compliance with Regulations 6-310. (basis: Regulation 2-6-503) | N | Note 1 |
| Part 2 | Initial compliance demonstration to establish correlation between selected parameters and particulate mass emissions. The owner/operator shall submit the results to the District for its approval. (basis: Regulation 2-6-503) Deleted because initial compliance demonstration was conducted. | N | Note 1 |
| Part 3 | Establish a range of compliance of the parametric value based on the results on an initial compliance demonstration. (basis: Regulation 2-6-503) Deleted because a range of compliance was established based on the | N | |

IV. Source Specific Applicable Requirements

Table IV - BK
Source-specific Applicable Requirements
S1507 - UTIL CO BOILER .1
S1509 - UTIL CO BOILER 2
S1512 - UTIL CO BOILER 3

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------------|---|-----------------------------|-----------------------|
| | <u>results of the initial compliance demonstration.</u> | | |
| Part 4 | Each time the measured parametric value exceeds the established range of compliance, the owner/operator shall conduct a source test to determine compliance with Regulations 6-310. The source test shall be within 45 days of the detection of the exceedence. (basis: Regulation 2-6-503) Deleted because the COMS at A-12, A-13, and A-14 would ensure on-going compliance with Regulation 6-1-310. As a result, performing a source test would not be necessary to confirm compliance. | N | |
| Part 5 | Exceedences of parametric compliance range are deviations and shall be reported as deviations in all Title V reports. (basis: Regulation 2-6-503) Deleted because deviation reporting is redundant to Title V regulation and BAAQMD Regulation 2-6. | N | |
| Part 6 | <u>Opacity ≤ 30%; Else, exceedance of Regulation 6-1-310 particulate limit (Regulation 2-6-503)</u> | N | |

Note 1: The owner/operator shall commence continuous monitoring and recording of the operating parameters no later than the ESP monitoring commencement date required under 40 CFR Part 63, subpart UUU.

IV. Source Specific Applicable Requirements

Table IV – BL
Source-specific Applicable Requirements
S1514 - UTIL F-70 BOILER 4

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------------------------|--|-----------------------------|-----------------------|
| BAAQMD Regulation 1 | General Provisions and Definitions (7/19/065/02/01) | Y | |
| 1-520 | Continuous Emission Monitoring | Y | |
| 1-520.8 | Monitors as required by Regulation 10, 12 and Section 2-1-403 | Y | |
| 1-522 | Continuous Emission Monitoring and Recordkeeping Procedures | Y | |
| 1-522.1 | Approval of Plans and Specifications | Y | |
| 1-522.2 | Installation Scheduling | Y | |
| 1-522.3 | CEM Performance Testing | Y | |
| 1-522.4 | Periods of Inoperation | Y | |
| 1-522.5 | Daily Monitor Calibration | Y | |
| 1-522.6 | CEM Maintenance | Y | |
| 1-522.7 | Excess Emissions Reported (Nature, Extent, and Cause) | N | |
| 1-522.8 | Monitoring Data Submittal | Y | |
| 1-522.9 | Records | Y | |
| 1-522.10 | Monitors Required By 1-521 or 2-1-403 | Y | |
| 1-523 | Parametric Monitoring and Recordkeeping Procedures | Y | |
| 1-523.1 | Periods of Inoperation Reported | Y | |
| 1-523.2 | Periods of Inoperation Per Incident | Y | |
| 1-523.3 | Violations of Permit Conditions Reported (Nature, Extent, and Cause) | N | |
| 1-523.4 | Records | Y | |
| 1-523.5 | Maintenace and Calibration Required | N | |
| SIP Regulation 1 | PROVISIONS NO LONGER IN CURRENT RULE General Provisions and Definitions (6/28/99) | | |
| 1-522.7 | Excess Emissions Reported (Nature, Extent, Cause, and Corrective Action) | Y | |
| 1-523.3 | Violations of Permit Conditions Reported (Nature, Extent, Cause, and Corrective Action) | Y | |
| BAAQMD Regulation 2, Rule 9 | Interchangeable Emission Reduction Credits (6/15/0504/07/99) | | |
| 2-9-302 | Use of IERC's | N | |
| 2-9-303 | Alternative Compliance Plan Using IERC's | N | |

IV. Source Specific Applicable Requirements

Table IV – BL
Source-specific Applicable Requirements
S1514 - UTIL F-70 BOILER 4

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|-------------------------------------|---|-----------------------------|-----------------------|
| 2-9-304 | Restrictions on the Use of IERC's | N | |
| 2-9-306 | Environmental Benefit Surcharge | N | |
| 2-9-501 | Monitoring and Record Keeping | N | |
| 2-9-502 | Alternative Compliance Plan Record Keeping and Reporting | N | |
| BAAQMD Regulation 6 Rule 1 | Particulate Matter – General Requirements Particulate Matter and Visible Emissions (12/05/0709/0498) | | |
| 6-1-301 | Ringelmann No. 1 Limitation | N | |
| 6-1-304 | Tube Cleaning | N | |
| 6-1-305 | Visible Particles | N | |
| 6-1-310 | Particle Weight Limitation | N | |
| 6-1-310.3 | 0.15 grain per dscf at 6% O ₂ | N | |
| 6-1-401 | Appearance of Emissions | N | |
| 6-1-501 | Sampling Facilities and Instruments Required | N | |
| 6-1-502 | Data, Records and Reporting | N | |
| SIP Regulation 6 | Particulate Matter and Visible Emissions (9/4/98) | | |
| 6-301 | Ringelmann No. 1 Limitation | Y | |
| 6-304 | Tube Cleaning | Y | |
| 6-305 | Visible Particles | Y | |
| 6-310 | Particulate Weight Limitation | Y | |
| 6-310.3 | 0.15 grain per dscf at 6% O₂ | Y | |
| 6-401 | Appearance of Emissions | Y | |
| 6-501 | Sampling Facilities and Instruments Required | Y | |
| 6-502 | Data, Records and Reporting | 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 Interim Facility-wide NOx emission rate limit | Y N | |

IV. Source Specific Applicable Requirements

Table IV – BL
Source-specific Applicable Requirements
S1514 - UTIL F-70 BOILER 4

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|----------------------------------|---|-----------------------------|-----------------------|
| 9-10-305 | CO emission limit | N | |
| 9-10-502 | Monitoring | N | |
| 9-10-502.1 | CEMS for NOx, CO, and O2 | N | |
| 9-10-502.2 | Fuel flowmeters | NY | |
| 9-10-504 | Recordkeeping | N | |
| 9-10-504.1 | For All Sources Subject to 9-10-301, 303, 305 | N | |
| 9-10-505 | Reporting | N | |
| SIP Regulation 9, Rule 10 | Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon Monoxide from Boilers, Steam Generators, and Process Heaters in Petroleum Refineries (3/29/01) | | |
| 9-10-303 | Interim Emission Limit for Facility (Federal Requirements) | Y | |
| 9-10-502 | Monitoring | Y | |
| NSPS 40 CFR 60 Subpart A | Standards of Performance for New Stationary Sources (12/23/71) | | |
| 60.7 | Notification and record keeping | Y | |
| 60.8 | Performance tests | Y | |
| 60.11 | Compliance with standards and maintenance requirements | Y | |
| 60.11(a) | Performance test | Y | |
| 60.11(d) | Good air pollution control practice for minimizing emissions | Y | |
| 60.11(f) | Special provisions | Y | |
| 60.11(g) | Any credible evidence or information | Y | |
| 60.12 | Circumvention | Y | |
| 60.13 | Monitoring requirements | 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) | Fuel gas H2S limit | 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 – BL
Source-specific Applicable Requirements
S1514 - UTIL F-70 BOILER 4

| 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) | Excess SO ₂ emission definitions for 60.7(c) | Y | |
| 60.106 | Test methods and procedures | Y | |
| 60.106(e) | Method 11 shall be used to verify compliance with 60.104(a)(1) | Y | |
| BAAQMD Condition # 7618 | | | |
| Part A | Emissions limitations [basis: Regulation 2-2-302] | Y | |
| Part B | Emissions profiles and emission factors [basis: Regulation 2-2-302] | Y | |
| Part B.1 | Baseline profiles [basis: Regulation 2-2-302] | Y | |
| Part B.3 | Emission factors used for combustion [basis: Regulation 2-2-302] | Y | |
| Part B.6 | Modification of baseline profiles for particulate, NO _x , SO ₂ , and CO [basis: Regulation 2-2-302] | Y | |
| Part C | Actions resulting from non-compliance [basis: Regulation 2-2-302] | N | |
| Part C.d | Total fuel usage [basis: Regulation 2-2-302] | Y | |
| Part C.e | Sulfur content limit of liquid fuel [basis: Regulation 2-2-302] | Y | |
| Part E | Fuel Conditions | Y | |
| Part E.1 | Sulfur limit of liquid fuel [Regulation 9-1-304] | Y | |
| Part E.2 | Processing limit of San Joaquin Valley Crude [basis: Regulation 2-2-302] | Y | |
| Part F | Reporting [basis: Cumulative Increase] | Y | |
| Part G | Records [basis: Cumulative Increase] | Y | |
| BAAQMD Condition # 18265 | | | |
| Part 1 | Sources subject to Regulation 9-10 (basis: Regulation 9-10-301 & 305) | N | 1/1/05 |
| Part 2 | O ₂ monitor and recorder requirement (basis: Regulation 9-10-502) | N | 09/01/04 |
| Part 8 | For sources with NO _x CEMS, semi-annual source test for CO at as-found conditions (basis: Regulation 9-10-502, 1-522) | N | 1/1/05 |
| Part 10 | Source test records (basis: recordkeeping: Regulation 9-10-504) | N | 1/1/05 |
| Part 11 | CEM for NO _x and O ₂ monitoring [basis: Regulation 9-10-502] | N | 1/1/05 |

IV. Source Specific Applicable Requirements

Table IV – BL
Source-specific Applicable Requirements
S1514 - UTIL F-70 BOILER 4

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---------------------------------|---|-----------------------------|-----------------------|
| Part 13 | IERC required to comply with Regulation 9-10 [Regulation 2-9-303] | N | |
| Part 14 | Monthly summary of daily actual emissions, daily allowable emissions, and actual NOx emission rate (lb/MM BTU) [basis: Regulation 9-10-504] | N | |
| Part 15 | Monthly sum of daily totals [basis: Regulation 9-10-504] | N | |
| Part 17 | Alternative compliance plan [basis: Regulation 9-10-502] | N | |
| Part 20 | Maintain fuel flow meter [basis: Regulation 9-10-503] | N | |
| Part 21 | Recordkeeping [basis: Regulation 9-10-503] | N | |
| BAAQMD Condition # 16688 | | | |
| Part 1 | Maximum firing rate [basis: Regulation 2-1-234] | N | |
| BAAQMD Condition # 17532 | | | |
| Part 1 | Gaseous fuel only. Fuel specification [basis: Regulation 1-520.1] | Y | |
| Part 3 | NOx emission rate. Emissions limit [basis: Shell-EPA Consent Decree] | Y | |
| Part 4 | NOx mass emission limit (Basis: Shell-EPA Consent Decree) | <u>Y</u> | |
| BAAQMD Condition # 18618 | | | |
| Part 3 | Visible emissions inspection (basis: Regulation 2-6-409.2) | Y | |
| Part 4 | Fuel certification (basis: Regulation 2-6-409.2) | Y | |
| Part 6 | Visible emission inspection during tube cleaning (basis: Regulation 2-6-409.2) | Y | |
| Part 7 | Recordkeeping (basis: Regulation 2-6-409.2) | Y | |

Table IV – BM
Source-specific Applicable Requirements
S1523 – LUBS LOADING RACK ASPHALT INSIDE T/T

IV. Source Specific Applicable Requirements

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------------------------|---|-----------------------------|-----------------------|
| | See Table IV – Hb for additional requirements. | | |
| BAAQMD Condition # 4101 | | | |
| Part 1 | Abatement Requirement [basis: Cumulative Increase] | Y | |

Table IV – BO
Source-specific Applicable Requirements
S1598 – MAINT 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 (3/24/03 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 | Poppeted Drybreaks | Y | |
| 8-7-301.8 | No Coaxial Phase I 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 | Vapor Tightness and Testing | Y | |

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Table IV – BO
Source-specific Applicable Requirements
S1598 – MAINT 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 Retention Limit | Y | 1/1/09 |
| 8-7-302.13 | Spitting Limit | Y | 1/1/09 |
| 8-7-302.14 | Back Pressure for Vapor Balance | | |
| 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 | |
| 8-7-311 | Exempt Tank 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 | Test 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 | |

IV. Source Specific Applicable Requirements

**Table IV – BO
 Source-specific Applicable Requirements
 S1598 – MAINT GASOLINE DISPENSING FACILITY**

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|--|--|-----------------------------|-----------------------|
| 8-7-503.3 | Dispensing Records Retention | Y | |
| <u>BAAQMD Condition # 7878</u> | | | |
| Part 1 | <u>Annual gasoline throughput limit [basis: Cumulative Increase, Toxics]</u> | N | |
| <u>BAAQMD Condition # 14098</u> | | | |
| Part 1 | <u>Annual gasoline throughput limit [basis: Cumulative Increase, Toxics]</u> | N | |
| Part 2 | <u>Recordkeeping [basis: Toxics, Cumulative Increase, Toxics]</u> | N | |
| <u>BAAQMD Condition #21593</u> | | | |
| Part 1 | Phase I equipment installed and maintained per CARB Executive Order (Basis: District Regulation 8-7-301.2) | Y | |
| Part 2 | Triennial drop tube/drain valve and static adaptor torque test requirements (Basis: District Regulation 8-7-301.2) | Y | |
| <u>BAAQMD Condition # 24298</u> | | | |
| Part 1 | <u>Install, Operate and Maintain VST EVR Phase II Vapor Recovery System in accordance with CARB E.O.</u> | | |
| Part 2 | <u>Recordkeeping requirements</u> | | |
| Part 3 | <u>Leak Free and Vapor Tight requirements</u> | | |
| Part 4 | <u>Annual Source Test requirement</u> | | |
| Part 5 | <u>Source Test Notification requirements</u> | | |
| Part 6 | <u>Coaxial Hose Requirements</u> | | |
| Part 7 | <u>Dispensing Rate Requirements</u> | | |
| Part 8 | <u>Veeder-Root Vapor Polisher Control Requirement</u> | | |
| Part 9 | <u>Veeder-Root Vapor Polisher Operating Requirement</u> | | |
| Part 10 | <u>Veeder-Root Vapor Polisher Access Requirement</u> | | |

IV. Source Specific Applicable Requirements

**Table IV – BO
 Source-specific Applicable Requirements
 S1598 – MAINT GASOLINE DISPENSING FACILITY**

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------------|---|-----------------------------|-----------------------|
| Part 11 | <u>Veeder-Root Vapor Polisher Testing Requirement</u> | | |
| Part 12 | <u>Storage Tank Vent Pipe Requirements</u> | | |

**Table IV - BP
 SOURCE-SPECIFIC APPLICABLE REQUIREMENTS
 S1650 – MAINT SANDBLASTING SAND HOPPER**

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|-----------------------------------|--|-----------------------------|-----------------------|
| BAAQMD Regulation 6 Rule 1 | Particulate Matter – General Requirements Particulate Matter and Visible Emissions (12/05/0709/0498) | | |
| 6-1-301 | <u>Ringelmann No. 1 Limitation</u> | <u>N</u> | |
| 6-1-305 | <u>Visible Particles</u> | <u>N</u> | |
| 6-1-311 | <u>General Operations (process weight rate limitation)</u> | <u>N</u> | |
| 6-1-401 | <u>Appearance of Emissions</u> | <u>N</u> | |
| SIP Regulation 6 | <u>Particulate Matter and Visible Emissions (9/4/98)</u> | | |
| 6-301 | <u>Ringelmann No. 1 Limitation</u> | <u>Y</u> | |
| 6-305 | <u>Visible Particles</u> | <u>Y</u> | |
| 6-311 | <u>General Operations (process weight rate limitation)</u> | <u>Y</u> | |
| 6-401 | <u>Appearance of Emissions</u> | <u>Y</u> | |

**Table IV – BQ
 Source-specific Applicable Requirements
 S1759 – OPCENFLEXICOKER (FXU)**

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

IV. Source Specific Applicable Requirements

Table IV-BQ
Source-specific Applicable Requirements
S1759—OPCENFLEXICOKER (FXU)

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|--------------------------------|---|-----------------------------|-----------------------|
| | See Table IV—AL & AM for additional requirements. | | |
| BAAQMD Condition # 7618 | | | |
| Part C | Actions resulting from non-compliance [basis: Regulation 2.2.302] | N | |
| Part C.b | Flexicoker feed process limit [basis: Regulation 2.2.302] | Y | |
| Part C.e | Sulfur content limit of liquid fuel [basis: Regulation 2.2.302] | Y | |
| Part G | Records [basis: Cumulative Increase] | Y | |
| Part E.2.a. | Duration of startups and shutdowns | Y | |
| Part E.2.d. | Quantification of SO ₂ emissions during startups and shutdowns | Y | |

IV. Source Specific Applicable Requirements

Table IV—BR
Source-specific Applicable Requirements
S1760—OPCEN F-102 FXU STEAM SUPERHEATER

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|-------------------------|--|-----------------------------|-----------------------|
| | See Table IV—AZ for additional requirements. | | |
| BAAQMD Condition # 7618 | | | |
| Part E.2 | Processing limit of San Joaquin Valley Crude [basis: Regulation 2-2-302] | Y | |

Table IV—BS
Source-specific Applicable Requirements
S1762—DH F-128 CRU INTERHEATER

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|-------------------------|--|-----------------------------|-----------------------|
| | See Table IV—BC for additional requirements. | | |
| BAAQMD Condition # 7618 | | | |
| Part E.2 | Processing limit of San Joaquin Valley Crude [basis: Regulation 2-2-302] | | |

IV. Source Specific Applicable Requirements

Table IV - BU
Source-specific Applicable Requirements
S1767 – OPCEN V 1019 COKE SILO, S1768– OPCEN V1020 COKE SILO
S1769– OPCEN V 1021 DRY FINES SILO

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|-----------------------------------|--|-----------------------------|-----------------------|
| BAAQMD Regulation 6 Rule 1 | Particulate Matter – General Requirements Particulate Matter and Visible Emissions (12/05/0709/04/98) | | |
| 6-1-301 | Ringelmann No. 1 Limitation | N | |
| 6-1-305 | Visible Particles | N | |
| 6-1-310 | Particulate Weight Limitation | N | |
| 6-1-311 | General Operations (process weight rate limitation) | N | |
| 6-1-401 | Appearance of Emissions | N | |
| SIP Regulation 6 | Particulate Matter and Visible Emissions (9/4/98) | | |
| 6-301 | Ringelmann No. 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 # 7618 | | | |
| Part D.3 | Abatement Requirement [basis: BACT, Cumulative Increase] | Y | |
| BAAQMD Condition # 20755 | <u>Applies to S1769</u> | | |
| Part 1 | Abatement Requirement Routing of coke fines from S-1769 to portable filter truck (A771) limited to no more than 96 hours during any consecutive 12-month basis (Basis: Regulation 6-204 6-1-301, 6-1-310 and/or 6-1-311. | Y N | |
| Part 2 | Recordkeeping Requirement (Basis: Regulation 1-411441) | Y | |

IV. Source Specific Applicable Requirements

Table IV - BW
Source-specific Applicable Requirements
S1771 - OPCEN Flexigas Flare

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------------------------|---|-----------------------------|-----------------------|
| BAAQMD Regulation 6 Rule 1 | Particulate Matter – General Requirements Particulate Matter and Visible Emissions (12/05/0709/04/98) | | |
| 6-1-301 | Ringelmann No. 1 Limitation | N | |
| 6-1-305 | Visible Particles | N | |
| 6-1-310 | Particulate Weight Limitation | N | |
| SIP Regulation 6 | Particulate Matter and Visible Emissions (9/4/98) | | |
| 6-301 | Ringelmann No. 1 Limitation | Y | |
| 6-305 | Visible Particles | Y | |
| 6-310 | Particulate Weight Limitation | Y | |
| BAAQMD Regulation 8, Rule 1 | Organic Compounds - General Provisions (6/15/94) | | |
| 8-1-110 | Exemptions | Y | |
| 8-1-110.3 | Reduction due to incineration | Y | |
| BAAQMD Regulation 12-11 | Flare Monitoring at Petroleum Refineries (06/04/03) | | |
| 12-11-114 | Limited Exemption, Total Hydrocarbon and Methane Composition Monitoring and Reporting | N | |
| 12-11-401 | Flare Data Reporting Requirements | N | |
| 12-11-401.1 | Total Volumetric Flow. | N | |
| 12-11-401.4 | If molecular weight measured, report average molecular weight for each hour of the month. | N | |
| 12-11-401.6 | Report any 24-hour period during which more than 1 million standard cubic feet of vent gas was flared. | N | |
| 12-11-401.7 | Report flare monitoring downtimes. | N | |
| 12-11-401.8 | Report archive of images recorded for month pursuant to Section 12-11-507. | N | |
| 12-11-401.9 | For each day and for the month provide calculated methane, non-methane and sulfur dioxide emissions. A flare control efficiency of 93 percent shall be used for flexi-gas flares. | N | |

IV. Source Specific Applicable Requirements

Table IV - BW
Source-specific Applicable Requirements
S1771 - OPCEN Flexigas Flare

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---------------------------------|---|-----------------------------|-----------------------|
| 12-11-402 | Flow Verification Report | N | 6/4/04 |
| 12-11-501 | Vent Gas Flow Monitoring | N | 12/4/04 |
| 12-11-502 | Vent Gas Composition Monitoring | N | |
| 12-11-502.1 | Vent Gas Composition Monitoring Requirements | N | |
| 12-11-502.3 | Vent Gas Composition Monitoring | N | 03/4/04 |
| 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 | 09/4/04 |
| 12-11-507 | Video Monitoring | N | 12/4/03 |
| BAAQMD Condition # 7618 | | | |
| Part A | Emissions limitations [basis: Regulation 2-2-302] | Y | |
| Part B | Emissions profiles and emission factors [basis: Regulation 2-2-302] | Y | |
| Part B.1 | Baseline profiles [basis: Regulation 2-2-302] | Y | |
| Part B.3 | Emission factors used for combustion [basis: Regulation 2-2-302] | Y | |
| Part B.6 | Modification of baseline profiles for particulate, NOx, SO2, and CO [basis: Regulation 2-2-302] | Y | |
| Part C | Actions resulting from non-compliance [basis: Regulation 2-2-302] | N | |
| Part C.d | Total fuel usage [basis: Regulation 2-2-302] | Y | |
| Part F | Reporting [basis: Cumulative Increase] | Y | |
| Part G | Records [basis: Cumulative Increase] | Y | |
| 40 CFR Part 60 Subpart A | General Provisions | | |
| 60.7 | Notification and record keeping | Y | |
| 60.8 | Performance tests | Y | |
| 60.11 | Compliance with standards and maintenance requirements | Y | |
| 60.11(a) | Performance test | Y | |
| 60.11(d) | Good air pollution control practice for minimizing emissions | Y | |

IV. Source Specific Applicable Requirements

Table IV - BW
Source-specific Applicable Requirements
S1771 - OPCEN Flexigas Flare

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|-----------------------------|-----------------------|
| 60.11(f) | Special provisions | Y | |
| 60.11(g) | Any credible evidence or information | Y | |
| 60.12 | Circumvention | Y | |
| 60.13 | Monitoring requirements | 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) | Fuel gas H2S limit Standard for SO₂ | 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 SO ₂ monitors as required by 60.105(a)(3)) | Y | |
| 60.105(e)(3) | Excess SO ₂ emission definitions for 60.7(c) | Y | |
| 60.106 | Test methods and procedures | Y | |
| 60.106(e) | Method 11 shall be used to verify compliance with 60.104(a)(1) | Y | |
| BAAQMD Condition # 7618 | | | |
| Part A | Emissions limitations [basis: Regulation 2-2-302] | Y | |
| Part B | Emissions profiles and emission factors [basis: Regulation 2-2-302] | Y | |
| Part B.1 | Baseline profiles [basis: Regulation 2-2-302] | Y | |
| Part B.3 | Emission factors used for combustion [basis: Regulation 2-2-302] | Y | |
| Part B.6 | Modification of baseline profiles for particulate, NO _x , SO ₂ , and CO [basis: Regulation 2-2-302] | Y | |
| Part C | Actions resulting from non-compliance [basis: Regulation 2-2-302] | N | |
| Part C.d | Total fuel usage [basis: Regulation 2-2-302] | Y | |
| Part E.2.b. | Limit on the duration and mass emissions when flaring untreated flexigas during startups | Y | |
| Part E.2.c. | Limit on the duration and mass emissions when flaring untreated flexigas during shutdowns | Y | |

IV. Source Specific Applicable Requirements

Table IV - BW
Source-specific Applicable Requirements
S1771 - OPCEN Flexigas Flare

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---------------------------------|---|-----------------------------|-----------------------|
| Part F | Reporting [basis: Cumulative Increase] | Y | |
| Part G | Records [basis: Cumulative Increase] | Y | |
| BAAQMD Condition # 18618 | | | |
| Part 12 | Flare throughput limit (basis: Regulations 8-1-110.3; 2-1-403) | Y | 01/01/05 |
| Part 13 | Flaring recordkeeping requirements (basis: Regulations 8-1-110.3; 2-6-409.2; 2-6-501) | Y | 01/01/05 |
| Part 14 | Flaring event inspection requirements (S1771 monitoring requirements contained in part 18) inspection of flaring requirements (basis: Regulation 2-6-409.2.) | Y | 01/01/05 |
| Part 15 | Flaring event inspection procedures (S1771 monitoring requirements contained in part 18) (basis: Regulation 6-301; 2-1-403) | Y | 01/01/05 |
| Part 16 | Visual inspection requirements (basis: Regulation 2-6-403) | Y | 01/01/05 |
| Part 17 | Recordkeeping requirements for flaring events (basis: Regulation 2-6-501; 2-6-409.2) | Y | 01/01/05 |
| Part 18 | Flexigas flare requirements (basis: Regulation 2-6-501; 2-6-409.2) | Y | 01/01/05 |

Table IV - BX
Source-specific Applicable Requirements
S1772 - OPCEN Hydrocarbon Flare

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

IV. Source Specific Applicable Requirements

Table IV - BX
Source-specific Applicable Requirements
S1772 - OPCEN Hydrocarbon Flare

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------------------------|--|-----------------------------|-----------------------|
| BAAQMD Regulation 6 Rule 1 | Particulate Matter – General Requirements Particulate Matter and Visible Emissions (12/05/0709/04/98) | | |
| 6-1-301 | Ringelmann No. 1 Limitation | N | |
| 6-1-305 | Visible Particles | N | |
| 6-1-310 | Particulate Weight Limitation | N | |
| SIP Regulation 6 | Particulate Matter and Visible Emissions (9/4/98) | | |
| 6-301 | Ringelmann No. 1 Limitation | Y | |
| 6-305 | Visible Particles | Y | |
| 6-310 | Particulate Weight Limitation | Y | |
| BAAQMD Regulation 8, Rule 1 | Organic Compounds - General Provisions (6/15/94) | | |
| 8-1-110 | Exemptions | Y | |
| 8-1-110.3 | Reduction due to incineration | Y | |
| BAAQMD Regulation 12-11 | Flare Monitoring at Petroleum Refineries (06/04/03) | | |
| 12-11-401 | Flare Data Reporting Requirements | N | |
| 12-11-402 | Flow Verification Report | N | 6/4/04 |
| 12-11-501 | Vent Gas Flow Monitoring | N | 12/4/04 |
| 12-11-502 | Vent Gas Composition Monitoring | N | |
| 12-11-502.3 | Vent Gas Composition Monitoring | N | 03/4/04 |
| 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 | 09/4/04 |
| 12-11-507 | Video Monitoring | N | 12/4/03 |
| 40 CFR Part 60 Subpart A | New Source Performance Standards – General Provisions (12/23/71) General Provisions | | |

IV. Source Specific Applicable Requirements

Table IV - BX
Source-specific Applicable Requirements
S1772 - OPCEN Hydrocarbon Flare

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------------|---|-----------------------------|-----------------------|
| 60.7 | Notification and record keeping | Y | |
| 60.7(a) | Notification | Y | |
| 60.7(g) | Alternative notification | Y | |
| 60.7(h) | Specific provisions | Y | |
| 60.11 | Compliance with standards and maintenance requirements | Y | |
| 60.11(a) | Performance test | Y | |
| 60.11(d) | Good air pollution control practice for minimizing emissions | Y | |
| 60.11(f) | Special provisions | Y | |
| 60.11(g) | Any credible evidence or information | Y | |
| 60.12 | Circumvention | Y | |
| 60.13 | Monitoring requirements | Y | |
| 60.13(i) | Alternatives to any monitoring procedures or requirements | Y | |
| <u>60.18</u> | <u>General Control Device and Work Practice Requirements</u> | <u>Y</u> | |
| <u>60.18(c)(1)</u> | <u>Limitation on visible emissions</u> | <u>Y</u> | |
| <u>60.18(c)(2)</u> | <u>Requirement for a flame to be present at all times</u> | <u>Y</u> | |
| <u>60.18(c)(3)</u> | <u>Requirement to meet heat content specification in 60.18(c)(3)(ii), or maximum tip velocity specification in 60.18(c)(4), or 60.18(c)(3)(i).</u> | <u>Y</u> | |
| <u>60.18(c)(4)</u> | <u>Exit velocity requirements for steam-assisted flares</u> | <u>Y</u> | |
| <u>60.18(c)(6)</u> | <u>Requirements for flares complying with 60.18</u> | <u>Y</u> | |
| <u>60.18(d)</u> | <u>Requirement to monitor flares to ensure they are operated and maintained in conformance with their designs.</u> | <u>Y</u> | |
| <u>60.18(e)</u> | <u>Flare operating requirements.</u> | <u>Y</u> | |
| <u>60.18(f)(1)</u> | <u>Method 22 of appendix A shall be used to determine the compliance of flares with the visible emissions provisions of this subpart. The observation period is 2 hours and shall be used according to Method 22.</u> | <u>Y</u> | |
| <u>60.18(f)(2)</u> | <u>Presence of a flare pilot flame shall be monitored using a thermocouple or any other equivalent device to detect the presence of a flame</u> | <u>Y</u> | |
| <u>60.18(f)(3)</u> | <u>Net heating value calculation for gases combusted in flare.</u> | <u>Y</u> | |
| <u>60.18(f)(4)</u> | <u>Determination of actual exit velocity of a flare</u> | <u>Y</u> | |
| <u>60.18(f)(5)</u> | <u>Determination of maximum permitted velocity of a flare</u> | <u>Y</u> | |
| 60.19 | General notification and reporting requirements | Y | |

IV. Source Specific Applicable Requirements

Table IV - BX
Source-specific Applicable Requirements
S1772 - OPCEN Hydrocarbon Flare

| 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) | | |
| 60.104 | Standards for Sulfur Oxides: Compliance Schedule | Y | |
| 60.104(a)(1) | Fuel gas H2S limit | Y | |
| <u>60.105</u> | <u>Monitoring of Emissions and Operations</u> | <u>Y</u> | |
| 60.105(a)(4) | <u>monitoring requirement for H2S (dry basis) in fuel gas prior to combustion (in lieu of separate combustion device exhaust SO2 monitors as required by 60.105(a)(3))</u> | <u>Y</u> | |
| 60.105(e)(3) | <u>Excess SO₂ emission definitions for 60.7(c)</u> | <u>Y</u> | |
| 60.106 | <u>Test methods and procedures</u> | <u>Y</u> | |
| 60.106(e) | <u>Method 11 shall be used to verify compliance with 60.104(a)(1)</u> | <u>Y</u> | |
| BAAQMD Condition # 18618 | | | |
| Part 12 | Flare throughput limit (basis: Regulations 8-1-110.3; 2-1-403) | Y | 01/01/05 |
| Part 13 | Flaring recordkeeping requirements (basis: Regulations 8-1-110.3; 2-6-409.2; 2-6-501) | Y | 01/01/05 |
| Part 14 | Inspection of flaring requirements (basis: Regulation 2-6-4092.) | Y | 01/01/05 |
| Part 15 | Inspection procedures (basis: Regulation 6-1-301; 2-1-403) | Y N | 01/01/05 |
| Part 16 | Visual inspection requirements (basis: Regulation 2-6-403) | Y | 01/01/05 |
| Part 17 | Recordkeeping requirements for flaring events (basis: Regulation 2-6-501; 2-6-409.2) | Y | 01/01/05 |

Table IV - BY
Source-specific Applicable Requirements
S1779 - OPCEN CPI OIL/WATER SEPARATOR

IV. Source Specific Applicable Requirements

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------------|---|-----------------------------|-----------------------|
| | See Table IV—AT for additional requirements. | | |
| Condition # 5077 | | | |
| Part 7 | Design Rated Capacity Limit [basis: Cumulative Increase] | Y | |
| Part 9 | Reporting of Emission Leaks [basis: Regulation 8-8-302.1] | Y | |

IV. Source Specific Applicable Requirements

Table IV – BZ
Source-specific Applicable Requirements
S1800 - UTIL F-88 BOILER 5

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------------------------|---|-----------------------------|-----------------------|
| BAAQMD Regulation 1 | General Provisions and Definitions (7/19/065/02/01) | | |
| 1-520 | Continuous Emission Monitoring | Y | |
| 1-520.8 | Monitors as required by Regulation 10, 12 and Section 2-1-403 | Y | |
| 1-522 | Continuous Emission Monitoring and Recordkeeping Procedures | Y | |
| 1-522.1 | Approval of Plans and Specifications | Y | |
| 1-522.2 | Installation Scheduling | Y | |
| 1-522.3 | CEM Performance Testing | Y | |
| 1-522.4 | Periods of Inoperation | Y | |
| 1-522.5 | Daily Monitor Calibration | Y | |
| 1-522.6 | CEM Maintenance | Y | |
| 1-522.7 | Excess Emissions Reported (Nature, Extent, and Cause) | N | |
| 1-522.8 | Monitoring Data Submittal | Y | |
| 1-522.9 | Records | Y | |
| 1-522.10 | Monitors Required By 1-521 or 2-1-403 | Y | |
| 1-523 | Parametric Monitoring and Recordkeeping Procedures | Y | |
| 1-523.1 | Periods of Inoperation Reported | Y | |
| 1-523.2 | Periods of Inoperation Per Incident | Y | |
| 1-523.3 | Violations of Permit Conditions Reported (Nature, Extent, and Cause) | N | |
| 1-523.4 | Records | Y | |
| 1-523.5 | Maintenace and Calibration Required | N | |
| SIP Regulation 1 | PROVISIONS NO LONGER IN CURRENT RULE General Provisions and Definitions (6/28/99) | | |
| 1-522.7 | Excess Emissions Reported (Nature, Extent, Cause, and Corrective Action) | Y | |
| 1-523.3 | Violations of Permit Conditions Reported (Nature, Extent, Cause, and Corrective Action) | Y | |
| BAAQMD Regulation 2, Rule 9 | Interchangeable Emission Reduction Credits (6/15/054/07/99) | | |
| 2-9-302 | Use of IERC's | N | |
| 2-9-303 | Alternative Compliance Plan Using IERC's | N | |

IV. Source Specific Applicable Requirements

Table IV – BZ
Source-specific Applicable Requirements
S1800 - UTIL F-88 BOILER 5

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|-------------------------------------|---|-----------------------------|-----------------------|
| 2-9-304 | Restrictions on the Use of IERC's | N | |
| 2-9-306 | Environmental Benefit Surcharge | N | |
| 2-9-501 | Monitoring and Record Keeping | N | |
| 2-9-502 | Alternative Compliance Plan Record Keeping and Reporting | N | |
| BAAQMD Regulation 6 Rule 1 | Particulate Matter – General Requirements Particulate Matter and Visible Emissions (12/05/0709/04/98) | | |
| 6-1-301 | Ringelmann No. 1 Limitation | N | |
| 6-1-304 | Tube Cleaning | N | |
| 6-1-305 | Visible Particles | N | |
| 6-1-310 | Particle Weight Limitation | N | |
| 6-1-310.3 | 0.15 grain per dscf at 6% O₂ | N | |
| SIP Regulation 6 | Particulate Matter and Visible Emissions (9/4/98) | | |
| 6-301 | Ringelmann No. 1 Limitation | Y | |
| 6-304 | Tube Cleaning | Y | |
| 6-305 | Visible Particles | Y | |
| 6-310 | Particulate Weight Limitation | Y | |
| 6-310.3 | 0.15 grain per dscf at 6% O₂ | 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 | |
| 9-10-303 | Federal Interim Facility-wide NOx emission rate limit | Y | |
| 9-10-305 | CO emission limit | N | |
| 9-10-502 | Monitoring | N | |
| 9-10-502.1 | CEMS for NOx, CO, and O ₂ | N | |
| 9-10-502.2 | Fuel flowmeters | Y | |
| 9-10-504 | Recordkeeping | N | |
| 9-10-504.1 | For All Sources Subject to 9-10-301, 303, 305 | N | |
| 9-10-505 | Reporting | N | |

IV. Source Specific Applicable Requirements

Table IV – BZ
Source-specific Applicable Requirements
S1800 - UTIL F-88 BOILER 5

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|----------------------------------|---|-----------------------------|-----------------------|
| SIP Regulation 9, Rule 10 | Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon Monoxide from Boilers, Steam Generators, and Process Heaters in Petroleum Refineries (3/29/01) | | |
| 9-10-303 | Interim Emission Limit for Facility (Federal Requirements) | Y | |
| 9-10-502 | Monitoring | Y | |
| NSPS 40 CFR 60 Subpart A | Standards of Performance for New Stationary Sources (12/23/71) | Y | |
| 60.7 | Notification and record keeping | Y | |
| 60.8 | Performance tests | ✗ | |
| 60.11 | Compliance with standards and maintenance requirements | Y | |
| 60.11(a) | Performance test | Y | |
| 60.11(d) | Good air pollution control practice for minimizing emissions | Y | |
| 60.11(f) | Special provisions | Y | |
| 60.11(g) | Any credible evidence or information | Y | |
| 60.12 | Circumvention | Y | |
| 60.13 | Monitoring requirements | 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) | Fuel gas H2S limit | 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) | Excess SO ₂ emission definitions for 60.7(c) | Y | |
| 60.106 | Test methods and procedures | Y | |
| 60.106(e) | Method 11 shall be used to verify compliance with 60.104(a)(1) | Y | |
| BAAQMD Condition # 7618 | | | |

IV. Source Specific Applicable Requirements

Table IV – BZ
Source-specific Applicable Requirements
S1800 - UTIL F-88 BOILER 5

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---------------------------------|---|-----------------------------|-----------------------|
| Part A | Emissions limitations [basis: Regulation 2-2-302] | Y | |
| Part B | Emissions profiles and emission factors [basis: Regulation 2-2-302] | Y | |
| Part B.1 | Baseline profiles [basis: Regulation 2-2-302] | Y | |
| Part B.3 | Emission factors used for combustion [basis: Regulation 2-2-302] | Y | |
| Part B.6 | Modification of baseline profiles for particulate, NOx, SO2, and CO [basis: Regulation 2-2-302] | Y | |
| Part C | Actions resulting from non-compliance [basis: Regulation 2-2-302] | N | |
| Part C.d | Total fuel usage [basis: Regulation 2-2-302] | Y | |
| Part E | Fuel Conditions | Y | |
| Part E.2 | Processing limit of San Joaquin Valley Crude [basis: Regulation 2-2-302] | Y | |
| Part F | Reporting [basis: Cumulative Increase] | Y | |
| Part G | Records [basis: Cumulative Increase] | Y | |
| BAAQMD Condition # 16688 | | | |
| Part 1 | Maximum firing rate [basis: Regulation 2-1-234] | N | |
| BAAQMD Condition # 18265 | | | |
| Part 1 | Sources subject to Regulation 9-10 (basis: Regulation 9-10-301 & 305) | N | 1/1/05 |
| Part 2 | O2 monitor and recorder requirement (basis: Regulation 9-10-502) | N | 09/01/04 |
| Part 8 | For sources with NOx CEMS, semi-annual source test for CO at as-found conditions (basis: Regulation 9-10-502, 1-522) | N | 1/1/05 |
| Part 10 | Source test records (basis: recordkeeping; Regulation 9-10-504) | N | 1/1/05 |
| Part 11 | CEM for NOx and O2 monitoring [basis: Regulation 9-10-502] | N | 1/1/05 |
| Part 13 | IERC required to comply with Regulation 9-10 [Regulation 2-9-303] | N | |
| Part 14 | Monthly summary of daily actual emissions, daily allowable emissions, and actual NOx emission rate (lb/MM BTU) [basis: Regulation 9-10-504] | N | |
| Part 15 | Monthly sum of daily totals [basis: Regulation 9-10-504] | N | |

IV. Source Specific Applicable Requirements

Table IV – BZ
Source-specific Applicable Requirements
S1800 - UTIL F-88 BOILER 5

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------------|---|-----------------------------|-----------------------|
| Part 16 | Source test of S1800 if it operates [basis: Regulation 9-10-501] | N | |
| Part 17 | Alternative compliance plan [basis: Regulation 9-10-502] | N | |
| Part 20 | Maintain fuel flow meter [basis: Regulation 9-10-503] | N | |
| Part 21 | Recordkeeping [basis: Regulation 9-10-503] | N | |

Table IV – CA
Source-specific Applicable Requirements
S1803– OPCEN COKE CORRAL

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|-----------------------------------|--|-----------------------------|-----------------------|
| BAAQMD Regulation 6 Rule 1 | Particulate Matter – General Requirements Particulate Matter and Visible Emissions (12/05/0709/04/98) | | |
| 6-1-301 | Ringelmann No. 1 Limitation | N | |
| 6-1-305 | Visible Particles | N | |
| 6-1-311 | General Operations (process weight rate limitation) | N | |
| 6-1-401 | Appearance of Emissions | N | |
| SIP Regulation 6 | Particulate Matter and Visible Emissions (9/4/98) | | |
| 6-301 | Ringelmann No. 1 Limitation | Y | |
| 6-305 | Visible Particles | Y | |
| 6-311 | General Operations (process weight rate limitation) | Y | |
| 6-401 | Appearance of Emissions | Y | |
| BAAQMD Condition # 4041 | | | |
| Part 1 | Material limitation [basis: Cumulative Increase] | Y | |
| Part 2 | Vehicle tire and wheels washing [basis: Cumulative Increase, Public Nuisances] | Y | |
| Part 3 | Visible particulate emission limit [basis: Cumulative Increase] | Y | |

IV. Source Specific Applicable Requirements

Table IV – CA
Source-specific Applicable Requirements
S1803– OPCEN COKE CORRAL

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|-------------------------------|--|------------------------------------|------------------------------|
| Part 4 | Water spray requirement [basis: Cumulative Increase] | Y | |
| Part 5 | Covering of stockpiles and/or containers [basis: Cumulative Increase,] | Y | |
| Part 6 | Stockpile height limitation [basis: BACT] | Y | |
| Part 8 | Storage of Petroleum Coke-Oil Mixture [basis: Cumulative Increase] | Y | |
| Part 10 | Visible emissions monitoring [basis: Regulation 2-6-409.2] | Y | |
| Part 11 | Recordkeeping [basis: Regulation 2-6-409.2] | Y | |
| Part 12 | Sampling and analysis [basis: Regulation 2-6-409.2] | Y | |

IV. Source Specific Applicable Requirements

**Table IV – CB
 Source-specific Applicable Requirements
 S1804 – MAINT PAINT SPRAY BOOTH AND FACILITY COATING**

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------------------------|---|-----------------------------|-----------------------|
| BAAQMD Regulation 6 Rule 1 | Particulate Matter – General Requirements Particulate Matter and Visible Emissions (12/05/0709/04/98) | | |
| 6-1-301 | Ringelmann No. 1 Limitation | NY | |
| 6-1-310 | Particle Weight Limitation | NY | |
| SIP Regulation 6 | Particulate Matter and Visible Emissions (9/4/98) | | |
| 6-301 | <u>Ringelmann No. 1 Limitation</u> | Y | |
| 6-310 | <u>Particulate Weight Limitation</u> | Y | |
| BAAQMD Regulation 8, Rule 1 | Organic Compounds – General Provisions (11/4/98) | | |
| 8-1-320 | Storage and Disposal of Solvent Impregnated Cloth or Paper | Y | |
| 8-1-321 | Closed Containers for Spent or Fresh Organic Solvents | Y | |
| 8-1-322 | Spray Equipment Cleanup Limitation | Y | |
| BAAQMD Regulation 8, Rule 4 | Organic Compounds – General Solvent and Surface Coating Operations (10/16/2002) | | |
| 8-4-302 | Solvents and Surface Coating Requirements | NY | |
| 8-4-312 | Solvent Evaporation Loss Minimization | NY | |
| 8-4-312.1 | Storage and Disposal of Solvent Impregnated Cloth or Paper | NY | |
| 8-4-312.2 | No Organic Compounds for Cleanup of Spray Equipment Unless Controls are Used | NY | |
| 8-4-312.3 | Closed Containers for Spent or Fresh Organic Solvents | NY | |
| 8-4-313 | Surface Preparation Standards | NY | |
| 8-4-501 | Recordkeeping | NY | |
| 8-4-501.1 | Maintain Data Necessary to Evaluate Compliance | Y | |
| 8-4-501.2 | Annual Records of Coating Applied and Solvent Used | Y | |
| 8-4-501.3 | Daily Recording of Key System Operating Parameters | Y | |
| 8-4-501.4 | Monthly Usage Records | NY | |
| 8-4-501.5 | Records Retention | NY | |

IV. Source Specific Applicable Requirements

**Table IV – CB
 Source-specific Applicable Requirements
 S1804 – MAINT PAINT SPRAY BOOTH AND FACILITY COATING**

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|-----------------------------|-----------------------|
| SIP Regulation 8, Rule 4 | Organic Compounds – General Solvent and Surface Coating Operations (12/20/95) | | |
| 8-4-302 | Limitation on Solvents and Surface Coatings | N | |
| 8-4-312 | Solvent Evaporation Loss Minimization | N | |
| 8-4-501 | Recordkeeping | N | |
| 8-4-501.4 | Records Retention | N | |
| BAAQMD Regulation 8, Rule 19 | Organic Compounds – Surface Coating of Miscellaneous Metal Parts and Products (10/16/2002) | | |
| 8-19-134 | Limited Exemption, Coating Records | Y | |
| 8-19-302 | Limits | Y | |
| 8-19-307 | Prohibition of Specification | Y | |
| 8-19-312 | Specialty Coating Limitations | Y | |
| 8-19-313 | Spray Application Equipment Limitations | Y | |
| 8-19-320 | Solvent Evaporative Loss Minimization | Y | |
| 8-19-321 | Surface Preparation Solvent < 0.42 lb/gal | Y | |
| 8-19-501 | Records | Y | |
| SIP Regulation 8, Rule 19 | Organic Compounds – Surface Coating of Miscellaneous Metal Parts and Products (12/20/95) | | |
| 8-19-307 | Prohibition of Specification | N | |
| 8-19-320 | Solvent Evaporative Loss Minimization | N | |
| 8-19-501 | Records | N | |
| BAAQMD Regulation 8, Rule 31 | Organic Compounds – Surface Coating of Plastic Parts and Products (10/16/2002) | | |
| 8-31-123 | Exemption, Small User | Y | |
| 8-31-124 | Limited Exemption, Coating Records | Y | |
| 8-31-302 | Limits | Y | |
| 8-31-306 | Flexible Coatings | Y | |
| 8-31-307 | Prohibition of Specification | Y | |
| 8-31-309 | Specialty Coating Limitations | Y | |
| 8-31-310 | Spray Application Equipment Limitations | Y | |

IV. Source Specific Applicable Requirements

Table IV – CB
Source-specific Applicable Requirements
S1804 – MAINT PAINT SPRAY BOOTH AND FACILITY COATING

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|--|-----------------------------|-----------------------|
| 8-31-320 | Solvent Evaporative Loss Minimization | Y N | |
| 8-31-321 | Surface Preparation Solvent < 0.42 lb/gal | Y N | |
| 8-31-501 | Records | Y N | |
| SIP Regulation 8, Rule 31 | Organic Compounds – Surface Coating of Plastic Parts and Products (12/20/95) | | |
| 8-31-307 | Prohibition of Specification | Y | |
| 8-31-320 | Solvent Evaporative Loss Minimization | Y | |
| 8-31-501 | Records | Y | |
| BAAQMD Regulation 8, Rule 32 | Organic Compounds – Wood Products Coating (06/19/96) | | |
| 8-32-111 | Exemption, Small Coating Operations | Y | |
| BAAQMD Regulation 8, Rule 49 | Organic Compounds – Aerosol Paint Products (12/20/95) | | |
| 8-49-301 | Limits | N | |
| 8-49-302 | Prohibition of Non-Intended Use | Y | |
| 8-49-303 | Multi-Component Applications | N | |
| SIP Regulation 8, Rule 49 | Organic Compounds – Aerosol Paint Products (03/22/95) | | |
| 8-49-301 | Limits | Y | |
| 8-49-303 | Multi-Component Applications | Y | |
| BAAQMD Regulation 8, Rule 51 | Organic Compounds – Adhesive and Sealant Products (7/17/02) | | |
| 8-51-114 | Exemption, Low Usage | Y | |
| 8-51-115 | Exemption, Low VOC Adhesive or Sealant Products | Y | |
| 8-51-125 | Limited Exemption, Low Usage of Contact Bond Adhesive | Y | |
| 8-51-126 | Limited Exemption, Facilities Using contact Bond Adhesive Primarily for Special Substrates | Y | |
| 8-51-306 | Prohibition of Specification | Y | |
| 8-51-320 | Solvent Evaporative Loss Minimization | Y | |

IV. Source Specific Applicable Requirements

Table IV – CB
Source-specific Applicable Requirements
S1804 – MAINT PAINT SPRAY BOOTH AND FACILITY COATING

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|--------------------------------|---|-----------------------------|-----------------------|
| 8-51-504 | Burden of Proof | Y | |
| BAAQMD Condition # 4303 | | | |
| Part 1 | Annual cleanup solvent usage limit [basis: Cumulative Increase] | Y | |
| Part 2 | Annual coating usage limit. [basis: Cumulative Increase] | Y | |
| Part 3 | Recordkeeping [basis: Cumulative Increase] | Y | |
| Part 4 | Operational requirements [basis: Cumulative Increase, Regulation 6-1-301] | Y N | |

Table IV – CC
Source-specific Applicable Requirements
S1805 – TANK 12038

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|--------------------------------|---|-----------------------------|-----------------------|
| | See Table IV – AEB for additional requirements. | | |
| BAAQMD Condition # 4298 | | | |
| Part 1 | Annual throughput limit [basis: Cumulative Increase] | Y | |
| Part 2 | Vented to A1805 [basis: 40CFR61, Section 61.343(a) and (b)] | Y | |
| Part 3 | Monitoring of A1805 [basis: 40CFR61, Section 61.343(a) and (b)] | Y | |
| Part 4 | Recordkeeping of Monitoring for A1805 [basis: 40CFR61, Section 61.343(a) and (b)] | Y | |
| Part 5 | Changeout of primary carbon vessel [basis: 40CFR61, Section 61.343(a) and (b) & Equilon Consent Decree, paragraphs 55 & 59] | Y | |
| Part 6 | Changeout of secondary carbon vessel [basis: 40CFR61, Section 61.343(a) and (b) & Equilon Consent Decree, paragraphs 55 & 59] | Y | |
| Part 7 | Recordkeeping of changeout [basis: 40CFR61, Section 61.343(a)] | Y | |
| Part 8 | Recordkeeping of throughput limit [basis: Cumulative Increase] | Y | |

IV. Source Specific Applicable Requirements

Table IV – CD
Source-specific Applicable Requirements
S1900 – MAINT MACHINE SHOP PARTS CLEANER
S1902 - MAINT SEAL ROOM PARTS CLEANER
S1903 – MAINT PAINT SHOP SOLVENT TUB

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|-------------------------------------|---|-----------------------------|-----------------------|
| BAAQMD Regulation 8, Rule 1 | Organic Compounds – General Provisions (6/15/94) | | |
| 8-1-320 | Surface Preparation, Clean-up, Coating, Ink, Paint Removal | Y | |
| 8-1-321 | Closed Containers for Spent or Fresh Organic Solvents | Y | |
| 8-1-322 | Spray Equipment Cleanup Limitation | Y | |
| BAAQMD Regulation 8, Rule 16 | Organic Compounds – Solvent Cleaning Operations (10/16/2002) | | |
| 8-16-303 | Cold Cleaner Requirements | <u>YN</u> | |
| 8-16-303.1 | General Operating Requirements | <u>YN</u> | |
| 8-16-303.1.1 | Maintain equipment in good working order. | Y | |
| 8-16-303.1.2 | Leak Repair Requirement | Y | |
| 8-16-303.1.3 | Solvent Storage or Disposal – Evaporation Prevention | <u>YN</u> | |
| 8-16-303.1.4 | Waste Solvent Disposal | <u>YN</u> | |
| 8-16-303.1.4(a) | Covered Containers for Waste Solvent Awaiting Pick-up | <u>YN</u> | |
| 8-16-303.1.4(b) | On-site Waste Treatment | <u>YN</u> | |
| 8-16-303.1.5 | Solvent Evaporation Minimization Devices shall not be Removed | <u>YN</u> | |
| 8-16-303.1.6 | Solvent Spray Requirements | <u>YN</u> | |
| 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 | Y | |
| 8-16-303.3 | Cold Cleaner General Equipment Requirements | <u>YN</u> | |
| 8-16-303.3.1 | Container | Y | |
| 8-16-303.3.2 | Solvent Evaporation Reduction for Idle Equipment | <u>YN</u> | |
| 8-16-303.3.3 | Used Solvent Returned to Container | <u>YN</u> | |

IV. Source Specific Applicable Requirements

Table IV – CD
Source-specific Applicable Requirements
S1900 – MAINT MACHINE SHOP PARTS CLEANER
S1902 - MAINT SEAL ROOM PARTS CLEANER
S1903 – MAINT PAINT SHOP SOLVENT TUB

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|----------------------------------|---|-----------------------------|-----------------------|
| 8-16-303.3.4 | Label Stating Operating Requirements | <u>YN</u> | |
| 8-16-303.4 | Control Device (one of the following) | <u>YN</u> | |
| 8-16-303.4.1 | Freeboard Ratio ≥ 0.75 | <u>YN</u> | |
| 8-16-303.5 | VOC content ≤ 0.42 pounds per gallon or comply with 8-16-303.4.1 and other options | <u>YN</u> | |
| 8-16-501 | Solvent Records | <u>YN</u> | |
| 8-16-501.2 | Facility-wide Monthly Solvent Usage Records | <u>YN</u> | |
| 8-16-501.3 | Monthly Records of Type and Amount of Solvent Used for Wipe Cleaning | <u>YN</u> | |
| 8-16-501.5 | Records Retained | <u>YN</u> | |
| SIP Regulation 8, Rule 16 | Organic Compounds – Solvent Cleaning Operations (12/9/94) | | |
| 8-16-303.1.4 | Waste Solvent Disposal | Y | |
| 8-16-303.1.4(a) | Covered Containers for Waste Solvent Awaiting Pick up | Y | |
| 8-16-303.1.4(b) | On site Waste Treatment | Y | |
| 8-16-303.1.5 | Solvent Evaporation Minimization Devices shall not be Removed | Y | |
| 8-16-303.1.6 | Solvent Spray Requirements | Y | |
| 8-16-303.3 | Cold Cleaner General Equipment Requirements | Y | |
| 8-16-303.3.2 | Solvent Evaporation Reduction for Idle Equipment | Y | |
| 8-16-303.3.3 | Used Solvent Returned to Container | Y | |
| 8-16-303.3.4 | Label Stating Operating Requirements | Y | |
| 8-16-303.4 | Control Device (one of the following) | Y | |
| 8-16-303.4.1 | Freeboard Ratio ≥ 0.75 | Y | |
| 8-16-501 | Solvent Records | Y | |
| 8-16-501.2 | Facility wide Quarterly Solvent Usage Records | Y | |
| BAAQMD Condition # 18618 | <u>Applies to S1900 and S1903</u> | | |
| Part 1 | Throughput limit (basis: Regulation 2-1-234.3) | <u>N</u> | |

Facility Name: Shell Martinez Refinery, Shell Oil Products US
Permit for Facility #: A0011

IV. Source Specific Applicable Requirements

Table IV – CD
Source-specific Applicable Requirements
S1900 – MAINT MACHINE SHOP PARTS CLEANER
S1902 - MAINT SEAL ROOM PARTS CLEANER
S1903 – MAINT PAINT SHOP SOLVENT TUB

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------------|--|-----------------------------|-----------------------|
| Part 2 | Recordkeeping (basis: Regulation 2-1-234.3) | N | |

IV. Source Specific Applicable Requirements

Table IV - CE
Source-specific Applicable Requirements
S2000 – OPCEN CORROSION INHIBITOR INJECTION

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------------|--|-----------------------------|-----------------------|
| Condition # 4364 | | | |
| Part 2 | Corrosion Inhibitor Usage Limit [basis: Cumulative Increase] | Y | |
| Part 4 | Records [basis: Cumulative Increase] | Y | |

Table IV – CF
Source-specific Applicable Requirements
S2001, S2002, S2003 AND S2004 -
LOG MARINE LOADING BERTHS 1, 2, 3 AND 4

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|-------------------------------------|--|-----------------------------|-----------------------|
| BAAQMD Regulation 1 | General Provisions and Definitions (7/19/0605/02/2004) | | |
| 1-523 | Parametric Monitoring and Recordkeeping Procedures | Y | |
| 1-523.1 | Periods of Inoperation Reported | Y | |
| 1-523.2 | Periods of Inoperation Per Incident | Y | |
| 1-523.3 | Violations of Permit Conditions Reported (Nature, Extent, and Cause) | N | |
| 1-523.4 | Records | Y | |
| 1-523.5 | Maintenace and Calibration Required | N | |
| SIP Regulation 1 | PROVISIONS NO LONGER IN CURRENT RULE General Provisions and Definitions (6/28/99) | | |
| 1-523.3 | Violations of Permit Conditions Reported (Nature, Extent, Cause, and Corrective Action) | Y | |
| BAAQMD Regulation 8, Rule 44 | Organic Compounds-Marine Vessel Loading Terminals (1/4/89) | 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 bbls) of organic liquid loaded, or | Y | |

IV. Source Specific Applicable Requirements

Table IV – CF
Source-specific Applicable Requirements
S2001, S2002, S2003 AND S2004 -
LOG MARINE LOADING BERTHS 1, 2, 3 AND 4

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---------------------------------|--|-----------------------------|-----------------------|
| 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 | |
| 8-44-501 | 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 Part 60 Subpart A | General Provisions | | |
| 60.13(i) | Alternatives to any monitoring procedures or 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) | Fuel gas H2S limit | Y | |
| <u>60.105</u> | <u>Monitoring of Emissions and Operations</u> | <u>Y</u> | |
| 60.105(a)(4) | <u>monitoring requirement for H2S (dry basis) in fuel gas prior to combustion (in lieu of separate combustion device exhaust SO2 monitors as required by 60.105(a)(3))</u> | <u>Y</u> | |
| 60.105(e)(3) | <u>Excess SO2 emission definitions for 60.7(c)</u> | <u>Y</u> | |

IV. Source Specific Applicable Requirements

Table IV – CF
Source-specific Applicable Requirements
S2001, S2002, S2003 AND S2004 -
LOG MARINE LOADING BERTHS 1, 2, 3 AND 4

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|--|--|-----------------------------|-----------------------|
| 60.106 | Test methods and procedures | Y | |
| 60.106(e) | Method 11 shall be used to verify compliance with 60.104(a)(1) | Y | |
| NESHAPS Part 63 Subpart Y | National Emission Standards for Marine Tank Vessel Loading Operations | 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 # 4288 | | | |
| Part 3a | Install pressure and temperature monitors and recorders [basis: Regulation 8-44-301] | Y | |
| Part 3b | CAP adjustment [basis: BARCT-Adjustment] | Y | |
| Part 3c | Tracking wharf emissions [basis: Regulation 8-44-301] | Y | |
| Part 5 | Operation of Marine Vapor Recovery System [basis: Regulation 8-44-301] | Y | |
| Part 6 | Minimum temperature requirement [basis: Regulation 8-44-301] | Y | |
| Part 7 | Temperature monitor [basis: Regulation 2-6-409.2] | | |
| Part 9 | Leak test requirement [basis: Regulation 8-44-304] | Y | |
| Part 10 | Loading pressure requirement [basis: Regulation 8-44-303] | Y | |
| Part 11 | Maintenance records [basis: Regulation 8-44-501] | Y | |
| Part 12 | Alternative Monitoring for H2S (basis: Alternate Monitoring Plan) | Y | |
| Part 13 | Recordkeeping Requirements for Alternative H2S Monitoring (basis: Alternate Monitoring Plan) | Y | |
| Part 14 | Reporting Requirements for Alternative H2S Monitoring (basis: Alternate Monitoring Plan) | Y | |
| BAAQMD Condition # 7618 | | | |
| Part A | Emissions limitations [basis: Regulation 2-2-302] | Y | |

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IV. Source Specific Applicable Requirements

Table IV – CF
Source-specific Applicable Requirements
S2001, S2002, S2003 AND S2004 -
LOG MARINE LOADING BERTHS 1, 2, 3 AND 4

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------------|---|-----------------------------|-----------------------|
| Part B | Emissions profiles and emission factors [basis: Regulation 2-2-302] | Y | |
| Part B.2 | Emission factors for marine activity [basis: Regulation 2-2-302] | Y | |
| Part B.7 | Modification of baseline profile [basis: Regulation 2-2-302] | Y | |
| Part C | Actions resulting from non-compliance [basis: Regulation 2-2-302] | N | |
| Part C.f | Large cargo vessel limitation [basis: Regulation 2-2-302] | Y | |
| Part F | Reporting [basis: Cumulative Increase] | Y | |
| Part G | Records [basis: Cumulative Increase] | Y | |

Table IV – CG
Source-specific Applicable Requirements
S5115 – LOG DISSOLVED NITROGEN FLOTATION UNIT NORTH ETP 2 (DNF),
S5116 – LOG DISSOLVED NITROGEN FLOTATION UNIT SOUTH ETP 2 (DNF)

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------------------------|---|-----------------------------|-----------------------|
| BAAQMD Regulation 8, Rule 8 | Wastewater (Oil-Water) Separator (08/29/94/09/15/04) | | |
| 8-8-303 | Gauging and Sampling Devices | Y | |
| 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 | |
| 8-8-501 | API Separator or Air Flotation Bypassed Wastewater Records | Y | |
| 8-8-503 | Inspection and Repair Records | Y | |
| SIP Regulation 8, | Wastewater (Oil-Water) Separator (08/29/94) | | |

IV. Source Specific Applicable Requirements

Table IV – CG
Source-specific Applicable Requirements
S5115 – LOG DISSOLVED NITROGEN FLOTATION UNIT NORTH ETP 2 (DNF),
S5116 – LOG DISSOLVED NITROGEN FLOTATION UNIT SOUTH ETP 2 (DNF)

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---------------------------------------|--|-----------------------------|-----------------------|
| Rule 8 | | | |
| 8-8-501 | API Separator or Air Flotation Bypassed Wastewater Records | Y | |
| District Regulation 11 Rule 12 | Hazardous Pollutants - National Emission Standards for Benzene Emissions from Benzene Transfer Operations and Benzene Waste Operations (7/18/90, Refer to NESHAP Subpart FF below) | Y | |
| NESHAP 40 CFR 61 Subpart FF | National Emission Standard for Benzene Waste Operations (3/7/90) | | |
| 61.343 | Standards: Tanks | Y | |
| 61.343(a)(1) | Owner/operator shall install, operate, and maintain a fixed-roof and closed-vent system that routes all organic vapors vented from the tank to a control device. | Y | |
| 61.343(a)(1)(i) | Fixed Roof leak requirements - < 500 ppmv above background, determined initially then annually by method in 61.355(h) of this subpart. | Y | |
| 61.343(b) | For a tank that meets all of the conditions of paragraph (b)(1), the owner/operator may elect to comply with paragraph (b)(2) as an alternative to the requirements of (a)(1). | Y | |
| 61.343(c) | Inspect all fixed-roof, seal, access doors, and all other openings visually initially and quarterly for cracks and gaps and that doors and openings are closed and gasketed properly. | Y | |
| 61.343(d) | When a broken seal or gasket is identified, or when detectable emissions are measured, first efforts at repair shall be made as soon as practicable, but not later than 45 calendar days after identification. | Y | |
| 61.349 | Standards: Closed vent systems and control devices | Y | |
| 61.349(a) | Closed vent system and control device | Y | |
| 61.349(a)(1) | Closed vent system requirements | Y | |
| 61.349(a)(2)(ii) | Vapor recovery system (e.g. carbon adsorption system) recovers or controls organic emissions with an efficiency of 95% by weight | Y | |
| 61.349(b) | Operated at all times except maintenance or repair. | Y | |
| 61.349(f) | Visible inspection and repair | Y | |

IV. Source Specific Applicable Requirements

Table IV – CG
Source-specific Applicable Requirements
S5115 – LOG DISSOLVED NITROGEN FLOTATION UNIT NORTH ETP 2 (DNF),
S5116 – LOG DISSOLVED NITROGEN FLOTATION UNIT SOUTH ETP 2 (DNF)

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|--|--|-----------------------------|-----------------------|
| 61.349(g) | Visually inspected quarterly | Y | |
| 61.349(h) | Monitor control device in accordance with 61.354(c) | Y | |
| 61.350 | Delay of Repair | Y | |
| 61.354 | Monitoring of operations | Y | |
| 61.354(c) | Monitoring of operations for control devices | Y | |
| 61.354(c)(8) | Monitoring for carbon adsorption | Y | |
| 61.354(d) | Replace carbon immediately when carbon breakthrough is indicated. | Y | |
| 61.355 | Test methods, procedures and compliance provisions | Y | |
| 61.355(h) | Leak inspection procedures | Y | |
| 61.356 | Recordkeeping requirements | Y | |
| 61.356(d) | recordkeeping and retention requirements | Y | |
| 61.356(h) | waste stream records | Y | |
| 61.357 | Reporting requirements | Y | |
| 61.357(d) | reporting requirements for facilities with 10 Mg/yr or more total benzene in waste | Y | |
| 61.357(d)(8) | Reporting requirements | Y | |
| MACT 40 CFR 63 Subpart CC | National Emissions Standards for Hazardous Air Pollutants from Petroleum Refineries (8/18/95/23,036/30/10) | | |
| 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 | |
| 63.654-655 | Reporting and recordkeeping requirements | Y | |
| 63.654-655 (a) | Owner/operators subject to the wastewater provisions of 63.647 shall comply with the recordkeeping and reporting requirements in 61.356 and 61.357 of 40 CFR part 61, subpart FF, unless they comply with those specified in paragraph (o)(2)(ii) of 63.640. 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 | |
| 63.654-655 (i) | Recordkeeping | Y | |

IV. Source Specific Applicable Requirements

Table IV – CG
Source-specific Applicable Requirements
S5115 – LOG DISSOLVED NITROGEN FLOTATION UNIT NORTH ETP 2 (DNF),
S5116 – LOG DISSOLVED NITROGEN FLOTATION UNIT SOUTH ETP 2 (DNF)

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------------------------|---|-----------------------------|-----------------------|
| 63.654655(i)(4) | All information required to be reported under 63.654655(a) through (h) shall be retained for 5 years. | Y | |
| Condition # 11313 | | | |
| <u>Part 1</u> | <u>Two carbon vessels arranged in series [basis: Regulation 8-8-307]</u> | <u>Y</u> | |
| <u>Part 2</u> | <u>Second to last carbon bed change out [basis: Regulation 8-8-307]</u> | <u>Y</u> | |
| <u>Part 3</u> | <u>Last carbon bed change out [basis: Regulation 8-8-307]</u> | <u>Y</u> | |
| <u>Part 4</u> | <u>Non-Methane Hydrocarbon Emission limits [basis: Regulation 8-8-307]</u> | <u>Y</u> | |
| <u>Part 5</u> | <u>Monitor Carbon Beds [basis: Regulation 8-8-504]</u> | <u>Y</u> | |
| <u>Part 6</u> | <u>Record monitor readings [basis: Regulation 8-8-307]</u> | <u>Y</u> | |
| <u>Part 7</u> | <u>Record monitor readings [basis: Regulation 8-8-307]</u> | <u>Y</u> | |
| <u>Part 8</u> | <u>Records on file [basis: Regulation 8-8-307]</u> | <u>Y</u> | |

IV. Source Specific Applicable Requirements

Table IV – CH
Source-specific Applicable Requirements
S2007 - LOG DISSOLVED NITROGEN FLOATATION UNIT NORTH ETP 1 (DNF),
S2008 - LOG DISSOLVED NITROGEN FLOATATION UNIT SOUTH ETP 1 (DNF)

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------------------------|---|-----------------------------|-----------------------|
| | | | |
| BAAQMD Regulation 8, Rule 8 | Wastewater (Oil-Water) Separator (09/15/0408/29/94) | | |
| 8-8-303 | Gauging and Sampling Devices | Y | |
| 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 equipped with one of the following: | <u>Y</u> | |
| 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 gaps inspection frequency or limits. | Y | |
| 8-8-501 | API Separator or Air Flotation Bypassed Wastewater Records | Y | |
| 8-8-503 | Inspection and Repair Records | Y | |
| SIP Regulation 8, Rule 8 | Wastewater (Oil-Water) Separator (08/29/94) | | |
| 8-8-501 | API Separator or Air Flotation Bypassed Wastewater Records | <u>Y</u> | |
| Condition # 5077 | | | |
| Part 1 | Design Rated Capacity Limit [basis: Cumulative Increase] | Y | |

IV. Source Specific Applicable Requirements

Table IV – CJ
Source-specific Applicable Requirements
S2010 - LOG WASTEWATER JUNCTION BOXES
S2011 - LOG WASTEWATER COLLECTION SUMPS (4)

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|-----------------------------|--|-----------------------------|-----------------------|
| BAAQMD Regulation 8, Rule 8 | Wastewater (Oil-Water) Separator <u>(09/15/04)</u> | | |
| 8-8-303 | Gauging and Sampling Devices | Y | |
| 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 | |
| <u>For S2010</u> | | | |
| <u>8-8-312</u> | <u>Controlled Wastewater Collection System Components at Petroleum Refineries</u> | <u>N</u> | |
| <u>8-8-505</u> | <u>Records for Wastewater Collection System Components at Petroleum Refineries</u> | <u>N</u> | |
| <u>8-8-603</u> | <u>Inspection Procedures</u> | <u>N</u> | |

TABLE IV – CK
SOURCE-SPECIFIC APPLICABLE REQUIREMENTS
S2012 – DH V-12378 PERCHLOROETHYLENE STORAGE SYSTEM

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------------|--|-----------------------------|-----------------------|
| | See Table IV – B for additional requirements. | | |
| Condition # 6110 | | | |
| Part 1 | Annual throughput limit [basis: Cumulative Increase] | Y | |
| Part 2 | Material storage limitation [basis: Cumulative Increase; Toxics] | N | |
| Part 3 | Recordkeeping [basis: Cumulative Increase] | | |

IV. Source Specific Applicable Requirements

Table IV—CL
Source-specific Applicable Requirements
S2013—TANK 12467

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|--------------------------------|---|-----------------------------|-----------------------|
| | See Table IV—U & V & W for additional requirements. | | |
| BAAQMD Condition # 6503 | | | |
| Part 1 | Annual throughput limit [basis: Cumulative Increase] | Y | |
| Part 2 | Material storage limit [basis: Cumulative Increase] | N | |
| Part 3 | Recordkeeping [basis: Cumulative Increase] | Y | |
| Part 5 | Specification requirements [basis: Cumulative Increase, BACT/TBACT] | Y | |

Table IV—CN
Source-specific Applicable Requirements
S2445—TANK 12445, S2446—TANK 12446

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|--------------------------------|---|-----------------------------|-----------------------|
| | See Table IV—R & T & W for additional requirements. | | |
| BAAQMD Condition # 6707 | | | |
| Part 1 | Annual throughput limit [basis: Cumulative Increase] | Y | |
| Part 2a | Material storage limit [basis: Cumulative Increase] | Y | |
| Part 2bi | Material storage limit [basis: Cumulative Increase] | Y | |
| Part 2bii | Material storage limit [basis: Cumulative Increase, Toxics] | N | |
| Part 3 | Equipment specifications [basis: BACT/TBACT; Cumulative Increase] | Y | |
| Part 4 | Recordkeeping [basis: Cumulative Increase] | Y | |
| Part 5 | Installation of primary seal [basis: BACT/TBACT] | Y | |

IV. Source Specific Applicable Requirements

Table IV - CO
Source-specific Applicable Requirements
S3000 – Portable Vacuum Distillation Unit (CCR Technologies Inc.)

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|-----------------------------------|--|-----------------------------|-----------------------|
| BAAQMD Regulation 6 Rule 1 | Particulate Matter – General Requirements Particulate Matter and Visible Emissions (12/05/0712/19/90) | | |
| 6-1-301 | Ringelmann No. 1 Limitation | N | |
| 6-1-310 | Particle Weight Limitation | N | |
| 6-1-310.3 | 0.15 grain per dscf at 6% O ₂ | N | |
| SIP Regulation 6 | Particulate Matter and Visible Emissions (9/4/98) | | |
| 6-301 | Ringelmann No. 1 Limitation | Y | |
| 6-310 | Particulate Weight Limitation | Y | |
| 6-310.3 | 0.15 grain per dscf at 6% O ₂ | Y | |
| BAAQMD Condition # 11806 | | | |
| Part 1 | Operation limitation [basis: Cumulative Increase] | | |
| Part 2 | Hard-pipe connections [basis: Cumulative Increase] | Y | |
| Part 3 | Non-condensable gases from condenser vent combusted in heater burner [basis: Cumulative Increase] | Y | |
| Part 4 | Only lean amine solution distilled [basis: Cumulative Increase] | Y | |
| Part 5 | Neutralize acid gases and react residual H ₂ S [basis: Cumulative Increase] | Y | |
| Part 6 | Natural gas fired only [basis: Cumulative Increase] | Y | |
| Part 7 | Recordkeeping [basis: Cumulative Increase] | Y | |
| BAAQMD Condition # 18618 | | | |
| Part 1 | Throughput limit (basis: Regulation 2-1-234.3) | N | |
| Part 2 | Recordkeeping (basis: Regulation 2-1-234.3) | N | |

IV. Source Specific Applicable Requirements

Table IV—CP
Source-specific Applicable Requirements
~~S4002—DC F-13425-A DCU~~
~~S4003—DC F-13425-B DCU~~

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|--------------------------|--|-----------------------------|-----------------------|
| | See Table IV—BG for additional requirements. | | |
| 40 CFR 60 Subpart A | General Provisions (7/1/2000) | | |
| 60.13(i) | Alternatives to any monitoring procedures or requirement | Y | |
| BAAQMD Condition # 7618 | | | |
| Part E.2 | Processing limit of San Joaquin Valley Crude [basis: Regulation 2-2-302] | Y | |
| BAAQMD Condition # 12271 | | | |
| Part A | Monthly and annual emission limits [basis: Offsets, Cumulative Increase] | Y | |
| Part B | Applicable sources [basis: Offsets, Cumulative Increase] | Y | |
| Part C | In the case of a process upset or other irregularity [basis: Offsets, Cumulative Increase] | N | |
| Part D | Applicable source test methods [basis: Manual of Procedures, Volume IV] | Y | |
| Part E | Notification of the Source Test Section [basis: Manual of Procedures, Volume IV] | Y | |
| Part G | Source test results [basis: Manual of Procedures, Volume IV] | Y | |
| Part J | CEM requirements [basis: Cumulative Increase, Offsets] | Y | |
| Part K | CEM data for compliance verification [basis: BACT, Offsets] | Y | |
| Part L | Recordkeeping [basis: BACT, Offsets, Cumulative Increase] | Y | |
| Part M | Monthly reports [basis: Offsets, Cumulative Increase] | Y | |
| Part O | Offsets requirements [basis: Offsets] | Y | |
| Part 15 | Refinery fuel gas limits [basis: BACT] | Y | |
| Part 16 | Continuous gaseous fuel monitor/recorder for H ₂ S [basis: BACT] | Y | |
| Part 16A | Natural gas line connection upstream of CO Boilers [basis: Offsets] | Y | |
| Part 17 | Recordkeeping requirements [basis: Cumulative Emissions] | Y | |
| Part 18.a. | Fuel usage limitation [basis: Offsets, Cumulative Increase] | Y | |

IV. Source Specific Applicable Requirements

Table IV – CP
Source-specific Applicable Requirements
~~S4002 – DCF-13425-A-DCU~~
~~S4003 – DCF-13425-B-DCU~~

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---------------------------------|---|-----------------------------|-----------------------|
| Part 19 | ULSD defined [basis: Offsets, Cumulative Increase] | Y | |
| Part 20 | Continuous Fuel Flow Monitor [basis: Offsets, Cumulative Increase] | Y | |
| Part 21 | Calculate and Record Emissions Monthly [basis: Offsets, Cumulative Increase] | Y | |
| Part 22 | Startup and shutdown limits [basis: BACT] | Y | |
| Part 23 | HHV basis [basis: Cumulative Emissions] | Y | |
| Part 35 | Furnaces with SCR NO _x emission limit [basis: BACT] | Y | |
| Part 36 | Furnaces with SCR CO emission limit [basis: BACT] | Y | |
| Part 37 | Furnaces with SCR Ammonia emission limit [basis: BACT] | N | |
| Part 38 | Furnaces with SCR CEM recorder for NO _x and O ₂ [basis: BACT] | Y | |
| Part 105 | Source Test for CO emissions [basis: Regulation 2-6-409.2] | Y | |
| Part 111 | Source Test for NH ₃ emissions [basis: Regulation 2-6-409.2] | N | |
| BAAQMD Condition # 16688 | | | |
| Part 1 | Maximum firing rate [basis: Regulation 2-1-234] | N | |

IV. Source Specific Applicable Requirements

Table IV - CQ
Source-specific Applicable Requirements
S4005 – DC COKE HANDLING FACILITY

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|-----------------------------------|---|-----------------------------|-----------------------|
| BAAQMD Regulation 6 Rule 1 | Particulate Matter – General Requirements Particulate Matter and Visible Emissions (12/05/0709/04/98) | | |
| 6-1-301 | Ringelmann No. 1 Limitation | N | |
| 6-1-305 | Visible Particles | N | |
| 6-1-310 | Particulate Weight Limitation | N | |
| 6-1-311 | General Operations (process weight rate limitation) | N | |
| 6-1-401 | Appearance of Emissions | N | |
| SIP Regulation 6 | Particulate Matter and Visible Emissions (9/4/98) | | |
| 6-301 | Ringelmann No. 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 # 12271 | | | |
| Part A | Monthly and annual emission limits [basis: Offsets, Cumulative Increase] | Y | |
| Part B | Applicable sources [basis: Offsets, Cumulative Increase] | Y | |
| Part C | In the case of a process upset or other irregularity [basis: Offsets, Cumulative Increase] | N | |
| Part L | Recordkeeping [basis: BACT, Offsets, Cumulative Increase] | Y | |
| Part M | Monthly reports [basis: Offsets, Cumulative Increase] | Y | |
| Part O | Offsets requirements [basis: Offsets] | Y | |
| Part 75 | Visible emissions limit [basis: BACT] | Y | |
| Part 76 | Washing of Pad areas [basis: BACT] | Y | |
| Part 77 | Water spray requirement [basis: BACT] | Y | |
| Part 78 | Enclosed conveying system [basis: BACT] | Y | |
| Part 79 | Water spray and abatement requirements of Coke Corral Barn [basis: BACT] | Y | |
| Part 80 | Enclosing and washing of Coke Corral Barn [basis: BACT] | Y | |

IV. Source Specific Applicable Requirements

Table IV - CQ
Source-specific Applicable Requirements
S4005 – DC COKE HANDLING FACILITY

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------------|--|-----------------------------|-----------------------|
| Part 81 | Enclosed Loading Hopper and abatement requirements [basis: BACT] | Y | |
| Part 82a | Wind shield to shroud discharge port [basis: BACT] | Y | |
| Part 82b | Water Wash System [basis: BACT] | Y | |
| Part 82c | Street sweeper [basis: BACT] | Y | |
| Part 82d | Unpaved area limitation [basis: BACT] | Y | |
| Part 83 | Loadout limit [basis: Offsets, Cumulative Increase] | Y | |
| Part 84 | Collect water and handpipe to tanks [basis: BACT] | Y | |

Table IV – CR
Source-specific Applicable Requirements
~~S4001 – DC DELAYED COKING UNIT (DCU)~~
~~S4020 – DC DISTILLATE HYDROTREATER (DHT)~~
~~S4050 – DC CATALYTIC GAS DEPENTANIZER (CGDP)~~
~~S4080 – DC ISOMERIZATION UNIT (ISOM)~~
~~S4140 – DC HEAVY CRACKED GASOLINE HYDROTREATER (HGHT)~~
~~S4160 – DC HYDROGEN PLANT 3 (HP3)~~

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|-------------------------------------|---|-----------------------------|-----------------------|
| | See Table IV – AL & AM for additional requirements. | | |
| BAAQMD Condition # 12271 | | | |
| Part A | Monthly and annual emission limits [basis: Offsets, Cumulative Increase] | Y | |
| Part B | Applicable sources [basis: Offsets, Cumulative Increase] | Y | |
| Part C | In the case of a process upset or other irregularity [basis: Offsets, Cumulative Increase] | N | |
| Part L | Recordkeeping [basis: BACT, Offsets, Cumulative Increase] | Y | |
| Part M | Monthly reports [basis: Offsets, Cumulative Increase] | Y | |
| Part N | Process vessel depressurization requirements [basis: BACT] | Y | |
| Part O | Offsets requirements [basis: Offsets] | Y | |

IV. Source Specific Applicable Requirements

Table IV—CR
Source-specific Applicable Requirements
~~S4001—DC DELAYED COKING UNIT (DCU)~~
~~S4020—DC DISTILLATE HYDROTREATER (DHT)~~
~~S4050—DC CATALYTIC GAS DEPENTANIZER (CGDP)~~
~~S4080—DC ISOMERIZATION UNIT (ISOM)~~
~~S4140—DC HEAVY CRACKED GASOLINE HYDROTREATER (HGHT)~~
~~S4160—DC HYDROGEN PLANT 3 (HP3)~~

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------------|---|-----------------------------|-----------------------|
| Part 1 | Fugitive requirements for new pumps in light liquid or toxic service [basis: BACT] | Y | |
| Part 2 | Definitions [basis: BACT] | Y | |
| Part 4 | Fugitive requirements for valves in gaseous hydrocarbon service [basis: BACT] | Y | |
| Part 5 | Fugitive requirements for other valves in POC gas, light liquid and toxic service [basis: BACT] | Y | |
| Part 6 | Fugitive requirements for flow control valves [basis: BACT] | Y | |
| Part 9 | Fugitive requirements for flanges [basis: BACT] | Y | |
| Part 10 | Fugitive requirements for centrifugal compressors [basis: BACT] | Y | |
| Part 11 | Total fugitive emissions limit [basis: Offsets] | Y | |
| Part 12 | Fugitive requirements for pressure relief valves [basis: BACT] | Y | |
| Part 13 | Fugitive requirements for process sample systems [basis: BACT] | Y | |
| Part 14 | Fugitive requirements for process drains [basis: BACT] | Y | |

Table IV - CS
Source-specific Applicable Requirements
 S4021 – DC F-13909 DHT RECYCLE

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------------|--|-----------------------------|-----------------------|
| BAAQMD Regulation 1 | General Provisions and Definitions (7/19/06 5/02/01) | Y | |
| 1-523 | Parametric Monitoring and Recordkeeping Procedures | Y | |
| 1-523.1 | Periods of Inoperation Reported | Y | |
| 1-523.2 | Periods of Inoperation Per Incident | Y | |

IV. Source Specific Applicable Requirements

Table IV - CS
Source-specific Applicable Requirements
S4021 – DC F-13909 DHT RECYCLE

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------------------------|---|-----------------------------|-----------------------|
| 1-523.3 | Violations of Permit Conditions Reported (Nature, Extent, and Cause) | N | |
| 1-523.4 | Records | Y | |
| 1-523.5 | Maintenace and Calibration Required | N | |
| SIP Regulation 1 | PROVISIONS NO LONGER IN CURRENT RULE General Provisions and Definitions (6/28/99) | | |
| 1-523.3 | Violations of Permit Conditions Reported (Nature, Extent, Cause, and Corrective Action) | Y | |
| BAAQMD Regulation 2, Rule 9 | Interchangeable Emission Reduction Credits (6/15/0504/07/99) | | |
| 2-9-302 | Use of IERC's | N | |
| 2-9-303 | Alternative Compliance Plan Using IERC's | N | |
| 2-9-304 | Restrictions on the Use of IERC's | N | |
| 2-9-306 | Environmental Benefit Surcharge | N | |
| 2-9-501 | Monitoring and Record Keeping | N | |
| 2-9-502 | Alternative Compliance Plan Record Keeping and Reporting | N | |
| BAAQMD Regulation 6 Rule 1 | <u>Particulate Matter – General Requirements</u> Particulate Matter and Visible Emissions (12/05/0709/04/98) | | |
| 6-1-301 | Ringelmann No. 1 Limitation | N | |
| 6-1-304 | Tube Cleaning | N | |
| 6-1-305 | Visible Particles | N | |
| 6-1-310 | Particle Weight Limitation | N | |
| 6-1-310.3 | 0.15 grain per dscf at 6% O ₂ | N | |
| SIP Regulation 6 | <u>Particulate Matter and Visible Emissions (9/4/98)</u> | | |
| 6-301 | <u>Ringelmann No. 1 Limitation</u> | <u>Y</u> | |
| 6-304 | <u>Tube Cleaning</u> | <u>Y</u> | |
| 6-305 | <u>Visible Particles</u> | <u>Y</u> | |
| 6-310 | <u>Particulate Weight Limitation</u> | <u>Y</u> | |
| 6-310.3 | <u>0.15 grain per dscf at 6% O₂</u> | <u>Y</u> | |

IV. Source Specific Applicable Requirements

Table IV - CS
Source-specific Applicable Requirements
S4021 – DC F-13909 DHT RECYCLE

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|-------------------------------------|---|-----------------------------|-----------------------|
| 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 | |
| 9-10-303 | Federal Interim Facility-wide NOx emission rate limit | Y N | |
| 9-10-305 | CO emission limit | N | |
| 9-10-502 | Monitoring | N | |
| 9-10-502.1 | CEMS for NOx, CO, and O2 | N | |
| 9-10-502.2 | Fuel flowmeters | N Y | |
| 9-10-504 | Recordkeeping | N | |
| 9-10-504.1 | For All Sources Subject to 9-10-301, 303, 305 | N | |
| 9-10-505 | Reporting | N | |
| SIP Regulation 9, Rule 10 | Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon Monoxide from Boilers, Steam Generators, and Process Heaters in Petroleum Refineries (3/29/01) | | |
| 9-10-303 | Interim Emission Limit for Facility (Federal Requirements) | Y | |
| 9-10-502 | Monitoring | Y | |
| NSPS 40 CFR 60 Subpart A | Standards of Performance for New Stationary Sources (12/23/71) | Y | |
| 60.7 | Notification and record keeping | Y | |
| 60.8 | Performance tests | Y | |
| 60.11 | Compliance with standards and maintenance requirements | Y | |
| 60.11(a) | Performance test | Y | |
| 60.11(d) | Good air pollution control practice for minimizing emissions | Y | |
| 60.11(f) | Special provisions | Y | |
| 60.11(g) | Any credible evidence or information | Y | |
| 60.12 | Circumvention | Y | |
| 60.13 | Monitoring requirements | Y | |
| 60.13(i) | Alternatives to any monitoring procedures or requirements | Y | |
| 60.19 | General notification and reporting requirements | Y | |

IV. Source Specific Applicable Requirements

Table IV - CS
Source-specific Applicable Requirements
S4021 – DC F-13909 DHT RECYCLE

| 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) | | |
| 60.104 | Standards for Sulfur Oxides: Compliance Schedule | Y | |
| 60.104(a)(1) | Fuel gas H2S limit | 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) | Excess SO ₂ emission definitions for 60.7(c) | Y | |
| 60.106 | Test methods and procedures | Y | |
| 60.106(e) | Method 11 shall be used to verify compliance with 60.104(a)(1) | Y | |
| BAAQMD Condition # 12271 | | | |
| Part A | Monthly and annual emission limits [basis: Offsets, Cumulative Increase] | Y | |
| Part B | Applicable sources [basis: Offsets, Cumulative Increase] | Y | |
| Part C | In the case of a process upset or other irregularity [basis: Offsets, Cumulative Increase] | N | |
| Part D | Applicable source test methods [basis: Manual of Procedures, Volume IV] | Y | |
| Part E | Notification of the Source Test Section [basis: Manual of Procedures, Volume IV] | Y | |
| Part G | Source test results [basis: Manual of Procedures Volume IV] | Y | |
| Part J | CEM requirements [basis: Cumulative Increase, Offsets] | Y | |
| Part K | CEM data for compliance verification [basis: BACT, Offsets] | Y | |
| Part L | Recordkeeping [basis: BACT, Offsets, Cumulative Increase] | Y | |
| Part M | Monthly reports [basis: Offsets, Cumulative Increase] | Y | |
| Part O | Offsets requirements [basis: Offsets] | Y | |
| Part 15 | Refinery fuel gas limits [basis: BACT] | Y | |
| Part 16 | Continuous gaseous fuel monitor/recorder for H2S [basis: BACT] | Y | |
| Part 16A | Natural gas line connection upstream of CO Boilers [basis: Offsets] | Y | |

IV. Source Specific Applicable Requirements

Table IV - CS
Source-specific Applicable Requirements
S4021 – DC F-13909 DHT RECYCLE

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---------------------------------|--|-----------------------------|-----------------------|
| Part 17 | Recordkeeping requirements [basis: Cumulative Emissions] | Y | |
| Part 18 | Fuel usage limitation [basis: Offsets, Cumulative Increase] | Y | |
| Part 19 | ULSD defined [basis: Offsets, Cumulative Increase] | Y | |
| Part 20 | Continuous Fuel Flow Monitor [basis: Offsets, Cumulative Increase] | Y | |
| Part 21 | Calculate and Record Emissions Monthly [basis: Offsets, Cumulative Increase] | Y | |
| Part 22 | Startup and shutdown limits [basis: BACT] | Y | |
| Part 23 | HHV basis [basis: Cumulative Emissions] | Y | |
| Part 40 | Natural draft furnaces with low NOx burners NOx emission limit [basis: BACT] | Y | |
| Part 41 | Forced draft furnaces with low NOx burners NOx emission limit [basis: BACT] | Y | |
| Part 42 | Furnaces with low NOx burner CO emission limit [basis: BACT] | Y | |
| Part 43 | Low NOx burner requirement [basis: BACT] | Y | |
| Part 104 | Source Test for NOx emission [basis: Regulation 2-6-409.2] | Y | |
| Part 106 | Source Test for CO emission [basis: Regulation 2-6-409.2] | Y | |
| BAAQMD Condition # 16688 | | | |
| Part 1 | Maximum firing rate [basis: Regulation 2-1-234] | N | |
| BAAQMD Condition # 18265 | | | |
| Part 1 | Sources subject to Regulation 9-10 (basis: Regulation 9-10-301 & 305) | N | 1/1/05 |
| Part 2 | O2 monitor and recorder requirement (basis: Regulation 9-10-502) | N | 09/01/04 |
| Part 3 | Operating conditions requirements for those sources without CEM (basis: Regulation 9-10-502) | N | 1/1/05 |
| Part 4 | NOx box establishment requirements (basis: Regulation 9-10-502) | N | 1/1/05 |
| Part 5 | NOx box ranges (basis: Regulation 9-10-502) | N | 1/1/05 |
| Part 6 | NOx Box Deviations (basis: Regulation 9-10-502) | N | 1/1/05 |

IV. Source Specific Applicable Requirements

Table IV - CS
Source-specific Applicable Requirements
S4021 – DC F-13909 DHT RECYCLE

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------------|---|-----------------------------|-----------------------|
| Part 7 | Source test requirements (basis: Regulation 9-10-502) | N | 1/1/05 |
| Part 9 | CO results requires CEM (basis: Regulation 9-10-502, 1-522) | N | 1/1/05 |
| Part 10 | Source test records (basis: recordkeeping: Regulation 9-10-504) | N | 1/1/05 |
| Part 11 | CEM for NOx and O2 monitoring [basis: Regulation 9-10-502] | N | 1/1/05 |
| Part 12 | Equivalent verification system [basis: Regulation 9-10-502] | N | |
| Part 13 | IERC required to comply with Regulation 9-10 [Regulation 2-9-303] | N | |
| Part 14 | Monthly summary of daily actual emissions, daily allowable emissions, and actual NOx emission rate (lb/MM BTU) [basis: Regulation 9-10-504] | N | |
| Part 15 | Monthly sum of daily totals [basis: Regulation 9-10-504] | N | |
| | | | |
| Part 17 | Alternative compliance plan [basis: Regulation 9-10-502] | N | |
| Part 18 | operating range limits for S-1478, S-1479, S-1508, S-1760 and S-4021 [basis: Regulation 9-10-502] | N | |
| Part 19 | Allowable operating ranges for S-1478, S-1479, S-1508, S-1760 and S-4021 [basis: Regulation 9-10-502] | N | |
| Part 20 | Maintain fuel flow meter [basis: Regulation 9-10-503] | N | |
| Part 21 | Recordkeeping [basis: Regulation 9-10-503] | N | |

Table IV – CSa
Source-specific Applicable Requirements
S4021 – DCF-13909 DHT RECYCLE

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|--------------------------------|--|-----------------------------|-----------------------|
| NSPS 40 CFR 60 Subpart A | Standards of Performance for New Stationary Sources (12/23/71) | Y | |

IV. Source Specific Applicable Requirements

Table IV—CSa
Source-specific Applicable Requirements
S4021—DC F-13909 DHT RECYCLE

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------------|---|-----------------------------|-----------------------|
| 60.13(i) | Alternatives to any monitoring procedures or requirements | Y | |

Table IV—CT
Source-specific Applicable Requirements
S4031—DC F-14012 HGHT REBOIL
S4141—DC F-14011 HGHT FEED

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---------------------------------|--|-----------------------------|-----------------------|
| | See Table IV—BD for additional requirements. | | |
| BAAQMD Condition # 7618 | | | |
| Part E.2 | Processing limit of San Joaquin Valley Crude [basis: Regulation 2-2-302] | Y | |
| BAAQMD Condition # 12271 | | | |
| Part A | Monthly and annual emission limits [basis: Offsets, Cumulative Increase] | Y | |
| Part B | Applicable sources [basis: Offsets, Cumulative Increase] | Y | |
| Part C | In the case of a process upset or other irregularity [basis: Offsets, Cumulative Increase] | N | |
| Part D | Applicable source test methods [basis: Manual of Procedures, Volume IV] | Y | |
| Part E | Notification of the Source Test Section [basis: Manual of Procedures, Volume IV] | Y | |
| Part G | Source test results [basis: Manual of Procedures Volume IV] | Y | |
| Part J | CEM requirements [basis: Cumulative Increase, Offsets] | Y | |
| Part K | CEM data for compliance verification [basis: BACT, Offsets] | Y | |
| Part L | Recordkeeping [basis: BACT, Offsets, Cumulative Increase] | Y | |

IV. Source Specific Applicable Requirements

Table IV – CT
Source-specific Applicable Requirements
~~S4031 – DC F-14012 HGHT REBOIL~~
~~S4141 – DC F-14011 HGHT FEED~~

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---------------------------------|---|------------------------------------|------------------------------|
| Part M | Monthly reports [basis: Offsets, Cumulative Increase] | Y | |
| Part O | Offsets requirements [basis: Offsets] | Y | |
| Part 15 | Refinery fuel gas limits [basis: BACT] | Y | |
| Part 16 | Continuous gaseous fuel monitor/recorder for H ₂ S [basis: BACT] | Y | |
| Part 16A | Natural gas line connection upstream of CO Boilers [basis: Offsets] | Y | |
| Part 17 | Recordkeeping requirements [basis: Cumulative Emissions] | Y | |
| Part 18 | Fuel usage limitation [basis: Offsets, Cumulative Increase] | Y | |
| Part 19 | ULSD defined [basis: Offsets, Cumulative Increase] | Y | |
| Part 20 | Continuous Fuel Flow Monitor [basis: Offsets, Cumulative Increase] | Y | |
| Part 21 | Calculate and Record Emissions Monthly [basis: Offsets, Cumulative Increase] | Y | |
| Part 22 | Startup and shutdown limits [basis: BACT] | Y | |
| Part 23 | HHV basis [basis: Cumulative Emissions] | Y | |
| Part 35 | Furnaces with SCR NO _x emission limit [basis: BACT] | Y | |
| Part 36 | Furnaces with SCR CO emission limit [basis: BACT] | Y | |
| Part 37 | Furnaces with SCR Ammonia emission limit [basis: BACT] | N | |
| Part 38 | Furnaces with SCR CEM recorder for NO _x and O ₂ [basis: BACT] | Y | |
| Part 105 | Source Test for CO emissions [basis: Regulation 2-6-409.2] | Y | |
| Part 111 | Source Test for NH ₃ emissions [basis: Regulation 2-6-409.2] | N | |
| BAAQMD Condition # 16688 | | | |
| Part 1 | Maximum firing rate [basis: Regulation 2-1-234] | N | |

Table IV – CTa
Source-specific Applicable Requirements
~~S4141 – DC F-14011 HGHT FEED~~

IV. Source Specific Applicable Requirements

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|--------------------------------|--|-----------------------------|-----------------------|
| | See Table IV – BD & CT for additional requirements. | | |
| NSPS 40 CFR 60 Subpart A | Standards of Performance for New Stationary Sources (12/23/71) | | |
| 60.13(i) | Alternatives to any monitoring procedures or requirements | Y | |

Table IV – CU
Source-specific Applicable Requirements
S4161 – DC H-101 HP3 STEAM METHANE REFORMER

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------------|--|-----------------------------|-----------------------|
| BAAQMD Regulation 1 | General Provisions and Definitions 7/19/06 (5/02/01) | Y | |
| 1-520 | Continuous Emission Monitoring | Y | |
| 1-520.8 | Monitors as required by Regulation 10, 12 and Section 2-1-403 | Y | |
| 1-522 | Continuous Emission Monitoring and Recordkeeping Procedures | Y | |
| 1-522.1 | Approval of Plans and Specifications | Y | |
| 1-522.2 | Installation Scheduling | Y | |
| 1-522.3 | CEM Performance Testing | Y | |
| 1-522.4 | Periods of Inoperation | Y | |
| 1-522.5 | Daily Monitor Calibration | Y | |
| 1-522.6 | CEM Maintenance | Y | |
| 1-522.7 | Excess Emissions Reported (Nature, Extent, and Cause) | N | |
| 1-522.8 | Monitoring Data Submittal | Y | |
| 1-522.9 | Records | Y | |
| 1-522.10 | Monitors Required By 1-521 or 2-1-403 | Y | |
| 1-523 | Parametric Monitoring and Recordkeeping Procedures | Y | |
| 1-523.1 | Periods of Inoperation Reported | Y | |
| 1-523.2 | Periods of Inoperation Per Incident | Y | |
| 1-523.3 | Violations of Permit Conditions Reported (Nature, Extent, and Cause) | N | |
| 1-523.4 | Records | Y | |
| 1-523.5 | Maintenace and Calibration Required | N | |
| SIP | PROVISIONS NO LONGER IN CURRENT RULE | | |

IV. Source Specific Applicable Requirements

**Table IV – CU
 Source-specific Applicable Requirements
 S4161 – DC H-101 HP3 STEAM METHANE REFORMER**

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------------------------|--|-----------------------------|-----------------------|
| Regulation 1 | General Provisions and Definitions (6/28/99) | | |
| 1-522.7 | Excess Emissions Reported (Nature, Extent, Cause, and Corrective Action) | Y | |
| 1-523.3 | Violations of Permit Conditions Reported (Nature, Extent, Cause, and Corrective Action) | Y | |
| BAAQMD Regulation 2, Rule 9 | Interchangeable Emission Reduction Credits (6/15/0504/07/99) | | |
| 2-9-302 | Use of IERC's | N | |
| 2-9-303 | Alternative Compliance Plan Using IERC's | N | |
| 2-9-304 | Restrictions on the Use of IERC's | N | |
| 2-9-306 | Environmental Benefit Surcharge | N | |
| 2-9-501 | Monitoring and Record Keeping | N | |
| 2-9-502 | Alternative Compliance Plan Record Keeping and Reporting | N | |
| BAAQMD Regulation 6 Rule 1 | Particulate Matter – General Requirements Particulate Matter and Visible Emissions (12/05/0709/04/98) | | |
| 6-1-301 | Ringelmann No. 1 Limitation | N | |
| 6-1-304 | Tube Cleaning | N | |
| 6-1-305 | Visible Particles | N | |
| 6-1-310 | Particle Weight Limitation | N | |
| 6-1-310.3 | 0.15 grain per dscf at 6% O₂ | N | |
| SIP Regulation 6 | Particulate Matter and Visible Emissions (9/4/98) | | |
| 6-301 | Ringelmann No. 1 Limitation | Y | |
| 6-304 | Tube Cleaning | Y | |
| 6-305 | Visible Particles | Y | |
| 6-310 | Particulate Weight Limitation | Y | |
| 6-310.3 | 0.15 grain per dscf at 6% O₂ | Y | |
| BAAQMD Regulation 9, Rule 3 | Inorganic Gaseous Pollutants - Nitrogen Oxides from Heat Transfer Operations (3/17/82) | | |
| 9-3-303 | New or Modified Heat Transfer Operation Limits | N | |

IV. Source Specific Applicable Requirements

Table IV – CU
Source-specific Applicable Requirements
S4161 – DC H-101 HP3 STEAM METHANE REFORMER

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|-------------------------------------|---|-----------------------------|-----------------------|
| 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 | |
| 9-10-303 | Federal Interim Facility-wide NOx emission rate limit | Y N | |
| 9-10-305 | CO emission limit | N | |
| 9-10-502 | Monitoring | N | |
| 9-10-502.1 | CEMS for NOx, CO, and O2 | N | |
| 9-10-502.2 | Fuel flowmeters | N Y | |
| 9-10-504 | Recordkeeping | N | |
| 9-10-504.1 | For All Sources Subject to 9-10-301, 303, 305 | N | |
| 9-10-505 | Reporting | N | |
| SIP Regulation 9, Rule 10 | Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon Monoxide from Boilers, Steam Generators, and Process Heaters in Petroleum Refineries (3/29/01) | | |
| 9-10-303 | Interim Emission Limit for Facility (Federal Requirements) | Y | |
| 9-10-502 | Monitoring | Y | |
| 40 CFR 60 Subpart A | General Provisions (7/1/2000) | | |
| 60.7 | Notification and record keeping. | Y | |
| 60.8 | Performance tests. | Y | |
| 60.11 | Compliance with standards and maintenance requirements. | Y | |
| 60.11(a) | Performance test | Y | |
| 60.11(d) | Good air pollution control practice for minimizing emissions | Y | |
| 60.11(f) | Special provisions | Y | |
| 60.11(g) | Any credible evidence or information | Y | |
| 60.12 | Circumvention. | 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 | |

IV. Source Specific Applicable Requirements

Table IV – CU
Source-specific Applicable Requirements
S4161 – DC H-101 HP3 STEAM METHANE REFORMER

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---------------------------------|---|-----------------------------|-----------------------|
| 60.13(b) | Continuous monitoring systems and devices operational prior to performance tests required by 60.8 | Y | |
| 60.13(d) | Continuous monitoring system zero and span calibration requirements | Y | |
| 60.13(e) | Continuous monitoring system minimum frequency of operation | Y | |
| 60.13(f) | Continuous monitoring system installation location requirement | Y | |
| 60.13(i) | Alternatives to any monitoring procedures or requirements | Y | |
| 60.19 | General notification and reporting requirements. | Y | |
| 40 CFR 60 Subpart J | Standards of Performance for Petroleum Refineries (8/17/89) | | |
| 60.104 | Standard for Sulfur Oxides | Y | |
| 60.104(a)(1) | Fuel gas H2S limit | 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) | Excess SO ₂ emission definitions for 60.7(c) | Y | |
| 60.106 | Test methods and procedures | Y | |
| 60.106(e) | Method 11 shall be used to verify compliance with 60.104(a)(1) | Y | |
| BAAQMD Condition # 7618 | | | |
| Part E.2 | Processing limit of San Joaquin Valley Crude [basis: Regulation 2-2-302] | Y | |
| BAAQMD Condition # 12271 | | | |
| Part A | Monthly and annual emission limits [basis: Offsets, Cumulative Increase] | Y | |
| Part B | Applicable sources [basis: Offsets, Cumulative Increase] | Y | |
| Part C | In the case of a process upset or other irregularity [basis: Offsets, Cumulative Increase] | N | |
| Part D | Applicable source test methods [basis: Manual of Procedures, Volume IV] | Y | |

IV. Source Specific Applicable Requirements

Table IV – CU
Source-specific Applicable Requirements
S4161 – DC H-101 HP3 STEAM METHANE REFORMER

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---------------------------------|--|-----------------------------|-----------------------|
| Part E | Notification of the Source Test Section [basis: Manual of Procedures, Volume IV] | Y | |
| Part G | Source test results [basis: Manual of Procedures Volume IV] | Y | |
| Part J | CEM requirements [basis: Cumulative Increase, Offsets] | Y | |
| Part K | CEM data for compliance verification [basis: BACT, Offsets] | Y | |
| Part L | Recordkeeping [basis: BACT, Offsets, Cumulative Increase] | Y | |
| Part M | Monthly reports [basis: Offsets, Cumulative Increase] | Y | |
| Part O | Offsets requirements [basis: Offsets] | Y | |
| Part 29 | Hydrogen plant NOx limit [basis: BACT] | Y | |
| Part 30 | Hydrogen plant CO limit [basis: BACT] | Y | |
| Part 31 | Hydrogen plant Abated by A4161 [basis: BACT] | Y | |
| Part 31 | Ammonia emissions limit [basis: BACT] | N | |
| Part 32 | CEM for NOx and O2 [basis: BACT] | Y | |
| Part 33 | Hydrogen plant deaerator vented to S4161 [basis: Regulation 8-2] | Y | |
| Part 34 | Hydrogen plant heat input limit [basis: BACT] | Y | |
| Part 107 | Source Test for Co emissions [basis: Regulation 2-6-409.2] | Y | |
| Part 112 | Source Test for NH ₃ emissions [basis: Regulation 2-6-409.2] | N | |
| BAAQMD Condition # 16688 | | | |
| Part 1 | Maximum firing rate [basis: Regulation 2-1-234] | N | |
| BAAQMD Condition # 18265 | | | |
| Part 1 | Sources subject to Regulation 9-10 (basis: Regulation 9-10-301 & 305) | N | 1/1/05 |
| Part 2 | O2 monitor and recorder requirement (basis: Regulation 9-10-502) | N | 09/01/04 |
| Part 8 | For sources with NOx CEMS, semi-annual source test for CO at as-found conditions (basis: Regulation 9-10-502, 1-522) | N | 1/1/05 |
| Part 10 | Source test records (basis: recordkeeping: Regulation 9-10-504) | N | 1/1/05 |
| Part 11 | CEM for NOx and O2 monitoring [basis: Regulation 9-10-502] | N | 1/1/05 |

IV. Source Specific Applicable Requirements

Table IV – CU
Source-specific Applicable Requirements
S4161 – DC H-101 HP3 STEAM METHANE REFORMER

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|------------------------------------|------------------------------|
| Part 13 | IERC required to comply with Regulation 9-10 [Regulation 2-9-303] | N | |
| Part 14 | Monthly summary of daily actual emissions, daily allowable emissions, and actual NOx emission rate (lb/MM BTU) [basis: Regulation 9-10-504] | N | |
| Part 15 | Monthly sum of daily totals [basis: Regulation 9-10-504] | N | |
| Part 17 | Alternative compliance plan [basis: Regulation 9-10-502] | N | |
| Part 20 | Maintain fuel flow meter [basis: Regulation 9-10-503] | N | |
| Part 21 | Recordkeeping [basis: Regulation 9-10-503] | N | |
| <u>BAAQMD</u> <u>AMP</u> <u>Condiiton #</u> <u>24339</u> | | | |
| Part 1 | <u>Alternative procedures for demonstrating compliance with the 162 ppmv H2S limit in NSPS J 60.104(a)(1).</u> (Basis: Alternative Monitoring Plan, 40 CFR 60.13(i)) | <u>Y</u> | |
| Part 2 | <u>Recordkeeping requirements</u> (Basis: Regulation 2-6-501) | <u>Y</u> | |

IV. Source Specific Applicable Requirements

Table IV - CV
Source-specific Applicable Requirements
S4190 – UTIL BOILER 6 GAS TURBINE 1
S4192 – UTIL BOILER 6 GAS TURBINE 2

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|-----------------------------------|--|-----------------------------|-----------------------|
| BAAQMD Regulation 1 | General Provisions and Definitions (7/19/065/02/01) | Y | |
| 1-520 | Continuous Emission Monitoring | Y | |
| 1-520.8 | Monitors as required by Regulation 10, 12 and Section 2-1-403 | Y | |
| 1-522 | Continuous Emission Monitoring and Recordkeeping Procedures | Y | |
| 1-522.1 | Approval of Plans and Specifications | Y | |
| 1-522.2 | Installation Scheduling | Y | |
| 1-522.3 | CEM Performance Testing | Y | |
| 1-522.4 | Periods of Inoperation | Y | |
| 1-522.5 | Daily Monitor Calibration | Y | |
| 1-522.6 | CEM Maintenance | Y | |
| 1-522.7 | Excess Emissions Reported (Nature, Extent, and Cause) | N | |
| 1-522.8 | Monitoring Data Submittal | Y | |
| 1-522.9 | Records | Y | |
| 1-522.10 | Monitors Required By 1-521 or 2-1-403 | Y | |
| 1-523 | Parametric Monitoring and Recordkeeping Procedures | Y | |
| 1-523.1 | Periods of Inoperation Reported | Y | |
| 1-523.2 | Periods of Inoperation Per Incident | Y | |
| 1-523.3 | Violations of Permit Conditions Reported (Nature, Extent, and Cause) | N | |
| 1-523.4 | Records | Y | |
| 1-523.5 | Maintenace and Calibration Required | N | |
| SIP Regulation 1 | PROVISIONS NO LONGER IN CURRENT RULE General Provisions and Definitions (6/28/99) | | |
| 1-522.7 | Excess Emissions Reported (Nature, Extent, Cause, and Corrective Action) | Y | |
| 1-523.3 | Violations of Permit Conditions Reported (Nature, Extent, Cause, and Corrective Action) | Y | |
| BAAQMD Regulation 6 Rule 1 | Particulate Matter – General Requirements Particulate Matter and Visible Emissions (12/05/07)09/04/98 | | |
| 6-1-301 | Ringelmann No. 1 Limitation | Y N | |

IV. Source Specific Applicable Requirements

Table IV - CV
Source-specific Applicable Requirements
S4190 – UTIL BOILER 6 GAS TURBINE 1
S4192 – UTIL BOILER 6 GAS TURBINE 2

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|--|---|-----------------------------|-----------------------|
| 6-1-305 | Visible Particles | N | |
| 6-1-310 | Particle Weight Limitation | N | |
| 6-1-401 | Appearance of Emissions | N | |
| SIP Regulation 6 | Particulate Matter and Visible Emissions (9/4/98) | | |
| 6-301 | Ringelmann No. 1 Limitation | Y | |
| 6-305 | Visible Particles | Y | |
| 6-310 | Particulate Weight Limitation | Y | |
| 6-401 | Appearance of Emissions | Y | |
| BAAQMD Regulation 9, Rule 9 | Inorganic Gaseous Pollutants - Nitrogen Oxides from Stationary Gas Turbines (12/6/06) | | |
| 9-9-113 | Exemption - Inspection/Maintenance | N | |
| 9-9-114 | Exemption - Startup/Shutdown | N | |
| 9-9-115 | Limited Exemption, Minor Inspection and Maintenance Work | N | |
| 9-9-301 | Emission Limits – General | N | |
| 9-9-301.1,2 | Emission Limits | N | |
| 9-9-301.2 | Alternative NOx Emission Limits for Gas Turbines $\geq 250 - 500 > 500$ MM Btu/hr | N | <u>1/1/2010</u> |
| 9-9-301.3 | Emissions Limits: Turbines that Fire Multiple Fuels | N | |
| 9-9-301.4 | Rebuttal Option for Alternative NOx Emission Limits | N | <u>1/1/2010</u> |
| 9-9-401 | Efficiency Certification | N | |
| 9-9-501 | Continuous Emission Monitoring (CEM) | N | |
| SIP BAAQMD Regulation 9, Rule 9 | Inorganic Gaseous Pollutants - Nitrogen Oxides from Stationary Gas Turbines (12/15/97/21/94) | | |
| 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 | |
| 9-9-401 | Efficiency Certification | Y | |

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Table IV - CV
Source-specific Applicable Requirements
S4190 – UTIL BOILER 6 GAS TURBINE 1
S4192 – UTIL BOILER 6 GAS TURBINE 2

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|--|---|-----------------------------|-----------------------|
| 9-9-501 | Continuous Emission Monitoring (CEM) | Y | |
| NSPS 40 CFR 60 Subpart A | Standards of Performance for New Stationary Sources (12/23/71) | Y | |
| 60.7 | Notification and record keeping | Y | |
| 60.8 | Performance tests | ✗ | |
| 60.11 | Compliance with standards and maintenance requirements | Y | |
| 60.11(a) | Performance test | Y | |
| 60.11(d) | Good air pollution control practice for minimizing emissions | Y | |
| 60.11(f) | Special provisions | Y | |
| 60.11(g) | Any credible evidence or information | Y | |
| 60.12 | Circumvention | Y | |
| 60.13 | Monitoring requirements | 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) | Fuel gas H2S limit | Y | |
| 60.105 | Monitoring of Emissions and Operations | Y | |
| 60.105(a)(3) | SO2 CEMs to demonstrate compliance | 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) | Excess SO ₂ emission definitions for 60.7(c) | Y | |
| 60.106 | Test methods and procedures | Y | |
| 60.106(e) | Method 11 shall be used to verify compliance with 60.104(a)(1) | Y | |
| NSPS 40 CFR 60 Subpart GG; BAAQMD 10-40 | Standards of Performance for Stationary Gas Turbines (02/24/06-1/27/82) | | |

IV. Source Specific Applicable Requirements

Table IV - CV
Source-specific Applicable Requirements
S4190 – UTIL BOILER 6 GAS TURBINE 1
S4192 – UTIL BOILER 6 GAS TURBINE 2

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---------------------------------|--|-----------------------------|-----------------------|
| 60.333 | Performance Standards, SO2 | Y | |
| 60.333 (b) | Fuel Sulfur Limit | Y | |
| 60.334 | Monitoring Requirements | Y | |
| 60.334 (b) | Fuel Sulfur and Nitrogen Content | Y | |
| 60.334 (c) | Excess Emissions | Y | |
| 60.334(h) | Fuel Sulfur Content | Y | |
| 60.334(h)(3) | <u>Fuel sulfur content monitoring not required for natural gas-only firing conditions</u> | Y | |
| 60.334(j) | Excess emission reporting per 60.7(c) | Y | |
| 60.334(j)(5) | <u>Excess emission reports due the 30th day following end of each calendar quarter</u> | Y | |
| 60.335 | Test Methods and Procedures | Y | |
| BAAQMD Condition # 7618 | | | |
| Part E | Fuel Conditions | Y | |
| Part E.2 | Processing limit of San Joaquin Valley Crude [basis: Regulation 2-2-302] | Y | |
| BAAQMD Condition # 12271 | | | |
| Part A | Monthly and annual emission limits [basis: Offsets, Cumulative Increase] | Y | |
| Part B | Applicable sources [basis: Offsets, Cumulative Increase] | Y | |
| Part C | In the case of a process upset or other irregularity [basis: Offsets, Cumulative Increase] | N | |
| Part D | Applicable source test methods [basis: Manual of Procedures, Volume IV] | Y | |
| Part E | Notification of the Source Test Section [basis: Manual of Procedures, Volume IV] | Y | |
| Part G | Source test results [basis: Manual of Procedures Volume IV] | Y | |
| Part J | CEM requirements [basis: Cumulative Increase, Offsets] | Y | |

IV. Source Specific Applicable Requirements

Table IV - CV
Source-specific Applicable Requirements
S4190 – UTIL BOILER 6 GAS TURBINE 1
S4192 – UTIL BOILER 6 GAS TURBINE 2

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---------------------------------|---|-----------------------------|-----------------------|
| Part K | CEM data for compliance verification [basis: BACT, Offsets] | Y | |
| Part L | Recordkeeping [basis: BACT, Offsets, Cumulative Increase] | Y | |
| Part M | Monthly reports [basis: Offsets, Cumulative Increase] | Y | |
| Part O | Offsets requirements [basis: Offsets] | Y | |
| Part 15 | Refinery fuel gas limits [basis: BACT] | Y | |
| Part 16 | Continuous gaseous fuel monitor/recorder for H2S [basis: BACT] | Y | |
| Part 16A | Natural gas line connection upstream of CO Boilers [basis: Offsets] | Y | |
| Part 17 | Recordkeeping requirements [basis: Cumulative Emissions] | Y | |
| Part 18 | Fuel usage limitation [basis: Offsets, Cumulative Increase] | Y | |
| Part 19 | ULSD defined [basis: Offsets, Cumulative Increase] | Y | |
| Part 20 | Continuous Fuel Flow Monitor [basis: Offsets, Cumulative Increase] | Y | |
| Part 21 | Calculate and Record Emissions Monthly [basis: Offsets, Cumulative Increase] | Y | |
| Part 22 | Startup and shutdown limits [basis: BACT] | Y | |
| Part 23 | HHV basis [basis: Cumulative Emissions] | Y | |
| Part 24a | Cogeneration Power Plant fuel usage limit & install SO2 CEM [basis: Offsets, Cumulative Increase] | Y | |
| Part 24b | Cogeneration Power Plant Emission Limits [basis: Offsets, Cumulative Increase] | Y | |
| Part 24c | NOx limits for gas turbines and HRG boiler pairs [basis: BACT] | Y | |
| Part 25a | CO limits for gas turbines and HRG boiler pairs [basis: BACT] | Y | |
| Part 25b | POC emission limits for gas turbines and HRG boiler pairs [basis: BACT] | Y | |
| Part 26 | Ammonia emission limits for gas turbines and HRG boiler pairs [basis: BACT] | N | |
| Part 27 | CEMs for NOx and O2 and water to fuel ratio monitor [basis: BACT] | Y | |
| Part 108 | Source Test for CO emissions [basis: Regulation 2-6-409.2] | Y | |
| Part 113 | Source Test for NH ₃ emissions [basis: Regulation 2-6-409.2] | N | |
| Part 114 | Source Test for VOC emissions [basis: Regulation 2-6-409.2] | Y | |
| BAAQMD Condition # 18618 | | | |

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Table IV - CV
Source-specific Applicable Requirements
S4190 – UTIL BOILER 6 GAS TURBINE 1
S4192 – UTIL BOILER 6 GAS TURBINE 2

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|-------------------------------|--|------------------------------------|------------------------------|
| Part 1 | Throughput limit (basis: Regulation 2-1-234.3) | N | |
| Part 2 | Recordkeeping (basis: Regulation 2-1-234.3) | N | |
| Part 3 | Visible emissions inspection (basis: Regulation 2-6-409.2) | Y | |
| Part 4 | Fuel certification (basis: Regulation 2-6-409.2) | Y | |
| Part 7 | Recordkeeping (basis: Regulation 2-6-409.2) | Y | |

IV. Source Specific Applicable Requirements

Table IV – CW
Source-specific Applicable Requirements
S4191 – UTIL BOILER 6 SUPPLEMENTAL STEAM GENERATOR 1
S4193 – UTIL BOILER 6 SUPPLEMENTAL STEAM GENERATOR 2

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|-----------------------------------|--|-----------------------------|-----------------------|
| BAAQMD Regulation 1 | General Provisions and Definitions (7/19/065/02/01) | Y | |
| 1-520 | Continuous Emission Monitoring | Y | |
| 1-520.8 | Monitors as required by Regulation 10, 12 and Section 2-1-403 | Y | |
| 1-522 | Continuous Emission Monitoring and Recordkeeping Procedures | Y | |
| 1-522.1 | Approval of Plans and Specifications | Y | |
| 1-522.2 | Installation Scheduling | Y | |
| 1-522.3 | CEM Performance Testing | Y | |
| 1-522.4 | Periods of Inoperation | Y | |
| 1-522.5 | Daily Monitor Calibration | Y | |
| 1-522.6 | CEM Maintenance | Y | |
| 1-522.7 | Excess Emissions Reported (Nature, Extent, and Cause) | N | |
| 1-522.8 | Monitoring Data Submittal | Y | |
| 1-522.9 | Records | Y | |
| 1-522.10 | Monitors Required By 1-521 or 2-1-403 | Y | |
| 1-523 | Parametric Monitoring and Recordkeeping Procedures | Y | |
| 1-523.1 | Periods of Inoperation Reported | Y | |
| 1-523.2 | Periods of Inoperation Per Incident | Y | |
| 1-523.3 | Violations of Permit Conditions Reported (Nature, Extent, and Cause) | N | |
| 1-523.4 | Records | Y | |
| 1-523.5 | Maintenace and Calibration Required | N | |
| SIP Regulation 1 | PROVISIONS NO LONGER IN CURRENT RULE General Provisions and Definitions (6/28/99) | | |
| 1-522.7 | Excess Emissions Reported (Nature, Extent, Cause, and Corrective Action) | Y | |
| 1-523.3 | Violations of Permit Conditions Reported (Nature, Extent, Cause, and Corrective Action) | Y | |
| BAAQMD Regulation 6 Rule 1 | Particulate Matter – General Requirements Particulate Matter and Visible Emissions (12/05/07)09/04/98 | | |
| 6-1-301 | Ringelmann No. 1 Limitation | Y N | |

IV. Source Specific Applicable Requirements

Table IV – CW
Source-specific Applicable Requirements
S4191 – UTIL BOILER 6 SUPPLEMENTAL STEAM GENERATOR 1
S4193 – UTIL BOILER 6 SUPPLEMENTAL STEAM GENERATOR 2

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|--|---|-----------------------------|-----------------------|
| 6-1-304 | Tube Cleaning | N | |
| 6-1-305 | Visible Particles | N | |
| 6-1-310 | Particle Weight Limitation | N | |
| 6-1-310.3 | 0.15 grain per dscf at 6% O ₂ | N | |
| 6-1-401 | Appearance of Emissions | N | |
| SIP Regulation 6 | Particulate Matter and Visible Emissions (9/4/98) | | |
| 6-301 | Ringelmann No. 1 Limitation | Y | |
| 6-304 | Tube Cleaning | Y | |
| 6-305 | Visible Particles | Y | |
| 6-310 | Particulate Weight Limitation | Y | |
| 6-310.3 | 0.15 grain per dscf at 6% O ₂ | Y | |
| 6-401 | Appearance of Emissions | Y | |
| SIP BAAQMD Regulation 9, Rule 9 | Inorganic Gaseous Pollutants – Nitrogen Oxides from Stationary Gas Turbines (12/15/97/21/94) | | |
| 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 | |
| 9-9-401 | Efficiency Certification | Y | |
| 9-9-501 | Continuous Emission Monitoring (CEM) | Y | |
| NSPS 40 CFR 60 Subpart A | Standards of Performance for New Stationary Sources (12/23/71) | Y | |
| 60.7 | Notification and record keeping | Y | |
| 60.8 | Performance tests | Y | |
| 60.11 | Compliance with standards and maintenance requirements | Y | |
| 60.11(a) | Performance test | Y | |
| 60.11(d) | Good air pollution control practice for minimizing emissions | Y | |
| 60.11(f) | Special provisions | Y | |

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Table IV – CW
Source-specific Applicable Requirements
S4191 – UTIL BOILER 6 SUPPLEMENTAL STEAM GENERATOR 1
S4193 – UTIL BOILER 6 SUPPLEMENTAL STEAM GENERATOR 2

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|--|-----------------------------|-----------------------|
| 60.11(g) | Any credible evidence or information | Y | |
| 60.12 | Circumvention | Y | |
| 60.13 | Monitoring requirements | Y | |
| 60.19 | General notification and reporting requirements | Y | |
| NSPS 40 CFR 60 Subpart Db; BAAQMD 10-4 | Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units (06/13/07343/00) | | |
| 60.43b | PM Standard | Y | |
| 60.43b(e) | <u>Annual Capacity Factor Calculation</u> | Y | |
| 60.43b(f) | Oil-fired: 20% opacity and 27% opacity for 6 min/hr | Y | |
| 60.43b(g) | PM and Opacity standards applicable at all times, except during startup, shutdown, or malfunction | Y | |
| 60.44b(a) | NOx Standard | Y | |
| 60.44b(a)(4) | NOx standard for duct burner used in combined cycle system | 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. | Y | |
| 60.44b(h) | NOx standard applicable at all times | Y | |
| 60.44b(i) | 24-hour rolling average | Y | |
| 60.46b | Compliance/Performance test Methods for PM and NOx | Y | |
| 60.48b | Emission Monitoring for Particulate Matter and NOx | Y | |
| 60.48b(a) | Opacity CEM if subject to 60.43b | Y | |
| 60.48b(h) | NOx CEM not required if subject to §60.44b(a)(4) | Y | |
| 60.49b | Reporting and Recordkeeping | Y | |
| 60.49b(a) | Submit notification of date of initial startup | Y | |
| 60.49b(b) | Initial performance test data and CEMS performance evaluation | Y | |
| 60.49b(d) | Recordkeeping | Y | |
| 60.49b(f) | Opacity records | Y | |
| 60.49b(g) | NOx emission records | Y | |
| 60.49b(h) | Excess Opacity reports | Y | |
| 60.49b(o) | Recordkeeping | Y | |

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Table IV – CW
Source-specific Applicable Requirements
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S4193 – UTIL BOILER 6 SUPPLEMENTAL STEAM GENERATOR 2

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|-----------------------------|-----------------------|
| 60.49b(v) | Electronic reports of opacity | Y | |
| 60.49b(w) | Reporting period for reports | 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) | Fuel gas H2S limit | Y | |
| 60.105 | Monitoring of Emissions and Operations | Y | |
| 60.105(a)(3) | SO2 CEMs to demonstrate compliance | 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) | Excess SO ₂ emission definitions for 60.7(c) | Y | |
| 60.106 | Test methods and procedures | Y | |
| 60.106(e) | Method 11 shall be used to verify compliance with 60.104(a)(1) | Y | |
| BAAQMD Condition # 7618 | | | |
| Part E | Fuel Conditions | Y | |
| Part E.2 | Processing limit of San Joaquin Valley Crude [basis: Regulation 2-2-302] | Y | |
| BAAQMD Condition # 12271 | | | |
| Part A | Monthly and annual emission limits [basis: Offsets, Cumulative Increase] | Y | |
| Part B | Applicable sources [basis: Offsets, Cumulative Increase] | Y | |
| Part C | In the case of a process upset or other irregularity [basis: Offsets, Cumulative Increase] | N | |
| Part D | Applicable source test methods [basis: Manual of Procedures, Volume IV] | Y | |
| Part E | Notification of the Source Test Section [basis: Manual of Procedures, Volume IV] | Y | |

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Table IV – CW
Source-specific Applicable Requirements
S4191 – UTIL BOILER 6 SUPPLEMENTAL STEAM GENERATOR 1
S4193 – UTIL BOILER 6 SUPPLEMENTAL STEAM GENERATOR 2

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------------|---|-----------------------------|-----------------------|
| Part G | Source test results [basis: Manual of Procedures Volume IV] | Y | |
| Part J | CEM requirements [basis: Cumulative Increase, Offsets] | Y | |
| Part K | CEM data for compliance verification [basis: BACT, Offsets] | Y | |
| Part L | Recordkeeping [basis: BACT, Offsets, Cumulative Increase] | Y | |
| Part M | Monthly reports [basis: Offsets, Cumulative Increase] | Y | |
| Part O | Offsets requirements [basis: Offsets] | Y | |
| Part 15 | Refinery fuel gas limits [basis: BACT] | Y | |
| Part 16 | Continuous gaseous fuel monitor/recorder for H2S [basis: BACT] | Y | |
| Part 16A | Natural gas line connection upstream of CO Boilers [basis: Offsets] | Y | |
| Part 17 | Recordkeeping requirements [basis: Cumulative Emissions] | Y | |
| Part 18 | Fuel usage limitation [basis: Offsets, Cumulative Increase] | Y | |
| Part 19 | ULSD defined [basis: Offsets, Cumulative Increase] | Y | |
| Part 20 | Continuous Fuel Flow Monitor [basis: Offsets, Cumulative Increase] | Y | |
| Part 21 | Calculate and Record Emissions Monthly [basis: Offsets, Cumulative Increase] | Y | |
| Part 22 | Startup and shutdown limits [basis: BACT] | Y | |
| Part 23 | HHV basis [basis: Cumulative Emissions] | Y | |
| Part 24a | Cogeneration Power Plant fuel usage limit & install SO2 CEM [basis: Offsets, Cumulative Increase] | Y | |
| Part 24b | Cogeneration Power Plant Emission Limits [basis: Offsets, Cumulative Increase] | Y | |
| Part 24c | NOx limits for gas turbines and HRG boiler pairs [basis: BACT] | Y | |
| Part 25a | CO limits for gas turbines and HRG boiler pairs [basis: BACT] | Y | |
| Part 25b | POC emission limits for gas turbines and HRG boiler pairs [basis: BACT] | Y | |
| Part 26 | Ammonia emission limits for gas turbines and HRG boiler pairs [basis: BACT] | N | |
| Part 27 | CEMs for NOx and O2 and water to fuel ratio monitor [basis: BACT] | Y | |
| Part 108 | Source Test for CO emissions [basis: Regulation 2-6-409.2] | Y | |
| Part 113 | Source Test for NH ₃ emissions [basis: Regulation 2-6-409.2] | N | |
| Part 114 | Source Test for VOC emissions [basis: Regulation 2-6-409.2] | Y | |
| BAAQMD | | | |

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Table IV – CW
Source-specific Applicable Requirements
S4191 – UTIL BOILER 6 SUPPLEMENTAL STEAM GENERATOR 1
S4193 – UTIL BOILER 6 SUPPLEMENTAL STEAM GENERATOR 2

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------------|--|-----------------------------|-----------------------|
| Condition # 18618 | | | |
| Part 1 | Throughput limit (basis: Regulation 2-1-234.3) | <u>N</u> | |
| Part 2 | Recordkeeping (basis: Regulation 2-1-234.3) | <u>N</u> | |
| Part 3 | Visible emissions inspection (basis: Regulation 2-6-409.2) | Y | |
| Part 4 | Fuel certification (basis: Regulation 2-6-409.2) | Y | |
| Part 6 | Visible emission inspection during tube cleaning (basis: Regulation 2-6-409.2) | Y | |
| Part 7 | Recordkeeping (basis: Regulation 2-6-409.2) | Y | |

Table IV - CX
Source-specific Applicable Requirements
S4201 – DC Clean Fuels Flare

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|----------------------------|--|-----------------------------|-----------------------|
| BAAQMD Regulation 6 Rule 1 | Particulate Matter – General Requirements Particulate Matter and Visible Emissions (12/05/0709/04/98) | | |
| 6-1-301 | Ringelmann No. 1 Limitation | N | |
| 6-1-305 | Visible Particles | N | |
| 6-1-310 | Particulate Weight Limitation | N | |
| SIP Regulation 6 | Particulate Matter and Visible Emissions (9/4/98) | | |
| 6-301 | Ringelmann No. 1 Limitation | Y | |
| 6-305 | Visible Particles | Y | |
| 6-310 | Particulate Weight Limitation | Y | |

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Table IV - CX
Source-specific Applicable Requirements
S4201 – DC Clean Fuels Flare

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------------------------|---|-----------------------------|-----------------------|
| BAAQMD Regulation 8, Rule 1 | Organic Compounds - General Provisions (6/15/94) | | |
| 8-1-110 | Exemptions | Y | |
| 8-1-110.3 | Reduction due to incineration | Y | |
| BAAQMD Regulation 12-11 | Flare Monitoring at Petroleum Refineries (06/04/03) | | |
| 12-11-401 | Flare Data Reporting Requirements | N | |
| 12-11-402 | Flow Verification Report | N | 6/4/04 |
| 12-11-501 | Vent Gas Flow Monitoring | N | 12/4/04 |
| 12-11-502 | Vent Gas Composition Monitoring | N | |
| 12-11-502.3 | Vent Gas Composition Monitoring | N | 03/4/04 |
| 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 | 09/4/04 |
| 12-11-507 | Video Monitoring | N | 12/4/03 |
| NSPS 40 CFR 60 Subpart A | New Source Performance Standards – General Provisions (12/23/71) | | |
| 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 | |
| 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 flare used only for upsets or emergency malfunctions Fuel gas H2S limit | Y | |
| <u>60.105</u> | <u>Monitoring of Emissions and Operations</u> | <u>Y</u> | |

IV. Source Specific Applicable Requirements

Table IV - CX
Source-specific Applicable Requirements
S4201 – DC Clean Fuels Flare

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---------------------------------|--|-----------------------------|-----------------------|
| 60.105(a)(4) | <u>monitoring requirement for H2S (dry basis) in fuel gas prior to combustion (in lieu of separate combustion device exhaust SO2 monitors as required by 60.105(a)(3))</u> | <u>Y</u> | |
| 60.105(e)(3) | <u>Excess SO₂ emission definitions for 60.7(c)</u> | <u>Y</u> | |
| 60.106 | <u>Test methods and procedures</u> | <u>Y</u> | |
| 60.106(e) | <u>Method 11 shall be used to verify compliance with 60.104(a)(1)</u> | <u>Y</u> | |
| BAAQMD Condition # 12271 | | | |
| Part A | Monthly and annual emission limits [basis: Offsets, Cumulative Increase] | Y | |
| Part B | Applicable sources [basis: Offsets, Cumulative Increase] | Y | |
| Part C | In the case of a process upset or other irregularity [basis: Offsets, Cumulative Increase] | N | |
| Part L | Recordkeeping [basis: BACT, Offsets, Cumulative Increase] | Y | |
| Part M | Monthly reports [basis: Offsets, Cumulative Increase] | Y | |
| Part 57 | Prevention of smoke [basis: BACT] | Y | |
| Part 60 | Natural gas or LPG fueled flare pilots [basis: BACT] | Y | |
| Part 61 | Hydrocarbon destruction efficiency [basis: BACT] | Y | |
| BAAQMD Condition # 18618 | | | |
| Part 12 | Flare throughput limit (basis: Regulations 8-1-110.3; 2-1-403) | <u>Y</u> | 01/01/05 |
| Part 13 | Flaring recordkeeping requirements (basis: Regulations 8-1-110.3; 2-6-409.2; 2-6-501) | <u>Y</u> | 01/01/05 |
| Part 14 | Inspection of flaring requirements (basis: Regulation 2-6-4092.) | <u>Y</u> | 01/01/05 |
| Part 15 | Inspection procedures (basis: Regulation 6-1-301; 2-1-403) | Y <u>N</u> | 01/01/05 |
| Part 16 | Visual inspection requirements (basis: Regulation 2-6-403) | <u>Y</u> | 01/01/05 |
| Part 17 | Recordkeeping requirements for flaring events (basis: Regulation 2-6-501; 2-6-409.2) | <u>Y</u> | 01/01/05 |

IV. Source Specific Applicable Requirements

Table IV - CX
Source-specific Applicable Requirements
S4201 – DC Clean Fuels Flare

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------------|---|-----------------------------|-----------------------|
| Part 19 | Upset gas limitation (basis: 60.104(a)(1); Regulation 2-1-403) | Y | 01/01/05 |
| Part 18 | Flexigas flare requirements (basis: Regulation 2-6-501; 2-6-409.2) | Y | 01/01/05 |
| Part 19 | Upset gas limitation (basis: 60.104(a)(1); Regulation 2-1-403) | Y | 01/01/05 |

Table IV – CY
Source-specific Applicable Requirements
S4210 – COOLING WATER TOWER (CWT-13278)

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|-----------------------------------|--|-----------------------------|-----------------------|
| BAAQMD Regulation 1 | General Provisions and Definitions (7/19/0605/02/2001) | | |
| 1-523 | Parametric Monitoring and Recordkeeping Procedures | Y | |
| 1-523.1 | Periods of Inoperation Reported | Y | |
| 1-523.2 | Periods of Inoperation Per Incident | Y | |
| 1-523.3 | Violations of Permit Conditions Reported (Nature, Extent, and Cause) | N | |
| 1-523.4 | Records | Y | |
| 1-523.5 | Maintenace and Calibration Required | N | |
| SIP Regulation 1 | PROVISIONS NO LONGER IN CURRENT RULE General Provisions and Definitions (6/28/99) | | |
| 1-523.3 | Violations of Permit Conditions Reported (Nature, Extent, Cause, and Corrective Action) | Y | |
| BAAQMD Regulation 6 Rule 1 | Particulate Matter – General Requirements Particulate Matter and Visible Emissions (12/05/0709/04/98) | | |
| 6-1-301 | Ringelmann No. 1 Limitation | N | |
| 6-1-305 | Visible Particles | N | |
| 6-1-310 | Particle Weight Limitation | N | |

IV. Source Specific Applicable Requirements

Table IV – CY
Source-specific Applicable Requirements
S4210 – COOLING WATER TOWER (CWT-13278)

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---------------------------------|--|-----------------------------|-----------------------|
| 6-1-311 | General Operations (process weight rate limitation) | N | |
| 6-1-401 | Appearance of Emissions | N | |
| SIP Regulation 6 | Particulate Matter and Visible Emissions (9/4/98) | | |
| 6-301 | Ringelmann No. 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 # 12271 | | | |
| Part A | Monthly and annual emission limits [basis: Offsets, Cumulative Increase] | Y | |
| Part B | Applicable sources [basis: Offsets, Cumulative Increase] | Y | |
| Part C | In the case of a process upset or other irregularity [basis: Offsets, Cumulative Increase] | N | |
| Part L | Recordkeeping [basis: BACT, Offsets, Cumulative Increase] | Y | |
| Part M | Monthly reports [basis: Offsets, Cumulative Increase] | Y | |
| Part 55 | Continuous hydrocarbon analyzer/recorder [basis: BACT] | Y | |

IV. Source Specific Applicable Requirements

Table IV – CZ
Source-specific Applicable Requirements
S4211 - DC V-13222 ISOM MAINTENANCE DROP OUT VESSEL
S4212 - DC V-13441 ISOM MAINTENANCE DROP OUT VESSEL

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|-------------------------------------|---|-----------------------------|-----------------------|
| BAAQMD Regulation 8, Rule 10 | Organic Compound – 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 Compound – Process Vessel Depressurization (7/20/83) | | |
| 8-10-301 | Process Vessel Depressurizing. | 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. | 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 | |

IV. Source Specific Applicable Requirements

Table IV – CZ
Source-specific Applicable Requirements
S4211 - DC V-13222 ISOM MAINTENANCE DROP OUT VESSEL
S4212 - DC V-13441 ISOM MAINTENANCE DROP OUT VESSEL

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|--|-----------------------------|-----------------------|
| NESHAP 40 CFR 61 Subpart FF; BAAQMD 11-12 | National Emission Standard for Benzene Waste Operations (3/7/90) | | |
| 61.343 | Standards: Tanks | Y | |
| 61.343(a)(1) | Owner/operator shall install, operate, and maintain a fixed-roof and closed-vent system that routes all organic vapors vented from the tank to a control device. | Y | |
| 61.343(a)(1)(i) | Fixed Roof leak requirements - < 500 ppmv above background, determined initially then annually by method in 61.355(h) of this subpart. | Y | |
| 61.343(a)(1)(ii) | Closed-vent system and control device designed and operated in accordance with 61.349 of this subpart | Y | |
| 61.343(b) | For a tank that meets all of the conditions of paragraph (b)(1), the owner/operator may elect to comply with paragraph (b)(2) as an alternative to the requirements of (a)(1). | Y | |
| 61.343(b)(1) | The waste managed in the tank complying with (b)(2) shall meet all of the following conditions: wastestream managed in the tank must have a flow-weighted annual average water content less than or equal to 10% water, on a volume basis and the waste managed in the tank either: has a maximum organic vapor pressure less than 0.75 psi, or has a maximum organic vapor pressure less than 4.0 psi and is managed in a tank less than 40,000 gallons, or has a maximum organic vapor pressure less than 11.1 psi and is managed in a tank having a design capacity less than 20,000 gallons. | Y | |
| 61.343(b)(2) | Owner/operator shall install, operate, and maintain a fixed roof as specified in paragraph (a)(1)(i). | Y | |
| 61.343(b)(3) | may use devices that vent directly to atmosphere provided the devices are closed, sealed during normal operations except when the device needs to open to prevent damage or deformation of the tank or cover. | Y | |

IV. Source Specific Applicable Requirements

Table IV – CZ
Source-specific Applicable Requirements
S4211 - DC V-13222 ISOM MAINTENANCE DROP OUT VESSEL
S4212 - DC V-13441 ISOM MAINTENANCE DROP OUT VESSEL

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|--|--|-----------------------------|-----------------------|
| 61.343(c) | Inspect all fixed-roof, seal, access doors, and all other openings visually initially and quarterly for cracks and gaps and that doors and openings are closed and gasketed properly. | Y | |
| 61.343(d) | When a broken seal or gasket is identified, or when detectable emissions are measured, first efforts at repair shall be made as soon as practicable, but not later than 45 calendar days after identification. | Y | |
| 61.350 | Delay of Repair | Y | |
| 61.355 | Test methods, procedures and compliance provisions | Y | |
| 61.356 | Recordkeeping requirements | Y | |
| 61.357 | Reporting requirements | Y | |
| 61.357(d) | reporting requirements for facilities with 10 Mg/yr or more total benzene in waste | Y | |
| 61.357(d)(8) | Reporting requirements | Y | |
| MACT 40 CFR 63 Subpart CC | National Emissions Standards for Hazardous Air Pollutants from Petroleum Refineries (8/18/95/23/036/30/10) | | |
| 63.647 | Wastewater provisions | Y | |
| 63.647(a) | Owners/operators of Group 1 wastewater streams shall comply with section 61.340 to 61.355 of 40 CFR 61, subpart FF for each stream that meets the definition of 63.641 | Y | |
| 63.654/655 | Reporting and recordkeeping requirements | Y | |
| 63.654/655(a) | Owners/operators subject to the wastewater provisions of 63.647 shall comply with the recordkeeping and reporting requirements of 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 | |
| 63.655(i)(5) | <u>All information required to be reported under 63.655(a) through (h) shall be retained for 5 years.</u> | Y | |
| BAAQMD Condition # 12271 | | | |
| Part A | Monthly and annual emission limits [basis: Offsets, Cumulative Increase] | Y | |
| Part B | Applicable sources [basis: Offsets, Cumulative Increase] | Y | |

IV. Source Specific Applicable Requirements

Table IV – CZ
Source-specific Applicable Requirements
S4211 - DC V-13222 ISOM MAINTENANCE DROP OUT VESSEL
S4212 - DC V-13441 ISOM MAINTENANCE DROP OUT VESSEL

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------------|--|-----------------------------|-----------------------|
| Part C | In the case of a process upset or other irregularity [basis: Offsets, Cumulative Increase] | N | |
| Part L | Recordkeeping [basis: BACT, Offsets, Cumulative Increase] | Y | |
| Part M | Monthly reports [basis: Offsets, Cumulative Increase] | Y | |
| Part N | Process vessel depressurization requirements [basis: BACT] | Y | |
| Part O | Offsets requirements [basis: Offsets] | Y | |
| Part 52 | Enclosed and vapor-tight and vented to S4201 [basis: BACT] | Y | |
| Part 53 | MDO Vessel Requirements [basis: BACT] | Y | |

Table IV – DAa
Source-specific Applicable Requirements
S1802 - LOGV-1533 ODORANT STORAGE TANK
S4311 - DC V-12555 ISOM PERCHLOROETHYLENE VESSEL,
S4329 - TANK 13260 PENTANE, S4330 – TANK 13261 PENTANE,
S4349 - TANK 13262 PENTANE

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Notes |
|-------------------------------------|---|-----------------------------|-------|
| BAAQMD Regulation 8, Rule 10 | Organic Compound – 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 | |

IV. Source Specific Applicable Requirements

Table IV – DAa
Source-specific Applicable Requirements
S1802 - LOGV-1533 ODORANT STORAGE TANK
S4311 - DC V-12555 ISOM PERCHLOROETHYLENE VESSEL,
S4329 - TANK 13260 PENTANE, S4330 – TANK 13261 PENTANE,
S4349 - TANK 13262 PENTANE

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Notes |
|----------------------------------|---|-----------------------------|-------|
| 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 Compound – Process Vessel Depressurization (7/20/83) | | |
| 8-10-301 | Process Vessel Depressurizing. | 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. | 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 # 12271 | <u>Applies to S4311, S4329, S4330 and S4349</u> | | |
| <u>Part A</u> | <u>Monthly and annual emission limits [basis: Offsets, Cumulative Increase]</u> | <u>Y</u> | |
| <u>Part B</u> | <u>Applicable sources [basis: Offsets, Cumulative Increase]</u> | <u>Y</u> | |
| <u>Part C</u> | <u>In the case of a process upset or other irregularity [basis: Offsets, Cumulative Increase]</u> | <u>N</u> | |
| <u>Part L</u> | <u>Recordkeeping [basis: BACT, Offsets, Cumulative Increase]</u> | <u>Y</u> | |
| <u>Part M</u> | <u>Monthly reports [basis: Offsets, Cumulative Increase]</u> | <u>Y</u> | |
| <u>Part N</u> | <u>Process vessel depressurization requirements [basis: BACT]</u> | <u>Y</u> | |
| <u>Part O</u> | <u>Offsets requirements [basis: Offsets]</u> | <u>Y</u> | |
| <u>Part 46</u> | <u>Pressure tank requirement [basis: BACT]</u> | <u>Y</u> | |

IV. Source Specific Applicable Requirements

~~Table IV – DAb~~
~~Source-specific Applicable Requirements~~
~~S4311 – DC V 12555 ISOM PERCHLOROETHYLENE VESSEL,~~
~~S4329 – TANK 13260 PENTANE, S4330 – TANK 13261 PENTANE,~~
~~S4349 – TANK 13262 PENTANE~~

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Notes |
|-------------------------------------|---|-----------------------------|-------|
| BAAQMD Condition # 12271 | | | |
| Part A | Monthly and annual emission limits [basis: Offsets, Cumulative Increase] | Y | |
| Part B | Applicable sources [basis: Offsets, Cumulative Increase] | Y | |
| Part C | In the case of a process upset or other irregularity [basis: Offsets, Cumulative Increase] | N | |
| Part L | Recordkeeping [basis: BACT, Offsets, Cumulative Increase] | Y | |
| Part M | Monthly reports [basis: Offsets, Cumulative Increase] | Y | |
| Part N | Process vessel depressurization requirements [basis: BACT] | Y | |
| Part O | Offsets requirements [basis: Offsets] | Y | |
| Part 46 | Pressure tank requirement [basis: BACT] | Y | |
| Part 51 | Degassing abatement requirement [basis: BACT] | Y | |

~~Table IV – DB~~
~~Source-specific Applicable Requirements~~
~~S4322 – TANK 14571 SOUR WATER~~

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Notes |
|-------------------------------------|---|-----------------------------|-------|
| | See Table IV – R & W for additional requirements. | | |
| BAAQMD Condition # 12271 | | | |
| Part A | Monthly and annual emission limits [basis: Offsets, Cumulative Increase] | Y | |
| Part B | Applicable sources [basis: Offsets, Cumulative Increase] | Y | |
| Part C | In the case of a process upset or other irregularity [basis: Offsets, Cumulative Increase] | N | |
| Part L | Recordkeeping [basis: BACT, Offsets, Cumulative Increase] | Y | |

IV. Source Specific Applicable Requirements

~~Table IV – DB
 Source-specific Applicable Requirements
 S4322 – TANK 14571 SOUR WATER~~

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Notes |
|------------------------|---|-----------------------------|-------|
| Part M | Monthly reports [basis: Offsets, Cumulative Increase] | Y | |
| Part O | Offsets requirements [basis: Offsets] | Y | |
| Part 45 | Seal requirements [basis: BACT] | Y | |
| Part 51 | Degassing abatement requirement [basis: BACT] | Y | |

**Table IV – DD
 Source-specific Applicable Requirements
 S4338 – LOG PENTANE LOADING FACILITY**

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Notes |
|---------------------------------|--|-----------------------------|-------|
| <u>Regulation 8 Rule 6</u> | <u>Organic Compounds - Organic Liquid Bulk Terminals and Bulk Plants (02/02/94)</u> | | |
| <u>8-6-117</u> | <u>Exemption, Liquefied Organic Gases</u> | <u>Y</u> | |
| BAAQMD Condition # 12271 | | | |
| Part A | Monthly and annual emission limits [basis: Offsets, Cumulative Increase] | Y | |
| Part B | Applicable sources [basis: Offsets, Cumulative Increase] | Y | |
| Part C | In the case of a process upset or other irregularity [basis: Offsets, Cumulative Increase] | N | |
| Part L | Recordkeeping [basis: BACT, Offsets, Cumulative Increase] | Y | |
| Part M | Monthly reports [basis: Offsets, Cumulative Increase] | Y | |
| Part O | Offsets requirements [basis: Offsets] | Y | |
| Part 74 | Loading requirements [basis: BACT] | Y | |

**Table IV - DE
 Source-specific Applicable Requirements
 S4347 – OPCEN PIT FOR SULFUR PLANT 4**

IV. Source Specific Applicable Requirements

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|----------------------------|--|-----------------------------|-----------------------|
| BAAQMD Regulation 6 Rule 1 | Particulate Matter – General Requirements Particulate Matter and Visible Emissions (12/05/0709/04/98) | | |
| 6-1-301 | Ringelmann Number 1 Limitation | Y N | |
| 6-1-305 | Visible Particles | Y N | |
| 6-1-310 | Particulate Weight Limitation | Y N | |
| 6-1-311 | General Operations (process weight rate limitation) | Y N | |
| 6-1-330 | Sulfur Recovery Units (SO3, H2SO4 emission limitations) | Y N | |
| 6-1-401 | Appearance of Emissions | Y N | |
| BAAQMD Condition # 12271 | | | |
| Part 63 | Sulfur pit and sulfur storage tank requirements [basis: BACT] | Y | |

Table IV - DF
Source-specific Applicable Requirements
S4180 – OPCEN SULFUR PLANT 4 (SRU4)

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|--------------------------|--|-----------------------------|-----------------------|
| | See Table IV – AQ and AQab for additional requirements. | | |
| 40 CFR 60 Subpart A | <u>General Provisions (7/1/2000)</u> | | |
| 60.13(i) | <u>Alternatives to any monitoring procedures or requirements</u> | Y | |
| BAAQMD Condition # 12271 | | | |
| Part A | Monthly and annual emission limits [basis: Offsets, Cumulative Increase] | Y | |
| Part B | Applicable sources [basis: Offsets, Cumulative Increase] | Y | |
| Part C | In the case of a process upset or other irregularity [basis: Offsets, Cumulative Increase] | N | |
| Part D | Applicable source test methods [basis: Manual of Procedures, Volume IV] | Y | |
| Part E | Notification of the Source Test Section [basis: Manual of Procedures, Volume IV] | Y | |
| Part G | Source test results [basis: Manual of Procedures Volume IV] | Y | |
| Part J | CEM requirements [basis: Cumulative Increase, Offsets] | Y | |

IV. Source Specific Applicable Requirements

Table IV - DF
Source-specific Applicable Requirements
S4180 – OPCEN SULFUR PLANT 4 (SRU4)

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|-----------------------------|-----------------------|
| Part K | CEM data for compliance verification [basis: BACT, Offsets] | Y | |
| Part L | Recordkeeping [basis: BACT, Offsets, Cumulative Increase] | Y | |
| Part M | Monthly reports [basis: Offsets, Cumulative Increase] | Y | |
| Part O | Offsets requirements [basis: Offsets] | Y | |
| Part 64 | Abatement efficiency of sour water strippers [basis: BACT] | Y | |
| Part 65 | Sulfur recovery efficiency requirements [basis: BACT] | Y | |
| Part 66 | Concentration limit of total reduced sulfur [basis: BACT] | Y | |
| Part 67 | Use of gas chromatograph [basis: BACT] | Y | |
| Part 68 | SCOT thermal oxidizer efficiency requirements [basis: BACT] | Y | |
| Part 69 | SO2 CEM requirement and continuous temperature monitoring at A4181 [basis: BACT] | Y | |
| Part 70 | CO concentration limit [basis: BACT, good combustion] | Y | |
| Part 71 | Shutdown requirements [basis: BACT, offsets] | Y | |
| Part 72 | Abatement by scrubber of loading of elemental sulfur or sulfuric acid [basis: BACT, odors] | Y | |
| Part 109 | Source Test for CO emissions [basis: Regulation 2-6-409.2] | Y | |
| Part 110 | Source Test for H2S emissions [basis: Regulation 2-6-409.2] | Y | |
| <u>BAAQMD</u> <u>AMP</u> <u>Condiiton #</u> <u>24338</u> | | | |
| Part 1 | <u>Alternative spanning requirements for SO2 CEM analyzer used for demonstrating compliance with the NSPS J SO2 limit of 250 ppmv (dry basis) in 60.104(a)(2)(i).</u> <u>(Basis: Alternative Monitoring Plan, 40 CFR 60.13(i))</u> | Y | |

IV. Source Specific Applicable Requirements

Table IV – DG
Source-specific Applicable Requirements
Fixed Roof Tanks
S4319 – TANK 15096 RECOVERED OIL
S4350 – LOG TANK 13187 PROCESS WASTEWATER
S4356 – LOG TANK 13188 PROCESS WASTEWATER

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|--------------------------------------|--|-----------------------------|-----------------------|
| BAAQMD Reg 8 Rule 5 | Organic Compounds - STORAGE OF ORGANIC LIQUIDS (10/18/06) | | |
| 8-5-111 | Tank Removal From and Return to Service | N | |
| 8-5-111.1 | Notification | N | |
| 8-5-111.2 | Tank in compliance at time of notification | N | |
| 8-5-111.4 | Use vapor recovery during filling and emptying tanks so equipped | NY | |
| 8-5-111.5 | Minimize emissions and, if required, degas per 8-5-328 | N | |
| 8-5-111.6 | Self report if out of compliance during exemption period | N | |
| 8-5-112 | Tanks in Operation – maintenance and inspection | N | |
| 8-5-112.1 | Notification | N | |
| 8-5-112.2 | Tank in compliance at time of notification | N | |
| 8-5-112.3 | No product movement, Minimize emissions | NY | |
| 8-5-112.4 | Tanks in Operation – maintenance and inspection; Not to exceed 7 days | N | |
| 8-5-112.5 | Self report if out of compliance during exemption period | N | |
| 8-5-112.6 | Keep records for each exemption | N | |
| 8-5-118 | Gas Tight Requirement for approved emission control system in 8-5-306.2 does not apply if facility is subject to BAAQMD 8-18 | N | |
| 8-5-301 | Storage Tank Control Requirements | N | |
| 8-5-303 | Requirements for Pressure Vacuum Valve | N | |
| 8-5-303.1 | Requirements for Pressure Vacuum Valves; Set pressure | N | |
| 8-5-303.2 | Requirements for Pressure Vacuum Valves; Gas tight requirement | N | |
| 8-5-306 | Requirements for Approved Emission Control Systems | N | |
| 8-5-306.1 | Requirements for approved Emission Control System: Abatement Efficiency >=95% | N | |
| 8-5-307 | Requirements for fixed roof tanks, pressure tanks and blanketed tanks | N | |
| 8-5-307.1 | Requirements for fixed roof tanks, pressure tanks and blanketed tanks; no liquid leakage through shell | N | |
| 8-5-328 | Tank Degassing Requirements | N | |
| 8-5-328.1 | Tank degassing requirements: Tanks > 75 cubic meters | N | |

IV. Source Specific Applicable Requirements

Table IV – DG
Source-specific Applicable Requirements
Fixed Roof Tanks
S4319 – TANK 15096 RECOVERED OIL
S4350 – LOG TANK 13187 PROCESS WASTEWATER
S4356 – LOG TANK 13188 PROCESS WASTEWATER

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------------|---|-----------------------------|-----------------------|
| 8-5-328.2 | <u>Tank degassing requirements; Ozone Excess Day Prohibition</u> | N | |
| 8-5-328.3 | <u>Tank degassing requirements; BAAQMD notification required</u> | N | |
| 8-5-331 | <u>Tank cleaning requirements; 90% Abatement efficiency if abatement device used</u> | N | |
| 8-5-331.1 | <u>Tank cleaning requirements; Cleaning materials properties</u> | N | |
| 8-5-331.2 | <u>Tank cleaning requirements; Steam cleaning prohibition</u> | N | |
| 8-5-331.3 | <u>Tank cleaning requirements; Steam cleaning exceptions</u> | N | |
| 8-5-332 | <u>Sludge Handling Requirements (applies to sludge removed from any tank that was subject to BAAQMD 8-5 at any time since it was last put in service)</u> | N | |
| 8-5-332.1 | <u>Sludge Handling Requirements; sludge container no leaks</u> | N | |
| 8-5-332.2 | <u>Sludge Handling Requirements; sludge container gap requirements</u> | N | |
| 8-5-403 | <u>Inspection Requirements for Pressure Relief Devices</u> | N | |
| 8-5-403.1 | <u>Inspection Requirements for Pressure Relief Devices; Pressure vacuum valves gas tight standards in 8-5-303</u> | N | |
| 8-5-404 | <u>Inspection, Abatement Efficiency Determination and Source Test Reports</u> | N | |
| 8-5-501 | <u>Records</u> | N Y | |
| 8-5-501.1 | <u>Records; Type and amount of liquid, type of blanket gas, TVP- Retain 24 months</u> | N | |
| 8-5-501.3 | <u>Records; Retention</u> | N | |
| 8-5-501.4 | <u>Records; New pressure vacuum valve setpoints</u> | N | |
| 8-5-502 | <u>Annual Source Test Requirement and Exemption for Sources Vented to Fuel Gas</u> | N | |
| 8-5-502.1 | <u>Source Test Requirements; Annual source test for approved emission control systems and abatement devices for 8-5-303.2, 8-5-306.1, 8-5-307.3</u> | N | |
| 8-5-502.2 | <u>Source test requirements; Tank degassing and cleaning abatement devices</u> | N | |

IV. Source Specific Applicable Requirements

Table IV – DG
Source-specific Applicable Requirements
Fixed Roof Tanks
S4319 – TANK 15096 RECOVERED OIL
S4350 – LOG TANK 13187 PROCESS WASTEWATER
S4356 – LOG TANK 13188 PROCESS WASTEWATER

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|--|--|---|-----------------------|
| SIP BAAQMD Reg 8 Rule 5 | Organic Compounds – STORAGE OF ORGANIC LIQUIDS DEVICE (6/5/03) | | |
| 8-5-111 | Tank Removal From and Return to Service | Y | |
| 8-5-112 | Tanks in Operation – maintenance and inspection | Y | |
| 8-5-301 | Storage Tank Control Requirements | Y | |
| 8-5-302 | Requirements for Submerged Fill Pipes | Y | |
| 8-5-303 | Requirements for Pressure Vacuum Valve | Y | |
| 8-5-306 | Requirements for Approved Emission Control Systems | Y | |
| 8-5-328 | Tank Degassing Requirements | Y | |
| 8-5-403 | Inspection Requirements for Pressure Vacuum Valves | Y | |
| 8-5-404 | Certification | Y | |
| 8-5-501.1 | Records | Y | |
| 8-5-502 | Tank Degassing Annual Source Test Requirement | Y | |
| 8-5-503 | Portable Hydrocarbon Detector | Y | |
| NSPS Subpart Kb | Volatile Organic Liquid Storage Vessels REQUIREMENTS FOR FIXED ROOF TANK-CONTROL DEVICE | | |
| 60.112b(a) | Closed vent system Performance requirements: | 60.112b(a)(3)(i) no detectable emissions (i.e., < 500 ppm) | Y |
| | Control device Performance requirements: | 60.112b(a)(3)(ii) at least 95% efficient | Y |
| 60.113b(c) | Control device (other than flare) Compliance demonstration: | 60.113b(c)(1) operating plan, efficiency demo, & parameter(s) to be monitored | Y |
| | Other (initial) Reports: For control device other-than flare? | 60.113b(c)(1) submit operating plan for approval, with the initial notification | Y |
| | Control device (other than flare) Operating requirements: | 60.113b(c)(2) operate and monitor per the plan | Y |

IV. Source Specific Applicable Requirements

Table IV – DG
Source-specific Applicable Requirements
Fixed Roof Tanks
S4319 – TANK 15096 RECOVERED OIL
S4350 – LOG TANK 13187 PROCESS WASTEWATER
S4356 – LOG TANK 13188 PROCESS WASTEWATER

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------------|--|-----------------------------|-----------------------|
| 60.115b | Recordkeeping for inspections: Keep inspection reports as specified. 60.115b Keep for 2 years | Y | |
| 60.115b(c) | Recordkeeping for tanks routed to a control device other than a flare: 60.115b(c) operating plan & records of parametric monitoring data | Y | |
| 60.116b(a) | Applicability records: Time period for keeping records of applicability determination, unless specified otherwise. 60.116b(a) Keep for 2 years | Y | |
| 60.116b(b) | Applicability records: Records of dimensions & capacity required for nonexempt tanks? 60.116b(b) Required Keep record readily accessible for the life of the tank | Y | |
| 60.116b(e) | True vapor pressure (TVP) determination for applicability: 60.116b(e) maximum TVP of the stored liquid, based on highest calendar month average storage temperature | Y | |
| 60.116b(g) | Applicability determination: Miscellaneous recordkeeping exemptions: 60.116b(g) keeping record of TVP is not required if tank is routed to a compliant control device | Y | |
| NSPS Subpart A | New Source Performance Standards GENERAL PROVISIONS | Y | |
| 60.7(a) | Initial Notification: Is initial notification of the source's existence required? 60.7(a)(1) notification within 30 days after begin construction | Y | |
| | Report (document) having initially achieved compliance? 60.7(a)(3) 60.115b(a)(1) & (b)(1) within 15 days after initial fill | Y | |

IV. Source Specific Applicable Requirements

Table IV – DG
Source-specific Applicable Requirements
Fixed Roof Tanks
S4319 – TANK 15096 RECOVERED OIL
S4350 – LOG TANK 13187 PROCESS WASTEWATER
S4356 – LOG TANK 13188 PROCESS WASTEWATER

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|--|--|-----------------------------|-----------------------|
| | Notification of Compliance Status report: 60.7(a)(3) [cf. 60.115b(a)(1)&(b)(1)] notification within 15 days after startup | Y | |
| | Initial Notification: Is initial notification required if tank becomes affected only as a result of a modification? 60.7(a)(4) notification 60 days or as soon as practicable before the change | Y | |
| 60.7(f) | General recordkeeping requirements: Time period for keeping records, unless specified otherwise. 60.7(f) Keep all reports & notifications for 2 years | Y | |
| | General recordkeeping requirements: Keep all reports and notification for the specified period of time. 60.7(f) required | Y | |
| 60.14(g) | Achieve compliance for: <u>New</u> Tanks (or tanks that become affected as a result of a change or modification)? 60.14(g) up to 180 days after modifications (otherwise prior to fill) | Y | |
| NESHAP 40 CFR 61 Subpart FF; BAAQMD 11-12 | National Emission Standard for Benzene Waste Operations (3/7/90) | | |
| 61.343 | Standards: Tanks | Y | |
| 61.343(a)(1) | Owner/operator shall install, operate, and maintain a fixed-roof and closed-vent system that routes all organic vapors vented from the tank to a control device. | Y | |
| 61.343(a)(1)(i) | Fixed Roof leak requirements - < 500 ppmv above background, determined initially then annually by method in 61.355(h) of this subpart. | Y | |
| 61.343(a)(1)(ii) | Closed-vent system and control device designed and operated in accordance with 61.349 of this subpart | Y | |
| 61.343(b) | For a tank that meets all of the conditions of paragraph (b)(1), the | Y | |

IV. Source Specific Applicable Requirements

Table IV – DG
Source-specific Applicable Requirements
Fixed Roof Tanks
S4319 – TANK 15096 RECOVERED OIL
S4350 – LOG TANK 13187 PROCESS WASTEWATER
S4356 – LOG TANK 13188 PROCESS WASTEWATER

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------------|--|-----------------------------|-----------------------|
| | owner/operator may elect to comply with paragraph (b)(2) as an alternative to the requirements of (a)(1). | | |
| 61.343(b)(1) | The waste managed in the tank complying with (b)(2) shall meet all of the following conditions: wastestream managed in the tank must have a flow-weighted annual average water content less than or equal to 10% water, on a volume basis and the waste managed in the tank either: has a maximum organic vapor pressure less than 0.75 psi, or has a maximum organic vapor pressure less than 4.0 psi and is managed in a tank less than 40,000 gallons, or has a maximum organic vapor pressure less than 11.1 psi and is managed in a tank having a design capacity less than 20,000 gallons. | Y | |
| 61.343(b)(2) | Owner/operator shall install, operate, and maintain a fixed roof as specified in paragraph (a)(1)(i). | Y | |
| 61.343(b)(3) | may use devices that vent directly to atmosphere provided the devices are closed, sealed during normal operations except when the device needs to open to prevent damage or deformation of the tank or cover. | Y | |
| 61.343(c) | Inspect all fixed-roof, seal, access doors, and all other openings visually initially and quarterly for cracks and gaps and that doors and openings are closed and gasketed properly. | Y | |
| 61.343(d) | When a broken seal or gasket is identified, or when detectable emissions are measured, first efforts at repair shall be made as soon as practicable, but not later than 45 calendar days after identification. | Y | |
| 61.349 | Standards: Closed vent systems and control devices | Y | |
| 61.349(a) | Closed vent system and control device | Y | |
| 61.349(a)(1) | Closed vent system requirements | Y | |
| 61.350 | Delay of Repair | Y | |
| 61.355 | Test methods, procedures and compliance provisions | Y | |
| 61.355(h) | Test equipment for compliance with no detectable emissions as | Y | |

IV. Source Specific Applicable Requirements

Table IV – DG
Source-specific Applicable Requirements
Fixed Roof Tanks
S4319 – TANK 15096 RECOVERED OIL
S4350 – LOG TANK 13187 PROCESS WASTEWATER
S4356 – LOG TANK 13188 PROCESS WASTEWATER

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|--|--|-----------------------------|-----------------------|
| | required in 61.343 through 61.347 and 61.349 | | |
| 61.356 | Recordkeeping requirements | Y | |
| 61.356(h) | Reporting requirements | Y | |
| 61.357 | Reporting requirements | Y | |
| 61.357(d) | reporting requirements for facilities with 10 Mg/yr or more total benzene in waste | Y | |
| 61.357(d)(8) | Reporting requirements | Y | |
| MACT 40 CFR 63 Subpart CC | National Emissions Standards for Hazardous Air Pollutants from Petroleum Refineries (8/18/95/23/03/30/10) | Y | |
| 63.640 | Emission points at petroleum refinery | Y | |
| 63.640(d)(5) | No testing, monitoring, recordkeeping, or reporting is required for refinery fuel gas systems or emission points routed to refinery fuel gas systems | 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 | |
| 63.654-655 | Reporting and recordkeeping requirements | Y | |
| 63.654 655(a) | Owner/operators subject to the wastewater provisions of 63.647 shall comply with the recordkeeping and reporting requirements in 61.356 and 61.357 of 40 CFR part 61, subpart FF, unless they comply with those specified in paragraph (o)(2)(ii) of 63.640. 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 | |
| 63.654 655(i)(45) | All information required to be reported under 63.654655(a) through (h) shall be retained for 5 years. | Y | |
| BAAQMD Condition # 12271 | | | |

IV. Source Specific Applicable Requirements

Table IV – DG
Source-specific Applicable Requirements
Fixed Roof Tanks

S4319 – TANK 15096 RECOVERED OIL
S4350 – LOG TANK 13187 PROCESS WASTEWATER
S4356 – LOG TANK 13188 PROCESS WASTEWATER

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------------|--|-----------------------------|-----------------------|
| Part A | Monthly and annual emission limits [basis: Offsets, Cumulative Increase] | Y | |
| Part B | Applicable sources [basis: Offsets, Cumulative Increase] | Y | |
| Part C | In the case of a process upset or other irregularity [basis: Offsets, Cumulative Increase] | N | |
| Part L | Recordkeeping [basis: BACT, Offsets, Cumulative Increase] | Y | |
| Part M | Monthly reports [basis: Offsets, Cumulative Increase] | Y | |
| Part O | Offsets requirements [basis: Offsets] | Y | |
| Part 45 | Vapor Recovery System [basis: BACT] | Y | |
| Part 51 | Degassing abatement requirements [basis: BACT] | Y | |

Table IV – DI
Source-specific Applicable Requirements
~~S4334 – TANK 13276 ALKYLATE~~

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|-------------------------------------|---|-----------------------------|-----------------------|
| | See Table IV – AEG for additional requirements. | | |
| BAAQMD Condition # 12271 | | | |
| Part A | Monthly and annual emission limits [basis: Offsets, Cumulative Increase] | Y | |
| Part B | Applicable sources [basis: Offsets, Cumulative Increase] | Y | |
| Part C | In the case of a process upset or other irregularity [basis: Offsets, Cumulative Increase] | N | |
| Part L | Recordkeeping [basis: BACT, Offsets, Cumulative Increase] | Y | |
| Part M | Monthly reports [basis: Offsets, Cumulative Increase] | Y | |
| Part O | Offsets requirements [basis: Offsets] | Y | |
| Part 45 | Equipment specification [basis: BACT] | Y | |

Facility Name: Shell Martinez Refinery, Shell Oil Products US
Permit for Facility #: A0011

IV. Source Specific Applicable Requirements

~~Table IV—DI~~
~~Source-specific Applicable Requirements~~
~~S4334—TANK 13276 ALKYLATE~~

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|-----------------------------------|---|--|----------------------------------|
| Part 51 | Degassing abatement requirements [basis: BACT] | Y | |

IV. Source Specific Applicable Requirements

TABLE IV – DJ
SOURCE-SPECIFIC APPLICABLE REQUIREMENTS
FIXED ROOF TANKS

S5112 – LOG V-15112 MAIN PROTO VESSEL WITH NITROGEN BLANKET
S5113 – LOG V-15113 MAIN PROTO VESSEL WITH NITROGEN BLANKET
S5114 – LOG V-15114 MAIN PROTO VESSEL WITH NITROGEN BLANKET
S5125 LOG V-15117 STANDBY PROTO VESSEL

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|--------------------------------------|---|-----------------------------|-----------------------|
| <u>BAAQMD</u> <u>Reg 8 Rule 5</u> | <u>Organic Compounds - STORAGE OF ORGANIC LIQUIDS</u> <u>(10/18/06)</u> | | |
| 8-5-111 | <u>Tank Removal From and Return to Service</u> | N | |
| 8-5-111.1 | <u>Notification</u> | N | |
| 8-5-111.2 | <u>Tank in compliance at time of notification</u> | N | |
| 8-5-111.4 | <u>Use vapor recovery during filling and emptying tanks so equipped</u> | NY | |
| 8-5-111.5 | <u>Minimize emissions and, if required, degas per 8-5-328</u> | N | |
| 8-5-111.6 | <u>Self report if out of compliance during exemption period</u> | N | |
| 8-5-112 | <u>Tanks in Operation – maintenance and inspection</u> | N | |
| 8-5-112.1 | <u>Notification</u> | N | |
| 8-5-112.2 | <u>Tank in compliance at time of notification</u> | N | |
| 8-5-112.3 | <u>No product movement, Minimize emissions</u> | NY | |
| 8-5-112.4 | <u>Tanks in Operation – maintenance and inspection; Not to exceed 7 days</u> | N | |
| 8-5-112.5 | <u>Self report if out of compliance during exemption period</u> | N | |
| 8-5-112.6 | <u>Keep records for each exemption</u> | N | |
| 8-5-118 | <u>Gas Tight Requirement for approved emission control system in 8-5-306.2 does not apply if facility is subject to BAAQMD 8-18</u> | N | |
| 8-5-301 | <u>Storage Tank Control Requirements</u> | N | |
| 8-5-302 | <u>Requirements for Submerged Fill Pipes</u> | N | |
| 8-5-303 | <u>Requirements for Pressure Vacuum Valve</u> | N | |
| 8-5-303.1 | <u>Requirements for Pressure Vacuum Valves: Set pressure</u> | N | |
| 8-5-303.2 | <u>Requirements for Pressure Vacuum Valves: Gas tight requirement</u> | N | |
| 8-5-306 | <u>Requirements for Approved Emission Control Systems</u> | N | |
| 8-5-306.1 | <u>Requirements for approved Emission Control System: Abatement Efficiency >=95%</u> | N | |
| 8-5-307 | <u>Requirements for fixed roof tanks, pressure tanks and blanketed tanks</u> | N | |
| 8-5-307.1 | <u>Requirements for fixed roof tanks, pressure tanks and blanketed tanks: no liquid leakage through shell</u> | N | |
| 8-5-307.2 | <u>Working pressure requirements for pressure tanks</u> | N | |

IV. Source Specific Applicable Requirements

TABLE IV – DJ
SOURCE-SPECIFIC APPLICABLE REQUIREMENTS
FIXED ROOF TANKS

S5112 – LOG V-15112 MAIN PROTO VESSEL WITH NITROGEN BLANKET
S5113 – LOG V-15113 MAIN PROTO VESSEL WITH NITROGEN BLANKET
S5114 – LOG V-15114 MAIN PROTO VESSEL WITH NITROGEN BLANKET
S5125 LOG V-15117 STANDBY PROTO VESSEL

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------------|---|-----------------------------|-----------------------|
| 8-5-307.3 | <u>PRD Sealing mechanism requirements for pressure tanks and blanketed tanks</u> | N | |
| 8-5-328 | <u>Tank Degassing Requirements</u> | N | |
| 8-5-328.1 | <u>Tank degassing requirements: Tanks > 75 cubic meters</u> | N | |
| 8-5-328.2 | <u>Tank degassing requirements: Ozone Excess Day Prohibition</u> | N | |
| 8-5-328.3 | <u>Tank degassing requirements: BAAQMD notification required</u> | N | |
| 8-5-331 | <u>Tank cleaning requirements: 90% Abatement efficiency if abatement device used</u> | N | |
| 8-5-331.1 | <u>Tank cleaning requirements: Cleaning materials properties</u> | N | |
| 8-5-331.2 | <u>Tank cleaning requirements: Steam cleaning prohibition</u> | N | |
| 8-5-331.3 | <u>Tank cleaning requirements: Steam cleaning exceptions</u> | N | |
| 8-5-332 | <u>Sludge Handling Requirements (applies to sludge removed from any tank that was subject to BAAQMD 8-5 at any time since it was last put in service)</u> | N | |
| 8-5-332.1 | <u>Sludge Handling Requirements: sludge container no leaks</u> | N | |
| 8-5-332.2 | <u>Sludge Handling Requirements: sludge container gap requirements</u> | N | |
| 8-5-403 | <u>Inspection Requirements for Pressure Relief Devices</u> | N | |
| 8-5-403.1 | <u>Inspection Requirements for Pressure Relief Devices: Pressure vacuum valves gas tight standards in 8-5-303</u> | N | |
| 8-5-404 | <u>Inspection, Abatement Efficiency Determination and Source Test Reports</u> | N | |
| 8-5-501 | <u>Records</u> | NY | |
| 8-5-501.1 | <u>Records: Type and amount of liquid, type of blanket gas, TVP- Retain 24 months</u> | N | |
| 8-5-501.3 | <u>Records: Retention</u> | N | |
| 8-5-501.4 | <u>Records: New pressure vacuum valve setpoints</u> | N | |
| 8-5-502 | <u>Annual Source Test Requirement and Exemption for Sources Vented to Fuel Gas</u> | N | |
| 8-5-502.1 | <u>Source Test Requirements: Annual source test for approved emission control systems and abatement devices for 8-5-303.2, 8-5-306.1, 8-5-307.3</u> | N | |
| 8-5-502.2 | <u>Source test requirements: Tank degassing and cleaning abatement devices</u> | N | |

IV. Source Specific Applicable Requirements

TABLE IV – DJ
SOURCE-SPECIFIC APPLICABLE REQUIREMENTS
FIXED ROOF TANKS

S5112 – LOG V-15112 MAIN PROTO VESSEL WITH NITROGEN BLANKET
S5113 – LOG V-15113 MAIN PROTO VESSEL WITH NITROGEN BLANKET
S5114 – LOG V-15114 MAIN PROTO VESSEL WITH NITROGEN BLANKET
S5125 LOG V-15117 STANDBY PROTO VESSEL

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|--|-----------------------------|-----------------------|
| SIP BAAQMD Reg 8 Rule 5 | Organic Compounds – STORAGE OF ORGANIC LIQUIDS (6/5/03) | | |
| 8-5-111 | Tank Removal From and Return to Service | Y | |
| 8-5-112 | Tanks in Operation – maintenance and inspection | Y | |
| 8-5-301 | Storage Tank Control Requirements | Y | |
| 8-5-302 | Requirements for Submerged Fill Pipes | Y | |
| 8-5-303 | Requirements for Pressure Vacuum Valve | Y | |
| 8-5-306 | Requirements for Approved Emission Control Systems | Y | |
| 8-5-328 | Tank Degassing Requirements | Y | |
| 8-5-403 | Inspection Requirements for Pressure Vacuum Valves | Y | |
| 8-5-404 | Certification | Y | |
| 8-5-501.1 | Records | Y | |
| 8-5-502 | Tank Degassing Annual Source Test Requirement | Y | |
| 8-5-503 | Portable Hydrocarbon Detector | Y | |
| Condition # 11504 | <u>Applies to S5112, S5113, and S5114</u> | | |
| Part 1 | Controlled by A26 [basis: Cumulative Increase, Regulation 8-5-311] | Y | |

Table IV – DL
Source-specific Applicable Requirements

~~S5115 – LOG DISSOLVED NITROGEN FLOTATION UNIT NORTH ETP 2 (DNE)~~
~~S5116 – LOG DISSOLVED NITROGEN FLOTATION UNIT SOUTH ETP 2 (DNE)~~

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------------|---|-----------------------------|-----------------------|
| | See Table IV – CG for additional requirements. | | |
| Condition # | | | |

IV. Source Specific Applicable Requirements

Table IV – DL
Source-specific Applicable Requirements
~~S5115 – LOG DISSOLVED NITROGEN FLOTATION UNIT NORTH ETP 2 (DNE)~~
~~S5116 – LOG DISSOLVED NITROGEN FLOTATION UNIT SOUTH ETP 2 (DNE)~~

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------------|--|-----------------------------|-----------------------|
| 11313 | | | |
| Part 1 | Two carbon vessels arranged in series [basis: Regulation 8-8-307] | Y | |
| Part 2 | Second to last carbon bed change out [basis: Regulation 8-8-307] | Y | |
| Part 3 | Last carbon bed change out [basis: Regulation 8-8-307] | Y | |
| Part 4 | Non-Methane Hydrocarbon Emission limits [basis: Regulation 8-8-307] | Y | |
| Part 5 | Monitor Carbon Beds [basis: Regulation 8-8-504] | Y | |
| Part 6 | Record monitor readings [basis: Regulation 8-8-307] | Y | |
| Part 7 | Record monitor readings [basis: Regulation 8-8-307] | Y | |
| Part 8 | Records on file [basis: Regulation 8-8-307] | Y | |

Table IV – DM
Source-specific Applicable Requirements
S5121 – LOG SPM-14111 DNF FLOAT TANK ETP 2

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|--|---|-----------------------------|-----------------------|
| BAAQMD Regulation 8, Rule 8 | Wastewater (Oil-Water) Separator (09/15/04) | | |
| 8-8-303 | Gauging and Sampling Devices | Y | |
| 8-8-305 | Oil-Water Separator And/Or Air Flotation Unit Slop Oil Vessels | Y | |

Table IV – DN
Source-specific Applicable Requirements
~~S12490 – LOG TANK 12519 WASTEWATER ETP 1&2~~
~~S12491 – LOG TANK 12520 WASTEWATER ETP 1&2~~

IV. Source Specific Applicable Requirements

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------------|--|-----------------------------|-----------------------|
| | See Table IV – AC for additional requirements. | | |
| Condition # S502 | | | |
| Part 1 | Level indicating device [basis: Cumulative Increase] | Y | |

Table IV – DNa
Source-specific Applicable Requirements
S5140 – DIESEL ENGINE, S6051 THROUGH S6060 S6057, S6059, S6060
DIESEL ENGINES

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------------------------|---|-----------------------------|-----------------------|
| BAAQMD Regulation 6 | Particulate Matter – General Requirements (12/5/07) | | |
| 6-1-303 | Ringelmann Number 2 Limitation | N | |
| 6-1-303.1 | Ringelmann Number 2 Limitation | N | |
| 6-1-305 | Visible Particles | N | |
| 6-1-310 | Particulate Weight Limitation | N | |
| 6-1-401 | Appearance of Emissions | N | |
| SIP Regulation 6 | Particulate Matter and Visible Emissions (9/4/98) | | |
| 6-303 | Ringelmann Number 2 Limitation | Y | |
| 6-303.1 | Ringelmann Number 2 Limitation | Y | |
| 6-305 | Visible Particles | Y | |
| 6-310 | Particulate Weight Limitation | Y | |
| 6-401 | Appearance of Emissions | Y | |
| BAAQMD Regulation 6 Rule 1 | Particulate Matter and Visible Emissions (12/05/0709/04/98) | | |
| 6-1-301 | Ringelmann No. 1 Limitation | Y | |
| 6-1-305 | Visible Particles | Y | |
| 6-1-310 | Particulate Weight Limitation | Y | |
| BAAQMD Regulation 9, Rule 1 | Inorganic Gaseous Pollutants - Sulfur Dioxide (3/15/95; SIP approved 6/8/99) | | |
| 9-1-301 | Limitations on Ground Level Concentrations | Y | |

IV. Source Specific Applicable Requirements

Table IV – DNa
Source-specific Applicable Requirements
~~S5140 – DIESEL ENGINE, S6051 THROUGH S6060 S6057, S6059, S6060~~
DIESEL ENGINES

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|-----------------------------|-----------------------|
| 9-1-304 | Fuel Burning (Liquid and Solid Fuels) | Y | |
| <u>BAAQMD Regulation 9, Rule 8</u> | <u>Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon Monoxide from Stationary Internal Combustion Engines (7/25/07)</u> | | |
| <u>9-8-330</u> | <u>Emergency Standby Engines, Hours Of Operation</u> | N | |
| <u>9-8-330.1</u> | <u>For emergency use for an unlimited number of hours</u> | N | |
| <u>9-8-330.2</u> | <u>Until January 1, 2012, for reliability-related activities so long as total hours of operation for this purpose do not exceed 100 hours in a calendar year, or limitations contained in a District permit, whichever is lower</u> | N | |
| <u>9-8-330.3</u> | <u>Effective January 1, 2012, for reliability-related activities so long as total hours of operation for this purpose do not exceed 50 hours in a calendar year, or limitations contained in a District permit, whichever is lower. Hours of operation for reliability-related activities may exceed these limits only as necessary to comply with testing requirements of National Fire Protection Association (NFPA) 25 – “Standard for the Inspection, Testing, and Maintenance of Water-Based Fire Protection Systems.” 1998 edition.</u> | N | <u>1/12/2012</u> |
| <u>9-8-502</u> | <u>Recordkeeping</u> | N | |
| <u>9-8-502.1</u> | <u>Monthly records of usage</u> | N | |
| <u>9-8-530</u> | <u>Emergency Standby and Low Usage Engines, Monitoring and Recordkeeping: Each emergency standby engine shall be equipped with a nonresettable totalizing meter that measures hours of operation or fuel usage.</u> | N | |
| <u>9-8-530.1</u> | <u>Keep a monthly log of usage that shall indicate the hours of operation (total)</u> | N | |
| <u>9-8-530.2</u> | <u>Keep a monthly log of usage that shall indicate the hours of operation (emergency)</u> | N | |
| <u>9-8-350.3</u> | <u>Keep a monthly log of usage that shall indicate for each emergency, the nature of the emergency condition</u> | N | |
| <u>BAAQMD Regulation 9, Rule 8</u> | <u>Inorganic Gaseous Pollutants – Nitrogen Oxides and Carbon Monoxide from Stationary Internal Combustion Engines (1/20/93)</u> | | |
| <u>9-8-331</u> | <u>Essential Public Service, Hours of Operation</u> | N | |
| <u>9-8-530</u> | <u>Emergency Standby Engines, Monitoring and Recordkeeping</u> | N | |

IV. Source Specific Applicable Requirements

Table IV – DNa
Source-specific Applicable Requirements
~~S5140 – DIESEL ENGINE, S6051 THROUGH S6060 S6057, S6059, S6060~~
DIESEL ENGINES

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|-------------------------------------|---|-----------------------------|-----------------------|
| CCR, Title 17, Section 93115 | <u>ATCM for Stationary Compression Ignition Engines</u> | | |
| 93115.5 | <u>Fuel Requirements</u> | N | |
| 93115.6 | <u>ATCM for Stationary CI Engines – Emergency Standby Diesel-Fueled CI Engine (>50 bhp) Operating Requirements and Emission Standards</u> | N | |
| 93115.6(b) | <u>In-Use Emergency Standby Diesel-Fueled CI Engine (> 50 bhp) Operating Requirements and Emission Standards</u> | N | |
| 93115.6(b)(3) | <u>Emission and operation standards</u> | N | |
| 93115.6(b)(3)(A) | <u>Diesel PM Standard and Hours of Operation Limitations</u> | N | |
| 93115.6(b)(3)(A)(1) | <u>General Requirements</u> | N | |
| 93115.6(b)(3)(A)(1)(a) | <u>20 hours/yr for maintenance & testing</u> | N | |
| 93115.10(e)(1) | <u>Monitoring Equipment</u> | N | |
| 93115.10(e) | <u>Reporting Requirements for Emergency Standby Engines</u> | N | |
| 93115.11 | <u>ATCM for Stationary CI Engines – Compliance Schedule for Owners or Operators of Three or Fewer Engines (>50 bhp) Located within a District</u> | N | |
| 93115.11(a) | <u>Compliance by 1/1/06 for engines complying by reducing hours of operation</u> | N | |
| 93115.15 | <u>Severability</u> | N | |
| BAAQMD Condition # 22820 | <u>Operating Requirements</u> | | |
| Part 1 | <u>Operating limit for reliability-related activities (basis: "Stationary Diesel Engine ATCM" section 93115, title 17, CA Code of Regulations, subsection (e)(2)(B)(3) or Regulation 2-5)</u> | N | |

IV. Source Specific Applicable Requirements

Table IV – DNa
Source-specific Applicable Requirements
~~S5140 – DIESEL ENGINE, S6051 THROUGH S6060 S6057, S6059, S6060~~
DIESEL ENGINES

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---------------------------------|---|-----------------------------|-----------------------|
| Part 2 | Emergency standby engine operation (basis: Basis: "Stationary Diesel Engine ATCM" section 93115, title 17, CA Code of Regulations, subsection (e)(2)(A)(3) or (e)(2)(B)(3)) | N | |
| Part 3 | Non-resettable totalizing hour meter (basis: "Stationary Diesel Engine ATCM" section 93115, title 17, CA Code of Regulations, subsection(e)(4)(G)(1)) | N | |
| Part 4 | Records (Basis: "Stationary Diesel Engine ATCM" section 93115, title 17, CA Code of Regulations, subsection (e)(4)(I), (or, Regulation 2-6-501)) | N | |
| Part 5 | At or nearby school restrictions (basis: "Stationary Diesel Engine ATCM" section 93115, title 17, CA Code of Regulations, subsection(e)(2)(A)(1) or (e)(2)(B)(2)) | N | |
| BAAQMD Condition # 19097 | | | |
| Part 1 | Hours of operation limit for reliability related activities [basis: Regulation 9-8-330] | N | |
| Part 2 | Emergency use [basis: Regulation 9-8-231] | N | |
| Part 3 | Reliability related activities [basis: Regulation 9-8-232] | N | |
| Part 4 | Monitoring [basis: Regulation 9-8-530] | N | |
| Part 5 | Recordkeeping [basis: Regulation 9-8-530, 1-441] | N | |
| Part 6 | Fuel oil certification [basis: Regulation 2-6-409.2] | N | |
| Part 7 | Visible emission monitoring [basis: Regulation 2-6-409.2] | N | |

Table IV – DNb
Source-specific Applicable Requirements
~~S17095 – TANK 17095~~

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|--------------------------|--|-----------------------------|-----------------------|
| | See Table IV – U for additional requirements. | | |
| Condition # 20042 | | | |

IV. Source Specific Applicable Requirements

~~Table IV—DNb~~
~~Source-specific Applicable Requirements~~
~~S17095—TANK 17095~~

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|-----------------------------------|---|--|----------------------------------|
| Part 1 | Throughput limit [basis: Cumulative Increase] | Y | |
| Part 2 | Design Requirements [basis: BACT, Cumulative Increase] | Y | |
| Part 3 | Recordkeeping [basis: Cumulative Increase] | Y | |

IV. Source Specific Applicable Requirements

Table IV – DO
Source-specific Applicable Requirements
A101 – Flare for Vine Hill Vapor Recovery System
A102 – Flare for Crude String Vapor Recovery System
A103 – Flare for Interim Gasoline Vapor Recovery System

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|--------------------------------|---|-----------------------------|-----------------------|
| | See Table IV – AXa for additional requirements. | | |
| BAAQMD Condition # 7761 | | | |
| Part 1 | A103 operating parameters [basis: Regulation 8-5-301] | Y | |
| Part 2 | Recordkeeping [basis: Regulation 8-5-301] | Y | |
| Part 3 | Pilot indicator [basis: Regulation 8-5-301] | Y | |
| Part 4 | Flare failure alarm [basis: Regulation 8-5-301] | Y | |
| Part 5 | Tanks abated by flare [basis: Regulation 8-5-301] | Y | |
| Part 6 | A101 operating parameters [basis: Regulation 8-5-301] | Y | |
| Part 7 | Recordkeeping [basis: Regulation 8-5-301] | Y | |
| Part 8 | Pilot indicator [basis: Regulation 8-5-301] | Y | |
| Part 9 | Flare failure alarm [basis: Regulation 8-5-301] | Y | |
| Part 10 | Tanks abated by flare [basis: Regulation 8-5-301] | Y | |
| Part 11 | A102 operating parameters [basis: Regulation 8-5-301] | Y | |
| Part 12 | Recordkeeping [basis: Regulation 8-5-301] | Y | |
| Part 13 | Pilot indicator [basis: Regulation 8-5-301] | Y | |
| Part 14 | Flare failure alarm [basis: Regulation 8-5-301] | Y | |
| Part 15 | Tanks abated by flare [basis: Regulation 8-5-301] | Y | |

IV. Source Specific Applicable Requirements

**Table IV – DP
 Applicable Requirements
 SUBPART GGG EQUIPMENT AND COMPONENTS**

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|--|--|-----------------------------|-----------------------|
| NSPS Part 60 Subpart A; BAAQMD 10-1 | General Provisions | | |
| 60.7(a), (c), (e), (f), (g), and (h) | Notification and record keeping | Y | |
| 60.8(a) through (f) | Performance tests | Y | |
| 60.11(a) through (g) | Compliance with standards and maintenance requirements | Y | |
| 60.12 | Circumvention | Y | |
| 60.13(a) through (f) and (h) | Monitoring requirements | Y | |
| 60.19(a) through (f) | General notification and reporting requirements | Y | |
| NSPS Part 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) | | |
| 60.592 | 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 | |
| NSPS Part 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) | | |
| 60.480 | Applicability and designation of affected facility | Y | |
| 60.480(d) | An affected facility that qualifies for one or more exemption from 60.482 shall maintain records as required in 60.486(i). | Y | |
| 60.482-1 | Standards: General | Y | |
| 60.482-1(b) | Compliance with 60.482-1 to 60.482-10 will be determined.... | Y | |
| 60.482-1(d) | Equipment that is in vacuum service is excluded from the requirements of 60.482-2 to 60.482-10 if it is identified as required in 60.486(e)(5). | Y | |
| 60.482-2 | Standards: Pumps in light liquid service | Y | |
| 60.482-2(a)(1) | Monthly monitoring of each pump, except for 60.482-2(d). | Y | |
| 60.482-2(a)(2) | Weekly visual inspection of each pump. | Y | |
| 60.482-2(b)(1) | Air measurement instrument reading >10,000 ppm indicates leak | Y | |
| 60.482-2(b)(2) | Dripping liquid from pump seal indicates leak | Y | |
| 60.482-2(c)(1) | Leak repaired within 15 calendar days, except as provided in 60.482-9. | Y | |
| 60.482-2(c)(2) | First attempt at leak repair made within 5 calendar days. | Y | |

IV. Source Specific Applicable Requirements

**Table IV – DP
 Applicable Requirements
 SUBPART GGG EQUIPMENT AND COMPONENTS**

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------------|---|-----------------------------|-----------------------|
| 60.482-2(d) | Pump with dual-mechanical seal system that includes barrier fluid system and meets specified requirements is exempt from 60.482-2(a). | Y | |
| 60.482-2(g) | Pump designated, per 60.486(f)(1), as unsafe-to-monitor pump is exempt from 60.482-2(a) and (d)(4) through (d)(6) if hazard documented and written monitoring plan is followed. | Y | |
| 60.482-2(h) | Any pump located in an unmanned plant site is exempt from the requirements of 60.482-2(a)(2), (d)(4) and (d)(5) provided each pump is visually inspected as often as practicable and at least monthly. | Y | |
| 60.482-3 | Standards: Compressor | Y | |
| 60.482-3(a) | Each compressor equipped with seal system that includes a barrier fluid system and prevents leakage of VOC to atmosphere. | Y | |
| 60.482-3(b) | Each compressor seal system operated with barrier fluid at pressure greater than compressor stuffing box pressure; or equipped with system that purges barrier fluid into process stream with zero emissions to atmosphere. | Y | |
| 60.482-3(c) | Barrier fluid system shall be in heavy liquid service. | Y | |
| 60.482-3(d) | Each barrier fluid system equipped with sensor that detects failure of seal system, barrier fluid system or both. | Y | |
| 60.482-3(e)(1) | Each sensor shall be checked daily or shall be equipped with an audible alarm. | Y | |
| 60.482-3(e)(2) | Owner shall determine a criterion that indicates failure of seal system, barrier fluid system, or both. | Y | |
| 60.482-3(f) | If sensor indicates failure based on criterion established in 60.482-3(e)(2), a leak is detected. | Y | |
| 60.482-3(g)(1) | Leak shall be repaired within 15 calendar days, except as provided in 60.482-9. | Y | |
| 60.482-3(g)(2) | First attempt at repair shall be made within 5 calendar days. | Y | |
| 60.482-3(j) | Existing reciprocating compressor in a process unit that becomes an affected facility is exempt from 60.482-3(a) through (e) and (h) if recasting distance piece or replacing compressor are only options for compliance. | Y | |
| 60.482-4 | Standards: Pressure relief devices in gas/vapor service | Y | |
| 60.482-4(a) | Except during pressure releases, pressure relief device shall be operated with no detectable emissions (< 500 ppm). | Y | |
| 60.482-4(b)(1) | After each pressure release, pressure release device shall be returned to a condition of no detectable emissions within 5 calendar days after pressure release, except as provided in 60.482-9. | Y | |
| 60.482-4(b)(2) | No later than 5 calendar days after pressure release, the pressure relief device shall be monitored to confirm no detectable emissions. | Y | |
| 60.482-4(c) | Any pressure relief device that is routed to a process or fuel gas system is exempt from 60.482-4(a) and (b). | Y | |

IV. Source Specific Applicable Requirements

**Table IV – DP
 Applicable Requirements
 SUBPART GGG EQUIPMENT AND COMPONENTS**

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------------|--|-----------------------------|-----------------------|
| 60.482-4(d)(1) | Any pressure relief device that is equipped with a rupture disk upstream of the pressure relief device is exempt from 60.482-4(a) and (b) provided complies with 60.482-4(d)(2). | Y | |
| 60.482-4(d)(2) | After each pressure release, a new rupture disk shall be installed upstream of the pressure relief device as soon as practicable, but no later than 5 calendar days after each pressure release, except as provided in 60.482-9. | Y | |
| 60.482-5 | Standards: Sampling connecting systems | Y | |
| 60.482-6 | Standards: Open-ended valves or lines | Y | |
| 60.482-7 | Standards: Valves in gas/vapor service and in light liquid service | Y | |
| 60.482-7(a) | Monitor monthly to detect leaks, except as provided in 60.482-7(g) and (h) and 60.483-2. | Y | |
| 60.482-7(b) | Instrument reading >10,000 ppm indicates leak. | Y | |
| 60.482-7(c) | Valve that does not have a detectable leak for 2 successive months, can be monitored the first month of every quarter. | Y | |
| 60.482-7(d)(1) | Leak shall be repaired within 15 calendar days, except as provided in 60.482-9. | Y | |
| 60.482-7(d)(2) | First attempt at leak repair shall be made within 5 calendar days. | Y | |
| 60.482-7(e) | Methods for first attempt at repair. | Y | |
| 60.482-7(g) | Valve designated, per 60.486(f)(1), as unsafe-to-monitor valve is exempt from 60.482-7(a) if hazard documented and written monitoring plan is followed. | Y | |
| 60.482-7(h) | Valve designated, per 60.486(f)(1), as difficult-to-monitor valve is exempt from 60.482-7(a) if hazard documented, less than 3% of facility valves are designated and written plan with is followed that requires monitoring at least once per year. | Y | |
| 60.482-8 | Standards: Pumps and valves in heavy liquid service, pressure relief devices in light liquid or heavy liquid service, and flanges and other connectors. | Y | |
| 60.482-8(a) | Monitor within 5 days if evidence of potential leak is found. | Y | |
| 60.482-8(b) | Instrument reading >10,000 ppm indicates leak. | Y | |
| 60.482-8(c)(1) | Leak shall be repaired within 15 calendar days, except as provided in 60.482-9. | Y | |
| 60.482-8(c)(2) | First attempt at leak repair shall be made within 5 calendar days. | Y | |
| 60.482-8(d) | Minimum requirements for first attempt at repair. | Y | |
| 60.482-9 | Standards: Delay of Repair | | |
| 60.482-9(a) | Delay allowed if repair is technically infeasible without a process unit shutdown and repair occurs before end of next process unit shutdown. | Y | |
| 60.482-9(b) | Repair may be delayed for isolated equipment. | Y | |
| 60.482-9(c) | Delay of repair for valves only allowed under certain circumstances. | Y | |
| 60.482-9(d)(1) | Only dual-mechanical seal pumps qualify for delay of repair | Y | |

IV. Source Specific Applicable Requirements

**Table IV – DP
 Applicable Requirements
 SUBPART GGG EQUIPMENT AND COMPONENTS**

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|-------------------------|---|-----------------------------|-----------------------|
| 60.482-9(d)(2) | Pump leaks must be repaired within 6 months. | Y | |
| 60.482-9(e) | Delay of repair beyond process shutdown allowed if valve assembly replacement is required and other circumstances are met. | Y | |
| 60.483-2 | 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 | |
| 60.485(a) | Performance tests methods specified in Appendix A or 60.8(b) | Y | |
| 60.485(b) | Method 21 for determining presence of leaking sources. | Y | |
| 60.485(d) | Test each piece of equipment unless process unit not in VOC series. | Y | |
| 60.485(e) | Light liquid service demonstrated by vapor pressure and if liquid at operating conditions. | Y | |
| 60.485(f) | Samples representative of process fluid. | Y | |
| 60.486 | Record keeping Requirements | Y | |
| 60.486(a) | Comply with recordkeeping requirements of this section. | Y | |
| 60.486(b) | Identification and tagging requirements for leaks detected as specified in 60.482-2, 60.482-3, 60.482-7, 60.482-8, and 60.483-2. | Y | |
| 60.486(c) | When leak detected as specified in 60.482-2, 60.482-3, 60.482-7, 60.482-8, and 60.483-2, record in log and keep for 2 years. | Y | |
| 60.486(e) | Information to be recorded for all equipment subject to requirements in 60.482-1 through 60.482-10. | Y | |
| 60.486(f) | Record information pertaining to all valves subject to the requirements in 60.482-7(g) and (h). | Y | |
| 60.486(g) | Record information pertaining to all valves subject to the requirements in 60.483-2. | Y | |
| 60.486(h) | Record design criterion required in 60.482-2(d)(5) and 60.482-3(e)(2). | Y | |
| 60.486(i) | Record information in log that is readily accessible for use in determining exemption as provided in 60.480(d). | Y | |
| 60.486(j) | Records to demonstrate piece of equipment not in VOC service. | Y | |
| 60.486(k) | Provisions of 60.7(b) and (d) do not apply if subject to VV. | Y | |
| 60.487 | Reporting Requirements | Y | |
| 60.487(a) | Submit semiannual reports. | Y | |
| 60.487(c) | Information to be included in semiannual reports. | Y | |
| 60.487(e) | Report results of all performance tests in accordance with 60.8. The provisions of 60.8(d) do not apply to affected facilities subject to VV. | Y | |
| BAAQMD Regulation 10-52 | Incorporates by reference 40 CFR 60 Subpart VV | Y | |

IV. Source Specific Applicable Requirements

**Table IV – DQ
 Applicable Requirements
 SUBPART QQQ INDIVIDUAL DRAIN SYSTEMS**

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|--|--|-----------------------------|-----------------------|
| 40 Part 60 Subpart A; BAAQMD 10-1 | General Provisions | | |
| 60.7(a), (b), (c), (d), (e), (f), (g), and (h) | Notification and record keeping | Y | |
| 60.8(a) through (f) | Performance tests | Y | |
| 60.11(a) through (g) | Compliance with standards and maintenance requirements | Y | |
| 60.12 | Circumvention | Y | |
| 60.13(a) through (f) and (h) | Monitoring requirements | Y | |
| 60.19(a) through (f) | General notification and reporting requirements | Y | |
| NSPS Part 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) | | |
| 60.692-1 | Standards: General | Y | |
| 60.692-1(a) | Comply with 60.692-2 except during periods of startup, shutdown or malfunction. | Y | |
| 60.692-1(b) | Compliance will be determined by review of records and reports, performance test results and inspection using methods and procedures specified in 60.696. | Y | |
| 60.692-1(c) | Standards: General; <u>Alternative means of compliance</u> | <u>Y</u> | |
| 60.692-1(d) | Stormwater sewer systems, ancillary equipment, and non-contact cooling water systems are exempt if records are kept in accordance with 60.697(h), (i), and (j). | Y | |
| 60.692-2 | Standards: Individual drain systems | Y | |
| 60.692-2(a)(1) | <u>Standards: Individual drain systems; equip each drain with water seal</u> | <u>Y</u> | |
| 60.692-2(a)(2) | Standards: Individual drain systems; Drains in active service - <u>Monthly visual or physical inspections for low water level or other problem</u> | <u>Y</u> | |
| 60.692-2(a)(3) | Standards: Individual drain systems; Drains out of active service - <u>Weekly visual or physical inspections for low water level or other problem</u> | <u>Y</u> | |
| 60.692-2(a)(4) | Standards: Individual drain systems; Drains out of active service – <u>Alternative to weekly inspection – tightly sealed cap or plug with semiannual inspections</u> | <u>Y</u> | |
| 60.692-2(a)(5) | Standards: Individual drain systems; Repair – first attempt within 24 hours of detection unless delay of repair (60.692-6) | <u>Y</u> | |

IV. Source Specific Applicable Requirements

**Table IV – DQ
 Applicable Requirements
 SUBPART QQQ INDIVIDUAL DRAIN SYSTEMS**

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------------|--|-----------------------------|-----------------------|
| 60.692-2(b)(1) | Standards: Individual drain systems; Junction box requirements – <u>vent pipes</u> | <u>Y</u> | |
| 60.692-2(b)(2) | Standards: Individual drain systems; Junction box requirements – <u>sealed covers</u> | <u>Y</u> | |
| 60.692-2(b)(3) | Standards: Individual drain systems; Junction box requirements – <u>sealed covers - semiannual visual inspections</u> | <u>Y</u> | |
| 60.692-2(b)(3) | Standards: Individual drain systems; Junction box requirements – <u>Repairs – first attempt within 15 calendar days after detection except delay of repair (60.692-6)</u> | <u>Y</u> | |
| 60.692-2(c)(1) | Sewer lines shall be covered or enclosed with no visual gaps or cracks in joints, seals or other emission interfaces. | Y | |
| 60.692-2(c)(2) | Inspect unburied portion of sewer lines semiannually for cracks gaps or other problems that could result in VOC emissions. | Y | |
| 60.692-2(c)(3) | Repair sewer problems as soon as practicable but not later than 15 calendar days after identification. | Y | |
| 60.692-2(d) | Standards: Individual drain systems; Exemption for systems with <u>catch basins installed prior to May 4, 1987</u> | <u>Y</u> | |
| 60.692-2(e) | Standards: Individual drain systems; Refinery wastewater routed <u>through new process drains and a new first common downstream junction box as part of new or existing individual drain system, shall not be routed through a downstream catch basin.</u> | <u>Y</u> | |
| 60.692-6 | Delay of Repair Standards | Y | |
| 60.697 | Recordkeeping Requirements | Y | |
| 60.697(a) | Keep records and retain for 2 years. | Y | |
| 60.697(b)(3) | For sewer lines, location, date, and corrective action recorded for inspections required when a problem is identified that could result in VOC emissions | Y | |
| 60.697(e) | For delay of repair in accordance with 60.692-6, record reason, estimated date, signature of decision maker and actual date of successful repair or corrective action. | Y | |
| 60.697(f)(1) | <u>Recordkeeping requirements; design specifications – retain for life of equipment</u> | <u>Y</u> | |
| 60.697(f)(2) | <u>Recordkeeping requirements; design specifications – information required</u> | <u>Y</u> | |
| 60.697(g) | <u>Recordkeeping requirements; plans showing location of drains with caps and plugs – retain for life of facility</u> | <u>Y</u> | |
| 60.697(h) | For stormwater sewer systems, keep for the life of the facility in a readily accessible location, plans or specifications that demonstrate that no wastewater from any process units or equipment is directly discharged to the stormwater sewer system. | Y | |

IV. Source Specific Applicable Requirements

**Table IV – DQ
 Applicable Requirements
 SUBPART QQQ INDIVIDUAL DRAIN SYSTEMS**

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|-------------------------------|---|------------------------------------|------------------------------|
| 60.697(i) | For ancillary equipment, keep for the life of a facility in a readily accessible location, plans or specifications that demonstrate that the ancillary equipment does not come in contact with or store oily wastewater. | Y | |
| 60.697(j) | For non-contact cooling water systems, keep for the life of the facility in a readily accessible location, plans or specifications which demonstrate that the cooling water does not contact hydrocarbons or oily wastewater and is not recirculated through a cooling tower. | Y | |
| 60.698 | Reporting Requirements | Y | |
| 60.698(b)(1) | Submit semiannually a certification that all of the required inspections have been carried out in accordance with these standards. | Y | |
| 60.698(c) | Submit semiannually report that summarizes inspections when a water seal was dry or otherwise breached, drain cap or plug was missing or when cracks, gaps or other problems were identified , and information about repairs. | Y | |
| BAAQMD Regulation 10-69 | Incorporates by reference 40 CFR 60 Subpart QQQ | Y | |

IV. Source Specific Applicable Requirements

Table IV – DR
Applicable Requirements
SUBPART CC MISCELLANEOUS PROCESS VENTS

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|--------------------------------|---|-----------------------------|-----------------------|
| MACT Part 63 Subpart A | General Provisions | | |
| 63.4 | Prohibited Activities and Circumvention | Y | |
| 63.6(e) | Operation and Maintenance | Y | |
| 63.7 | Performance Testing Requirements | Y | |
| 63.8 | Monitoring Requirements | Y | |
| 63.9 | Notification Requirements | Y | |
| 63.10 | Recordkeeping and Reporting Requirements | Y | |
| MACT Part 63 Subpart CC | National Emission Standards for Hazardous Air Pollutants from Petroleum Refineries (6/23/036/30/10) | | |
| 63.640 | Emission points at petroleum refinery | Y | |
| 63.640(d)(5) | No testing, monitoring, recordkeeping, or reporting is required for refinery fuel gas systems or emission points routed to refinery fuel gas systems | Y | |
| 63.643 | Standards for Miscellaneous Process Vents | Y | |
| 63.643(a)(2) | Reduce emissions of organic HAPs using control device, by 98 weight percent or to concentration of 20 ppmvd, at 3% oxygen, whichever is less stringent. Demonstrate compliance by measuring either organic HAPs or TOCs using procedure in 63.645. | Y | |
| 63.643(b) | If boiler or process heater is used to comply with 63.643(a)(2), then vent stream introduced into flame zone or location such that required reduction or concentrations achieved. Testing and monitoring is required only as specified in 63.644(a) and 63.645. | Y | |
| 63.644 | Monitoring Provisions for Miscellaneous Process Vents | Y | |
| 63.644(a)(3) | Any boiler or process heater with a design heat input capacity greater than or equal to 44 megawatt or any boiler or process heater in which all vent streams are introduced into the flame zone is exempt from monitoring. | Y | |
| 63.644(c)(2) | If Group 1 miscellaneous process vent contain bypass lines, secure bypass line valve in closed position per measures in 63.644(c)(2). Closure mechanism shall be visually inspected once every month. | Y | |
| 63.654 655 | Reporting and Recordkeeping Requirements | Y | |
| 63.654 655(e)(3) | Records include reports described in 63.654 655(h). | Y | |
| 63.654 655(h)(1) | Reports of startup, shutdown and malfunction. | Y | |
| 63.654 655(i)(4)) | All information required to be reported under 63.654 655(a) through (h) shall be retained for 5 years. | Y | |

IV. Source Specific Applicable Requirements

**Table IV – DS
 Applicable Requirements
 SUBPART CC EQUIPMENT LEAKS FOR EQUIPMENT IN ORGANIC HAP SERVICE**

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|--------------------------------|---|-----------------------------|-----------------------|
| MACT Part 63 Subpart A | General Provisions | | |
| 63.4 | Prohibited Activities and Circumvention | Y | |
| 63.6(e) | Operation and Maintenance | Y | |
| 63.7 | Performance Testing Requirements | Y | |
| 63.8 | Monitoring Requirements | Y | |
| 63.9 | Notification Requirements | Y | |
| 63.10 | Recordkeeping and reporting requirements | Y | |
| MACT Part 63 Subpart CC | National Emission Standards for Hazardous Air Pollutants from Petroleum Refineries (6/23/03/30/10) | | |
| 63.648 | Equipment Leak Standards | Y | |
| 63.648(a) | Existing source shall comply with the provisions of 40 CFR 60 Subpart VV and paragraph (b) of this section except as provided in paragraphs 63.648(a)(1), (a)(2), and (f) through (i). | Y | |
| 63.648(f) | Reciprocating pumps in light liquid service are exempt from 60.482 if recasting the distance piece or reciprocating pump replacement is required. | | |
| 63.648(g) | Compressors in hydrogen service are exempt from the requirements of 63.648(a) if an owner operator demonstrates that a compressor is in hydrogen service. | Y | |
| 63.648(h) | Maintain all records for a minimum of 5 years. | Y | |
| 63.648(i) | Reciprocating compressors are exempt from seal requirements if recasting the distance piece or compressor replacement is required. | Y | |
| 63.654655 | Reporting and Recordkeeping Requirements | Y | |
| 63.654655(d)(1)(i) | Comply with recordkeeping and reporting provisions of 60.486 and 60.487 except the name of person whose decision it was that a repair could be effected without a process shutdown shall be recorded and retained for 2 years; a signature is not required. | Y | |
| 63.654655(d)(3) | For compressors that qualify for the hydrogen service exemption keep records of the demonstration required by 63.648(g) | Y | |
| 63.654655(d)(5) | Identify, either by list or location, equipment in organic HAP service less than 300 hours per year within refining process units subject to this subpart. | Y | |
| 63.654655(d)(6) | Keep a list of reciprocating pumps and compressors determined to be exempt from seal requirements as per 63.648(f) and (i). | Y | |
| 63.654655(e)(3) | Records include reports described in 63.654655(h). | Y | |
| 63.654655(h)(1) | Reports of startup, shutdown and malfunction. | Y | |
| 63.654655(i)(4)(5) | All information required to be reported under 63.654655(a) through (h) shall be retained for 5 years. | Y | |

IV. Source Specific Applicable Requirements

**Table IV – DS
 Applicable Requirements
 SUBPART CC EQUIPMENT LEAKS FOR EQUIPMENT IN ORGANIC HAP SERVICE**

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|--|--|-----------------------------|-----------------------|
| NSPS Part 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) | | |
| 60.480 | Applicability and designation of affected facility | Y | |
| 60.480(d) | An affected facility that qualifies for one or more exemption from 60.482 shall maintain records as required in 60.486(i). | Y | |
| 60.482-1 | Standards: General | Y | |
| 60.482-1(b) | Compliance with 60.482-1 to 60.482-10 will be determined.... | Y | |
| 60.482-1(d) | Equipment that is in vacuum service is excluded from the requirements of 60.482-2 to 60.482-10 if it is identified as required in 60.486(e)(5). | Y | |
| 60.482-2 | Standards: Pumps in light liquid service | Y | |
| 60.482-2(a)(1) | Monthly monitoring of each pump, except for 60.482-2(d). | Y | |
| 60.482-2(a)(2) | Weekly visual inspection of each pump. | Y | |
| 60.482-2(b)(1) | Air measurement instrument reading >10,000 ppm indicates leak | Y | |
| 60.482-2(b)(2) | Dripping liquid from pump seal indicates leak | Y | |
| 60.482-2(c)(1) | Leak repaired within 15 calendar days, except as provided in 60.482-9. | Y | |
| 60.482-2(c)(2) | First attempt at leak repair made within 5 calendar days. | Y | |
| 60.482-2(d) | Pump with dual-mechanical seal system that includes barrier fluid system and meets specified requirements is exempt from 60.482-2(a). | Y | |
| 60.482-2(g) | Pump designated, per 60.486(f)(1), as unsafe-to-monitor pump is exempt from 60.482-2(a) and (d)(4) through (d)(6) if hazard documented and written monitoring plan is followed. | Y | |
| 60.482-2(h) | Any pump located in an unmanned plant site is exempt from the requirements of 60.482-2(a)(2), (d)(4) and (d)(5) provided each pump is visually inspected as often as practicable and at least monthly. | Y | |
| 60.482-4 | Standards: Pressure relief devices in gas/vapor service | Y | |
| 60.482-4(a) | Except during pressure releases, pressure relief device shall be operated with no detectable emissions (< 500 ppm). | Y | |
| 60.482-4(b)(1) | After each pressure release, pressure release device shall be returned to a condition of no detectable emissions within 5 calendar days after pressure release, except as provided in 60.482-9. | Y | |
| 60.482-4(b)(2) | No later than 5 calendar days after pressure release, the pressure relief device shall be monitored to confirm no detectable emissions. | Y | |
| 60.482-4(c) | Any pressure relief device that is routed to a process or fuel gas system is exempt from 60.482-4(a) and (b). | Y | |
| 60.482-4(d)(1) | Any pressure relief device that is equipped with a rupture disk upstream of the pressure relief device is exempt from 60.482-4(a) and (b) provided complies with 60.482-4(d)(2). | Y | |

IV. Source Specific Applicable Requirements

**Table IV – DS
 Applicable Requirements
 SUBPART CC EQUIPMENT LEAKS FOR EQUIPMENT IN ORGANIC HAP SERVICE**

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------------|--|-----------------------------|-----------------------|
| 60.482-4(d)(2) | After each pressure release, a new rupture disk shall be installed upstream of the pressure relief device as soon as practicable, but no later than 5 calendar days after each pressure release, except as provided in 60.482-9. | Y | |
| 60.482-5 | Standards: Sampling connecting systems | Y | |
| 60.482-6 | Standards: Open-ended valves or lines | Y | |
| 60.482-7 | Standards: Valves in gas/vapor service and in light liquid service | Y | |
| 60.482-7(a) | Monitor monthly to detect leaks, except as provided in 60.482-7(g) and (h) and 60.483-2. | Y | |
| 60.482-7(b) | Instrument reading >10,000 ppm indicates leak. | Y | |
| 60.482-7(c) | Valve that does not have a detectable leak for 2 successive months, can be monitored the first month of every quarter. | Y | |
| 60.482-7(d)(1) | Leak shall be repaired within 15 calendar days, except as provided in 60.482-9. | Y | |
| 60.482-7(d)(2) | First attempt at leak repair shall be made within 5 calendar days. | Y | |
| 60.482-7(e) | Methods for first attempt at repair. | Y | |
| 60.482-7(g) | Valve designated, per 60.486(f)(1), as unsafe-to-monitor valve is exempt from 60.482-7(a) if hazard documented and written monitoring plan is followed. | Y | |
| 60.482-7(h) | Valve designated, per 60.486(f)(1), as difficult-to-monitor valve is exempt from 60.482-7(a) if hazard documented, less than 3% of facility valves are designated and written plan with is followed that requires monitoring at least once per year. | Y | |
| 60.482-8 | Standards: Pumps and valves in heavy liquid service, pressure relief devices in light liquid or heavy liquid service, and flanges and other connectors. | Y | |
| 60.482-8(a) | Monitor within 5 days if evidence of potential leak is found. | Y | |
| 60.482-8(b) | Instrument reading >10,000 ppm indicates leak. | Y | |
| 60.482-8(c)(1) | Leak shall be repaired within 15 calendar days, except as provided in 60.482-9. | Y | |
| 60.482-8(c)(2) | First attempt at leak repair shall be made within 5 calendar days. | Y | |
| 60.482-8(d) | Minimum requirements for first attempt at repair. | Y | |
| 60.482-9 | Standards: Delay of Repair | | |
| 60.482-9(a) | Delay allowed if repair is technically infeasible without a process unit shutdown and repair occurs before end of next process unit shutdown. | Y | |
| 60.482-9(b) | Repair may be delayed for isolated equipment. | Y | |
| 60.482-9(c) | Delay of repair for valves only allowed under certain circumstances. | 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(e) | Delay of repair beyond process shutdown allowed if valve assembly replacement is required and other circumstances are met. | Y | |

IV. Source Specific Applicable Requirements

**Table IV – DS
 Applicable Requirements
 SUBPART CC EQUIPMENT LEAKS FOR EQUIPMENT IN ORGANIC HAP SERVICE**

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|--------------------------------|--|-----------------------------|-----------------------|
| 60.483-2 | 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 | |
| 60.485(a) | Performance tests methods specified in Appendix A or 60.8(b) | Y | |
| 60.485(b) | Method 21 for determining presence of leaking sources. | Y | |
| 60.485(d) | Test each piece of equipment unless process unit not in VOC series. | Y | |
| 60.485(e) | Light liquid service demonstrated by vapor pressure and if liquid at operating conditions. | Y | |
| 60.485(f) | Samples representative of process fluid. | Y | |
| 60.486 | Record keeping Requirements | Y | |
| 60.486(a) | Comply with recordkeeping requirements of this section. | Y | |
| 60.486(b) | Identification and tagging requirements for leaks detected as specified in 60.482-2, 60.482-3, 60.482-7, 60.482-8, and 60.483-2. | Y | |
| 60.486(c) | When leak detected as specified in 60.482-2, 60.482-3, 60.482-7, 60.482-8, and 60.483-2, record in log and keep for 2 years. | Y | |
| 60.486(e) | Information to be recorded for all equipment subject to requirements in 60.482-1 through 60.482-10. | Y | |
| 60.486(f) | Record information pertaining to all valves subject to the requirements in 60.482-7(g) and (h). | Y | |
| 60.486(g) | Record information pertaining to all valves subject to the requirements in 60.483-2. | Y | |
| 60.486(h) | Record design criterion required in 60.482-2(d)(5) and 60.482-3(e)(2). | Y | |
| 60.486(i) | Record information in log that is readily accessible for use in determining exemption as provided in 60.480(d). | Y | |
| 60.486(j) | Records to demonstrate piece of equipment not in VOC service. | Y | |
| 60.486(k) | Provisions of 60.7(b) and (d) do not apply if subject to VV. | Y | |
| 60.487 | Reporting Requirements | Y | |
| 60.487(a) | Submit semiannual reports. | Y | |
| 60.487(c) | Information to be included in semiannual reports. | Y | |
| 60.487(e) | Report results of all performance tests in accordance with 60.8. The provisions of 60.8(d) do not apply to affected facilities subject to VV. | Y | |
| 60.487(f) | The requirements of paragraphs (a) through (c) of this section remain in force until and unless EPA, in delegating enforcement authority to a State, approves reporting requirements or an alternative means of compliance surveillance adopted by such State. | Y | |
| BAAQMD Regulation 10-52 | Incorporates by reference 40 CFR 60 Subpart VV | Y | |

IV. Source Specific Applicable Requirements

Table IV – DT
Source-specific Applicable Requirements
SUBPART FF CONTAINERS

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|--|--|-----------------------------|-----------------------|
| District Regulation 11 Rule 12 | Hazardous Pollutants – National Emission Standards for Benzene Emissions from Benzene Transfer Operations and Benzene Waste Operations (7/18/90, Refer to NESHAP Subpart FF below) | | |
| NESHAP Part 61 Subpart A | National Emission Standards for Hazardous Air Pollutants - General Provisions (3/16/95) | | |
| 61.10(h), (i), and (j) | Source reporting and waiver request | Y | |
| 61.12(a), (b) and (c) | Compliance with standards and maintenance requirements | Y | |
| 61.13(b), (c), (d), (e), (f), (g) and (h) | Emission tests and waiver of emission tests | Y | |
| 61.14 | Monitoring requirements | Y | |
| 61.19 | Circumvention | Y | |
| NESHAP Part 61 Subpart FF; BAAQMD 11-12 | National Emission Standard for Benzene Waste Operations (3/7/90) | | |
| 61.345 | Standards: Containers (3/7/90) | Y | |
| 61.345(a)(1)(i) | Cover and all openings on each container used to handle, transfer, or store waste shall be designed, operated and maintained to < 500 ppmv above background. Instrument reading at least once per year. | Y | |
| 61.345(a)(1)(ii) | Keep all openings on container closed, in sealed position except when necessary for waste loading, removal, inspection, or sampling. | Y | |
| 61.345(a)(2) | Wastes transferred into a container by pumping, use submerged fill pipe with outlet extending to within 2 fill pipe diameters from the bottom. During loading, cover shall remain in place and all openings closed, sealed, except for openings required for submerged fill pipe, and openings required for venting to prevent physical damage or deformation of container or cover. | Y | |
| 61.345(b) | Covers and openings shall be visually inspected initially and quarterly to ensure they are closed and gasketed properly. | Y | |
| 61.345(c) | Except as provided in 61.350, when a broken seal or gasket or other problem is identified, first efforts to repair shall be made as soon as practicable, but no later than 15 calendar days after identification. | Y | |
| 61.350 | Delay of Repair | Y | |
| 61.355 | Test methods, procedures and compliance provisions | Y | |
| 61.355(h) | Leak inspection procedures | Y | |
| 61.356 | Recordkeeping Requirements | Y | |

IV. Source Specific Applicable Requirements

Table IV – DT
Source-specific Applicable Requirements
SUBPART FF CONTAINERS

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|--------------------------------|---|-----------------------------|-----------------------|
| 61.356(a) | Retain records for two years | Y | |
| 61.356(g) | Maintain record for each visual inspection that identifies problem. | Y | |
| 61.356(h) | Maintain records of tests of no detectable emissions. | Y | |
| 61.357 | Reporting Requirements | Y | |
| 61.357(d)(6) | Submit quarterly certification that all required inspections have been conducted. | Y | |
| 61.357(d)(8) | Submit annual summary of all inspections during which detectable emissions are measured or a problem is identified, repaired or corrected. | Y | |
| MACT Part 63 Subpart A | National Emission Standards for Hazardous Air Pollutants for Source Categories (3/16/94, Note: For details see Table IV-N below) | | |
| 63.4 | Prohibited Activities and Circumvention | Y | |
| 63.6(e) | Operation and Maintenance | Y | |
| 63.7 | Performance Testing Requirements | Y | |
| 63.8 | Monitoring Requirements | Y | |
| 63.9 | Notification Requirements | Y | |
| 63.10 | Recordkeeping and Reporting Requirements | Y | |
| MACT Part 63 Subpart CC | National Emissions Standards for Hazardous Air Pollutants from Petroleum Refineries (6/23/03^{18/956/30/10}) | | |
| 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 61, Subpart FF for each stream that meets the definition of 63.641. | Y | |
| 63.647(c) | Owners/operators required under 40 CFR 61, Subpart FF 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 | |
| 63.654 655 | Reporting and Recordkeeping Requirements | Y | |
| 63.654 655(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 | |
| 63.654 655(i)(45) | All information required to be reported under 63.654 655(a) through (h) shall be retained for 5 years. | Y | |

IV. Source Specific Applicable Requirements

Table IV – DU
Source-specific Applicable Requirements
SUBPART FF INDIVIDUAL DRAIN SYSTEMS

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|--|---|-----------------------------|-----------------------|
| District Regulation 11 Rule 12 | Hazardous Pollutants – National Emission Standards for Benzene Emissions from Benzene Transfer Operations and Benzene Waste Operations (7/18/90, Refer to NESHAP Subpart FF below) | | |
| NESHAP Part 40 Subpart A | National Emission Standards for Hazardous Air Pollutants - General Provisions (3/16/95) | | |
| 61.10(h), (i), and (j) | Source reporting and waiver request | Y | |
| 61.12(a), (b) and (c) | Compliance with standards and maintenance requirements | Y | |
| 61.13(b), (c), (d), (e), (f), (g) and (h) | Emission tests and waiver of emission tests | Y | |
| 61.14 | Monitoring requirements | Y | |
| 61.19 | Circumvention | Y | |
| NESHAP Part 61 Subpart FF; BAAQMD 11-12 | National Emission Standard for Benzene Waste Operations (3/7/90) | | |
| 61.346 | Standards: Individual Drain Systems | Y | |
| 61.346(b) | Alternative to complying with 61.346(a) | Y | |
| 61.346(b)(3) | Each sewer line shall not be open to the atmosphere and shall be covered or enclosed in a manner so as to have no visual gaps or cracks in joints, seals or other emission interfaces. | Y | |
| 61.346(b)(4)(iv) | Unburied portion of each sewer line shall be visually inspected quarterly for indications of cracks, gaps or other problems. | Y | |
| 61.346(b)(5) | Except as provided in 61.350, first efforts at repair shall be made as soon as practicable, but not later than 15 calendar days after identification. | Y | |
| 61.350 | Delay of Repair | Y | |
| 61.356 | Recordkeeping Requirements | Y | |
| 61.356(a) | Retain records for two years. | Y | |
| 61.356(g) | Maintain record for each visual inspection that identifies problem | Y | |
| 61.357 | Reporting requirements | Y | |
| 61.357(d)(6) | Submit quarterly certification that all required inspections have been conducted. | Y | |
| 61.357(d)(8) | Submit annual summary of all inspections during which detectable emissions are measured or a problem is identified, repaired or corrected. | Y | |
| NESHAP Part 63 | National Emission Standards for Hazardous Air Pollutants for Source Categories (Note: For details see Table IV-N below) | Y | |

IV. Source Specific Applicable Requirements

Table IV – DU
Source-specific Applicable Requirements
SUBPART FF INDIVIDUAL DRAIN SYSTEMS

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|--------------------------------|---|-----------------------------|-----------------------|
| Subpart A | | | |
| 63.4 | Prohibited Activities and Circumvention | Y | |
| 63.6(e) | Operation and Maintenance | Y | |
| 63.7 | Performance Testing Requirements | Y | |
| 63.8 | Monitoring Requirements | Y | |
| 63.9 | Notification Requirements | Y | |
| 63.10 | Recordkeeping and Reporting Requirements | Y | |
| MACT Part 63 Subpart CC | National Emissions Standards for Hazardous Air Pollutants from Petroleum Refineries (62/038/18/956/30/10) | | |
| 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 61, Subpart FF for each stream that meets the definition of 63.641. | Y | |
| 63.647(c) | Owners/operators required under 40 CFR 61, Subpart FF 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 | |
| 63.654 655 | Reporting and Recordkeeping Requirements | Y | |
| 63.654 655(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 | |
| 63.654 655(i)(45) | All information required to be reported under 63.654 655(a) through (h) shall be retained for 5 years. | Y | |

IV. Source Specific Applicable Requirements

Table IV – DV
Source-specific Applicable Requirements
FACILITY

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|--|---|-----------------------------|-----------------------|
| BAAQMD Regulation 1 | General Provisions and Definitions (7/19/065/02/01) | | |
| 1-510 | Area Monitoring | Y | |
| 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 | |
| 1-544 | Monthly Summary | Y | |
| BAAQMD Regulation 2, Rule 1 | General Requirements (8/1/017/19/06) | | |
| 2-1-429 | Federal Emissions Statement | N | |
| SIP Regulation 2, Rule 1 | General Requirements (01/26/99) | | |
| 2-1-429 | Federal Emissions Statement | Y | |
| BAAQMD - Regulation 8, Rule 5 | Organic Compounds, Storage of Organic Liquids (10/18/06) | | |
| 8-5-117 | Limited Exemption, Low Vapor Pressure | N | |
| SIP BAAQMD - Regulation 8, Rule 5 | Organic Compounds, Storage of Organic Liquids (06/05/03) | | |
| 8-5-117 | Exemption, Low Vapor Pressure | Y | |
| BAAQMD Regulation 8, Rule 10 | Organic Compound – 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 | |

IV. Source Specific Applicable Requirements

Table IV – DV
Source-specific Applicable Requirements
FACILITY

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|-------------------------------------|---|-----------------------------|-----------------------|
| 8-10-601 | Monitoring Procedures | N | |
| SIP Regulation 8, Rule 10 | Organic Compound – Process Vessel Depressurization (7/20/83) | | |
| 8-10-301 | Process Vessel Depressurizing. | 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. | 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 Regulation 8, Rule 15 | Emulsified and Liquid Asphalts (09/16/87; amended 06/01/94) | | |
| 8-15-305 | Prohibition of Manufacturer and Sale | Y | |
| 8-15-501 | Manufacturing Records | Y | |
| BAAQMD Regulation 8, Rule 16 | Solvent Cleaning Operations (10/16/02) | | |
| 8-16-111 | Limited Exemption, Wipe Cleaning | Y N | |
| 8-16-115 | Limited Exemption, Small Unheated Solvent Cleaning Equipment | Y N | |
| 8-16-118 | Limited Exemption, Compounds with Low Volatility | Y N | |
| 8-16-303 | Cold Cleaner Requirements | Y N | |
| 8-16-303.1 | General Operating Requirements | Y | |
| 8-16-303.1.1 | Maintain equipment in good working order. | Y | |
| 8-16-303.1.2 | Leak Repair Requirement | Y | |
| 8-16-303.1.3 | Solvent Storage or Disposal – Evaporation Prevention | Y | |
| 8-16-303.1.4 | Waste Solvent Disposal | Y N | |
| 8-16-303.1.4(a) | Covered Containers for Waste Solvent Awaiting Pick-up | Y N | |
| 8-16-303.1.4(b) | On-site Waste Treatment | Y N | |
| 8-16-303.1.5 | Solvent Evaporation Minimization Devices shall not be Removed | Y N | |
| 8-16-303.1.6 | Solvent Spray Requirements | Y N | |
| 8-16-303.2 | Cold Cleaner Operating Requirements | Y | |
| 8-16-303.2.1 | Solvent shall be Drained from Cleaned Parts | Y | |

IV. Source Specific Applicable Requirements

Table IV – DV
Source-specific Applicable Requirements
FACILITY

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|----------------------------------|--|-----------------------------|-----------------------|
| 8-16-303.2.2 | Solvent Agitation | Y | |
| 8-16-303.2.3 | Solvent Cleaning of Porous or Absorbent Materials is Prohibited | Y | |
| 8-16-303.3 | Cold Cleaner General Equipment Requirements | Y | |
| 8-16-303.3.1 | Container | Y | |
| 8-16-303.3.2 | Solvent Evaporation Reduction for Idle Equipment | Y | |
| 8-16-303.3.3 | Used Solvent Returned to Container | Y | |
| 8-16-303.3.4 | Label Stating Operating Requirements | Y | |
| 8-16-303.4 | Control Device (one of the following) | Y | |
| 8-16-303.4.1 | Freeboard Ratio > 0.75 | Y | |
| 8-16-303.5 | VOC content < 0.42 pounds per gallon or comply with 8-16-303.4.1 and other options | Y | |
| 8-16-501 | Solvent Records | Y | |
| 8-16-501.2 | Facility-wide Monthly Solvent Usage Records | Y | |
| 8-16-501.3 | Annual Records of Type and Amount of Solvent Used for Wipe Cleaning | Y | |
| 8-16-501.5 | Records Retained | Y | |
| SIP Regulation 8, Rule 16 | Solvent Cleaning Operations (12/9/94) | | |
| 8-16-111 | Limited Exemption, Wipe Cleaning | Y | |
| 8-16-115 | Limited Exemption, Small Unheated Solvent Cleaning Equipment | Y | |
| 8-16-118 | Limited Exemption, Compounds with Low Volatility | 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 | |
| 8-16-303.1.4(b) | On site Waste Treatment | Y | |
| 8-16-303.1.5 | Solvent Evaporation Minimization Devices shall not be Removed | Y | |
| 8-16-303.1.6 | Solvent Spray Requirements | Y | |
| 8-16-303.2 | Cold Cleaner General Equipment Requirements | Y | |
| 8-16-303.2.2 | Solvent Evaporation Reduction for Idle Equipment | Y | |
| 8-16-303.2.3 | Used Solvent Returned to Container | Y | |
| 8-16-303.3.4 | Label Stating Operating Requirements | Y | |
| 8-16-303.4 | Control Device (one of the following) | Y | |
| 8-16-303.4.1 | Freeboard Ratio > 0.75 | Y | |
| 8-16-501 | Solvent Records | Y | |
| 8-16-501.2 | Facility wide Quarterly Solvent Usage Records | Y | |

IV. Source Specific Applicable Requirements

Table IV – DV
Source-specific Applicable Requirements
FACILITY

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|-----------------------------|-----------------------|
| BAAQMD & SIP Regulation 8, Rule 40 | Aeration of Contaminated Soil and Removal of Underground Storage Tanks (04/19/2001) <u>Note:</u> BAAQMD rule effective date: 6/15/05 Section 8-40-118 of BAAQMD rule amended 6/15/05. | | |
| 8-40-116 | Exemption, Small Volume | Y | |
| 8-40-205 | Contaminated Soil | Y | |
| 8-40-304 | Active Storage Piles | Y | |
| 8-40-305 | Inactive Storage Piles | Y | |
| 8-40-306 | Contaminated Soil – Excavation and Removal | Y | |
| 8-40-306.4 | Requirements and Schedule | Y | |
| 8-40-601 | Contaminated Soil Sampling | Y | |
| 8-40-601.2 | Sampling Requirements for Exemption under 8-40-116.2 | Y | |
| 8-40-601.3 | Sampling Requirements for Projects Subject to 8-40_306.4 with 250 cubic yards or less | Y | |
| 8-40-601.4 | Sampling Requirements for Projects Subject to 8-40_306.4 with more than 250 cubic yards | 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 | |
| 9-1-301 | 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) | N | |
| 9-1-313.2 | Operation of a sulfur removal and recovery system that removes and recovers: 95% of H ₂ S from refinery fuel gas, 95% of H ₂ S and ammonia from process water streams | Y | |
| 9-1-501 | Area Monitoring Requirements (Regulations 1-510, 1-530, 1-540, 1-542, 1-543, 1-544) | Y | |
| SIP Regulation 9, Rule 1 | Inorganic Gaseous Pollutants – Sulfur Dioxide (06/08/99) | | |
| 9-1-313.2 | operation of a sulfur removal and recovery system that removes and recovers: 95% of H ₂ S from refinery fuel gas, 95% of H ₂ S and ammonia from process water streams | Y | |
| BAAQMD Regulation 9, Rule 2 | Inorganic Gaseous Pollutants- Hydrogen Sulfide (10/6/99) | | |

IV. Source Specific Applicable Requirements

Table IV – DV
Source-specific Applicable Requirements
FACILITY

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|-------------------------------------|--|-----------------------------|-----------------------|
| 9-2-301 | Limitations on Ground Level Concentrations | N | |
| 9-2-501 | Area Monitoring Requirements | 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 | |
| NSPS 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 | |
| 60.11 | Compliance with standards and maintenance requirements | Y | |
| 60.12 | Circumstances | Y | |
| 60.13 | Monitoring requirements | Y | |
| 60.14 | Modifications | Y | |
| 60.15 | Reconstruction | Y | |
| 60.17 | Incorporation by reference | Y | |
| 60.19 | General notification and reporting requirements | Y | |
| NESHAP Part 61 Subpart A | National Emission Standards for Hazardous Air Pollutants - General Provisions (3/16/95) | | |
| 61.10(h), (i), and (j) | Source reporting and waiver request | Y | |
| 61.12(a), (b) and (c) | Compliance with standards and maintenance requirements | Y | |

IV. Source Specific Applicable Requirements

Table IV – DV
Source-specific Applicable Requirements
FACILITY

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|--|---|-----------------------------|-----------------------|
| 61.13(b), (c), (d), (e), (f), (g) and (h) | Emission tests and waiver of emission tests | Y | |
| 61.14 | Monitoring requirements | Y | |
| 61.19 | Circumvention | Y | |
| NESHAP Part 61 Subpart M | National Emission Standard for Asbestos (11/20/90) | | |
| NESHAP Part 61 Subpart FF; BAAQMD 11-12 | National Emission Standard for Benzene Waste Operations (3/7/90) | | |
| 61.342 | Standards: General | Y | |
| 61.342(b) | Facilities with 10 Mg/yr or more of benzene in waste shall comply with 61.342(c) through 61.342(h) | Y | |
| 61.342(e) | Alternative to 61.342(c) and 61.342(d) standards for facilities with 10 Mg/yr or more of benzene in waste | Y | |
| 61.342(e)(1) | Non aqueous wastes (with a flow-weighted annual average water content of less than 10%) shall be treated in accordance with 61.342(c)(1) | Y | |
| 61.342(e)(2) | Aqueous wastes (with a flow-weighted annual average water content of 10% or more by volume) shall be limited to 6 Mg/yr. Waste routed to enhanced biodegradation units is not included in this total. | Y | |
| 61.342(g) | Compliance with 61.342(e) is determined by review of facility records and results from tests and inspections using methods and procedures specified in 61.355. | Y | |
| 61.355 | Test Methods, Procedures, and Compliance Procedures | Y | |
| 61.355(a) | Procedures for determining total annual benzene quantity from facility waste. | Y | |
| 61.355(b) | For purposes of the calculation required by 61.355(a), determine the annual waste quantity at the point of waste generation, unless otherwise provided in paragraphs (b)(1), (2), (3), and (4) of this section, by one of the methods given in paragraphs (b)(5) through (7) of this section. | Y | |
| 61.355(c) | For the purposes of the calculation required 61.355(a), determine the flow-weighted annual average benzene concentration in a manner that meets the requirements given in paragraph (c)(1) of this section using either of the methods given in paragraphs (c)(2) and (c)(3) of this section. | Y | |
| 61.355(k) | Procedure for determining the benzene quantity for the purposes of the calculation required by 61.342(e)(2). | Y | |

IV. Source Specific Applicable Requirements

Table IV – DV
Source-specific Applicable Requirements
FACILITY

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---------------------------------|--|-----------------------------|-----------------------|
| 61.356 | Recordkeeping Requirements | Y | |
| 61.356(a) | Retain records for two years. | Y | |
| 61.356(b) | Maintain records that identify each waste stream at the facility subject to this subpart, and indicate whether or not the waste stream is controlled for benzene emissions in accordance with this subpart. In addition the owner or operator shall maintain records specified in this section. | Y | |
| 61.357 | Reporting requirements | Y | |
| 61.357(a) | Specifies information to be included in annual report. | Y | |
| 61.357(d)(2) | Annually submit a report to the Administrator that updates the information listed in 61.357(a)(1) through (a)(3). If the information in the annual report required by 61.357(a)(1) through (a)(3) of this section is not changed in the following year, the owner or operator may submit a statement to that effect. | Y | |
| 61.357(d)(5) | If an owner or operator elects to comply with the alternative requirements 61.342(e), then the report required by paragraph 61.357(d)(2) shall include a table presenting the information specified in this section for each waste stream. | Y | |
| 61.357(d)(6) | Submit quarterly certification that all required inspections have been conducted. | Y | |
| 61.357(d)(7) | Reporting requirements | Y | |
| 61.357(d)(8) | Reporting requirements | Y | |
| NESHAP Part 63 Subpart A | National Emission Standards for Hazardous Air Pollutants for Source Categories | | |
| 63.4 | Prohibited Activities and Circumvention | Y | |
| 63.6(e) | Operation and Maintenance | Y | |
| 63.7 | Performance Testing Requirements | Y | |
| 63.8 | Monitoring Requirements | Y | |
| 63.9 | Notification Requirements | Y | |
| 63.10 | Recordkeeping and Reporting Requirements | Y | |
| 40 CFR 63 | 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 | |

IV. Source Specific Applicable Requirements

Table IV – DV
Source-specific Applicable Requirements
FACILITY

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|--------------------------------|---|-----------------------------|-----------------------|
| 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 Organic Liquids Distribution | 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 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(e)(1) | Submit a Part 2 MACT application meeting the requirements of 63.53(b) for Process Heaters (that burn hazardous waste) | Y | 11/12/05 |
| 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 | |
| MACT Part 63 Subpart CC | National Emissions Standards for Hazardous Air Pollutants from Petroleum Refineries 6/23/03 6/30/10 (8/18/95) | | |
| 63.642 | General Standards | Y | |
| 63.642(k) | As an alternative to compliance with 63.642(g), comply with the provisions in 63.643 through 63.647. | Y | |
| 63.642(k)(1) | Comply with applicable provisions of 63.654 655. | Y | |
| 63.642(k)(2) | Not required to calculate the annual emission rate specified in 63.642(g) | 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 61, Subpart FF for each stream that meets the definition of 63.641. | Y | |
| 63.647(c) | Owners/operators required under 40 CFR 61, Subpart FF 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 | |
| 63.654 655 | Reporting and Recordkeeping Requirements | Y | |

IV. Source Specific Applicable Requirements

Table IV – DV
Source-specific Applicable Requirements
FACILITY

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---------------------------------|---|-----------------------------|-----------------------|
| 63.654655(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 | |
| 63.654655(i)(45) | All information required to be reported under 63.654655(a) through (h) shall be retained for 5 years. | Y | |
| 40 CFR Part 98 | Mandatory Greenhouse Gas Reporting | | |
| <u>Subpart A</u> | <u>General Provision</u> | <u>Y</u> | |
| <u>Subpart C</u> | <u>General Stationary Fuel Combustion Sources</u> | <u>Y</u> | |
| <u>Subpart P</u> | <u>Hydrogen Production</u> | <u>Y</u> | |
| <u>Subpart Y</u> | <u>Petroleum Refineries</u> | <u>Y</u> | |
| <u>Subpart MM</u> | <u>Suppliers of Petroleum Products</u> | <u>Y</u> | |
| BAAQMD Condition # 12271 | | | |
| Part 50 | Isom Feed storage throughput limit [basis: Cumulative Increase] | Y | |
| Part L | Recordkeeping [basis: BACT, Offsets, Cumulative Increase] | Y | |
| Part M | Monthly reports [basis: Offsets, Cumulative Increase] | Y | |
| BAAQMD Condition # 18618 | | | |
| Part 11 | Notification of startup or shutdown [basis: Regulation 2-1-403] | N | |
| BAAQMD Condition #20762 | | | |
| Part 1 | Verify true vapor pressure (8-5-117) | Y | |
| Part 2 | Recordkeeping (8-5-117) | Y | |

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IV. Source Specific Applicable Requirements

Table IV – DW
Source-specific Applicable Requirements
EXEMPT TANKS

S1-Tank 1, S2-Tank 2, S8-Tank 8, S10-Tank 10, S25-Tank 25, S28-Tank 28, S33-Tank 33, S49-Tank 49, S50-Tank 50, S53-Tank 53, S130-Tank 130, S145-Tank 145, S146-Tank 146, S147-Tank 147, S148-Tank 148 S149-Tank 149, S222-Tank 222, S258-Tank 258, S263-Tank 263, S267-Tank 267, S332-Tank 332, S334-Tank 334, S335-Tank 335, S336-Tank 336, S337-Tank 337, S346-Tank 346, S356-Tank 356, S393-Tank 393, S394-Tank 394, S400-Tank 400, S401-Tank 401, S418-Tank 418, S419-Tank 419, S467-Tank 467, S468-Tank 468, S475-Tank 475 S476-Tank 476, S477-Tank 477, S478-Tank 478, S485-Tank 485, S536-Tank 536 S537-Tank 537, S597-Tank 597, S608-Tank 608, S609-Tank 609, S713-Tank 713, S714-Tank 714, S806-Tank 806, S814-Tank 814, S833-Tank 833 S834-Tank 834, S835-Tank 835, S839-Tank 839, S850-Tank 850, S851-Tank 851, S869-Tank 869, S879-Tank 879, S888-Tank 888, S890-Tank 890, S902-Tank 902, S903-Tank 903, S928-Tank 928, S929-Tank 929, S932-Tank 932, S933-Tank 933, S934-Tank 934, S935-Tank 935, S953-Tank 953, S954-Tank 954, S955-Tank 955, S956-Tank 956 S959-Tank 959, S962-Tank 962, S965-Tank 965, S966-Tank 966, S968-Tank 968, S980-Tank 980 (Butane Sphere), S981-Tank 981, S987-Tank 987, S988-Tank 988, S1003-Tank 1003, S1012-Tank 1012, S1020-Tank 1020, S1027-Tank 1027 S1032-Tank 1032, S1034-Tank 1034, S1040-Tank 1040, S1047-Tank 1047 (Butane Sphere), S1049-Tank 1049, S1052-Tank 1052, S1053-Tank 1053, S1054-Tank 1054, S1055-Tank 1055, S1056-Tank 1056, S1057-Tank 1057, S1058-Tank 1058, S1059-Tank 1059, S1060-Tank 1060, S1061-Tank 1061, S1062-Tank 1062, S1066-Tank 1066, S1068-Tank 1068, S1069-Tank 1069, S1073-Tank 1073, S1074-Tank 1074, S1081-Tank 1081, S1084-Tank 1084, S1112-Tank 1112, S1125-Tank 1125, S1128-Tank 1128, S1132-Tank 1132, S1142-Tank 1142, S1143-Tank 1143, S1144-Tank 1144, S1149-V 1049 Butane Sphere, S1150-V 1150 Butane Sphere, S1151-V 1151 Butane Sphere, S1152-V 1152 Propane Bullet, S1153-V 1153 Propane Bullet, S1154-V 1154 Propane Bullet, S1165-Tank 1165, S1173-Tank 1173, S1174-Tank 1174, S1175-Tank 1175, S1190-Tank 1190, S1231-Tank 1231 Fresh DEA, S1347-Tank 1347, S1348-Tank 1348, S1780- Tank 1338 Butane Sphere, S1781- Tank 1341 Propane Bullet, S2006-Tank 906 Caustic Service, S5123-LOG V-15115 Standby Proto Vessel, S5124-LOG V-15116 Standby Proto Vessel, S12166-Tank 12166

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|--|---|-----------------------------|-----------------------|
| BAAQMD - Regulation 8, Rule 5 | Organic Compounds, Storage of Organic Liquids (10/18/06) | | |
| 8-5-117 | Exemption, Low Vapor Pressure | N | |
| SIP BAAQMD - Regulation 8, Rule 5 | Organic Compounds, Storage of Organic Liquids (06/05/03) | | |
| 8-5-117 | Exemption, Low Vapor Pressure | Y | |

Table IV – DX
Source-specific Applicable Requirements
S6061 – FLEXICOKER UNIT (FXU) TRANSLOADING

IV. Source Specific Applicable Requirements

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|-----------------------------------|--|-----------------------------|-----------------------|
| BAAQMD Regulation 6 Rule 1 | Particulate Matter – General Requirements Particulate Matter and Visible Emissions (12/05/0709/04/98) | | |
| 6-1-301 | Ringelmann No. 1 Limitation | N | |
| 6-1-305 | Visible Particles | N | |
| 6-1-310 | Particulate Weight Limitation | N | |
| 6-1-311 | General Operations (process weight rate limitation) | N | |
| 6-1-401 | Appearance of Emissions | N | |
| SIP Regulation 6 | Particulate Matter and Visible Emissions (9/4/98) | | |
| 6-301 | Ringelmann No. 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 # 21671 | | | |
| Part 1 | Abatement Requirement [basis: Regulation 6-1-301] | Y N | |
| Part 2 | Annual throughput limit [basis: Cumulative Increase] | Y | |
| Part 3 | Recordkeeping Requirements [basis: Regulation 2-6-501] | Y | |

Table IV – DY
Source-specific Applicable Requirements
S6068, ASPHALT TANK

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|-----------------------------------|---|-----------------------------|-----------------------|
| BAAQMD Regulation 6 Rule 1 | Particulate Matter – General Requirements (12/05/07) | | |
| 6-1-301 | Ringelmann No. 1 Limitation | N | |
| 6-1-305 | Visible Particles | N | |
| 6-1-311 | General Operations (process weight rate limitation) | N | |

IV. Source Specific Applicable Requirements

Table IV – DY
Source-specific Applicable Requirements
S6068, ASPHALT TANK

| <u>Applicable Requirement</u> | <u>Regulation Title or Description of Requirement</u> | <u>Federally Enforceable (Y/N)</u> | <u>Future Effective Date</u> |
|----------------------------------|--|---|------------------------------|
| 6-1-401 | Appearance of Emissions | N | |
| SIP Regulation 6 | Particulate Matter and Visible Emissions (9/4/98) | | |
| 6-301 | Ringelmann No. 1 Limitation | Y | |
| 6-305 | Visible Particles | Y | |
| 6-311 | General Operations (process weight rate limitation) | Y | |
| 6-401 | Appearance of Emissions | Y | |
| MACT 40 CFR 63 Subpart CC | NESHAP for Petroleum Refineries REQUIREMENTS FOR RECORDKEEPING ONLY – GROUP 2 TANKS (6/30/10) | | |
| 63.642(e) | General recordkeeping requirements: Time period for keeping records, unless specified otherwise. | 63.642(e) & 63.655(i)(5) keep all other records 5 years, retrievable within 24 hr | Y |
| | General recordkeeping requirements: Keep all reports and notification for the specified period of time. | 63.642(e) & 63.655(i)(5) required | Y |
| 63.655(i) | Applicability records: Time period for keeping records of applicability determination, unless specified otherwise. | 63.655(i)(1) 63.123(a) Keep record readily accessible for the service life of the tank | Y |
| | Applicability records: Records of dimensions & capacity required for non-exempt tanks? | 63.655(i)(1) 63.123(a) Required Keep record readily accessible for service life of the tank * | Y |
| | Applicability records: Additional recordkeeping requirements for certain tanks. | 63.655(i)(1)(iv) determination of HAP content Keep record readily accessible for service life of the tank | Y |
| BAAQMD Condition # 18618 | | | |
| Part 1 | Throughput limit (basis: Regulation 2-1-234.3) | N | |
| Part 2 | Recordkeeping (basis: Regulation 2-1-234.3) | N | |

IV. Source Specific Applicable Requirements

Table IV – DY
Source-specific Applicable Requirements
S6068, ASPHALT TANK

| <u>Applicable Requirement</u> | <u>Regulation Title or Description of Requirement</u> | <u>Federally Enforceable (Y/N)</u> | <u>Future Effective Date</u> |
|---------------------------------|--|------------------------------------|------------------------------|
| BAAQMD Condition # 23605 | | | |
| Part 1 | Throughput limit (Basis: Cumulative increase, Regulation 2, Rule 5) | Y | |
| Part 2 | Loading rates and temperature requirements (Basis: Regulation 2-1-403) | Y | |
| Part 3 | Storage restriction (Basis: Regulation 2-1-305) | N | |
| Part 4 | Pre-startup and Post-startup requirements (Basis: 6-310 and 40 CFR 60, Subpart UU, Section 60.472(c)) | Y | |
| Part 5 | Opacity limitation (Basis: 40 CFR 60, Subpart UU, Section 60.472 (c)) | Y | |
| Part 6 | Procedures for demonstrating initial compliance with NSPS UU opacity limit using EPA Method 9 and the procedures in 40 CFR 60.11. (Basis: 40 CFR 60, Subpart UU, Section 60.474(c)(5)) | Y | |
| Part 7 | Procedures for demonstrating ongoing compliance with NSPS UU opacity limit using EPA Method 22. (Basis: BAAQMD Regulation 2-6-409.2.2, 2-6-503) | N | |
| Part 8 | Recordkeeping requirements. (Basis: Cumulative Increase, Regulation 2, Rules 5 and 6) | Y | |

Table IV – DZ
Source-specific Applicable Requirements
BIOTREATERS & BIOCLARIFIERS
S1467 (ETP 1), AND S5117 THROUGH S5119 (ETP 2)

| <u>Applicable Requirement</u> | <u>Regulation Title or Description of Requirement</u> | <u>Federally Enforceable (Y/N)</u> | <u>Future Effective Date</u> |
|-----------------------------------|---|------------------------------------|------------------------------|
| BAAQMD Regulation 8 Rule 8 | Organic Compounds, Wastewater Collection and Separation Systems (09/15/2004) | | |
| 8-8-113 | Exemption, Secondary Wastewater Treatment Processes and Stormwater Sewer Systems | N | |
| SIP Regulation 8 Rule 8 | Organic Compounds, California Wastewater (Oil-Water) Separators (08/29/1994) | | |

IV. Source Specific Applicable Requirements

Table IV – DZ
Source-specific Applicable Requirements
BIOTREATERS & BIOCLARIFIERS
S1467 (ETP 1), AND S5117 THROUGH S5119 (ETP 2)

| <u>Applicable Requirement</u> | <u>Regulation Title or Description of Requirement</u> | <u>Federally Enforceable (Y/N)</u> | <u>Future Effective Date</u> |
|-------------------------------|--|------------------------------------|------------------------------|
| 8-8-113 | Exemption, Secondary Wastewater Treatment Processes and Stormwater Sewer Systems | <u>Y</u> | |

Table IV - EA
Source-Specific Applicable Requirements
S1466: LOG Wastewater Pond 8
S1468: LOG Wastewater Pond 6
S2014: Final ETP 1 & 2 Wastewater Equalization Ponds

| <u>Applicable Requirement</u> | <u>Regulation Title or Description of Requirement</u> | <u>Federally Enforceable (Y/N)</u> | <u>Future Effective Date</u> |
|--|--|------------------------------------|------------------------------|
| <u>BAAQMD : Regulation 8 Rule 8</u> | <u>Wastewater Collection and Separation Systems (09/15/2004)</u> | | |
| 8-8-113 | Exemption, Secondary Wastewater Treatment Processes and Stormwater Sewer Systems | <u>N</u> | |
| 8-8-114 | Exemption, Bypassed Oil-Water Separator or Air flotation Influent | <u>Y</u> | |
| 8-8-501 | API Separator or Air Flotation Bypassed Wastewater Records | <u>N</u> | |
| 8-8-601 | Wastewater Analysis for Critical Organic Compounds | <u>N</u> | |
| <u>SIP : Regulation 8 Rule 8</u> | <u>Organic Compounds, California Wastewater (Oil-Water) Separators (08/29/1994)</u> | | |
| 8-8-501 | API Separator or Air Flotation Bypassed Wastewater Records | <u>Y</u> | |
| 8-8-601 | Wastewater Analysis for Critical Organic Compounds | <u>Y</u> | |
| <u>BAAQMD : Regulation 11 : Rule 12</u> | <u>Hazardous Pollutants - National Emission Standard for Benzene Emissions From Benzene Transfer Operations and Benzene Waste Operations incorporated by reference (Adopted 07/18/1990; Subpart FF last amended 01/05/1994)</u> | <u>Y</u> | |
| <u>40 CFR Part 61 Subpart FF</u> | <u>NESHAPS, Benzene Waste Operations (12/04/2003)</u> | | |
| | <u>Requirements for benzene wastewater diverted to S-2014</u> | | |
| 61.342(e) | Standards: General: Compliance option – Treat to 6 or 6BO Option | <u>Y</u> | |
| 61.342(e)(2) | Standards: General: Treatment of waste with a flow-weighted annual average water content of 10% or more by volume. | <u>Y</u> | |
| 61.342(e)(2)(i) | Requirements for treating aqueous wastes (greater than 10% water) for | <u>Y</u> | |

IV. Source Specific Applicable Requirements

Table IV - EA
Source-Specific Applicable Requirements
S1466: LOG Wastewater Pond 8
S1468: LOG Wastewater Pond 6
S2014: Final ETP 1 & 2 Wastewater Equalization Ponds

| <u>Applicable Requirement</u> | <u>Regulation Title or Description of Requirement</u> | <u>Federally Enforceable (Y/N)</u> | <u>Future Effective Date</u> |
|---|---|---|-------------------------------------|
| | <u>compliance with 61.342(e) compliance option;</u> | | |
| <u>61.342(e)(2)(ii)</u> | <u>Standards: General: Determine 61.342(e)(2) benzene quantity in each uncontrolled aqueous waste stream per 61.355(k)</u> | <u>Y</u> | |
| <u>61.355(k)(1)</u> | <u>Target Benzene Quantity in waste streams not controlled for air emissions – use 61.355(a) methods</u> | <u>Y</u> | |
| <u>61.356(b)</u> | <u>Recordkeeping Requirements: Waste Stream records</u> | <u>Y</u> | |
| <u>61.356(b)(4)</u> | <u>Recordkeeping Requirements: Waste Stream records; records for streams controlled under 61.342(e)</u> | <u>Y</u> | |
| <u>MACT</u> <u>40 CFR 63</u> <u>Subpart CC</u> | <u>NESHAPS for Petroleum Refineries (06/30/10)</u> | | |
| <u>63.640(c)(3)</u> | <u>Wastewater streams and treatment operations associated with petroleum refining process units meeting the criteria of section 63.640(a)</u> | <u>Y</u> | |

Table IV – EB
Source-specific Applicable Requirements
Summary of Applicable requirements pertaining to fugitive sources

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IV. Source Specific Applicable Requirements

as defined in the rule.

Table IV – EC
Applicable Requirements
FUGITIVE COMPONENTS (FACILITY-WIDE EXCEPT AS NOTED IN TABLE)

| <u>Applicable Requirement</u> | <u>Regulation Title or Description of Requirement</u> | <u>Federally Enforceable (Y/N)</u> | <u>Future Effective Date</u> |
|-------------------------------------|--|------------------------------------|------------------------------|
| BAAQMD Regulation 8, Rule 18 | Organic Compounds-Equipment Leaks (09/15/04) | | |
| <u>8-18-100</u> | <u>General/Applicability</u> | <u>Y</u> | |
| <u>8-18-200</u> | <u>Definitions</u> | <u>Y</u> | |
| <u>8-18-301</u> | <u>General Standard</u> | <u>Y</u> | |
| <u>8-18-302</u> | <u>Valves</u> | <u>Y</u> | |
| <u>8-18-303</u> | <u>Pumps and compressors</u> | <u>Y</u> | |
| <u>8-18-304</u> | <u>Connections</u> | <u>Y</u> | |
| <u>8-18-305</u> | <u>Pressure relief devices</u> | <u>Y</u> | |
| <u>8-18-306</u> | <u>Non-repairable equipment</u> | <u>Y</u> | |
| <u>8-18-307</u> | <u>Liquid Leaks</u> | <u>Y</u> | |
| <u>8-18-308</u> | <u>Alternate compliance</u> | <u>Y</u> | |
| <u>8-18-401</u> | <u>Inspection</u> | <u>Y</u> | |
| <u>8-18-402</u> | <u>Identification</u> | <u>Y</u> | |
| <u>8-18-403</u> | <u>Visual inspection schedule</u> | <u>Y</u> | |
| <u>8-18-404</u> | <u>Alternate inspection schedule</u> | <u>Y</u> | |
| <u>8-18-405</u> | <u>Alternate inspection reduction plan</u> | <u>Y</u> | |
| <u>8-18-406</u> | <u>Interim Compliance</u> | <u>Y</u> | |
| <u>8-18-501</u> | <u>Portable Hydrocarbon Detector</u> | <u>Y</u> | |
| <u>8-18-502</u> | <u>Records</u> | <u>Y</u> | |
| BAAQMD Regulation 8, Rule 8 | Wastewater Collection and Separation Systems (9/15/2004) | | |
| <u>8-8-100</u> | <u>General/Applicability</u> | <u>Y</u> | |
| <u>8-8-200</u> | <u>Definitions</u> | <u>Y</u> | |
| <u>8-8-302</u> | <u>Wastewater Separators Larger than or Equal to 18.9 Liters/Sec</u> | <u>Y</u> | |
| <u>8-8-303</u> | <u>Gauging and Sampling Devices</u> | <u>Y</u> | |
| <u>8-8-304</u> | <u>Sludge Dewatering Unit</u> | <u>Y</u> | |
| <u>8-8-305</u> | <u>Oil-Water Separator And/or Air Flootation Unit Slop Oil Vessels</u> | <u>Y</u> | |
| <u>8-8-307</u> | <u>Air Flotation Unit</u> | <u>Y</u> | |

IV. Source Specific Applicable Requirements

Table IV – EC
Applicable Requirements
FUGITIVE COMPONENTS (FACILITY-WIDE EXCEPT AS NOTED IN TABLE)

| <u>Applicable Requirement</u> | <u>Regulation Title or Description of Requirement</u> | <u>Federally Enforceable (Y/N)</u> | <u>Future Effective Date</u> |
|--|---|------------------------------------|------------------------------|
| 8-8-308 | <u>Junction Box</u> | <u>Y</u> | |
| 8-8-312 | <u>Controlled Wastewater Collection System Components</u> | <u>Y</u> | |
| 8-8-313 | <u>Uncontrolled Wastewater Collection System Components</u> | <u>Y</u> | |
| 8-8-314 | <u>New Wastewater Collection System Components</u> | <u>Y</u> | |
| 8-8-402.1 | <u>Wastewater Inspection and Maintenance Plan</u> | <u>Y</u> | |
| 8-8-403 | <u>Petroleum Refinery Compliance Schedule</u> | <u>Y</u> | |
| 8-8-501 | <u>API Separator or Air Flotation Bypassed Wastewater Records</u> | <u>Y</u> | |
| 8-8-502 | <u>Wastewater Critical Organic Compound Concentration</u> | <u>Y</u> | |
| 8-8-503 | <u>Inspection and Repair Records</u> | <u>Y</u> | |
| 8-8-504 | <u>Portable Hydrocarbon Detector</u> | <u>Y</u> | |
| 8-8-505 | <u>Records for Wastewater Collection System Components</u> | <u>Y</u> | |
| 40 CFR 60, Subpart GGG; BAAQMD Regulation 10-59 | <u>Standards of Performance for Equipment Leaks (Fugitive Emission Sources) (5/30/84); BAAQMD Standards of Performance for New Stationary Sources (4/19/89) (SEE TABLE IV-DP)</u> | <u>Y</u> | |
| BAAQMD Regulation 10-59 | <u>Incorporates by reference 40 CFR 60, Subpart GGG</u> | <u>Y</u> | |
| 40 CFR 60, Subpart OOO; BAAQMD Regulation 10-69 | <u>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) (SEE TABLE IV-DQ)</u> | <u>Y</u> | |
| BAAQMD Regulation 10-69 | <u>Incorporates by reference 40 CFR 60, Subpart OOO</u> | <u>Y</u> | |
| 40 CFR 63, Subpart CC | <u>National Emission Standards for Hazardous Air Pollutants from Petroleum Refineries SEE TABLE IV-DS)</u> | <u>Y</u> | |

V. SCHEDULE OF COMPLIANCE

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

VI. PERMIT CONDITIONS

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

Condition # 4041

For S1803, OPCEN Coke Corral:

1. The S1803 OPCEN Coke Corral shall only be used for material handling and storage of petroleum coke and refractory materials. The owner/operator may also use this facility to store and/or handle materials that do not result in air emissions, or materials that are exempt from permit requirements, per Regulation 2, Rule 1. Before storing and/or handling any other material which would require a permit, the owner/operator shall apply for, and receive approval of, a modification to S1803 to include the additional material. [basis: Cumulative Increase]
2. Prior to leaving the S1803 OPCEN Coke Corral all vehicles shall have the tires and wheels washed to remove and collect fines any time that coke fines and/or sulfur fines are stockpiled. [basis: Cumulative Increase; Public Nuisances]
3. Visible particulate emissions from all activity at S1803 shall not exceed Ringelmann No. 0.5 (10% opacity), and/or result in fallout on adjacent property in such quantities as to cause annoyance to any other person. [basis: Cumulative Increase]
4. The A1803 Water Spray Sprinklers for OPCEN Coke Corral shall be maintained and shall operate as necessary to meet the limitation of Condition No. 3. [basis: Cumulative Increase]
5. Any stockpiles and/or containers in the S1803 OPCEN Coke Corral (Coke Recovery and Temporary Storage Facility) shall be covered at all times except during periods of when:
 - a. material is being added or removed from the stockpile and/or containers,
 - b. manual removal of undesirable objects (such gloves, wood) in the material is being conducted, and
 - c. samples are being taken from the stockpile and/or container for analyses.

It may be covered with a tarp or other covering provided no head space where wind may flow under the covering occurs and provided the covering is in good condition

VI. Permit Conditions

and is secured adequately so as to minimize emissions to the atmosphere necessary to meet the limitation of Condition No. 3. [basis: Cumulative Increase]

6. In no event shall stockpiles in the storage yard area of S1803 OPCEN Coke Corral be greater than 6 feet in height. The existing six foot high concrete wall shall be increased at least 2 feet in order to provide an 8 foot high windbreak. The 2 foot extension shall be made of solid material. [basis: Cumulative Increase]
7. Condition deleted.
8. Any petroleum coke-oil mixture to be temporarily stored at S1803 OPCEN Coke Corral shall be stored in containers. The vapor pressure of the oil content of this coke-oil mixture shall not exceed 0.5 psig Reid vapor pressure (RVP). [basis: Cumulative Increase]
9. Condition deleted.
10. S1803 shall be checked for visible emissions quarterly. The visible emissions check shall take place while the equipment is operating and during daylight hours. If any visible emissions are detected the operator shall take corrective action within one day, and check for visible emissions after corrective action is taken. If no visible emissions are detected, the operator shall continue to check for visible emissions at the same frequency. [basis: Regulation 2-6-409.2]
11. The owner/operator shall keep records of all visible emissions checks, the person performing the check, and all corrective action taken at S1803. The records shall be retained for five years and shall be made available to District personnel upon request. [basis: Regulation 2-6-409.2]
12. If a coke-oil mixture is temporarily stored at S1803, the owner/operator shall sample and analyze the liquid phase of the coke-oil mixture (if present) to verify compliance with Part 8. A representative sample of the liquid phase of the coke-oil mixture shall be obtained and sent for analysis of vapor pressure within 30 days of being placed in storage. [basis: Regulation 2-6-409.2]

Condition # 4101

For S1523, LUBS Loading Rack Asphalt Inside T/T:

1. S1523 shall be abated by A3 whenever S1523 is in operation. [basis: Cumulative Increase]

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Condition # 4288

For S2001, LOG Marine Loading Berth 1
S2002, LOG Marine Loading Berth 2
S2003, LOG Marine Loading Berth 3
S2004, LOG Marine Loading Berth 4:

1. A/C Condition deleted.
2. Condition deleted.
3. The owner/operator shall do all of the following:
 - a. Install pressure and temperature monitors and recorders on the A100 system. [basis: Regulation 8-44-301]
 - b. The owner/operator shall reduce the baseline VOC emissions under the Emission CAP, permit #26786, for wharf activity for gasoline components, crude oils and any other material subject to Regulation 8-44, by 95%, by weight. This baseline adjustment is effective upon expiration of the 1991 District Variance for the Marine Vapor Recovery System. [basis: BARCT-Adjustment]
 - c. For the purposes of the tracking of the wharf emissions in the facility Emission CAP, the owner/operator shall calculate uncontrolled emissions as specified in Permit #26786 and use a 95% by weight, reduction factor to determine controlled emissions, unless the thermal oxidizer, A100 is not achieving compliance with the 95% reduction and/or is not in operation. During these occasions the reduction shall be determined by the Air Pollution Control Officer based on the actual thermal oxidizer performance as demonstrated by District approved source test results. [basis: Regulation 8-44-301]
4. A/C Condition deleted.
5. The owner/operator shall not load or permit the loading of a regulated organic liquid into a marine tank vessel within the District whenever the marine vapor recovery system is not fully operational. For the purposes of this condition, "operational" shall mean the system is achieving the reductions required by Condition No. 2 above. [basis: Regulation 8-44-301]
6. After startup, the vapor recovery system shall be operated such that the temperature of the exhaust from the incinerator does not drop below 1400 degrees F for more than an aggregate of 15 minutes in any hour. [basis: Regulation 8-44-301]
7. To determine compliance with Condition Number 6, the Thermal/Catalytic Oxidizer (A100) shall be equipped with continuous measuring and temperature recording instrumentation. Each data collecting period shall note the starting date & time. The

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temperature data collected from the temperature recorder shall be maintained in a file which shall be available for District inspection for a period of at least 5 years following the date on which such data are recorded.

8. A/C Condition deleted.
9. 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 covers, butterworth plates, gauging connections, and any other potential leak points. [basis: Regulation 8-44-304]
10. The owner/operator shall not exceed a loading pressure greater than 80% of the lowest relief valve set pressure of the vessel being loaded. [basis: Regulation 8-44-303]
11. All maintenance records required for the vapor recovery system at this facility, which is subject to Regulation 8, Rule 44, shall be kept on site for five years and made available to the District upon request. [basis: Regulation 8-44-501]
12. Alternative Monitoring for H2S
 - a. For gasoline and finished gasoline component vapors with sulfur specifications, the owner/operator shall obtain a single sample from the gas inlet to the thermal oxidizer using a Gastec #4LL H2S tube. If the gas stream composition changes, or if the gas stream will no longer be required to meet product specifications, then the gas stream must be resubmitted for approval under the alternative monitoring plan.
 - b. For non-gasoline/non-finished gasoline component vapors mixed with natural gas, where the products have sulfur specifications, the owner/operator shall take a single detector tube sample and submit an alternative monitoring plan similar to the plan for the gasoline and finished gasoline component vapors each time the new product is loaded.
 - c. For non-gasoline/non-finished gasoline component vapors mixed with natural gas, where the products have no sulfur specifications, the owner/operator shall sample the gas stream at least every two hours while the marine vessel recovery system is processing the vessel vapors to assure that the gas stream complies with the 230 mg/dscm (0.10 gr/dscf or ~~163~~ 162 ppmvd or ~~163~~ ppmvd) requirement. For each product, the owner/operator may propose a less frequent sampling schedule if the measured H2S concentration is insignificant.
(Basis: Alternate Monitoring Plan)
13. Recordkeeping Requirements for Alternative H2S Monitoring.
 - a. The owner/operator shall record each gas sampling performed pursuant to Section 1.0. Each record shall identify the date and location of sampling.
 - b. The owner/operator shall maintain records for a period of five (5) years after the generation

VI. Permit Conditions

of such documentation, except this alternative monitoring plan, which shall be kept permanently, or until it has been replaced with a different alternative monitoring plan or five years after the date the marine vapor recovery system is permanently taken out of service.

(Basis: Alternate Monitoring Plan)

14. Reporting Requirements for Alternative H2S Monitoring.

The owner/operator shall submit a written report to USEPA within 5 days of exceeding the Subpart J requirement for H2S concentration when loading the products without product sulfur specifications. The report shall include at a minimum the date and location of sampling and the duration of the exceedance.

(Basis: Alternate Monitoring Plan)

Condition # 4298

For S1805, Tank 12038:

1. The annual material throughput for S1805 Tank 12038 shall not exceed 563,000 bbl/year. (Basis: cumulative increase)
2. Source S1805 shall be vented at all times to abatement device A1805, consisting of two 55-gallon minimum capacity activated carbon vessels, arranged in series, except when maintenance or repair of the source cannot be completed without a shutdown of the abatement device. (basis: 40CFR 61, Section 61.343(a) and (b))
3. The owner/operator of this source shall monitor with a photo-ionization detector (PID), flame-ionization detector (FID), or other method approved in writing by the Air Pollution Control Officer at the following locations:
 - a. At the outlet of the primary carbon vessel in series.
 - b. At the outlet of the secondary carbon vessel in series.

When using an FID to monitor breakthrough, readings may be taken with and without a carbon filter tip fitted on the FID probe. Concentrations measured with the carbon filter tip in place shall be considered methane for the purpose of these permit conditions. (basis: 40 CFR 61, Section 61.354(d))

4. These monitor readings shall be recorded in a monitoring log at the time they are taken. The monitoring results shall be used to estimate the frequency of carbon change-out necessary to maintain compliance with condition numbers 5 and 6, and shall be conducted on a daily basis. The owner/operator of this source may propose for District review, based on actual measurements taken at the site during operation of the source, that the monitoring schedule be changed based on the decline in organic emissions and/or the demonstrated breakthrough rates of the carbon vessels. Written approval by the District's Permit Services Division must be received by the

VI. Permit Conditions

owner/operator prior to a change to the monitoring schedule. (basis: 40 CFR 61, Section 61.354(d))

5. The primary carbon vessel shall be changed out with unspent carbon upon breakthrough, defined as the detection at its outlet of 50 ppm VOC, measured as methane (C1). (basis: 40 CFR 61.354(d) & Equilon Consent Decree, paragraphs 55 & 59)
6. The secondary carbon vessel shall be changed out with unspent carbon upon breakthrough, defined as the detection at its outlet of 50 ppm VOC, measured as methane (C1). (basis: 40 CFR 61.354(d) & Equilon Consent Decree, paragraphs 55 & 59)
7. The owner/operator of this source shall maintain the following records for operation of the source:
 - a. The hours and times of operation.
 - b. Each monitor reading or analysis result for the day of operation they are taken.
 - c. The number of carbon beds removed from service.

All measurements, records and data required to be maintained by the owner/operator shall be retained and made available for inspection by the District for at least five years following the date the data is recorded.
(basis: 40 CFR 61, Section 61.356(a))

8. In order to demonstrate compliance with Part 1, the owner/operator shall maintain monthly throughput records of S1805 and total the monthly throughput for each consecutive 12 month period. [basis: Cumulative Increase]

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Condition # 4303

For S1804, MAINT Paint Spray Booth and Facility Coating:

1. The total annual cleanup solvent usage shall not exceed 40 gallons per year. [basis: Cumulative Increase]
2. The total annual coating usage shall not exceed 150 gallons per year. [basis: Cumulative Increase]
3. Monthly usages of all cleanup solvents and coatings shall be recorded in a log and retained for at least five years from the date of entry. This log shall be kept on site and made available to District staff upon request. [basis: Cumulative Increase]
4. The spray booth filters shall be in place when the spray booth is in operation. [basis: Cumulative Increase; Regulation 6-1-301]

Condition # 4364

For S2000, OPCEN Corrosion Inhibitor Injection:

1. Condition deleted.
2. Not more than 90 gallons per day of Corrosion Inhibitor C-135VT shall be injected into the flexigas header. [basis: Cumulative Increase]
3. Condition deleted.
4. The owner/operator shall keep records of the composition and daily usage of corrosion inhibitor to demonstrate compliance with condition number 2. These records shall be maintained for 5 years from date of entry and be made available for District review upon request. [basis: Cumulative Increase]

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Condition # 5077

For S1465, LOG Light Oil Products Gross Oil Separator

S1469, LOG API Separator (ETP 1)

S1779, OPCEN CPI Oil/Water Separator

For S1469:

1. The LGO API Separator (ETP1) (S1469) shall not be operated over the design rated capacity of 6000 gpm or the maximum allowable capacity of the unit. [basis: Cumulative Increase]

2. Condition deleted.

~~3. Any emission leak that occurs at this source, as defined in Regulation 8 8 302.1, shall be reported to the District Enforcement Section within 15 days of the occurrence. [basis: Regulation 8 8 302.1]~~

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For S1465:

4. The Gross Oil Separator (S1465) shall not be operated over the design rated capacity of 3400 gpm or the maximum allowable capacity of the unit. [basis: Cumulative Increase]

5. Condition deleted.

~~6. Any emission leak that occurs at this source, as defined in Regulation 8 8 302.1, shall be reported to the District Enforcement Section within 15 days of the occurrence. [basis: Regulation 8 8 302.1]~~

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For S1779:

7. The CPI Oil/Water Separator (S1779) shall not be operated over the design rated capacity of 3000 gpm or the maximum allowable capacity of the unit. [basis: Cumulative Increase]

8. Condition deleted.

~~9. Any emission leak that occurs at this source, as defined in Regulation 8 8 302.1, shall be reported to the District Enforcement Section within 15 days of the occurrence. [basis: Regulation 8 8 302.1]~~

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VI. Permit Conditions

Condition # 6110

For S2012, DH V-12378 Perchloroethylene Storage System :

1. The material throughput for Storage Tank S2012 shall not exceed 18,000 gallons in any consecutive 12-month period. [basis: Cumulative Increase]
2. Only Perchloroethylene (PERC) shall be stored in this tank. [basis: Cumulative Increase, Toxics]
3. In order to demonstrate compliance with the above conditions, the owner/operator of tank S2012 shall maintain throughput records in a District approved log. These records shall be kept on site and made available for District inspection for a period of 5 years from the date that record was made. [basis: Cumulative Increase, Toxics]
4. Condition deleted.

Condition # 6111

For S549, Tank 549:

1. The throughput of material at this source shall not exceed 10,000 barrels (420,000 gallons) in any consecutive 12 month period. [basis: Cumulative Increase]
2. The vapor pressure of the material stored in this tank shall not exceed 8 psia. [basis: Cumulative Increase]
3. The benzene content of the material stored in this tank shall not exceed 1 mg/l. [basis: Toxics]
4. To demonstrate compliance with the conditions #1, #2, and #3, the operator(s) of this source shall maintain a District approved log for this tank which indicates the composition and throughput of material to this tank. These records shall be kept on site and made available for District inspection for a period of 5 years from the date that record was made. [basis: Cumulative Increase; Toxics]

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Condition # 6503

For S2013, Tank 12467:

1. Total throughput for the external floating roof tank (S2013) shall not exceed 27,000,000 barrels during any consecutive 12 months period. [basis: Cumulative Increase]
2. Only unleaded gasoline shall be stored in S2013. [basis: Cumulative Increase, Toxics]
3. To demonstrate compliance with the above conditions, the following records shall be kept on site and made available for District inspection for a period of 5 years from the date on which a record is made.
 - a. The material stored.
 - b. The monthly throughput.
[basis: Cumulative Increase, Toxics]
4. Condition deleted.
5. Tank 12467 (S2013) shall be controlled by a liquid-mounted primary seal, and a zero-gap secondary seal. There shall be no ungasketed roof fittings. Except for roof legs, each roof fitting shall be of the design, which yields the minimum roof fitting losses (per EPA Compilation of Air Pollution Emission Factors, AP-42, Supplement E, Section 12.3.2, Table 12.3-11). The following list indicates the type of control required for a variety of typical roof fittings. Control techniques for roof fittings not included in this list shall be subject to District approval, prior to installing the roof on the tank.

| Fitting Type | Control Technique |
|---------------------|--|
| Access hatch | Bolted cover, gasketed |
| Guide pole / Well | Solid, or Slotted with controls per API 2517 Addendum (See Note 1) |
| Gauge float well | Bolted cover, gasketed |
| Gauge hatch /Sample | Weighted mechanical well actuation, gasketed |
| Vacuum breaker | Weighted mechanical actuation, gasketed |
| Roof drain | Roof drain does not drain water into product |
| Roof leg | Fixed; or Adjustable, with vapor seal boot, or gasket |

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between roof leg and leg sleeve

Rim vent Weighted mechanical actuation, gasketed
[basis: Cumulative Increase; BACT/TBACT]

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

- a. Sliding cover;
- b. Well gasket;
- c. Pole sleeve with pole wiper approximately 6 inches above sliding cover, or District approved equivalent;
- d. Float with float wiper approximately 1 inch above sliding cover, or alternately a float with multiple wipers.

Condition # 6707

For S2445, Tank 12445

S2446, Tank 12446:

1. Total liquid throughput at sources S2445 and S2446 shall not exceed 73,000,000 barrels during any consecutive twelve-month period. (basis: Cumulative Increase, Toxics)
2. Materials stored in S2445 and S2446 shall be limited to the following:
 - a. For the months of November through February, Gasoline or Gasoline components not exceeding RVP 13.5; and for the remaining months only Gasoline or Gasoline components not exceeding RVP 8
 - b. A liquid other than those specified above may be stored in 2.a, provided that both of the following criteria are met:
 - i. POC emissions, based on the maximum throughput in Condition 1, do not exceed 10,779 pounds per year, as calculated by the EPA Tanks Program version 4.08 (or subsequent version), and,
 - ii. toxic emissions in lb/yr, based on the maximum throughput in Condition 1, do not exceed any risk screening trigger level specified in Table 2-1-316, except for benzene, which is limited to the following level (before abatement):
Benzene 27 lb/yr
(basis: Cumulative Increase, Toxics)
3. Source S2445 and S2446 shall be each equipped with a liquid-mounted primary seal and rim-mounted secondary seal, except as noted in Condition 5. There shall be no ungasketed roof fittings. Each roof fitting shall be of the design, which yields the minimum roof fitting losses (per EPA Compilation of Air Pollution Emission Factors, AP-42, Supplement E, Section 12.3.2, Table 12.3-11). The following list indicates the type of control required for a variety of typical roof fittings. Control techniques for roof fittings not included in this list shall be subject to District approval.

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| Fitting Type | Control Technique |
|-----------------------------------|--|
| Access hatch | Bolted cover, gasketed |
| Slotted Guide-Pole/Sample Well | Gasketed, Sliding Cover, w. Float, Sleeve, and Wiper |
| Roof Leg or Hanger Well | Fixed |
| Vacuum Breaker (10-inch Diameter) | Weighed mechanical actuation, gasketed |
| Roof Drain (3-in Diameter) | 90% Closed |
| Ladder Well | Sliding cover, gasketed |

(Basis: BACT/TBACT, Cumulative Increase)

- In order to demonstrate compliance with the condition 1, the owner/operator of S2445 and S2446 shall either maintain the total monthly throughput of each material stored, summarized on a consecutive 12-month basis in a District approved log, or shall be able to generate these records within short notice. These records shall be kept on site and made available for District inspection for a period of 60 months from the date that the record was made. (Basis: Cumulative Increase)
- The liquid mounted primary seal on S2445 shall be installed prior to any storage of gasoline or gasoline components (RVP 13.5) or by December 31, 2005, whichever is sooner. (basis: BACT/TBACT)

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Condition # 7215

For S1114, Tank 1114 Spent Acid
S1115, Tank 1115 Spent Acid:

For S1114:

1. Emissions from S1114 shall be vented to A1114 Caustic Scrubber for Alky Spent Acid Tanks and to S1471 LOP Auxiliary Flare (primary emission train) or to S1472 LOP Main Flare (secondary emission train) at all times. [basis: BACT/TBACT]
2. The total liquid throughput for Storage Tanks S1114 and S1115 shall not exceed 365,000 barrels during any consecutive 12 month period. [basis: Cumulative Increase]
3. In order to demonstrate compliance with Condition Number 2 the owner/operator of this source shall maintain the following records in a log. These records shall be kept on site and be made available for District inspection for a period of 5 years from the date that the record was made.
 - a. The MSDS sheets for all materials stored and the dates that the materials were stored.
 - b. The total throughput of each material stored, summarized on a monthly basis. [basis: Cumulative Increase]

For S1115:

4. Emissions from S1115 shall be vented to A1114 Caustic Scrubber for Alky Spent Acid Tanks and to S1471 LOP Auxiliary Flare (primary emission train) or to S1472 LOP Main Flare (secondary emission train) at all times. [basis: Cumulative Increase]
5. The total liquid throughput for Storage Tanks S1114 and S1115 shall not exceed 365,000 barrels during any consecutive 12-month period. [basis: Cumulative Increase]
6. In order to demonstrate compliance with Condition Number 5 the owner/operator of this source shall maintain the following records in a log. These records shall be kept on site and be made available for District inspection for a period of 5 years from the date that the record was made.
 - a. The MSDS sheets for all materials stored and the dates that the materials were stored.
 - b. The total throughput of each material stored, summarized on a monthly basis. [basis: Cumulative Increase]

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Condition # 7382
~~For S1005, Tank 1005~~
S1072, Tank 1072

Condition deleted.

Condition deleted.

~~Conditions for S 1005:~~

- ~~1. The material stored in this tank shall not have a vapor pressure exceeding 1.5 psia.~~
 - ~~2. The total material throughput at this tank shall not exceed 730,000 barrels in any consecutive 12 month period.~~
 - ~~3. The owner/operator of this tank shall maintain records of all the materials stored and throughput at this source to confirm compliance with conditions #1 and #2.~~
- ~~These Parts should not be deleted because S1005 is not an exempt source.~~

Conditions for S1072:

4. This tank shall only be used for the storage of crude oil, MFO (marine fuel oil), SIFO (Shell Industrial Fuel Oil), cutter stock fuel oil and gas oils. [basis: Cumulative Increase]
 5. The total material throughput at this tank shall not exceed 18.2 million barrels in any consecutive 12 month period. [basis: Cumulative Increase]
 6. The owner/operator of this tank shall maintain records of all the materials stored and throughput at this source to confirm compliance with conditions #1 and #2. Records shall be maintained for a minimum of 5 years from the date of entry. [basis: Cumulative Increase]
4. ~~Condition deleted.~~

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Condition # 7618

For S14, Tank 14,

S20, Tank 20,

S483, Tank 483

S484, Tank 484

S532, Tank 532

S1067, Tank 1067

S1139, Tank 1139

S1140, Tank 1140

S1141, Tank 1141

S1420, DH Crude Unit

S1480, LUBS F-69 Asphalt Circulation,

S1481, OPCEN F-30 DSU,

S1483, LUBS F-32 Asphalt Circulation,

S1486, DH F-40 CU Feed,

S1487, DH F-41B VFU Feed,

S1488, DH F-41A VFU Feed,

S1490, DH F-43 GOHT Feed

S1491, DH F-44 NHT Feed,

S1492, DH F-45 Primary Column Reboil,

S1493, DH F-46 Stabilizer Reboil,

S1494, DH F-47 Secondary Column Reboil

S1495, DH F-49 CRU Preheat,

S1496, DH F-50 CRU,

S1497, DH F-51 CRU,

S1498, DH F-52 CRU Reboil

S1499, DH F-53 CRU Regen

S1500, DH F-55 SGP Heat Medium

S1502, DH F-57 HCU First Stage Feed

S1503, DH F-58 HCU Second Stage Feed

S1504, DH F-59 HCU Second Stage Reboil

S1505, DH F-60 HP1 Steam Methane Reformer

S1506, CP F-61 CGP Feed,

S1507, UTIL CO Boiler .1

S1508, CP F-63 CFH Feed, S1510 - CP F-66 CCU Preheat,

S1509, UTIL CO Boiler 2

S1510, CP F-66 CCU Preheat,

S1511, CP F-67 CCU LGO Reboil

S1512, UTIL CO Boiler 3

S1515, DH F-71 HCU First Stage Reboil

S1751, Tank 1330

S1752, Tank 1331

S1753, Tank 1332 Gasoline

S1754, Tank 1333 Gasoline

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S1755, Tank 1334 Gasoline
S1756, Tank 1335 Gasoline
S1757, Tank 1336
S1758, Tank 1337
S1759, OPCEN Flexicoker (FXU)
S1760, OPCEN F-102 FXU Steam Superheater
S1761, OPCEN F-104 HP2 Steam Methane Reformer
S1763, DH F-126 CU Feed
S1764, OPCENDimersol Plant (DIMER)
S1765, OPCENSulfur Plant 3 (SRU3)
S1767, OPCEN V 1019 Coke Silo
S1768, OPCEN V 1019 Coke Silo
S1769, OPCEN V -1020 Dry Fines Silo
S1770, OPCEN C3/C4 Splitter
S1771 – OPCEN Flexigas Flare
S1774, OPCENHydrogen Plant 2 (HP2)
S1800, UTIL F-88 Boiler
S4002, DC F-13425-A DCU
S4003, DC F-13425-B DCU
S4031, DC F-14012 HGHT Reboil
S4141, DC F-14011 HGHT Feed
S4161, DC H-101 HP3 Steam Methane Reformer
S4191, UTIL Boiler 6 Supplemental Steam Generator 1
S4193, UTIL Boiler 6 Supplemental Steam Generator 2

Condition Modifications Log:
TABLE V revised 10/94, App. No. 13814

Condition B.3.a. and Note 5 of Table IX added 2/98; App. No. 18131.

Condition B.3.a and Note 5 of Table IX amended to allow NOx CEM data for emission calculations (AN 1362, 10/01)

Table II - NOx Baseline reduced by 2 lb/day per Condition ID# 4364 Item 1, for S2000 (AN 4827)

Table II - NOx Baseline reduced by 3089 lb/day per Condition ID# 12271 Item 89, Clean Fuels Project offsets from CO Boilers (AN 8407)

Table IV – SO2 Baseline reduced by 1398 lb/day per Condition ID# 12271 Item 94, Clean Fuels Project offsets from CO Boilers (AN 8407)

- A. The owner/operator shall operate the units listed in Table I in such a way that any daily emission increases over the baseline profile are offset by reductions below the profile at a ratio of at least 2.0:1. Compliance shall be demonstrated on a daily basis

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in the following manner:

1. For each pollutant, actual daily emissions for the previous 364 days plus the day in question shall be ranked in descending order by quantity. The calculation of actual daily emissions shall not be affected by the granting of a variance by the Hearing Board of the District unless such variance specifically includes a variance from Paragraph A (1) of these conditions. In the event of failure or range exceedance of a monitor upon which emissions are based, emissions shall be calculated to be the maximum possible under the prevailing operating conditions in the plant during the event; emission calculations will be based upon theoretical or historical emission factors or other information which demonstrates emission levels to the satisfaction of the APCO. [basis: Regulation 2-2-302]
2. The resulting profile will be compared day by day with the baseline profile. [basis: Regulation 2-2-302]
3. The emissions on each day of the current profile will be subtracted from the corresponding day of the baseline profile. Positive values are 'profile decreases'. The absolute value of negative values are 'profile -increases'. [basis: Regulation 2-2-302]
4. Profile increases will be totaled; profile decreases will be totaled. Profile increases will be doubled, and the decreases will be subtracted from this total. If the result (the profile excess) is positive, the owner/operator is out of compliance.

Profile Excess =[(2.0) x (Profile Increases)] - (Profile Decreases)
[basis: Regulation 2-2-302]

B. EMISSION PROFILES AND EMISSION FACTORS

1. Tables II through VI list the baseline profiles for each pollutant. The baselines reflect actual emissions during the baseline period, less reductions required by regulation of sources under the 'cap', and increased by offsets and increases provided by reductions at operations not under the 'cap' (i.e., tankage).

The baseline profiles were calculated as follows (this condition contains a summary of the steps used to arrive at the values in Tables II through VI, and should be updated every time the baseline profile is adjusted):

- a. Actual refinery emissions for the baseline period 1976 - 1978 were calculated using the usage rates contained in application 26786 and the emission factors contained in these conditions.
- b. Actual refinery baseline emissions were averaged over 365 days.
- a. Actual refinery baseline emissions were reduced by any amounts required by

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District regulations. (Reductions so far applied: SO₂ emissions from sulfur recovery units; particulate emissions from CO boilers).

- b. The hydrocarbon baseline profile has been increased by 2300 lb/day due to abatement on tankage (tankage is not included under the cap).
 - c. The hydrocarbon baseline profile has been decreased by 1543 lb/day due to increases in fugitive emissions from process units.
 - d. The hydrocarbon baseline profile has been increased by 243 lb/day due to shutdown of chemical plants not under the cap (application 29376).
 - e. The actual emissions due to shipping in the base year 1977 were added to the adjusted refinery baseline.
 - f. The baseline daily emissions were ranked in descending order by quantity. The results (the baseline profiles) are shown in Tables II through VI.
[basis: Regulation 2-2-302]
2. Tables VII and VIII list the emission factors to be used for marine activities. Any changes or additions will be incorporated into these conditions, and must be approved in writing by the APCO. [basis: Regulation 2-2-302]
 3. Table IX lists the emission factors to be used for combustion. The owner/operator may summarize fuel consumption for those furnaces, which have identical emission factors. These factors are subject to annual review and may be changed to reflect source test results and CEM data. the owner/operator shall determine average sulfur content for each gaseous fuel on a daily basis, and for each liquid or solid fuel on a weekly basis.
 - a. The owner/operator shall use P-24 CEM data and calculated stack flows to estimate NO_x emissions from sources S1500, S1502, S1503, S1504, S1505 and S1515. The owner/operator shall use P-23 CEM data and calculated stack flows to estimate NO_x emissions from sources S1486, S1487, S1488, S1490, S1491, S1492, S1493, S1494, S1495, S1496, S1497, S1498 and S1499. The owner/operator shall use S1761 and S1763 CEM data and calculated stack flows to estimate NO_x emissions from these two heaters. The owner/operator shall use the NO_x emission factors in Table IX to calculate NO_x emissions during any period for which NO_x CEM data is not available for more than 24 hours. For periods less than 24 hours, the owner/operator shall use the average NO_x CEM data for the previous 7 day period. (added 2/98, App. No. 18131, amended 2/02, AN 1362. Changes effective once REFEMS computer calculation program is revised)
[basis: Regulation 2-2-302]
 4. CCU emission factors will be reviewed annually and will be based on source test results and CEM data. [basis: Regulation 2-2-302]
 5. Sulfur plant emissions will be based on the actual measured sulfur emissions. All

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emissions will be included in the total. The owner/operator will operate the in-stack monitors in such a way as to provide an accurate measurement under all operating conditions. [basis: Regulation 2-2-302]

6. Baseline profiles for particulates, NOx, SO2, and CO may be modified in the future in the following ways:
 - a. The owner/operator may increase the baseline profile by provision of additional offsets by abating or shutting down sources not included in the cap. The amount of offset credited shall be the actual emission reduction (as defined in the District's NSR rule at the time of offset) resulting from abatement or shutdown of the offsetting sources, reduced by the offset ratios prevailing at the time of offset.
 - b. The owner/operator may increase the baseline profile by buying credits from the Emissions Bank or reduce the profile by making deposits in the bank. Offset ratios shall be those prevailing at the time of offset. The baseline profile shall be adjusted to reflect current RACT emission levels for baseline operations prior to any deposits going into the bank.
 - c. The baseline profile will be permanently lowered to correspond to reductions required by any future regulations promulgated by the District.
 - d. The baseline profile will be permanently lowered by the difference between baseline emissions and RACT for any source under the cap that is permanently shut down or removed from the cap. The baseline period used for determination of emissions shall be the same as was used in the evaluation of Permit 26786 (baseline operations shall be as described in Application No. 26786), unless emissions at the affected source were increased as a result of this or other permits; in which case the baseline period shall be the two year period immediately preceding the date of application.
 - e. If a new source is added to those under the cap, the profile will be permanently lowered by the amount of excess offsets required for onsite offsets under the prevailing NSR rule (i.e. applicable offset ratios and RACT adjustments).
 - f. If a source already under the cap is modified with a resulting increase in emissions, the baseline profile will be permanently lowered by the amount of excess offsets required for onsite offsets under the prevailing NSR rule (i.e. applicable offset ratios and RACT adjustments).
 - g. The baseline profile may be adjusted to reflect more accurate emission factors which may become available, providing:
 - i. Sufficient data are available to apply the revised emission factor to the baseline period.
 - ii. The revised emission factor is approved by the APCO, incorporated into this permit, and is applied to all future emission calculations.

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- h. Notwithstanding any of the above, the relaxation of any limits that increase the potential to emit may require a full PSD / NSR review of the source as though construction had not yet commenced on the source.

[basis: Regulation 2-2-302]

7. The baseline profile for hydrocarbons may be modified in the future in the following ways:

a. The baseline profile will be permanently lowered to correspond to reductions required by any future regulations promulgated by the District.

b. The baseline profile will be permanently lowered by the difference between baseline emissions and RACT for any source under the cap that is shut down or removed from the cap. The baseline period used for determination of emissions shall be the same as was used in the evaluation of Permit 26786 (baseline operations shall be as described in Application 26786) unless emissions at the affected source were increased as a result of this or other permits; in which case the baseline period shall be the five year period immediately preceding the date of application.

c. The owner/operator may not make deposits in the emissions bank by simply lowering the hydrocarbon cap. The hydrocarbon cap does not meet the requirement of 2-2-606.1 (b). The calculation of baseline for the purposes of banking or new source review for any hydrocarbon source under the cap shall be determined pursuant to the provisions of Regulation 2-2-606.2 or the equivalent regulation in effect at the time of application.

d. If a new source is added to those under the cap, the profile will be permanently lowered by the amount of excess offsets required for onsite offsets under the prevailing NSR rule (i.e. applicable offset ratios and RACT adjustments); the entire emission increase shall be offset by actual emission reductions from specific identifiable sources subject to enforceable permit conditions.

e. If a source already under the cap is modified, the profile will be permanently lowered by the amount of excess offsets required for onsite offsets under the prevailing NSR rule (i.e. applicable offset ratios and RACT adjustments); the entire emission increase shall be offset by actual emission reductions from specific identifiable sources subject to enforceable permit conditions.

[basis: Regulation 2-2-302]

C. NON-COMPLIANCE WILL RESULT IN THE FOLLOWING ACTIONS:

No. of Non-complying days
for any one pollutant

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| (per 365 day period) | Action |
|----------------------|--|
| More than 0 | The owner/operator shall notify the District within 15 working days of any non-complying day. One V/N will be issued per day of noncompliance for violation of permit conditions. |
| More than 5 | <p>If the previous 365 days include more than 5 non-complying days, the refinery operations shall be limited in the ways listed below. The owner/operator may submit alternative actions providing equivalent corrective control for consideration by the APCO. Upon APCO approval, the alternative actions may replace the limitations listed below. These limitations shall remain in effect following any day of non-compliance until the owner/operator has demonstrated compliance for three consecutive days.</p> <ol style="list-style-type: none">The refinery shall not process more than 124,000 barrels of crude oil per stream day. [basis: Regulation 2-2-302]The refinery shall not process more than 22,000 barrels of Flexicoker feed per stream day. [basis: Regulation 2-2-302]The refinery shall not process more than 65,000 barrels of catalytic cracker feed per stream day. [basis: Regulation 2-2-302]Total fuel usage at sources under the cap shall not exceed 14730 NLFE (Net Liquid Fuel Equivalent) barrels per stream day. [basis: Regulation 2-2-302]Total sulfur content of liquid fuels shall not exceed 1.0 ton/day. In the event that the Flexicoker Unit is down, the total sulfur content of liquid fuels may not exceed 1.3 tons/day. [basis: Regulation 2-2-302]Large cargo vessels (170 MDWEIGHT or greater) shall not be offloaded while any other vessel is being offloaded. Violation of this condition may result in the revocation of all permits. [basis: Regulation 2-2-302] |

D. STORAGE CONDITIONS

- For Tank 14 (S14), Tank -20 (S20), Tank -1139 (S1139), Tank -1140 (S1140), Tank -1141 (S1141), Tank 483 (S483), Tank -484 (S484), Tank -530 (S530), T-531, Tank -532(S532), Tank 1330 (S1751), Tank 1331 (S1752), Tank 1332 Gasoline (S1753), Tank 1333 Gasoline (S1754), Tank 1336 (S1757), and Tank 1337 (S1758), T-538, T-1330, T-1331, T-1332, T-1333, T-1336, T-1337:

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- a. Liquid with a true vapor pressure of 1.5 psia or greater shall not be stored in more than 12 of the above tanks at any one time.
 - b. The above tanks will be controlled by a vapor recovery system, or equivalent control equipment, capable of controlling hydrocarbon emissions to less than 8 lb/day.
[basis: Cumulative Increase]
2. Liquid with a true vapor pressure of 1.5 psia or greater shall not be stored in Tank 1076. [basis: Cumulative Increase]
 3. Coke Storage Bins and Purge Silos shall be controlled by baghouses capable of reducing mass emissions of particulate matter by a minimum of 99%. [basis: BACT, Cumulative Increase]

E. FUEL CONDITIONS

1. Sulfur content of any liquid fuel burned in furnaces subject to the cap shall not exceed 0.5% by weight. [basis: Regulation 9-1-304]
2. Except during periods of startup and shutdown, while the refinery is processing more than 50 % San Joaquin Valley (SJV) crudes, the H2S concentration of Flexigas shall not exceed 80 ppmv on a daily average, nor 60 ppmv on an annual average. At all other times, except during periods of startup and shutdown, the H2S concentration of the Flexigas shall not exceed 35 ppmv. If the owner/operator can demonstrate that the Flexorb[®] cannot achieve the 35 ppmv H2S concentration on the Flexigas while processing less than 50% SJV crudes, the owner/operator may apply to the APCO for re-evaluation and possible revision of this permit condition.
 - a. For the purpose of this condition, startup and shutdown of the Flexicoker (S1759) operation shall not exceed 48 hours and 96 hours, respectively.
 - b. Flaring of untreated flexigas at the OPC1_FXG Flare (S1771) during startup of the Flexicoker (S1759) shall not exceed 48 hours. SO2 emissions during startup at the OPC1_FXG Flare (S1771) from untreated flexigas burning will not exceed 5 tons per startup. Startup is defined as the period of time between the initiation of feed to the Flexicoker (S1759) and when the Flexorb Unit (A-751) is online and flexigas composition has stabilized at H2S levels sufficient to meet Condition No. 7618 Part E.2.
 - c. Flaring of untreated flexigas at the OPC1_FXG Flare (S1771) during shutdown of the Flexicoker (S1759) shall not exceed 96 hours. SO2 emissions during shutdown at the the OPC1_FXG Flare (S1771) from untreated flexigas burning shall not exceed 8 tons per shutdown. Shutdown is defined as the period of time between the cessation of normal operation of the Flexorb Unit (A-751) and when flexigas production at the Flexicoker (S1759) ends.
 - d. The owner/operator must calculate SO2 emissions for each start-up and

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shutdown of the Flexicoker (S1759). These startup and shutdown SO₂ emissions are to be included in their SO₂ cap specified in Table IV of this condition.

[basis: Cumulative Increase]

3. Sulfur content of fuel oil used by tankers larger than 170 MDWEIGHT will not exceed 0.5% (by weight) while discharging crude oil at a rate greater than 35,000 Bbl/hr. [basis: Cumulative Increase]

F. REPORTING

1. The owner/operator shall report the following on a monthly basis:

- a. Daily compliance/non-compliance for each pollutant.

- b. Daily total emissions for each pollutant.

[basis: Cumulative Increase]

G. RECORDS

1. The owner/operator shall make available to the District, upon request, all records relating to the operation of the equipment covered by this permit. [basis: Cumulative Increase]

TABLE I.

Units and Operations to be Included in Audit:

All refinery combustion devices (including flexigas burned in flares)

Dimersol Unit

Hydrogen Plants

Crude Units

CCU

Sulfur Plants and Tail Gas Units

Wharf Operations

Lightering and Ballasting while within District boundaries

TABLE II.

FACILITY BASELINE PROFILE -- NO_x EMISSIONS (LB/DAY)

NO_x Baseline reduced 3089 lb/day per Condition ID# 12271 and 2 lb/day per Condition ID# 4364. (AN 1362, Feb. 2002); NO_x baseline reduced by 7,121 lbs/day under Application 6904.

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| No. of days | Pounds per day |
|-----------------|----------------|
| <u>1</u> | <u>13444.4</u> |
| <u>2</u> | <u>12786.8</u> |
| <u>3</u> | <u>12306.8</u> |
| <u>4</u> | <u>12126.8</u> |
| <u>5</u> | <u>11934.8</u> |
| <u>6</u> | <u>11925.2</u> |
| <u>7</u> | <u>11862.8</u> |
| <u>8</u> | <u>11822</u> |
| <u>9</u> | <u>11805.2</u> |
| <u>10</u> | <u>11795.6</u> |
| <u>11 to 12</u> | <u>11752.4</u> |
| <u>13</u> | <u>11750</u> |
| <u>14</u> | <u>11747.6</u> |
| <u>15</u> | <u>11723.6</u> |
| <u>16</u> | <u>11697.2</u> |
| <u>17</u> | <u>11690</u> |
| <u>18</u> | <u>11565.2</u> |
| <u>19</u> | <u>11562.8</u> |
| <u>20</u> | <u>11512.4</u> |
| <u>21</u> | <u>11457.2</u> |
| <u>22</u> | <u>11435.6</u> |
| <u>23</u> | <u>11411.6</u> |
| <u>24</u> | <u>11397.2</u> |
| <u>25</u> | <u>11378</u> |
| <u>26</u> | <u>11366</u> |
| <u>27</u> | <u>11351.6</u> |
| <u>28 to 29</u> | <u>11327.6</u> |
| <u>30</u> | <u>11296.4</u> |
| <u>31</u> | <u>11243.6</u> |
| <u>32 to 33</u> | <u>11236.4</u> |
| <u>34</u> | <u>11219.6</u> |
| <u>35</u> | <u>11210</u> |
| <u>36</u> | <u>11202.8</u> |
| <u>37</u> | <u>11195.6</u> |
| <u>38</u> | <u>11171.6</u> |

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| <u>No. of days</u> | <u>Pounds per day</u> |
|--------------------|-----------------------|
| <u>39</u> | <u>11157.2</u> |
| <u>40</u> | <u>11138</u> |
| <u>41</u> | <u>11111.6</u> |
| <u>42</u> | <u>11102</u> |
| <u>43 to 44</u> | <u>11094.8</u> |
| <u>45</u> | <u>11092.4</u> |
| <u>46</u> | <u>11073.2</u> |
| <u>47</u> | <u>11032.4</u> |
| <u>48</u> | <u>10991.6</u> |
| <u>49</u> | <u>10982</u> |
| <u>50</u> | <u>10979.6</u> |
| <u>51</u> | <u>10965.2</u> |
| <u>52</u> | <u>10948.4</u> |
| <u>53</u> | <u>10936.4</u> |
| <u>54</u> | <u>10931.6</u> |
| <u>55 to 56</u> | <u>10914.8</u> |
| <u>57</u> | <u>10900.4</u> |
| <u>58</u> | <u>10828.4</u> |
| <u>59 to 60</u> | <u>10799.6</u> |
| <u>61 to 63</u> | <u>10749.2</u> |
| <u>64</u> | <u>10730</u> |
| <u>65 to 67</u> | <u>10689.2</u> |
| <u>68</u> | <u>10679.6</u> |
| <u>69</u> | <u>10672.4</u> |
| <u>70</u> | <u>10658</u> |
| <u>71</u> | <u>10643.6</u> |
| <u>72 to 73</u> | <u>10634</u> |
| <u>74</u> | <u>10626.8</u> |
| <u>75</u> | <u>10619.6</u> |
| <u>76</u> | <u>10610</u> |
| <u>77</u> | <u>10595.6</u> |
| <u>78</u> | <u>10583.6</u> |
| <u>79 to 80</u> | <u>10554.8</u> |
| <u>81</u> | <u>10552.4</u> |
| <u>82</u> | <u>10533.2</u> |

VI. Permit Conditions

| <u>No. of days</u> | <u>Pounds per day</u> |
|--------------------|-----------------------|
| <u>83</u> | <u>10518.8</u> |
| <u>84</u> | <u>10509.2</u> |
| <u>85</u> | <u>10504.4</u> |
| <u>86</u> | <u>10502</u> |
| <u>87</u> | <u>10478</u> |
| <u>88</u> | <u>10473.2</u> |
| <u>89</u> | <u>10463.6</u> |
| <u>90</u> | <u>10451.6</u> |
| <u>91</u> | <u>10449.2</u> |
| <u>92</u> | <u>10362.8</u> |
| <u>93 to 94</u> | <u>10346</u> |
| <u>95 to 96</u> | <u>10322</u> |
| <u>97</u> | <u>10247.6</u> |
| <u>98</u> | <u>10226</u> |
| <u>99</u> | <u>10204.4</u> |
| <u>100</u> | <u>10146.8</u> |
| <u>101</u> | <u>10137.2</u> |
| <u>102</u> | <u>10118</u> |
| <u>103</u> | <u>10096.4</u> |
| <u>104</u> | <u>10094</u> |
| <u>105</u> | <u>10091.6</u> |
| <u>106</u> | <u>10031.6</u> |
| <u>107</u> | <u>9966.8</u> |
| <u>108</u> | <u>9954.8</u> |
| <u>109 to 110</u> | <u>9940.4</u> |
| <u>111</u> | <u>9923.6</u> |
| <u>112</u> | <u>9921.2</u> |
| <u>113</u> | <u>9916.4</u> |
| <u>114</u> | <u>9899.6</u> |
| <u>115</u> | <u>9894.8</u> |
| <u>116</u> | <u>9878</u> |
| <u>117</u> | <u>9875.6</u> |
| <u>118</u> | <u>9866</u> |
| <u>119</u> | <u>9861.2</u> |

VI. Permit Conditions

| <u>No. of days</u> | <u>Pounds per day</u> |
|--------------------|-----------------------|
| <u>120</u> | <u>9858.8</u> |
| <u>121</u> | <u>9849.2</u> |
| <u>122</u> | <u>9842</u> |
| <u>123</u> | <u>9837.2</u> |
| <u>124</u> | <u>9832.4</u> |
| <u>125</u> | <u>9827.6</u> |
| <u>126</u> | <u>9813.2</u> |
| <u>127 to 128</u> | <u>9796.4</u> |
| <u>129</u> | <u>9789.2</u> |
| <u>130</u> | <u>9762.8</u> |
| <u>131</u> | <u>9760.4</u> |
| <u>132</u> | <u>9746</u> |
| <u>133</u> | <u>9743.6</u> |
| <u>134</u> | <u>9726.8</u> |
| <u>135</u> | <u>9724.4</u> |
| <u>136 to 137</u> | <u>9712.4</u> |
| <u>138 to 139</u> | <u>9707.6</u> |
| <u>140 to 142</u> | <u>9705.2</u> |
| <u>143</u> | <u>9688.4</u> |
| <u>144 to 145</u> | <u>9686</u> |
| <u>146</u> | <u>9683.6</u> |
| <u>147</u> | <u>9681.2</u> |
| <u>148</u> | <u>9678.8</u> |
| <u>149 to 150</u> | <u>9671.6</u> |
| <u>151</u> | <u>9666.8</u> |
| <u>152 to 154</u> | <u>9664.4</u> |
| <u>155 to 158</u> | <u>9662</u> |
| <u>159</u> | <u>9657.2</u> |
| <u>160</u> | <u>9654.8</u> |
| <u>161 to 162</u> | <u>9638</u> |
| <u>163</u> | <u>9635.6</u> |

VI. Permit Conditions

| <u>No. of days</u> | <u>Pounds per day</u> |
|--------------------|-----------------------|
| <u>164</u> | <u>9633.2</u> |
| <u>165</u> | <u>9628.4</u> |
| <u>166 to 168</u> | <u>9623.6</u> |
| <u>169</u> | <u>9616.4</u> |
| <u>170</u> | <u>9606.8</u> |
| <u>171</u> | <u>9602</u> |
| <u>172</u> | <u>9599.6</u> |
| <u>173</u> | <u>9597.2</u> |
| <u>174 to 176</u> | <u>9592.4</u> |
| <u>177</u> | <u>9582.8</u> |
| <u>178</u> | <u>9578</u> |
| <u>179</u> | <u>9575.6</u> |
| <u>180</u> | <u>9568.4</u> |
| <u>181 to 182</u> | <u>9566</u> |
| <u>183 to 184</u> | <u>9563.6</u> |
| <u>185</u> | <u>9561.2</u> |
| <u>186</u> | <u>9556.4</u> |
| <u>187 to 188</u> | <u>9551.6</u> |
| <u>189 to 200</u> | <u>9549.2</u> |
| <u>201 to 202</u> | <u>9527.6</u> |
| <u>203</u> | <u>9525.2</u> |
| <u>204 to 206</u> | <u>9520.4</u> |
| <u>207</u> | <u>9518</u> |
| <u>208 to 209</u> | <u>9515.6</u> |
| <u>210 to 213</u> | <u>9513.2</u> |
| <u>214 to 216</u> | <u>9510.8</u> |
| <u>217 to 220</u> | <u>9508.4</u> |
| <u>221 to 225</u> | <u>9506</u> |
| <u>226 to 228</u> | <u>9501.2</u> |
| <u>229 to 230</u> | <u>9496.4</u> |
| <u>231</u> | <u>9494</u> |
| <u>232</u> | <u>9489.2</u> |
| <u>233 to 234</u> | <u>9484.4</u> |
| <u>235 to 236</u> | <u>9477.2</u> |
| <u>237</u> | <u>9474.8</u> |
| <u>238 to 239</u> | <u>9472.4</u> |

VI. Permit Conditions

| <u>No. of days</u> | <u>Pounds per day</u> |
|--------------------|-----------------------|
| <u>240 to 241</u> | <u>9465.2</u> |
| <u>242</u> | <u>9462.8</u> |
| <u>243</u> | <u>9460.4</u> |
| <u>244</u> | <u>9458</u> |
| <u>245</u> | <u>9455.6</u> |
| <u>246 to 247</u> | <u>9453.2</u> |
| <u>248</u> | <u>9448.4</u> |
| <u>249</u> | <u>9438.8</u> |
| <u>250</u> | <u>9434</u> |
| <u>251 to 252</u> | <u>9426.8</u> |
| <u>253</u> | <u>9424.4</u> |
| <u>254</u> | <u>9419.6</u> |
| <u>255 to 259</u> | <u>9414.8</u> |
| <u>260</u> | <u>9407.6</u> |
| <u>261 to 278</u> | <u>9395.6</u> |
| <u>279</u> | <u>9381.2</u> |
| <u>280</u> | <u>9378.8</u> |
| <u>281 to 282</u> | <u>9369.2</u> |
| <u>283</u> | <u>9366.8</u> |
| <u>284 to 285</u> | <u>9364.4</u> |
| <u>286 to 290</u> | <u>9362</u> |
| <u>291 to 294</u> | <u>9359.6</u> |
| <u>295 to 297</u> | <u>9357.2</u> |
| <u>298 to 301</u> | <u>9354.8</u> |
| <u>302 to 304</u> | <u>9352.4</u> |
| <u>305 to 308</u> | <u>9350</u> |
| <u>309 to 312</u> | <u>9347.6</u> |
| <u>313</u> | <u>9342.8</u> |
| <u>314</u> | <u>9340.4</u> |
| <u>315</u> | <u>9304.4</u> |
| <u>316</u> | <u>9297.2</u> |
| <u>317</u> | <u>9285.2</u> |
| <u>318</u> | <u>9280.4</u> |
| <u>319 to 325</u> | <u>9261.2</u> |
| <u>326 to 365</u> | <u>9242</u> |

VI. Permit Conditions

| No. of days | Pounds per day |
|-------------|----------------|
| 1 | 20565.4 |
| 2 | 19907.8 |
| 3 | 19427.8 |
| 4 | 19247.8 |
| 5 | 19055.8 |
| 6 | 19046.2 |
| 7 | 18983.8 |
| 8 | 18943.0 |
| 9 | 18926.2 |
| 10 | 18916.6 |
| 11 to 12 | 18873.4 |
| 13 | 18871.0 |
| 14 | 18868.6 |
| 15 | 18844.6 |
| 16 | 18818.2 |
| 17 | 18811.0 |
| 18 | 18686.2 |
| 19 | 18683.8 |
| 20 | 18633.4 |
| 21 | 18578.2 |
| 22 | 18556.6 |
| 23 | 18532.6 |
| 24 | 18518.2 |
| 25 | 18499.0 |
| 26 | 18487.0 |
| 27 | 18472.6 |
| 28 to 29 | 18448.6 |
| 30 | 18417.4 |
| 31 | 18364.6 |
| 32 to 33 | 18357.4 |
| 34 | 18340.6 |
| 35 | 18331.0 |
| 36 | 18323.8 |
| 37 | 18316.6 |
| 38 | 18292.6 |
| 39 | 18278.2 |
| 40 | 18259.0 |
| 41 | 18232.6 |
| 42 | 18223.0 |
| 43 to 44 | 18215.8 |
| 45 | 18213.4 |
| 46 | 18194.2 |

VI. Permit Conditions

| | |
|------------|---------|
| — 47 | 18153.4 |
| — 48 | 18112.6 |
| — 49 | 18103.0 |
| — 50 | 18100.6 |
| — 51 | 18086.2 |
| — 52 | 18069.4 |
| — 53 | 18057.4 |
| — 54 | 18052.6 |
| — 55 to 56 | 18035.8 |
| — 57 | 18021.4 |
| — 58 | 17949.4 |
| — 59 to 60 | 17920.6 |
| — 61 to 63 | 17870.2 |
| — 64 | 17851.0 |
| — 65 to 67 | 17810.2 |
| — 68 | 17800.6 |
| — 69 | 17793.4 |
| — 70 | 17779.0 |
| — 71 | 17764.6 |
| — 72 to 73 | 17755.0 |
| — 74 | 17747.8 |
| — 75 | 17740.6 |
| — 76 | 17731.0 |
| — 77 | 17716.6 |
| — 78 | 17704.6 |
| — 79 to 80 | 17675.8 |
| — 81 | 17673.4 |
| — 82 | 17654.2 |
| — 83 | 17639.8 |
| — 84 | 17630.2 |
| — 85 | 17625.4 |
| — 86 | 17623.0 |
| — 87 | 17599.0 |
| — 88 | 17594.2 |
| — 89 | 17584.6 |
| — 90 | 17572.6 |
| — 91 | 17570.2 |
| — 92 | 17483.8 |
| — 93 to 94 | 17467.0 |
| — 95 to 96 | 17443.0 |
| — 97 | 17368.6 |
| — 98 | 17347.0 |
| — 99 | 17325.4 |
| — 100 | 17267.8 |
| — 101 | 17258.2 |
| — 102 | 17239.0 |

VI. Permit Conditions

| | |
|--------------|---------|
| — 103 | 17217.4 |
| — 104 | 17215.0 |
| — 105 | 17212.6 |
| — 106 | 17152.6 |
| — 107 | 17087.8 |
| — 108 | 17075.8 |
| — 109 to 110 | 17061.4 |
| — 111 | 17044.6 |
| — 112 | 17042.2 |
| — 113 | 17037.4 |
| — 114 | 17020.6 |
| — 115 | 17015.8 |
| — 116 | 16999.0 |
| — 117 | 16996.6 |
| — 118 | 16987.0 |
| — 119 | 16982.2 |
| — 120 | 16979.8 |
| — 121 | 16970.2 |
| — 122 | 16963.0 |
| — 123 | 16958.2 |
| — 124 | 16953.4 |
| — 125 | 16948.6 |
| — 126 | 16934.2 |
| — 127 to 128 | 16917.4 |
| — 129 | 16910.2 |
| — 130 | 16883.8 |
| — 131 | 16881.4 |
| — 132 | 16867.0 |
| — 133 | 16864.6 |
| — 134 | 16847.8 |
| — 135 | 16845.4 |
| — 136 to 137 | 16833.4 |
| — 138 to 139 | 16828.6 |
| — 140 to 142 | 16826.2 |
| — 143 | 16809.4 |
| — 144 to 145 | 16807.0 |
| — 146 | 16804.6 |
| — 147 | 16802.2 |
| — 148 | 16799.8 |
| — 149 to 150 | 16792.6 |
| — 151 | 16787.8 |
| — 152 to 154 | 16785.4 |
| — 155 to 158 | 16783.0 |
| — 159 | 16778.2 |
| — 160 | 16775.8 |
| — 161 to 162 | 16759.0 |

VI. Permit Conditions

| | |
|--------------|---------|
| — 163 | 16756.6 |
| — 164 | 16754.2 |
| — 165 | 16749.4 |
| — 166 to 168 | 16744.6 |
| — 169 | 16737.4 |
| — 170 | 16727.8 |
| — 171 | 16723.0 |
| — 172 | 16720.6 |
| — 173 | 16718.2 |
| — 174 to 176 | 16713.4 |
| — 177 | 16703.8 |
| — 178 | 16699.0 |
| — 179 | 16696.6 |
| — 180 | 16689.4 |
| — 181 to 182 | 16687.0 |
| — 183 to 184 | 16684.6 |
| — 185 | 16682.2 |
| — 186 | 16677.4 |
| — 187 to 188 | 16672.6 |
| — 189 to 200 | 16670.2 |
| — 201 to 202 | 16648.6 |
| — 203 | 16646.2 |
| — 204 to 206 | 16641.4 |
| — 207 | 16639.0 |
| — 208 to 209 | 16636.6 |
| — 210 to 213 | 16634.2 |
| — 214 to 216 | 16631.8 |
| — 217 to 220 | 16629.4 |
| — 221 to 225 | 16627.0 |
| — 226 to 228 | 16622.2 |
| — 229 to 230 | 16617.4 |
| — 231 | 16615.0 |
| — 232 | 16610.2 |
| — 233 to 234 | 16605.4 |
| — 235 to 236 | 16598.2 |
| — 237 | 16595.8 |
| — 238 to 239 | 16593.4 |
| — 240 to 241 | 16586.2 |
| — 242 | 16583.8 |
| — 243 | 16581.4 |
| — 244 | 16579.0 |
| — 245 | 16576.6 |
| — 246 to 247 | 16574.2 |
| — 248 | 16569.4 |
| — 249 | 16559.8 |
| — 250 | 16555.0 |

VI. Permit Conditions

| | |
|--------------|---------|
| — 251 to 252 | 16547.8 |
| — 253 | 16545.4 |
| — 254 | 16540.6 |
| — 255 to 259 | 16535.8 |
| — 260 | 16528.6 |
| — 261 to 278 | 16516.6 |
| — 279 | 16502.2 |
| — 280 | 16499.8 |
| — 281 to 282 | 16490.2 |
| — 283 | 16487.8 |
| — 284 to 285 | 16485.4 |
| — 286 to 290 | 16483.0 |
| — 291 to 294 | 16480.6 |
| — 295 to 297 | 16478.2 |
| — 298 to 301 | 16475.8 |
| — 302 to 304 | 16473.4 |
| — 305 to 308 | 16471.0 |
| — 309 to 312 | 16468.6 |
| — 313 | 16463.8 |
| — 314 | 16461.4 |
| — 315 | 16425.4 |
| — 316 | 16418.2 |
| — 317 | 16406.2 |
| — 318 | 16401.4 |
| — 319 to 325 | 16382.2 |
| — 326 to 365 | 16363.0 |

TABLE III.
FACILITY BASELINE PROFILE -- HYDROCARBON EMISSIONS (LB/DAY)

| No. of days | Pounds per day |
|-------------|----------------|
| 1 | 13842.4 |
| 2 | 13688.8 |
| 3 | 12284.8 |
| 4 | 12114.4 |
| 5 | 11761.6 |
| 6 | 11591.2 |
| 7 | 11101.6 |
| 8 | 11024.8 |
| 9 | 10614.4 |
| 10 | 10552.0 |
| 11 | 10530.4 |
| 12 | 10477.6 |
| 13 | 10446.4 |
| 14 | 10427.2 |

VI. Permit Conditions

| | |
|--------|---------|
| 15 | 10141.6 |
| 16 | 9829.6 |
| 17 | 9673.6 |
| 18 | 9416.8 |
| 19 | 8600.8 |
| 20 | 8598.4 |
| 21 | 8548.0 |
| 22 | 8543.2 |
| 23 | 8320.0 |
| 24 | 8226.4 |
| 25 | 8185.6 |
| 26 | 8140.0 |
| 27 | 8089.6 |
| 28 | 7679.2 |
| 29 | 7638.4 |
| 30 | 7595.2 |
| 31 | 7549.6 |
| 32 | 7429.6 |
| 33 | 7391.2 |
| 34 | 7146.4 |
| 35 | 6860.8 |
| 36 | 6812.8 |
| 37 | 6752.8 |
| 38 | 6671.2 |
| 39 | 6620.8 |
| 40 | 6479.2 |
| 41 | 6385.6 |
| 42 | 6313.6 |
| 43 | 5857.6 |
| 44 | 5855.2 |
| 45 | 5831.2 |
| 46 | 5754.4 |
| 47 | 5749.6 |
| 48 | 5744.8 |
| 49to50 | 5740.0 |
| 51to52 | 5732.8 |
| 53to54 | 5730.4 |
| 55 | 5728.0 |
| 56to57 | 5723.2 |
| 58 | 5716.0 |
| 59 | 5682.4 |
| 60 | 5651.2 |
| 61 | 5598.4 |
| 62 | 5593.6 |
| 63 | 5456.8 |
| 64 | 5437.6 |

VI. Permit Conditions

| | |
|----------|--------|
| 65 | 5423.2 |
| 66 | 5399.2 |
| 67 | 5380.0 |
| 68 | 5315.2 |
| 69 | 5260.0 |
| 70 | 5243.2 |
| 71 | 5212.0 |
| 72 | 4859.2 |
| 73 | 4844.8 |
| 74 | 4775.2 |
| 75 | 4765.6 |
| 76 | 4751.2 |
| 77 | 4657.6 |
| 78 | 4463.2 |
| 79 | 4408.0 |
| 80 | 4326.4 |
| 81 | 4268.8 |
| 82 | 4266.4 |
| 83 | 4180.0 |
| 84 | 4069.6 |
| 85 | 3949.6 |
| 86 | 3858.4 |
| 87 | 3820.0 |
| 88 | 3716.8 |
| 89 | 3690.4 |
| 90 to 91 | 3668.8 |
| 92 | 3402.4 |
| 93 | 3325.6 |
| 94 | 3212.8 |
| 95 | 3181.6 |
| 96 | 3056.8 |
| 97 | 3025.6 |
| 98 | 2960.8 |
| 99 | 2908.0 |
| 100 | 2831.2 |
| 101 | 2826.4 |
| 102 | 2706.4 |
| 103 | 2418.4 |
| 104 | 2298.4 |
| 105 | 2048.8 |
| 106 | 2020.0 |
| 107 | 2015.2 |
| 108 | 2008.0 |
| 109 | 1969.6 |
| 110 | 1950.4 |
| 111 | 1945.6 |

VI. Permit Conditions

| | |
|-----------|--------|
| 112 | 1933.6 |
| 113 | 1928.8 |
| 114 to115 | 1926.4 |
| 116 | 1919.2 |
| 117 | 1912.0 |
| 118 to119 | 1909.6 |
| 120 to121 | 1907.2 |
| 122 | 1904.8 |
| 123 | 1895.2 |
| 124 | 1883.2 |
| 125 | 1880.8 |
| 126 | 1878.4 |
| 127 | 1871.2 |
| 128 | 1868.8 |
| 129 to131 | 1861.6 |
| 132 to133 | 1859.2 |
| 134 to135 | 1856.8 |
| 136 to139 | 1854.4 |
| 140 | 1852.0 |
| 141 | 1842.4 |
| 142 to144 | 1840.0 |
| 145 to146 | 1837.6 |
| 147 to148 | 1835.2 |
| 149 to150 | 1832.8 |
| 151 | 1830.4 |
| 152 | 1828.0 |
| 153 | 1823.2 |
| 154 to157 | 1820.8 |
| 158 to159 | 1818.4 |
| 160 to162 | 1816.0 |
| 163 to164 | 1813.6 |
| 165 to166 | 1811.2 |
| 167 to169 | 1808.8 |
| 170 | 1804.0 |
| 171 to172 | 1801.6 |
| 173 | 1787.2 |
| 174 to175 | 1782.4 |
| 176 | 1777.6 |
| 177 to179 | 1765.6 |
| 180 | 1763.2 |
| 181 | 1760.8 |
| 182 | 1753.6 |
| 183 | 1751.2 |
| 184 | 1748.8 |
| 185 to187 | 1746.4 |
| 188 to190 | 1744.0 |

VI. Permit Conditions

| | |
|-----------|--------|
| 191 | 1741.6 |
| 192 to195 | 1739.2 |
| 196 to197 | 1734.4 |
| 198 to208 | 1732.0 |
| 209 to214 | 1729.6 |
| 215 to225 | 1727.2 |
| 226 to233 | 1724.8 |
| 234 to245 | 1722.4 |
| 246 to255 | 1720.0 |
| 256 to267 | 1717.6 |
| 268 to301 | 1715.2 |
| 302 to311 | 1712.8 |
| 312 to325 | 1710.4 |
| 326 to365 | 1708.0 |

TABLE IV.
FACILITY BASELINE PROFILE -- SOX EMISSIONS (LB/DAY)

SO2 baseline reduced 1398 lb/day per Condition ID# 12271. (AN 1362, Feb. 2002)

SO2 baseline reduced by 80 lb/day for Flexsorb project
(AN 4106, June 2002)

Note: the 110.2 lb/day reduction was a calculation error. The
14.6 Ton/yr reduction for the Flexsorb Project is equal to 80.0
lb/day.

| No. of days | Pounds per day |
|-------------|----------------|
| 1 | 22943 |
| 2 | 22931 |
| 3 | 22724.6 |
| 4 | 22657.4 |
| 5 | 22578.2 |
| 6 | 22407.8 |
| 7 | 22141.4 |
| 8 | 22119.8 |
| 9 | 22045.4 |
| 10 | 22031 |
| 11 | 21985.4 |
| 12 | 21774.2 |
| 13 | 21771.8 |
| 14 | 21683 |
| 15 | 21606.2 |
| 16 | 21476.6 |
| 17 | 21392.6 |
| 18 | 21371 |

VI. Permit Conditions

| | |
|----|---------|
| 19 | 21344.6 |
| 20 | 20994.2 |
| 21 | 20941.4 |
| 22 | 20915 |
| 23 | 20787.8 |
| 24 | 20778.2 |
| 25 | 20643.8 |
| 26 | 20564.6 |
| 27 | 20497.4 |
| 28 | 20490.2 |
| 29 | 20432.6 |
| 30 | 20430.2 |
| 31 | 20411 |
| 32 | 20394.2 |
| 33 | 20372.6 |
| 34 | 20322.2 |
| 35 | 20247.8 |
| 36 | 19983.8 |
| 37 | 19947.8 |
| 38 | 19506.2 |
| 39 | 19491.8 |
| 40 | 19489.4 |
| 41 | 19338.2 |
| 42 | 19287.8 |
| 43 | 19057.4 |
| 44 | 19047.8 |
| 45 | 19043 |
| 46 | 18939.8 |
| 47 | 18937.4 |
| 48 | 18915.8 |
| 49 | 18822.2 |
| 50 | 18817.4 |
| 51 | 18810.2 |
| 52 | 18759.8 |
| 53 | 18601.4 |
| 54 | 18536.6 |
| 55 | 18443 |
| 56 | 18375.8 |
| 57 | 18311 |
| 58 | 18128.6 |
| 59 | 18121.4 |
| 60 | 18075.8 |
| 61 | 18056.6 |
| 62 | 18039.8 |
| 63 | 17975 |
| 64 | 17965.4 |

VI. Permit Conditions

| | |
|----------|---------|
| 65 | 17948.6 |
| 66 | 17943.8 |
| 67 | 17931.8 |
| 68 | 17907.8 |
| 69 | 17763.8 |
| 70 | 17720.6 |
| 71 | 17713.4 |
| 72 | 17711 |
| 73 | 17708.6 |
| 74 | 17682.2 |
| 75 | 17581.4 |
| 76 | 17567 |
| 77 | 17480.6 |
| 78 | 17444.6 |
| 79 | 17413.4 |
| 80 | 17363 |
| 81 | 17307.8 |
| 82 | 17305.4 |
| 83 | 17291 |
| 84 | 17233.4 |
| 85 | 17231 |
| 86 to 87 | 17221.4 |
| 88 | 17214.2 |
| 89 | 17211.8 |
| 90 | 17187.8 |
| 91 | 17185.4 |
| 92 | 17135 |
| 93 | 17096.6 |
| 94 | 17065.4 |
| 95 | 17048.6 |
| 96 | 17046.2 |
| 97 | 17024.6 |
| 98 | 17010.2 |
| 99 | 17000.6 |
| 100 | 16974.2 |
| 101 | 16962.2 |
| 102 | 16952.6 |
| 103 | 16943 |
| 104 | 16940.6 |
| 105 | 16899.8 |
| 106 | 16866.2 |
| 107 | 16859 |
| 108 | 16849.4 |
| 109 | 16847 |
| 110 | 16803.8 |
| 111 | 16791.8 |

VI. Permit Conditions

| | |
|------------|---------|
| 112 | 16789.4 |
| 113 | 16765.4 |
| 114 | 16751 |
| 115 | 16734.2 |
| 116 | 16717.4 |
| 117 | 16712.6 |
| 118 | 16710.2 |
| 119 | 16695.8 |
| 120 | 16669.4 |
| 121 | 16633.4 |
| 122 | 16631 |
| 123 | 16619 |
| 124 | 16609.4 |
| 125 | 16592.6 |
| 126 | 16587.8 |
| 127 | 16571 |
| 128 | 16568.6 |
| 129 | 16563.8 |
| 130 | 16535 |
| 131 | 16527.8 |
| 132 | 16515.8 |
| 133 | 16499 |
| 134 | 16487 |
| 135 | 16472.6 |
| 136 | 16458.2 |
| 137 | 16422.2 |
| 138 | 16417.4 |
| 139 to 140 | 16400.6 |
| 141 | 16388.6 |
| 142 | 16369.4 |
| 143 | 16364.6 |
| 144 | 16362.2 |
| 145 | 16357.4 |
| 146 | 16352.6 |
| 147 | 16350.2 |
| 148 | 16295 |
| 149 | 16232.6 |
| 150 | 16218.2 |
| 151 | 16191.8 |
| 152 to 153 | 16187 |
| 154 | 16184.6 |
| 155 | 16175 |
| 156 | 16172.6 |
| 157 | 16163 |
| 158 | 16141.4 |
| 159 to 160 | 16139 |

VI. Permit Conditions

| | |
|------------|---------|
| 161 | 16134.2 |
| 162 | 16105.4 |
| 163 | 16083.8 |
| 164 | 16067 |
| 165 | 16062.2 |
| 166 | 16055 |
| 167 | 16052.6 |
| 168 | 16043 |
| 169 | 16035.8 |
| 170 | 15971 |
| 171 | 15963.8 |
| 172 | 15954.2 |
| 173 | 15927.8 |
| 174 | 15913.4 |
| 175 | 15903.8 |
| 176 | 15896.6 |
| 177 | 15891.8 |
| 178 | 15865.4 |
| 179 | 15860.6 |
| 180 | 15846.2 |
| 181 | 15839 |
| 182 to 183 | 15822.2 |
| 184 | 15815 |
| 185 | 15781.4 |
| 186 | 15774.2 |
| 187 | 15740.6 |
| 188 to 189 | 15716.6 |
| 190 | 15702.2 |
| 191 | 15695 |
| 192 | 15685.4 |
| 193 to 194 | 15683 |
| 195 | 15663.8 |
| 196 to 197 | 15656.6 |
| 198 to 199 | 15637.4 |
| 200 | 15615.8 |
| 201 | 15575 |
| 202 | 15555.8 |
| 203 | 15529.4 |
| 204 | 15467 |
| 205 to 207 | 15447.8 |
| 208 | 15438.2 |
| 209 | 15433.4 |
| 210 | 15426.2 |
| 211 | 15423.8 |
| 212 | 15421.4 |
| 213 | 15416.6 |

VI. Permit Conditions

| | |
|------------|---------|
| 214 | 15414.2 |
| 215 | 15409.4 |
| 216 | 15404.6 |
| 217 | 15402.2 |
| 218 | 15399.8 |
| 219 | 15397.4 |
| 220 to 221 | 15395 |
| 222 | 15392.6 |
| 223 | 15387.8 |
| 224 | 15368.6 |
| 225 | 15366.2 |
| 226 | 15361.4 |
| 227 to 229 | 15359 |
| 230 | 15354.2 |
| 231 | 15349.4 |
| 232 | 15342.2 |
| 233 to 234 | 15339.8 |
| 235 | 15337.4 |
| 236 | 15330.2 |
| 237 | 15323 |
| 238 | 15315.8 |
| 239 | 15313.4 |
| 240 | 15308.6 |
| 241 | 15306.2 |
| 242 | 15287 |
| 243 | 15284.6 |
| 244 | 15282.2 |
| 245 | 15279.8 |
| 246 | 15277.4 |
| 247 | 15275 |
| 248 to 250 | 15272.6 |
| 251 to 252 | 15270.2 |
| 253 to 254 | 15265.4 |
| 255 | 15263 |
| 256 to 257 | 15260.6 |
| 258 | 15253.4 |
| 259 | 15234.2 |
| 260 | 15231.8 |
| 261 | 15227 |
| 262 | 15224.6 |
| 263 | 15222.2 |
| 264 | 15219.8 |
| 265 | 15195.8 |
| 266 | 15193.4 |
| 267 to 268 | 15188.6 |
| 269 to 270 | 15186.2 |

VI. Permit Conditions

| | |
|------------|---------|
| 271 | 15181.4 |
| 272 | 15176.6 |
| 273 | 15174.2 |
| 274 | 15171.8 |
| 275 | 15133.4 |
| 276 | 15119 |
| 277 | 15044.6 |
| 278 | 15001.4 |
| 279 | 14967.8 |
| 280 | 14965.4 |
| 281 | 14955.8 |
| 282 | 14891 |
| 283 to 287 | 14881.4 |
| 288 to 294 | 14869.4 |
| 295 | 14622.2 |
| 296 | 14610.2 |
| 297 to 307 | 14600.6 |
| 308 to 325 | 14588.6 |
| 326 to 365 | 14579 |

TABLE V (revised 10/94, App. No. 13814)
MODIFIED FACILITY BASELINE PROFILE—PARTICULATE EMISSIONS

| No. of days | Pounds per day |
|-------------|----------------|
| 1 | 2137.8 |
| 2 | 2070.6 |
| 3 | 2044.2 |
| 4 | 2034.6 |
| 5 | 2020.2 |
| 6 | 2015.4 |
| 7 | 2010.6 |
| 8 | 2008.2 |
| 9 | 2001.1 |
| 10 | 1996.2 |
| 11 | 1991.4 |
| 12 | 1989.1 |
| 13 | 1984.2 |
| 14 | 1981.8 |
| 15 | 1962.6 |
| 16 to 17 | 1957.8 |
| 18 to 19 | 1955.4 |
| 20 | 1953.1 |
| 21 | 1948.2 |
| 22 | 1945.8 |
| 23 | 1941.1 |

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| | |
|----------|--------|
| 24 | 1938.6 |
| 25 | 1931.4 |
| 26 | 1929.1 |
| 27 | 1926.6 |
| 28 | 1912.2 |
| 29 | 1909.8 |
| 30 | 1905.1 |
| 31 | 1897.8 |
| 32 | 1871.4 |
| 33 | 1864.2 |
| 34 | 1861.8 |
| 35 | 1859.4 |
| 36 | 1857.1 |
| 37 to 38 | 1854.6 |
| 39 | 1852.2 |
| 40 | 1842.6 |
| 41 | 1837.8 |
| 42 to 43 | 1833.1 |
| 44 | 1830.6 |
| 45 | 1821.1 |
| 46 | 1806.6 |
| 47 | 1801.8 |
| 48 | 1792.2 |
| 49 | 1780.2 |
| 50 to 52 | 1777.8 |
| 53 | 1775.4 |
| 54 to 55 | 1773.1 |
| 56 to 57 | 1770.6 |
| 58 | 1761.1 |
| 59 to 61 | 1758.6 |
| 62 to 63 | 1756.2 |
| 64 | 1753.8 |
| 65 | 1749.1 |
| 66 | 1744.2 |
| 67 to 69 | 1737.1 |
| 70 to 71 | 1722.6 |
| 72 | 1717.8 |
| 73 | 1715.4 |
| 74 | 1713.1 |
| 75 | 1710.6 |
| 76 to 78 | 1708.2 |
| 79 | 1705.8 |
| 80 | 1703.4 |
| 81 | 1698.2 |
| 82 | 1696.2 |
| 83 to 86 | 1693.8 |

VI. Permit Conditions

| | |
|-----------|--------|
| 87 to88 | 1691.4 |
| 89 to90 | 1689.1 |
| 91 | 1686.6 |
| 92 to94 | 1681.8 |
| 95 to96 | 1679.4 |
| 87 to99 | 1677.1 |
| 100 | 1674.6 |
| 101 to102 | 1672.2 |
| 103 to104 | 1669.8 |
| 105 to106 | 1665.1 |
| 107 to110 | 1660.2 |
| 111 | 1657.8 |
| 112 to116 | 1655.4 |
| 117 to119 | 1653.0 |
| 120 to121 | 1650.6 |
| 122 | 1642.2 |
| 123 to124 | 1645.8 |
| 125 to126 | 1643.4 |
| 127 to128 | 1641.1 |
| 129 to133 | 1638.6 |
| 134 to135 | 1636.2 |
| 136 to140 | 1633.8 |
| 141 to143 | 1631.4 |
| 144 to148 | 1629.1 |
| 149 to151 | 1626.6 |
| 152 to154 | 1621.8 |
| 155 to157 | 1619.4 |
| 158 to159 | 1617.1 |
| 160 to167 | 1612.2 |
| 168 to170 | 1609.8 |
| 171 to173 | 1607.4 |
| 174 to178 | 1602.6 |
| 179 to180 | 1600.2 |
| 181 | 1597.8 |
| 182 to186 | 1595.4 |
| 187 to188 | 1593.1 |
| 189 | 1590.6 |
| 190 | 1588.2 |
| 191 | 1585.8 |
| 192 to195 | 1583.4 |
| 196 to197 | 1581.1 |
| 198 to199 | 1578.6 |
| 200 to202 | 1576.2 |
| 203 to204 | 1573.8 |
| 205 to206 | 1571.4 |
| 207 to209 | 1569.1 |

VI. Permit Conditions

| | |
|-----------|--------|
| 210 to211 | 1566.6 |
| 212 to214 | 1564.2 |
| 215 to218 | 1561.8 |
| 219 to225 | 1559.4 |
| 226 to235 | 1557.1 |
| 236 to247 | 1554.6 |
| 248 to252 | 1552.2 |
| 253 to263 | 1549.8 |
| 264 to267 | 1547.4 |
| 268 to271 | 1545.1 |
| 272 to276 | 1542.6 |
| 277 | 1537.8 |
| 278 to280 | 1525.4 |
| 281 to83 | 1533.1 |
| 284 to288 | 1530.6 |
| 289 | 1525.8 |
| 290 to296 | 1523.4 |
| 297 to307 | 1521.1 |
| 308 to325 | 1513.8 |
| 326 to365 | 1506.6 |

TABLE VI.
 FACILITY BASELINE PROFILE -- CARBON MONOXIDE EMISSIONS (LB/DAY)

| No. of days | Pounds per day |
|-------------|----------------|
| 1 to 365 | 6904.0 |

TABLE VII.
 EMISSION FACTORS -- WHARF OPERATIONS

| Material | Loading Emission Factor, lb/1000 gal |
|---------------------------|--------------------------------------|
| Finished Gasolines | 1.4 |
| Light Gasoline Components | |
| Alkylate | 1.4 |
| HT C5/100 St Run | 1.4 |
| C5/240 Cat Crk | 1.4 |
| C5/180 Hydrocrackate | 1.4 |
| Dis Light Naphtha | 1.4 |
| Heavy Gasoline Components | |
| Reformate | 1.4 |
| 240/450 Cat Crk | 1.4 |
| Dist Heavy Naphtha | 1.4 |
| Cat Reformer Feed | 1.4 |

VI. Permit Conditions

| | |
|-----------------------------------|------|
| Shell Jet A | .05 |
| Shell Mineral Spirits | .05 |
| DSU Mineral Spirits | .05 |
| Shell 1300 Solvent | .05 |
| Crudes | |
| Alaskan North Slope | 1.7 |
| Labuan | 1.7 |
| Heavy S.J. Valley | .06 |
| Others | 1.7 |
| Heavy Feed Stocks | |
| Coker Heavy Gas Oil | .016 |
| Cat Cracker Feed | .005 |
| Vacuum Flashed Dist | .005 |
| Heavy Flashed Dist | .005 |
| Coker Feed | .016 |
| Fuel Oils | |
| Shell Dieseline | .005 |
| Marine Diesel | .005 |
| Shell Thin Fuel Oil 30 | .005 |
| Shell Thin Fuel Oil 40 | .005 |
| Shell Thin Fuel Oil 60 | .005 |
| Shell Thin Fuel Oil 80 | .005 |
| Shell Thin Fuel Oil 100 | .005 |
| Unfin Cracked Gas Oil | .002 |
| Shell Light Fuel Oil | .002 |
| Shell Steam Ship Fuel Oil | .002 |
| Shell Marine International Grade | .002 |
| Shell Industrial Fuel Oil | .002 |
| Shell Thin F.U. 120 | .002 |
| Shell Thin F.O. 150 | .002 |
| Shell Thin F.U. 180 | .002 |
| Shell Thin F.U. 240 | .002 |
| Shell Thin F.U.280 | .002 |
| Shell Thin F.O. 320 | .002 |
| Shell Thin F.O. 380 | .002 |
| Shell Thin F.O. MV 240/11.4 | .002 |
| Shell Thin F.O. MV 280/11.4 | .002 |
| Shell Thin F.O. MV 320/11.4 | .002 |
| Shell Thin F.O. MV 380/11.4 | .002 |
| Miscellaneous Cutter Stock | .002 |
| Shell Special Industrial Fuel Oil | .002 |
| Shell UMF Grade C | .002 |

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Shell Mect. Treating Aromatic Oil .002
 Shellflex 371 .002

Lube Oils

HVI 100 Neut TQ .00004
 HVI 250 Neut MQ .00004
 HVI 65/210 .00004
 HVI 150 Brt Stk .00004
 HVI 100 Neut MQ .00004
 LVI 60 Neut MQ .00004
 LVI 100 Neut MQ .00004
 100 Base Stk 80 UR .00004
 LVI 450 Neut .00004
 LVI 90/210 Neut .00004
 60 Spray Base .00004
 100 Spray Base 92 UR .00004
 MVI 400 Neut .00004
 MVI 80/210 Neut RQ .00004
 Diala A .00004
 Diala AX .00004
 35 Base Stock .00004

Asphalts

AR 2000 Asphalt .00004
 AR 4000 Asphalt .00004
 AR 8000 Asphalt .00004
 WOR Flux .00004
 80 Vis Blend Stock .00004

TABLE VIII.

SHIPPING COMBUSTION EMISSION FACTORS
 (lb/1000 gallon fuel)

| | Organic | SO2 | NOx | Part. |
|------------------------------------|---------|-------|--------|--------------------|
| | | 0.5% | 0.2% | 0.5% 0.2% |
| Steamships | | | | |
| Hoteling | 3.10 | 79.77 | 319.08 | 20.90 7.03 18.99 |
| Other | 3.10 | 79.77 | 319.08 | 48.21 7.03 18.99 |
| Internal Combustion Engines | | | | |
| Residual | 32.80 | 78.78 | 315.11 | 339.60 35.00 35.00 |
| Marine Diesel | 32.80 | 70.69 | | 367.00 20.00 |
| Diesel (Tugs) | 12.99 | 38.97 | | 571.22 24.98 |

SHIPPING FUEL COMBUSTION RATES (gal/hr)

VI. Permit Conditions

| Ship Size | Fuel | Maneuvering | Hoteling | Cargo Discharge Rates (1000 bbl/hr) | | | | |
|-------------------|----------|-------------|----------|-------------------------------------|-----|-----|------|-----------|
| | | | | 3 | 7.5 | 11 | 20 | 50 |
| Steamships | | | | | | | | |
| 30 MDWEIGHT | | Residual | 304 | 39 | 147 | 294 | | |
| 45 MDWEIGHT | | Residual | 417 | 47 | 184 | | 504 | |
| 60 MDWEIGHT | | Residual | 567 | 76 | | | 631 | |
| 70 MDWEIGHT | | Residual | 666 | 93 | | | 650 | |
| 200 | Residual | 1057 | 143 | | | | 1000 | 1188 1656 |
| Motorships | | | | | | | | |
| 30 MDWEIGHT | | Residual | | 84 | 147 | 294 | | |
| | Diesel | 420 | 42 | 42 | 42 | | | |
| 70 MDWEIGHT | | Residual | | 84 | | | 650 | |
| | Diesel | 420 | 42 | | 42 | | | |
| 150 | Residual | | 84 | | | | 759 | 898 |
| | Diesel | 588 | 42 | | | | 42 | 42 |
| 120/135 | Residual | | 84 | | | | 759 | 898 |
| | Diesel | 588 | 42 | | | | 42 | 42 |
| Tugs | | | | | | | | |
| | Diesel | 30 | | | | | | |

TABLE IX.

Emission Factors -- Combustion
 (lb/MMBTU; * = lb/MMSCF; and ** = lb/bbl)

| | HC | PART | NOx | CO | SOx |
|-----------------------------------|--------|--------|-----|-------|-------------------|
| CO BOILERS | | | | | |
| Natural Gas | .0162 | .015 | .7 | .0039 | .0006 |
| Refinery Gas | .0162 | .02 | .7 | .0039 | S(.171)* (Note 1) |
| Residual Fuel | .042** | .55** | .7 | .0040 | S(7.2)** (Note 2) |
| LSFO | .042** | .084** | .7 | .0040 | S(6.3)** (Note 3) |
| Flexigas | .00162 | .005 | .05 | .0039 | S(.177)* (Note 4) |
| ALL OTHER HEATERS (Note 5) | | | | | |
| Natural Gas | .0162 | .015 | .2 | .0039 | .0006 |
| Refinery Gas | .0162 | .02 | .2 | .0039 | S(.171)* (Note 1) |
| Residual Fuel | .042** | .55** | .82 | .0040 | S(7.2)** (Note 2) |
| LSFO | .042** | .084** | .23 | .0040 | S(6.3)** (Note 3) |
| Flexigas | .00162 | .005 | .05 | .0039 | S(.177)* (Note 4) |

Notes:

(1) S = sulfur content of Refinery Gas in ppm (60 in base case)

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- (2) S = sulfur content of fuel oil in weight% (1.0 in base case)
- (3) S = sulfur content of LSFO in weight%
- (4) S = sulfur content of FXG in ppm
- (5) For sources S1486, S1487, S1488, S1490 through S1500, S1502, S1503, S1504, S1505, S1515, S1761 and S1763, The owner/operator shall use NOx CEM data to calculate NOx emissions. If CEM data is not available, see Condition B.3.a.. (added 2/98, App. No. 18131, amended 2/02, AN 1362)

Condition # 7761

For A101 – Flare for Vine Hill Vapor Recovery System
A102 – Flare for Crude String Vapor Recovery System
A103 – Flare for Interim Gasoline Vapor Recovery System

For A103:

1. The flare (A103) shall only be operated when the Vapor Recovery Unit (VRU), A26, is down for routine maintenance or there is an unexpected upset in the operation of the VRU that causes the VRU to be taken out of service. The operator shall take immediate action to correct the problem in the case of an unexpected upset and the flare shall be placed in use as soon as feasible to reduce emissions. [basis: Regulation 8-5-301.]
2. The owner/operator shall maintain records to verify compliance with Condition 1. These records shall be maintained for a period of at least five years and be made available to the District for inspection upon request. [basis: Regulation 8-5-301.]
3. A pilot indicator shall be installed to determine the status of the flare. [basis: Regulation 8-5-301.]
4. The flare system shall be equipped with a flare failure alarm system. [basis: Regulation 8-5-301.]
5. The tanks abated by this flare are subject to the applicable conditions for the tank(s) in Condition # 7618, Section D. [basis: Cumulative Increase]

For A101:

6. The flare (A101) shall only be operated when the Vapor Recovery Unit (VRU), A25, is down for routine maintenance or there is an unexpected upset in the operation of the VRU that causes the VRU to be taken out of service. The operator shall take immediate action to correct the problem in the case of an unexpected upset and the flare shall be placed in use as soon as feasible to reduce emissions. [basis: Regulation 8-5-301.]
7. The owner/operator shall maintain records to verify compliance with Condition 6. These records shall be maintained for a period of at least five years and be made available to the District for inspection upon request. [basis: Regulation 8-5-301.]

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8. A pilot indicator shall be installed to determine the status of the flare. [basis: Regulation 8-5-301.]
9. The flare system shall be equipped with a flare failure alarm system. [basis: Regulation 8-5-301.]
10. The tanks abated by this flare are subject to the applicable conditions for the tank(s) in Condition # 7618, Section D. [basis: Cumulative Increase]

For A102:

11. The flare (A102) shall only be operated when the Vapor Recovery Unit (VRU), A56, is down for routine maintenance or there is an unexpected upset in the operation of the VRU that causes the VRU to be taken out of service. The operator shall take immediate action to correct the problem in the case of an unexpected upset and the flare shall be placed in use as soon as feasible to reduce emissions. [basis: Regulation 8-5-301.]
12. The owner/operator shall maintain records to verify compliance with Condition 11. These records shall be maintained for a period of at least five years and be made available to the District for inspection upon request. [basis: Regulation 8-5-301.]
13. A pilot indicator shall be installed to determine the status of the flare. [basis: Regulation 8-5-301.]
14. The flare system shall be equipped with a flare failure alarm system. [basis: Regulation 8-5-301.]
15. The tanks abated by this flare are subject to the applicable conditions for the tank(s) in Condition # 7618, Section D. [basis: Cumulative Increase]

Condition # 7878:

For Gasoline Dispensing Facility #7114 (S1598)

1. Pursuant to BAAQMD Toxic Section policy, this facility's annual throughput shall not exceed 600,000 gallons in any consecutive 12 month period.

Formatted: Bullets and Numbering

Condition # 8502

For S12490, LOG Tank 12519 Wastewater ETP 1&2
S12491, LOG Tank 12520 Wastewater ETP 1&2:

1. The wastewater storage tank shall be equipped and operated with a level-indicating

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device to aid the operator in minimizing tank roof movement. [basis: Cumulative Increase]

2. Condition deleted.
3. Condition deleted.

Condition # 10275
For S1116, Tank 1116 Fresh Acid

1. This tank shall not be used to store sulfuric acid with an acid strength greater than 100% by weight. [basis: Cumulative Increase]

Condition # 11313
For S5115, LOG Dissolved Nitrogen Flotation Unit North ETP 2 (DNF)
S5116, LOG Dissolved Nitrogen Flotation Unit South ETP 2 (DNF)

For S5115 and S5116:

1. Condition deleted.
2. Condition deleted.
3. Condition deleted.

For S5115, S5116:

The following conditions are applicable when emissions must be vented from the sources:

1. Emissions from S5115, S5116 shall be vented to at least two carbon vessels arranged in series. [basis: Regulation 8-8-307]
2. The second to last carbon bed, A5115, shall be changed out with unspent carbon upon the detection of 1000 ppmv as C1 to the last carbon bed as measured with a flame ionization detector (OVA-FID), Gas Tech, or other method approved in writing by the APCO. [basis: Regulation 8-8-307]
3. The last carbon bed, A5116, shall be changed out with unspent carbon upon the detection of 500 ppmv as C1 from the last carbon bed as measured with a flame ionization detector (OVA-FID), Gas Tech, or other method approved in writing by the APCO. [basis: Regulation 8-8-307]
4. The limits set forth in Condition # 5 and 6 shall apply to non-methane hydrocarbon

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emissions. To determine the presence of methane in the exhaust stream, a reading shall be taken with and without a carbon filter tip fitted on the probe. Concentrations measured with the carbon filter tip in place shall be considered methane for the purpose of these permit conditions. [basis: Regulation 8-8-307]

5. The operator of this source shall monitor with an OVA-FID, or other method approved in writing by the APCO at the following locations:
 - a. At the exhaust of second to last carbon vessel.
 - b. At the exhaust of the last carbon vessel.[basis: Regulation 8-8-504]
6. These monitor readings shall be recorded in a monitoring log at the time they are taken. The monitoring results shall be used to:
 - a. Estimate the frequency of carbon change out necessary to maintain compliance with condition number 2.
 - b. To maintain compliance with condition number 5 the monitoring shall be conducted on a daily basis for the first five days after the initial installation and commissioning of carbon vessels and monthly afterwards. The operator of this source may propose for District review, based on actual measurements taken at the site during operation of the source, that the monitoring schedule be changed based on the decline in organic emissions and/or the demonstrated breakthrough rates of the carbon vessels. Written approval by the District must be received by the applicant prior to a change to the monitoring schedule.[basis: Regulation 8-8-307]
7. The operator of this source shall maintain the following information in a District approved log for each month of operation of the source:
 - a. The dates when venting through the carbon vessels occurs.
 - b. Each monitor reading or analysis result for the day of operation they are taken.
 - c. The date any carbon vessel is changed out.[basis: Regulation 8-8-307]
8. The operator shall maintain a file containing all measurements, records and other data that are required to be collected pursuant to the various provisions of this conditional Authority to Construct/Permit to Operate. All measurements, records and data required to be maintained by the applicant shall be retained for at least five years following the date the data is recorded. [basis: Regulation 8-8-307]

Condition # 11504

For S5112, LOG V-15112 Main Proto Vessel with Nitrogen Blanket

S5113, LOG V-15113 Main Proto Vessel with Nitrogen Blanket

S5114, LOG V-15114 Main Proto Vessel with Nitrogen Blanket:

Facility Name: Shell Martinez Refinery, Shell Oil Products US
Permit for Facility #: A0011

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1. Sources S5112, 5113 and 5114 shall be controlled by a nitrogen blanket, and these sources shall be vented to A26, Vapor Recovery System #1, at all time of operation. [basis: Cumulative Increase, Regulation 8-5.]

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Condition # 11806

For S3000, Portable Vacuum Distillation Unit (CCR Technologies Inc.):

1. No more than one unit may operate at the facility at any one time. The combined operating time for all units shall not exceed 8 weeks in any 12 month period. (basis: cumulative increase)
2. All liquid transfers to and from the distillation unit, including waste, shall be made via hard-piped connections. (basis: cumulative increase)
3. All non-condensable gases from the condenser vent shall be combusted in the heater burner. (basis: cumulative increase)
4. Only lean amine solution shall be distilled. (basis: cumulative increase)
5. Prior to distilling the lean amine solution, NaOH or other caustic shall be mixed with the amine solution to neutralize acid gases and react with residual H₂S to form a salt. (basis: cumulative increase)
6. This distillation unit shall be fired exclusively with natural gas. (basis: cumulative increase)
7. The owner/operator shall keep a District approved log of the operating time of S3000. This log shall be made available for District inspection and maintained for a minimum of 5 years from the date of entry. (basis: cumulative increase)

Condition # 11850

For S544, Tank 544:

1. The steam coils shall not be used when the tank is storing material with an API gravity greater than 20. The owner/operator shall keep sufficient records to demonstrate compliance with this condition. These records shall be retained for five years from the date of entry and shall be made available to the District upon request. [basis: Cumulative Increase]

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Condition # 11951
For S540, Tank 540:

1. Total throughput of S540 shall not exceed 340 million gallons in any consecutive twelve-month period. The owner/operator shall keep monthly throughput records for Tank 540 in a log. These records shall be retained for at least five years from the date of entry, and shall be made available to the District upon request. [basis: Cumulative Increase]
2. Condition deleted.
3. On Tank 540 (S540), there shall be no ungasketed roof fittings. Except for roof legs, each roof fitting shall be of the design that yields the minimum roof fitting losses, per EPA Compilation of Air Pollution Emission Factors, AP-42, Supplement E, Section 12.3.2, Table 12.3-11. The following list indicates the type of control required for a variety of typical roof fittings. Control techniques for roof fittings not included in this list shall be subject to District approval, prior to installing the roof on the tank.

| Fitting Type | Control Technique |
|-------------------------|---|
| Access hatch | Bolted cover, gasketed |
| Guide pole/Well | Unslotted guide pole, gasketed sliding cover (See Note 1 below) |
| Gauge float well | Bolted cover, gasketed |
| Gauge hatch/Sample well | Weighted mechanical actuation, gasketed |
| Vacuum breaker | Weighted mechanical actuation, gasketed |
| Roof drain | Roof drain does not drain water into product |
| Roof leg | Adjustable, with vapor seal boot |
| Rim vent | Weighted mechanical actuation, gasketed |

Note 1: Tank 540 does not have a guide pole/gauge well.
[basis: BACT/TBACT]

Condition # 12174
For S545, Tank 545:

1. The steam coils shall not be used when the tank is with storing material with an API gravity greater than 20. The owner/operator shall keep sufficient records to demonstrate to compliance with this condition. These records shall be retained for five years from the date of entry and shall be made available to the District upon request. [basis: Cumulative Increase]

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Condition # 12190

For S1117, Tank 1117 Skim:

1. Throughput to S1117 shall not exceed 10,000 barrels per year. Beginning with issuance of this Permit to Operate, the owner/operator shall keep quarterly throughput records to demonstrate compliance with this condition. These records shall be retained for five years from the date of entry and shall be made available to the District upon request.
[basis: Cumulative Increase]

Condition # 12271

For ~~S13, Tank 3~~

S1129, Tank 1129
S1130, Tank 1130
S1131, Tank 1131
S1507, UTIL CO Boiler 1
S1509, UTIL CO BOILER 2
S1512, UTIL CO Boiler 3
S4001, DC Delayed Coking Unit (DCU)
S4002, DC -F-13425-A DCU
S4003, DC F-13425-B DCU
S4005, DC Coke Handling Facility
S4020, DC Distillate Hydrotreater (DHT)
S4021, DC F-13909 DHT Recycle
S4031, DC F-14012 HGHT Reboil
S4050, DC Catalytic Gas Depentanizer (CGDP)
S4080, DC Isomerization Unit (ISOM)
S4140, DC Heavy Cracked Gasoline Hydrotreater (HGHT)
S4141, DC F-14011 HGHT Feed
S4160, DC Hydrogen Plant -3 (HP3)
S4161, DC H-101 HP3 Steam Methane Reformer
S4180, OPCEN Sulfur Plant 4 (SRU4)
S4190, UTIL Boiler 6 Gas Turbine 1
S4191, UTIL Boiler 6 Supplemental Steam Generator 1
S4192, UTIL Boiler 6 Gas Turbine 2
S4193, UTIL Boiler 6 Supplemental Steam Generator 2
S4201, DC Clean Fuels Flare
S4210, Cooling Water Tower (CWT-13278)
S4211, DC V-13222 ISOM Maintenance Drop Out Vessel
S4212, DC V-13441 ISOM Maintenance Drop Out Vessel
S4307, Tank 14687 MDEA Make-up S4309, Tank 14687 DEA
S4310, Tank 13285 Sour Water
S4311, DC V-12555 ISOM Perchloroethylene Vessel
S4319, Tank 15096 Recovered Oil
S4322, Tank 14571 Sour Water
S4329, Tank 13260 Pentane

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S4330, Tank 13261 Pentane
S4334, Tank 13276 Alkylate
S4338, LOG Pentane Loading Facility
S4347, OPCEN Pit for Sulfur Plant 4
S4349, Tank13262 Pentane
S4350, LOG Tank13187 Process Wastewater
S4356, LOG Tank13188 Process Wastewater

REVISED CLEAN FUELS PROJECT PERMIT CONDITIONS

(Amended March 28, June 2, August 15, 1995 and Sept. 11, 1995; July 28, 1998; obsolete start-up conditions deleted 7/10/01)

Unless specified otherwise, the following permit conditions apply only to sources installed or modified as part of the Clean Fuels Project (CFP).

GENERAL PERMIT CONDITIONS

Monthly and Annual Emission Limits

- A. Emissions from the Clean Fuels Project sources described in Condition B shall not exceed the limits indicated in Table A.1 below, for any consecutive twelve-month period. Table A.2 provides monthly trigger levels for CFP sources indicated in Condition B. If monthly emissions exceed a trigger level, the owner/operator shall include a Compliance Plan in the next monthly report for that pollutant. The Compliance Plan shall indicate the necessary action to avoid exceeding the annual limit for the pollutant(s) in question.

Table A.1

| 12-Month Emission Limits | |
|--------------------------|-----------|
| NOx | 199.4 TPY |
| CO | 252.4 TPY |
| SO2 | 139.7 TPY |
| PM/PM10 | 59.1 TPY |
| POC | 132.0 TPY |

Table A.2

| Monthly Trigger Levels | |
|------------------------|--------------|
| NOx | 20.8 Ton/Mo. |
| CO | 26.3 Ton/Mo. |
| SO2 | 14.6 Ton/Mo. |
| PM/PM10 | 6.2 Ton/Mo. |
| POC | 13.7 Ton/Mo. |

Emissions shall be calculated in accordance with the emission calculation procedures used in this permit application, and summarized in Appendix B, including subsequent revisions. Where CEM data is available (S4002, 4003, 4021, 4031, 4141, 4161, 4190, 4191, 4192, 4193, and A4180 and 4181) emission calculations shall be based upon the CEM data. [Tables A1 and A2 revised per Application No.'s 14577 (3/95) and 25078 (8/95) and 18185 (7/98).] [basis: offsets, cumulative increase]

- B. The emission totals in Condition A include emissions from the sources in Tables B.1 through B.4 below, and emissions from process upset conditions (in accordance with Condition C) from sources in Tables B.1 through B.6. The emission limits in

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Condition A do not include routine fugitive emissions. [basis: offsets, cumulative increase]

Table B.1 - Combustion Sources

| | |
|-------|--|
| S4002 | DC F-13425-A DCU |
| S4003 | DC F-13425-B DCU- |
| S4004 | (Deleted; AN 14577) |
| S4021 | DC F-13909 DHT Recycle |
| S4022 | (Deleted; AN 14577) |
| S4031 | DC F-14012 HGHT Reboil |
| S4141 | DC F-14011 HGHT Feed |
| S4161 | DC H-101 HP3 Steam Methane Reformer |
| S4190 | UTIL Boiler 6 Gas Turbine 1 |
| S4191 | UTIL Boiler 6 Supplemental Steam Generator 1 |
| S4192 | UTIL Boiler 6 Gas Turbine 2 |
| S4193 | UTIL Boiler 6 Supplemental Steam Generator 2 |

Table B.2 - Tankage

| | |
|----------------|-----------------------------------|
| S13 | Tank 13 |
| S1129 | Tank 1129 |
| S1130 | Tank 1130 |
| S1131 | Tank 1131 |
| S4307 | Tank 14687 MDEA Make-up |
| S4309 | Tank 14517 DEA S4310 |
| | Tank 13285 Sour Water |
| S4319 | Tank 15096 Recovered Oil |
| S4322 | Tank 14571 Sour Water |
| S4334 | Tank 13276 Alkylate |
| S4350 | LOG Tank 13187 Process Wastewater |
| S4356 | LOG Tank 13188 Process Wastewater |

Table B.3 - SRU No.4

| | |
|-------|---|
| A4180 | SCOT No. 4 |
| A4181 | Thermal Oxidizer for Sulfur Plant 4S-S4347 OPCEN Pit for Sulfur Plant 4 |

Table B.4 - Miscellaneous (Included Emissions)

| | |
|---------|---------------------------------|
| S-S4210 | Cooling Water Tower (CWT-13278) |
| S-S4338 | LOG Pentane Loading Facility |

Table B.5 - Miscellaneous (Excluded Emissions)

| | |
|---------|---|
| S-S4005 | DCCoke Handling Facility |
| S-S4201 | DC Clean Fuels Flare |
| S-S4211 | DC V-13222 ISOM Maintenance Drop Out Vessel |
| S-S4212 | DC V-13441 ISOM Maintenance Drop Out Vessel |

Table B.6 - Process Units (Fugitives)

| | |
|---------|--|
| S-S4001 | DC Delayed Coking Unit (DCU) |
| S-S4020 | DC Distillate Hydrotreater (DHT) |
| S-S4050 | DC Catalytic Gas Depentanizer (CGDP) |
| S-S4080 | DC Isomerization Unit (ISOM) |
| S-S4140 | DC Heavy Cracked Gasoline Hydrotreater (HGHT)g |
| S-S4160 | DC Hydrogen Plant – 3 (HP3) |
| S-S4180 | OPCEN Sulfur Plant – 4 (SRU4) |

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- C. In the case of a process upset or other irregularity for which variance or breakdown relief is denied, the owner/operator shall calculate emissions and include those emissions in the monthly and annual emission totals, for determining compliance with Condition A. In the case of a process upset or other irregularity for which variance or breakdown relief is granted, the owner/operator is not required to include excess emissions in the monthly and annual emission totals, for determining compliance with Condition A. This part (part C) of this condition is not federally enforceable. [basis: offsets, cumulative increase]

Source Tests / Continuous Emission Monitors

For any source test or continuous emission monitor/recorder (CEM) required by any permit condition associated with the Clean Fuels Project (CFP), the following shall apply:

- D. For the purposes of determining compliance with any of the emission limits in these CFP permit conditions (including emission limits with averaging times that exceed the typical source test duration), the applicable source test methods in the District's Manual of Procedures shall be sufficient for documenting compliance and non-compliance. All source testing and monitoring shall be done in accordance with the District Manual of Procedures. Written source testing protocol shall be submitted to the District Source Test Section for review and approval at least 30 days prior to conducting the source test. [basis: Manual of Procedures, Volume IV]
- E. The District Source Test Section shall be notified in writing of the date and time of any source test, at least 2 weeks prior to conducting the source test. [basis: Manual of Procedures, Volume IV]
- F. Start-up condition deleted.
- G. Written source test results shall be submitted to the District Source Test Section and the District permit engineer within 60 days of completion of the source test, unless an extension is approved by the District. In all cases, written source test results must be received by the District within 150 days of startup. [basis: Manual of Procedures, Volume IV]
- H. Start-up condition deleted.
- I. Start-up condition deleted.
- J. Each CEM shall be installed, maintained, calibrated and operated in accordance with all applicable District regulations. The owner/operator shall use a computer to record, store, and report a summary of the CEM data for the monthly report. For any CEM that is used to verify compliance with a concentration limit that is averaged over a specified time period, a computer shall calculate average concentrations. These average concentrations shall be summarized in the monthly report. [basis:

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cumulative emissions, offsets]

- K. CEM data shall be used for compliance verification. As such, CEM data may be used by the District Enforcement Division to document a violation of District regulations or permit conditions. [basis: BACT, offsets]

Record Keeping & Monthly Reporting

- L. The owner/operator shall keep records of all necessary information to demonstrate compliance with all permit conditions associated with the Clean Fuels Project. All records shall be retained for at least five years from the date of entry, and shall be made available to the District upon request. This includes, but is not limited to, records of source test data, CEM data, fuel usage, emission calculations, fugitive component counts, product shipments, coke production, sulfur production, and rail emissions. The owner/operator shall also keep all records required by NSPS. [basis: BACT, offsets, cumulative increase]
- M. Upon startup of the first process unit associated with the CFP, the owner/operator shall submit monthly reports of all information deemed necessary by the District permit engineer to determine compliance with all permit conditions required for this project. The format of the monthly reports shall be subject to approval by the District permit engineer 60 days prior to startup, and shall include (but is not limited to) the information listed below. Changes to the original format shall be subject to approval by both the owner/operator and the District permit engineer.

Fuel usage type and amount, for:

- Cogeneration plant;
- Hydrogen plant SMR furnace;
- Furnaces > 50 MM BTU/hr; and
- Furnaces < 50 MM BTU/hr.

Combustion emissions per source, or per group of sources with same emission factors;

CEM data and emission calculations;

CEM indicated excesses;

Fuel gas H₂S and TRS concentrations;

PSA gas H₂S concentrations;

SRU No.4 SO₂ emissions and sulfur production rates;

Product rail shipment emissions for coke and pentane;

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Storage tank emissions;

Emission calculations from flaring event: the owner/operator is not required to specifically measure flow to the flares, but must use knowledge of process depressurization rates and duration of venting to calculate emissions;

Pressure relief valve ventings and emissions;

Breakdown requests and associated BAAQMD ID #'s.
[basis: offsets, cumulative increase]

Miscellaneous

- N. Any process vessel depressurization shall be vented to a control device with an overall capture and destruction efficiency of 95%, on a mass basis. [basis: BACT]
- O. Offsets for this project will be required as specified by permit conditions below. If after completion of the Clean Fuels Project a source was not constructed, the project emissions will be adjusted and offsets (including the appropriate offset ratio) that were provided for the source, including fugitive components, will be returned. [basis: offsets]

FUGITIVES

Conditions 1 through 14 for fugitive emissions apply only to POC gaseous, light liquid, and toxic services.

- 1. Any new pump in light liquid or toxic service installed, modified or replaced as part of the Clean Fuels Project (CFP) shall be:
 - a. equipped with dual mechanical seals, having a heavy liquid barrier fluid. The barrier 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; or
 - b. a "canned" pump or magnetically driven pump; or any other sealless pump technology approved by the District. [basis: BACT]
- 2. Condition deleted.
- 3. For the purpose of these permit conditions, light liquid service shall be defined as a hydrocarbon liquid having an initial boiling point of 302oF or less. Toxic service shall be defined as hydrocarbon service with greater than 1% benzene or 0.1% 1,3 butadiene, on a mass basis. [basis: BACT]
- 4. Except for flow control valves and quarter turn valves, all valves that are installed, modified or replaced as part of the CFP, in gaseous hydrocarbon service, light liquid hydrocarbon service or toxic service, on 2" lines and smaller, shall be bellows valves

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or other "leakless" valve technology, as approved by the District, when commercially available. Except as indicated below, no more than 2% of the 2" and smaller valves may be quarter turn valves. S4002 & 4003, Delayed Coker Unit Furnaces (F-13425 A and B), may contain up to 156 2" and smaller quarter-turn valves. S4161, DC H-101 HP3 Steam Methane Reformer, may contain up to 140 2" and smaller quarter-turn valves. Quarter turn valves shall use graphitic or teflon packing material, or equivalent, as approved by the District. (revised per App. No. 15000, 6/28/95) [basis: BACT]

5. Except as provided by Conditions 4 and 6, all other valves in POC gas, light liquid and toxic services installed, modified or replaced as part of the CFP shall be bellows sealed, live loaded, graphitic packed, teflon packed, or equivalent, as approved by the District. [basis: BACT]
6. All flow control valves installed, modified, or replaced as part of the Clean Fuels Project, shall be equipped with live load packing systems and polished stems, or equivalent as approved by the District. [basis: BACT]
7. [Condition is deleted because it is redundant to Regulation 8-18-302 and 8-18-401]
8. [Condition is deleted because it is redundant to Regulation 8-18-404]
9. All flanges installed or opened in piping systems as a result of the CFP shall be equipped with graphitic-based gaskets, Teflon gaskets, or equivalent as approved by the District. [basis: BACT][Part of condition is deleted because it is redundant to Regulation 8-18-304]
10. All new centrifugal compressors installed, modified or replaced as part of the CFP shall be equipped with "wet" dual mechanical seals with a heavy liquid barrier fluid, or dual dry gas mechanical seals buffered with inert gas. The barrier fluid pressure pot or inert gas system shall be vented to a control device with a 95% efficiency. All reciprocating compressors installed, modified or replaced as part of the CFP shall be vented to a 95% efficient control device. [basis: BACT][Part of condition is deleted because it is redundant to Regulation 8-18-303, Regulation 8-18-401 and NSPS 40CFR60 Subpart GGG]
11. Total fugitive emissions from all equipment installed as a result of the Clean Fuels Project are 193.5 tpy precursor organic compounds and 14.7 tpy non-precursor organic compounds. The owner/operator shall submit a count of compressors, pumps, valves, and flanges within 30 days of start-up of each unit. If there is an increase in total emissions, the facility's cumulative emissions shall be adjusted to reflect the difference between emissions based on predicted versus actual component counts. The owner/operator shall provide to the District any required offsets, at the offset ratio triggered at the time of permit issuance, but not less than 1.2:1.0, for any adjusted cumulative increase in emissions. Additional offsets shall be provided within 60 days. Fugitive emissions shall be calculated using the fugitive

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emission factors identified in the fugitive emission calculations in Appendix B of the Engineering Evaluation Report for Application Number 8407. [basis: offsets]

12. No pressure relief valve in any new unit installed as part of the Clean Fuels Project in gaseous POC, light liquid, or toxic service shall vent to atmosphere. All such relief valves shall be vented to the DC Clean Fuels Flare gas recovery system (S4201), or an equivalent control device approved by the District. This condition does not apply to pressure relief valves on storage tanks or pressure relief valves that handle only low vapor pressure material (<0.05 psia). If the District revises Regulation 8, Rule 28, Pressure Relief Valves at Petroleum Refineries and Chemical Plants, to increase the low vapor pressure exemption in section 8-28-111, then the vapor pressure exemption in this condition may be adjusted accordingly, not to exceed 0.5 psia. [basis: BACT]
13. All process sample systems shall be the closed loop or continuous flow design. In no event shall there be any line purging to process drains. [basis: BACT]
14. All process drains installed, modified or replaced as part of the Clean Fuels Project shall be fitted with a "P" trap sealing system that prevents POC emissions from the process wastewater system from escaping through the drain. [basis: BACT]

FUEL GAS SYSTEM

15. The refinery fuel gas burned in any Clean Fuels Project (CFP) combustion source and the existing CO Boilers (S1507, 1509 and 1512) shall be limited to all of the following:
 - a. 50 ppmv H₂S averaged over any consecutive 24-hour period;
 - b. 0.1 grain/dscf (~~463~~ 162 ppm) H₂S averaged over 3 hours (per NSPS 40 CFR 60 subpart J); and
 - c. 70 ppm total reduced sulfur (hydrogen sulfide, methyl mercaptan, carbon disulfide, dimethyl sulfide, dimethyl disulfide, and carbonyl sulfide), expressed as H₂S equivalent, averaged over any consecutive 12-month period. (TRS limit amended 7/98, AN 18185) [basis: BACT]
16. MRC shall install a continuous gaseous fuel monitor/recorder to determine the H₂S content of the refinery fuel gas prior to combustion in any of the CFP combustion sources. MRC shall also install a continuous monitor/recorder, or equivalent as approved by the District, to measure total reduced sulfur compounds in the refinery fuel gas, expressed as H₂S equivalent. [basis: BACT]
- 16A. To verify compliance with the H₂S and TRS limits of Condition No. 15 for the CO Boilers (S1507, 1509 and 1512), MRC shall install a natural gas line connection upstream of the CO Boilers in order to combine natural gas with the refinery fuel gas. MRC shall also operate a fuel flow ratio control system, consisting of fuel flow meters, a ratio detector, and a ratio controller, as described in permit application

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number 18185. This ratio controller set point shall be the same natural gas to refinery fuel gas ratio as occurs in the fuel supply system for the Clean Fuels Project combustion sources. Compliance with the H2S and TRS limits for the CO Boilers will be inferred by directly measuring the H2S and TRS contents of the refinery fuel gas supply for the Clean Fuels Project combustion sources. The flow meters, ratio detector and ratio controller shall be maintained and calibrated according to manufacturer specifications. (Added 7/98 per AN 18185) [basis: offsets]

17. The owner/operator shall calculate and record the: (1) 3-hour H2S content; (2) 24-hour rolling average H2S content; and (3) TRS content of the refinery fuel gas, for determining compliance with Condition No. 15, based on the previous 24 individual hourly averages. On a monthly basis, the owner/operator shall report daily fuel consumption and the 3-hour average, 24-hour average, and maximum daily H2S content of the refinery fuel gas, for combustion sources associated with the CFP. The owner/operator shall also report the daily, monthly, and 12-month average TRS concentrations in the refinery fuel gas. [basis: cumulative emissions]

COMBUSTION SOURCES

General Combustion

The following are general requirement for all new or modified combustion sources associated with the Clean Fuels Project (CFP):

18. All combustion sources installed, modified or replaced as part of the CFP shall fire natural gas, refinery fuel gas, pressure swing absorber (PSA) gas, ultra low sulfur distillate (ULSD), liquified petroleum gases, or flexigas. In no case shall any combustion source, except for S4002 and S4003 burn any combination of fuels with: (1) an H2S concentration exceeding 50 ppm, 24 hour average; [basis: BACT] or (2) a total reduced sulfur content exceeding 70 ppm, annual average. [basis: offsets, cumulative increase]
- 18.a. Sources S4002 and S4003 shall fire natural gas, refinery fuel gas, pressure swing absorber (PSA) gas, ultra low distillate (ULSD), liquefied petroleum gases, or flexigas. In no case shall source S4002 or S4003 burn any combination of fuels with: (1) and H2S concentration exceeding 50 ppm, 24 hour average; or (2) a total reduced sulfur content exceeding 100 ppm, annual average. [basis: BACT, cumulative increase]
19. For the purposes of these conditions ULSD is defined as a gaseous hydrocarbon mixture composed of C6 and lighter components, produced by the Straight Run Hydrotreater, Saturated Gas Plant, Cracked Gasoline Depentanizer, and Alky Depentanizer. [basis: offsets, cumulative increase]
20. Every combustion source (or group of sources with the same emission factors) installed, modified or replaced as part of the CFP shall be equipped with a

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continuous fuel flow monitor in order to determine fuel consumption. Fuel rates shall be recorded by a process computer or recorder. This condition does not apply to flare pilots that are fueled with natural gas at a constant rate. [basis: offsets, cumulative increase]

21. The owner/operator shall calculate and record emissions from all combustion sources (or group of sources with the same emission factors) on a monthly basis, and include those emissions in the monthly reports in accordance with conditions L and M. [basis: offsets, cumulative increase]
22. For purposes of this permit, unless otherwise specified in a permit condition, startup and shutdown of combustion sources are limited to a maximum of 8 hours in duration for non-SCR controlled combustion sources, or 24 hours in duration for SCR controlled combustion sources.
 - a. Upon approval by the District, the startup or shutdown period may be extended to a period not to exceed 72 hours for the following situations:
 1. the startup or shutdown has been proceeding continuously, and the owner/operator has been increasing or decreasing temperatures at a rate limited by metallurgy or other physical constraints prescribed in their startup/shutdown procedure.
 2. startup following installation or replacement of refractory lining.
 3. startup following initial catalyst pre-sulfiding following catalyst replacement or catalyst regeneration.
 - b. For the Cogeneration Units (Sources S4190 through 4193), the startup period following initial construction also includes a commissioning period, consisting of an initial gas turbine roll, steam blowing, and turbine/generator synchronization. Natural gas is the only fuel to be used during commissioning. Emissions of NO_x, SO₂, CO, POC and PM₁₀ that result during commissioning shall be included in facility's monthly report and in the emission totals in Condition A. (Cond. 22.b. added 9/11/95 per AN 25728). [basis: BACT]
23. The firing rates for all combustion sources indicated in these permit conditions are on a higher heating value (HHV) basis. [basis: cumulative emissions]

Cogeneration Plant (S4190, 4191, 4192, and 4193)

Conditions 24a, 24b, 28b, 28c and 28d are requested by the California Energy Commissions, pursuant to CEC approval of the Small Power Plant Exemption for these sources.

- 24a. The cogeneration power plant (S4190, 4191, 4192, and 4193) shall not use fuels other than natural gas, commercial grade propane, commercial grade butane, refinery fuel gas (RFG), flexigas (FXG), and ultra low sulfur distillate (ULSD). The owner/operator shall install a CEM (continuous emission monitor) for SO₂ before the CO catalyst for the gas turbine and HRG boiler pairs. [basis: offsets, cumulative increase]

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- 24b. During any calendar day, emissions from the cogeneration plant (S4190, 4191, 4192, and 4193) shall not exceed the daily limits indicated in the table below. This condition does not apply to days with startup or shutdown conditions, as defined by Condition 22.

Daily Emission Limits for the Facility Cogeneration Power Plant

| Daily Limit Pollutant | (lb/day) |
|--------------------------|--|
| NOx | 610.0 |
| POC | 500.0 |
| SO2 | 458.0 |
| PM10 | 365 + [(610 - NOx actual)/1.9] + [(458 - SOx actual)/2.5] lb/day (where NOx and SO2 actual are in lb/day) |

Compliance with the daily emission caps shall be based on the records on daily fuel consumption, data from the NOx CEM, data from the O2 CEM, data from the SO2 CEM, and the emission factors established in the source test required in Condition 28b. As indicated, the daily emission limit for PM10 is dependent on actual hourly CEM data for NOx and SO2 with a base of 365 lb/day, averaged over any single calendar day. The NOx and SO2 emission components in the PM10 daily emission limit may not be credited to any other calendar day except the one in which they occur. [basis: offsets, cumulative increase]

- 24c. Emissions of nitrogen oxides, as NO2, from the gas turbine and HRG boiler pairs (S4190/4191 and S4192/4193) shall be abated at all times with selective catalytic reduction systems (SCR) and catalytic oxidation systems (A4190/4191; A4192/4193), and shall not exceed 5 ppmv, dry, corrected to 15% oxygen, averaged over 3 hours. This condition shall apply to all periods of gas turbine operations, except periods of startup and shutdown, as defined by Condition 22. [basis: BACT]
- 25.a. Emissions of CO from the gas turbine and HRG boiler pairs (S4190/4191 and 4192/4193) shall be abated at all times with selective catalytic reduction systems (SCR) and catalytic oxidation systems (A4190/4191; A4192/4193), and shall not exceed 6.5 ppm, dry, at 15% oxygen, averaged over 8 hours; or 90% overall reduction on a mass basis. The 90% overall reduction shall be determined by measuring inlet and outlet CO concentrations from the catalytic oxidizer. This condition shall apply to all periods of gas turbine operations, except periods of startup and shutdown, as defined by Condition 22. [basis: BACT]
- 25.b. Emissions of POC from the gas turbine and HRG boiler pairs (S4190/4191 and 4192/4193) shall not exceed 0.013 lb/Million BTU. This condition shall apply to all periods of gas turbine operations, except periods of startup and shutdown, as defined

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by Condition 22. (Added per AN 14577; 3/95) [basis: BACT]

26. Except during period of startup and shutdown, as defined by Condition 22, ammonia emissions (ammonia slip) from the SCR / catalytic oxidation systems (A4190/4191, A4192/4193) shall not exceed 20 ppm of ammonia, dry, corrected to 15% oxygen. [basis: BACT]
27. On source pairs S4190/4191 and S4192/4193, the owner/operator shall install, calibrate, maintain, and operate the following: (1) a District-approved continuous emission monitor and recorder for NOx and O2; and (2) a water to fuel ratio monitor, per 40CFR60 section 60.334. [basis: BACT]
- 28a. Start-up condition deleted.
- 28b. Start-up condition deleted.
- 28c. Start-up condition deleted.
- 28d. Start-up condition deleted.

Hydrogen Plant (S4160)

29. Except during startup and shutdown periods, as defined by Condition 22, emissions of nitrogen oxides, as NO2, from the DC H-101 HP3 Steam Methane Reformer furnace (S4161) shall not exceed 10 ppmv, dry, corrected to 3% oxygen, averaged over 3 hours. [basis: BACT]
30. For the hydrogen plant steam methane reformer furnace (S4161), emissions of CO shall not exceed 25 ppmv, dry, corrected to 3% oxygen, averaged over 8 hours, except during startup and shutdown, as defined by Condition 22. [basis: BACT]
31. S4161 shall be abated at all times by A4161, Selective Catalytic Reduction for HP3 Steam Methane Reformer. Ammonia emissions (ammonia slip) from the SCR unit (A4161) shall not exceed 20 ppm of ammonia, dry, corrected to 3% oxygen. [basis: BACT]
32. On source S4161, the owner/operator shall install, calibrate, maintain, and operate a District-approved continuous emission monitor and recorder for NOx and O2. [basis: BACT]
33. Except during emergency upsets, the condensate stripping system must be operated while feed gas is present in the process, unless the deaerator vent is vented to S4161, HP-3 SMR Furnace. While the condensate stripping system is in operation, the stripper overheads must be returned to the feed gas stream. In the event of a shutdown of the condensate stripping system while feed gas is present in the process,

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the condensate stripping system may be bypassed and the deaerator vented to S4161, HP-3 SMR Furnace for abatement. The deaerator must be vented to S4161 within 3 hours of stripper shutdown. There shall be no more than 12 bypasses in any 12-month period. For each bypass, the owner/operator shall keep a record of the date, duration of bypass, and reason for bypass. These records shall be retained on site for at least five years, and shall be made available to the District upon request. (Added 2/98, Amended 4/02, AN 4192. AN 18235. Original Cond. 33 – A/C start-up source test requirement deleted) [basis: Reg. 8-2]

34. Combined refinery fuel gas and flexigas, on a heat input basis, shall not exceed 57.6% of the design duty (524 MM BTU/hr HHV) for source S4161, DC H-101 HP3 Steam Methane Reformer. [basis: offsets]

Furnaces with Selective Catalytic Reduction (S4002, 4003, 4031 and 4141)
(Conditions 35 through 39 amended per AN 14577; 3/95)

35. For sources S4002, 4003, 4031 and 4141, emissions of nitrogen oxides, as NO₂, shall not exceed 10 ppmv, dry, corrected to 3% oxygen, averaged over 3 hours, except during startup and shutdown, as defined by Condition 22. [basis: BACT]
36. For sources S4002, 4003, 4031 and 4141, emissions of CO shall not exceed 50 ppm, dry, corrected to 3% oxygen averaged over 8 hours, except during startup and shutdown, as defined by Condition 22. [basis: BACT]
37. Sources S4002, 4003, 4031 and 4141 shall be abated at all times by the corresponding abatement device (A4002, 4003 and 4141, Selective Catalytic Reduction Systems). Ammonia emissions (ammonia slip) from the SCR units (A4002, 4003 and 4141) shall not exceed 20 ppm of ammonia, dry, corrected to 3% oxygen. [basis: BACT]
38. On sources S4002, 4003, 4031 and 4141, the owner/operator shall install, calibrate, maintain, and operate a District-approved continuous emission monitor and recorder for NO_x and O₂. [basis: BACT]
39. Start-up condition deleted.

Furnaces with Low NO_x Burners (S4021)
(Conditions 40 through 44 amended per AN 14577; 3/95)

40. For all natural draft furnaces (S4021), emissions of nitrogen oxides, as NO₂, shall not exceed 25 ppmv, dry, corrected to 3% oxygen, averaged over 3 hours, except during startup and shutdown, as defined by Condition 22. [basis: BACT]
41. In the event that any furnace (S4021) is installed as a forced draft furnace, emissions of nitrogen oxides for that furnace, as NO₂, shall not exceed 20 ppmv, dry, corrected

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to 3% oxygen, averaged over 3 hours, except during startup and shutdown, as defined by Condition 22. [basis: BACT]

42. For source S4021, emissions of CO shall not exceed 50 ppm, dry, corrected to 3% oxygen averaged over 8 hours, except during startup and shutdown, as defined by Condition 22. [basis: BACT]
43. The owner/operator shall install low NOx burners on source S4021, to comply with the limit in Condition No. 43. [basis: BACT]
44. Start-up condition deleted.

TANKAGE

45. Tanks ~~S43~~, 4319, 4334, 4350, and 4356 shall be fixed roof tanks connected to existing vapor recovery systems. In accordance with the NSPS requirements of 40 CFR 60, Subpart Kb, these tanks shall be maintained leak free (less than 500 ppm above background, as methane). S4322, Tank 1471 Sour Water, shall be an internal floating roof tank with a liquid mounted primary seal and a zero-gap secondary seal. (Amended Aug. 1995, AN 25076) [basis: BACT]
46. Tanks S4311, 4329, 4330, 4349 shall be pressure tanks with a minimum pressure relief valve (PRV) set pressure of 15 psig. [basis: BACT]
47. Tanks S4310, , 1129, 1130, and 1131 shall be external floating roof tanks which have liquid mounted primary seals and zero-gap secondary seals. There shall be no ungasketed roof fittings. Except for roof legs, each roof fitting shall be of the design that yields the minimum roof fitting losses (per EPA Compilation of Air Pollution Emission Factors, AP-42, Supplement E, Section 12.3.2, Table 12.3-11). The following list indicates the type of control required for a variety of typical roof fittings. Control techniques for roof fittings not included in this list shall be subject to District approval, prior to installing the roof on the tank.

| Fitting Type | Control Technique |
|-------------------|---|
| Access hatch | Bolted cover, gasketed |
| Guide pole / Well | Unslotted guide pole, gasketed sliding cover; or Slotted with controls per API 2517 Addendum (See Note 1) |
| Gauge float well | Bolted cover, gasketed |

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| | |
|---------------------------|--|
| Gauge hatch / Sample well | Weighted mechanical actuation, gasketed |
| Vacuum breaker | Weighted mechanical actuation, gasketed |
| Roof drain | Roof drain does not drain water into product |
| Roof leg | Fixed; or Adjustable, with vapor seal boot, or gasket between roof leg and leg sleeve (amended 2/9/96) |
| Rim vent | Weighted mechanical actuation, gasketed |

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

- a. Sliding cover;
 - b. Well gasket;
 - c. Pole sleeve with pole wiper approximately 6 inches above sliding cover, or District approved equivalent;
 - d. Float with float wiper approximately 1 inch above the sliding cover, or alternately a float with multiple wipers. (Added per letter of 2/28/95) [basis: BACT]
49. Start-up condition deleted.
50. The total volume of Isom Feed stored in all storage tanks shall not exceed 100,000 barrels at any given time. the owner/operator shall keep daily records of the information listed below. These records shall be summarized in the monthly report, per Conditions L and M.
- a. total volume of Isom Feed that is stored;
 - b. the tanks, by source number, in which Isom Feed is stored; and
 - c. the days on which Isom Feed is stored in other tanks. [basis: cumulative increase]
51. All POC emissions from tank cleaning (degassing) or tank filling (including initial

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filling and filling after landing roof) shall be vented to a control device with an overall capture and destruction efficiency of 95%, on a mass basis. For the purposes of this permit condition, the tank cleaning control device shall be operated until the concentration of organic compounds in the tank is less than 10,000 ppm, as methane. [basis: BACT]

WASTEWATER MAINTENANCE DROP OUT VESSELS (MDO)

52. The DC MDO (maintenance drop out) vessels (S4211 and 4212) shall be completely enclosed and vapor tight (100 ppm, as methane), and vented to the DC Clean Fuels Flare gas recovery system (S4201) or an incinerator with a minimum destruction efficiency of 98.5 % by weight. The owner/operator shall notify the District at least 60 days prior to startup if an abatement device other than AS4201 will be used. Any new abatement device not authorized by this permit must first receive a separate Authority to Construct from the District. [basis: BACT]
53. Each MDO vessel that is installed as part of the Clean Fuels Project (CFP), shall meet the following operating requirements:
 - a. All recycled or recovered oil and oil emulsions shall be transferred through closed, leak tight systems (100 ppm, as methane).
 - b. Except for wastewater flow from, and S4180 OPCEN Sulfur Plant 4 (SRU4), all wastewater streams from the CFP units shall be transferred to the existing Effluent Treatment Plant through closed systems.
 - c. All wastewater flow from 4180 shall be transferred to the existing Effluent Treatment Plant through covered systems that meet the requirements of Regulation 8, Rule 8.
 - d. All pressure relief valves shall vent to the DC Clean Fuels Flare gas recovery system (S4201). [basis: BACT]
54. Condition deleted.
55. The owner/operator shall install a District-approved continuous hydrocarbon analyzer/recorder to determine hydrocarbon vapor concentration from the cooling water in Cooling Water Tower (CWT-13278) (S4210). The purpose of this analyzer is to serve as an early warning/detection device to indicate a possible heat exchanger leak of process fluid into the cooling water system. The analyzer will provide baseline data, which will be statistically evaluated to determine an Action Level. Any hydrocarbon reading above the Action Level will trigger an alarm. Shell's facility's monthly report shall include a summary of the baseline data, the action level, and a description of findings and actions taken for each incident above the

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action level. The actual implementation of this permit condition shall be subject to the approval of the District permit engineer upon startup of the cooling tower.
[basis: BACT]

FLARE

56. Start-up condition deleted.
57. In order to prevent smoking, the first stage of the DC Clean Fuels Flare (S4201) shall be provided with steam-assist. [basis: BACT]
58. Start-up condition deleted.
59. Start-up condition deleted.
60. All flare pilots shall be fueled continuously with natural gas or LPG. The flare will be operated only during period of emergency upset or breakdown. Routine venting of process gases shall go to the flare gas recovery system. [basis: BACT]
61. The flare shall have a hydrocarbon destruction efficiency of at least 98.5%, on a mass basis. [basis: BACT]
62. Start-up condition deleted.

SULFUR RECOVERY SYSTEM

63. The sulfur pit for sulfur plant 4 (S4347) shall be fixed roof and vented to the Thermal Oxidizer for Sulfur Plant 4 (A4181) at all times during operation of A4181. [basis: BACT]
64. The Sour Water Strippers shall remove and recover at least 95% (by weight) of the H₂S and remove 95% (by weight) of the ammonia from the sour water feed to the unit; or reduce the concentration of NH₃ to no more than 50 ppm and the concentration of H₂S to no more than 25 ppm in the stripped water. This condition shall not apply during periods of startup and shutdown. The startup and shutdown exemption in this Condition does not exclude the owner/operator from complying with Regulation 9-1-312.2. [basis: BACT]
65. The SCOT No. 4 and Thermal Oxidizer for Sulfur Plant 4 (A4180 and A4181) shall achieve a 99.9% weight conversion of reduced sulfur compounds to elemental sulfur. [basis: BACT]
66. The concentration of total reduced sulfur (H₂S, COS, and CS₂) in the facility's Claus Offgas Treatment (SCOT) unit exhaust, prior to the SCOT Thermal Oxidizer

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- for Sulfur Plant 4 (A4181), shall not exceed 100 ppm, dry, at 0% oxygen, averaged over 8 hours. [basis: BACT]
67. Total reduced sulfur compound concentrations in the SCOT tailgas shall be measured using gas chromatography to determine compliance with Condition No. 66. Analytical data shall be accumulated by the process computer and shall be made available to the District upon request. A summary of daily average and maximum total reduced sulfur concentrations shall be included in the monthly reports required by Conditions M and N. If the gas chromatography unit proves unable to measure CS₂, the owner/operator shall conduct three separate 3-hr source tests while the SCOT unit is operating at or near maximum capacity, to determine the average concentration of CS₂ in the exhaust from the SCOT unit. If the average CS₂ concentration is less than 5 ppm, dry at 0% oxygen, then the average CS₂ concentration may be deducted from the 100 ppm limit in Condition No. 66, and reference to CS₂ may be deleted from Conditions 66 and 67. [basis: BACT]
68. The SCOT Thermal Oxidizer shall achieve a minimum of 95 %weight conversion of reduced sulfur compounds to SO₂. The concentration of H₂S in the exhaust from A4181 SCOT Thermal Oxidizer for Sulfur Plant 4 shall not exceed 2.5 ppm, dry, at 0% oxygen, averaged over 24 hours. The concentration of SO₂ in the exhaust from A4181 SCOT Thermal Oxidizer for Sulfur Plant 4 shall not exceed 50 ppm, dry, at 0% oxygen, averaged over 24 hours. The 50 ppm SO₂ limit excludes the sulfur contribution from the Sulfur Pit. Because Condition No. 63 requires the sulfur pit to be controlled by A4181, the 50 ppm SO₂ limit will be adjusted to include an additional 50 ppm SO₂ emissions from controlling the Sulfur Pit. If for some reason the sulfur pit is not being vented to the SCOT Thermal Oxidizer, SO₂ will be limited to 50 ppm as indicated above. [basis: BACT]
69. A District-approved SO₂ continuous emission monitor and recorder (CEM) shall be installed, calibrated, maintained, and operated according to District regulations, on the exhaust of the Tailgas Incinerator, to determine compliance with Condition No. 68. The owner/operator shall continuously monitor the temperature at A4181. In accordance with Condition G, the owner/operator shall conduct a source test for H₂S following startup of source S4180, OPCEN Sulfur Plant 4 (SRU4), and annual thereafter, to determine compliance with Condition 68. [basis: BACT]
70. The concentration of CO in the exhaust from the Tailgas Incinerator (A4181) shall not exceed 100 ppm, dry, at 0% oxygen, averaged over 8 hours. [basis: BACT, good combustion]
71. In the event that the OPCEN Sulfur Plant 4 (SRU4) (S4180), SCOT No. 4 (A4180), and/or SCOT Tailgas Thermal Oxidizer for Sulfur Plant 4 (A4181) is shut down, all acid gas feed to the SRU4 shall be completely curtailed or reallocated to other sulfur recovery systems so that no acid gases are vented to the flare, nor any unabated SRU4 tailgas (tailgas not treated in SCOT No. 4) is routed to the Thermal Oxidizer for Sulfur Plant 4 (A4181). This shall be completed within the following

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timeframes:

- a. Prior to any planned shutdown of OPCEN Sulfur Plant 4 (SRU4) (S4180), SCOTNo. 4 (A4180), or Thermal Oxidizer for Sulfur Plant 4 (A4181);
- b. Within 24 hours of any unplanned shutdown of OPCEN Sulfur Plant 4 (SRU4) (S4180), SCOTNo. 4 (A4180), or Thermal Oxidizer for Sulfur Plant 4 (A4181).

and the District shall be notified of all such occurrences within 48 hours. [basis: BACT, offsets]

The owner/operator shall calculate excess emissions resulting from any unplanned shutdown of SRU4, SCOT No. 4 or SCOT Tailgas Thermal Oxidizer. These excess emissions shall be included for the purposes of determining compliance with Condition A. If inclusion of these excess emissions causes the owner/operator to exceed the monthly trigger level in Condition A, Facility's Compliance Plan shall describe how the owner/operator will achieve the additional emission reductions necessary to maintain compliance with the consecutive twelve-month limit. These reductions will be provided to the extent necessary by one or more of the following:

- c. Additional reductions in SO₂ emissions from the CO Boilers (S1507, 1509, and/or 1512);
- d. the use of banked emissions reduction credits; and
- e. other means approved by the District.

For the purposes of determining compliance with the twelve-month emission limits of Condition A, an SRU4 outage will not result in immediate violation of Condition A, when the owner/operator would have otherwise complied, had the outage not occurred. If an SRU outage occurs, the District will only include the SRU excess emissions for calculating the twelve-month totals beginning five months prior to the month in which the outage occurred. Therefore, the owner/operator will have six months following an SRU4 outage to reduce emissions sufficiently to keep their twelve-month emission totals below the limit indicated in Condition A. [basis: offsets]

72. The loading of elemental sulfur or sulfuric acid (fresh or spent) into trucks or railcars shall be controlled by a scrubber with an overall capture/removal efficiency of at least 95%, on a mass basis. H₂S emissions from the scrubber shall not exceed 5 ppm. [basis: BACT, odors]
73. Start-up condition deleted.
PENTANE RAILCAR LOADING RACK
74. Source S4338 shall only be used to load pentane, butane, or LPG into railcars under pressure, with a minimum PRV set pressure of 15 psig. Vapors from the loading operation shall be collected and controlled by S1470, LOG LPG Loading Flare. [basis: BACT]

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COKE HANDLING

75. Visible emissions from any aspect of the DC Coke Handling Facility (S4005) shall not exceed Ringelmann No. 0.5, or 10% opacity, for three minutes in any consecutive 60-minute period. [basis: BACT]
76. In order to reduce the potential for fugitive particulate emissions, the owner/operator shall wash the pad area surrounding the Coke Pit (where coke drops from the coker) at least once per day, when the coker is operating or when coke is being removed from the coke drums. [basis: BACT]
77. Water Sprays shall be used to control particulate emissions from the Crushing operation. The moisture content of the coke, upon discharge from the crusher, shall be maintained at or above 8 % weight. The following method shall be used to demonstrate compliance with this condition.
- The moisture content of the coke shall be analyzed at least once per day;
 - Compliance is achieved with a moisture content is greater than or equal to 8% by weight;
 - No more frequently than once in any 30-day period, the operator has the option of re-sampling according to the procedures in subsections d through f below. Any moisture content less than 6% by weight constitutes a violation of this condition.
 - If the analysis of the first sample shows a moisture content greater than or equal to 6%, but less than 8% by weight, the operator shall increase the water spray rate, and re-sample within 2 hours of the first sample;
 - If the moisture content of the second sample is greater than 7%, but less than 8 % by weight, the operator may take one final sample within 1 hour of the second sample;
 - If the moisture content of the third sample is greater than or equal to 8% by weight, this condition is met.
- The operator shall maintain records of all moisture content analyses for at least five years from the date of the analysis. These records shall be made available to the District upon request. (Amended 12/98, AN 18589) [basis: BACT]
78. All coke conveying systems downstream of the crusher shall be completely enclosed. [basis: BACT]
79. The owner/operator shall use water sprays, as necessary to minimize particulate emissions from the surfaces of the coke piles within the Coke ~~Corral Barn~~. The Coke ~~Corral Barn~~ shall be enclosed and controlled by A4005, Particulate Collection Device for Delayed Coking Unit for Coke ~~Corral Barn~~, at all times during operation of the ~~eCoke corral Barn~~. Particulate emissions from A4005 shall not exceed 0.01 grain/DSCF (grain per dry standard cubic foot) of exhaust. [basis: BACT]
80. To minimize dust carry-out, doors to the Coke ~~Corral Barn~~ shall be kept closed

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except for ingress or egress. The Coke ~~Corral Barn~~ shall be equipped with a vehicle wash off area, inside of the Coke ~~Corral Barn~~, to remove coke dust from the vehicle prior to exiting the Coke ~~Corral Barn~~.

If particulate emissions from the Coke ~~Corral Barn~~ result in 3 or more visible emission violations within a six month period, or two public nuisance violations within a 5 year period, the owner/operator shall install additional controls, as approved by the District, which may include one or more of the following:

- a. Additional water sprays;
 - b. Chemical suppressant in water spray system;
 - c. Additional/improved enclosures;
 - d. Wind screens;
 - e. Coke silos abated by fabric filters; or
 - f. Equivalent, as approved by the District. [basis: BACT]
81. The Truck/Railcar Loading Hopper shall be completely enclosed and controlled by A4006, Particulate Collection Device for Delayed Coking Unit for Hopper Loading, at all times during railcar loading. Particulate emissions from A4006 shall not exceed 0.01 grain/DSCF (grain per dry standard cubic foot) of exhaust. (modified 8/96, AN 15942) [basis: BACT]
- 82a. A Wind Shield shall be used to shroud the discharge point from the Truck/Railcar Loading Hopper and the opening of the truck or railcar at all times during truck or railcar loading. The trucks and railcars shall be loaded so that the level of coke is not higher than the top of the truck trailer or railcar. After loading onto railcars, the coke surface shall be sprayed with a surface binding agent to minimize particulate entrainment during transit. After loading onto trucks, the coke shall be completely covered with tarpaulin or other similar material, to minimize particulate spillage and entrainment during transit. [basis: BACT]
- 82b. Before leaving the coke loading area, the truck shall pass through a water wash system to remove coke from the truck and trailer tires, wheels and undercarriage, in order to minimize the tracking of coke onto the roadway. [basis: BACT]
- 82c. At least twice per week, the owner/operator shall use a "street sweeper" that is equipped with a vacuum device to clean the road that is used by coke haul trucks. At a minimum, the road shall be cleaned between the Truck/Railcar Loading Hopper and the final point at which the trucks depart facility property onto the public roadway. Both directions of the roadway shall be cleaned. [basis: BACT]
- 82d. With the exception of maintenance activities, no vehicle shall be allowed to enter from any unpaved area onto the roadway that is used by coke haul trucks (coke haul road). Following a maintenance activity for which it is necessary for a vehicle to drive onto the coke haul road from an unpaved area, the owner/operator shall use a "street sweeper" to sweep the road from the point of entry of the maintenance

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- vehicle to the final point at which the maintenance vehicle departed the coke haul road. [basis: BACT]
- 82e. Start-up condition deleted..
- 82f. Start-up condition deleted.
83. The owner/operator shall not load out more than a combined total of 750,000 tons of coke onto trucks or railcars in any consecutive twelve month period. The owner/operator shall keep monthly records and twelve-month averages of coke load out. (modified 8/96, AN 15942) [basis: offsets, cumulative increase]
84. To reduce potential odors from the coke handling operations, water from any aspect of the coke handling operations, including water from the hydraulic drill, crusher water sprays, and coke storage pile water sprays, shall be collected and hard-piped to tankage. All storage tanks, oil/water separators, or other equipment with the potential to receive water from coke handling operations shall be constructed in such a way as to facilitate retrofit with roofs or other enclosures, and control by an abatement device. If odors from the coke discharge water storage or handling result in or contribute to a public nuisance, the owner/operator shall enclose all storage tanks, oil/water separators and other equipment that receives water from coke handling operations, and install vapor recovery/control on the storage tanks, oil/water separators, and other equipment to reduce hydrocarbon and total reduced sulfur compounds by at least 95%, on a mass basis. [basis: odors]

NO_x OFFSETS

85. Total emissions of nitrogen oxides, as NO₂, from the three existing CO Boilers (S1507, 1509, and 1512) shall not exceed ~~6770-5452~~ lb/day [baseline date of 8/8/92: (1799.2 - 563.7 TPY) x (2000 lb/ton) / (365 day/yr)], averaged over any consecutive 365-day period. (Amended 3/95 per AN 14577; baseline reduced by 5.9% on June 2, 1995) [basis: offsets]
86. The owner/operator shall continue to operate the NO_x continuous emission monitors on the CO Boilers in accordance with the District's Manual of Procedures, to verify compliance with Condition No. 85. The owner/operator shall use the CEM data to calculate NO_x emissions on a daily basis. If a NO_x CEM on a CO Boiler is not functioning for more than one day, then NO_x emissions from that CO Boiler will be assumed to be ~~2257-1817~~ lb/day (~~6770-5452~~ / 3) for each day that the monitor is not functioning, if the owner/operator can demonstrate that urea injection is occurring at a normal rate. If the owner/operator cannot demonstrate that urea injection is occurring at a normal rate, then NO_x emissions from that CO Boiler will be assumed to be the uncontrolled emission rate of 3286 lb/day (9858 / 3) for each day that the monitor is not functioning. [basis: offsets]

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(Amended 3/95 per AN 14577; baseline reduced by 5.9% on June 2, 1995)

87. The owner/operator shall calculate the 365-day average NOx emissions to determine compliance with the emission limit in Condition No. 85. Emission calculations will be based on the CEM data, and exhaust flow from fuel combustion calculations. [basis: offsets]
88. The owner/operator shall report actual daily NOx emissions and the 365-day average NOx emissions in the monthly reports required by Conditions L and M. [basis: offsets]
89. Start-up condition deleted.

SO2 OFFSETS

90. Total emissions of SO2 from the three existing CO Boilers (S1507, 1509, and 1512) shall not exceed 6805 lb/day [1991 baseline: (1427.2 - 185.2 TPY) x (2000 lb/ton) / (365 day/yr)], averaged over any consecutive 365-day period. (Amended 3/95 per AN 14577; 7/98 per AN 18185) [basis: offsets]
91. The owner/operator shall continue to operate the SO2 continuous emission monitor/recorders on CO Boilers 1 and 2 in accordance with the District's Manual of Procedures. The owner/operator shall install and operate a new SO2 continuous emission monitor/recorder on CO Boiler 3 (S1512). The owner/operator shall use the CEM data to verify compliance with Condition No. 90. The owner/operator shall use the CEM data to calculate SO2 emissions on a daily basis. If a SO2 CEM on a CO Boiler is not functioning for more than one day, then SO2 emissions from that CO Boiler will be assumed to be 2262 lb/day (6805 / 3) for each day that the monitor is not functioning. (Amended 3/95 per AN 14577; 7/98 per AN 18185) [basis: offsets]
92. The owner/operator shall calculate the 365-day average SO2 emissions to determine compliance with the emission limit in Condition No. 90. Emission calculations will be based on the CEM data, and exhaust flow from fuel combustion calculations. [basis: offsets]
93. The owner/operator shall report actual daily SO2 emissions and the 365-day average SO2 emissions in the monthly reports required by Conditions L and M. [basis: offsets]
94. Start-up condition deleted.
95. Start-up condition deleted.

RAIL EMISSIONS

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96. The owner/operator shall calculate rail emissions for coke and pentane shipments from the CFP on a monthly basis, in accordance with the rail emission calculation procedure in Appendix B of the Engineering Evaluation Report for Application No. 8407. [basis: offsets, cumulative increase]
97. Monthly rail emissions for coke and pentane shipments from the CFP shall be included in the monthly report required by Conditions L and M. [basis: offsets, cumulative increase]

TOXICS

98. The carcinogenic risk from any source in the Clean Fuels Project shall not exceed the risk attributed to that source in the Project Health Risk Assessment (HRA). [basis: toxics]
99. Start-up condition deleted.
100. Start-up condition deleted.
101. Start-up condition deleted.
102. Start-up condition deleted.
103. Start-up condition deleted.

SOURCE TESTING

104. Effective April 1, 2004, for S4021, the owner/operator shall conduct a District approved source test semi-annually for S4021 to determine the nitrogen oxide emissions from each source to verify compliance with Part 40 and 41, respectively. For S4021, the interval between source tests shall not exceed eight months. The results of the source test shall be made available to the District within 60 days of the source test and kept for a minimum of 5 years from the date of the report. The frequency of source testing required under this condition shall be reduced from annually to once every five years or from semi-annually to twice every five years if three consecutive annual or four consecutive semi-annual source tests document that emissions are less than 50 percent of the standard. The frequency of source testing shall revert back to annually or semi-annually, if a source test documents that emissions are 50 percent of the standard or more. The source testing frequency can again be reduced if another three consecutive annual or four consecutive semi-annual source tests document that emissions are less than 50 percent of the standard. [basis: Regulation 2-6-409.2]
105. Effective April 1, 2004, for S4002, S4003, S4031, and S4141, the owner/operator shall conduct a District approved source test semi-annually to determine the carbon monoxide emissions from each source to verify compliance with Part 36. The

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interval between source tests shall not exceed eight months. The results of the source test shall be made available to the District within 60 days of the source test and kept for a minimum of 5 years from the date of the report. The frequency of source testing required under this condition shall be reduced from annually to once every five years or from semi-annually to twice every five years if three consecutive annual or four consecutive semi-annual source tests document that emissions are less than 50 percent of the standard. The frequency of source testing shall revert back to annually or semi-annually, if a source test documents that emissions are 50 percent of the standard or more. The source testing frequency can again be reduced if another three consecutive annual or four consecutive semi-annual source tests document that emissions are less than 50 percent of the standard. [basis: Regulation 2-6-409.2]

106. Effective April 1, 2004, for S4021, the owner/operator shall conduct a District approved source test semi-annually for S4021 to determine the carbon monoxide emissions from each source to verify compliance with Part 42. For S4021, the interval between source tests shall not exceed eight months. The results of the source test shall be made available to the District within 60 days of the source test and kept for a minimum of 5 years from the date of the report. The frequency of source testing required under this condition shall be reduced from annually to once every five years or from semi-annually to twice every five years if three consecutive annual or four consecutive semi-annual source tests document that emissions are less than 50 percent of the standard. The frequency of source testing shall revert back to annually or semi-annually, if a source test documents that emissions are 50 percent of the standard or more. The source testing frequency can again be reduced if another three consecutive annual or four consecutive semi-annual source tests document that emissions are less than 50 percent of the standard. [basis: Regulation 2-6-409.2]
107. Effective April 1, 2004, for S4161, the owner/operator shall conduct a District approved source test semi-annually to determine the carbon monoxide emissions from each source to verify compliance with Part 30. The interval between source tests shall not exceed eight months. The results of the source test shall be made available to the District within 60 days of the source test and kept for a minimum of 5 years from the date of the report. The frequency of source testing required under this condition shall be reduced from annually to once every five years or from semi-annually to twice every five years if three consecutive annual or four consecutive semi-annual source tests document that emissions are less than 50 percent of the standard. The frequency of source testing shall revert back to annually or semi-annually, if a source test documents that emissions are 50 percent of the standard or more. The source testing frequency can again be reduced if another three consecutive annual or four consecutive semi-annual source tests document that emissions are less than 50 percent of the standard. [basis: Regulation 2-6-409.2]
108. Effective April 1, 2004, for S4190, S4191, S4192, and S4193, the owner/operator shall conduct a District approved source test annually to determine the carbon

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monoxide emissions from each source to verify compliance with Part 25a. The results of the source test shall be made available to the District within 60 days of the source test and kept for a minimum of 5 years from the date of the report. The frequency of source testing required under this condition shall be reduced to once every five years if three consecutive annual source tests document that emissions are less than 50 percent of the standard. The frequency of source testing shall revert back to once per year, if a source test documents that emissions are 50 percent of the standard or more. The source testing frequency can again be reduced to once every five years if another three consecutive annual source tests document that emissions are less than 50 percent of the standard. [basis: Regulation 2-6-409.2]

109. Effective April 1, 2004, for S4180, the owner/operator shall conduct a District approved source test annually to determine the carbon monoxide emissions from the source to verify compliance with Part 70. The results of the source test shall be made available to the District within 60 days of the source test and kept for a minimum of 5 years from the date of the report. The frequency of source testing required under this condition shall be reduced to once every five years if three consecutive annual source tests document that emissions are less than 50 percent of the standard. The frequency of source testing shall revert back to once per year, if a source test documents that emissions are 50 percent of the standard or more. The source testing frequency can again be reduced to once every five years if another three consecutive annual source tests document that emissions are less than 50 percent of the standard. [basis: Regulation 2-6-409.2]
110. Effective April 1, 2004, for S4180, the owner/operator shall conduct a District approved source test annually to determine the efficiency and hydrogen sulfide (H₂S) emissions to verify compliance with Part 72. The results of the source test shall be made available to the District within 60 days of the source test and kept for a minimum of 5 years from the date of the report. The frequency of source testing required under this condition shall be reduced to once every five years if three consecutive annual source tests document that emissions are less than 50 percent of the standard. The frequency of source testing shall revert back to once per year, if a source test documents that emissions are 50 percent of the standard or more. The source testing frequency can again be reduced to once every five years if another three consecutive annual source tests document that emissions are less than 50 percent of the standard. [basis: Regulation 2-6-409.2]
111. Effective April 1, 2004, for S4002, S4003, S4031, and S4141, the owner/operator shall conduct a District approved source test annually to determine the ammonia (NH₃) emissions to verify compliance with Part 37. The results of the source test shall be made available to the District within 60 days of the source test and kept for minimum of 5 years from the date of the report. The frequency of source testing required under this condition shall be reduced to once every five years if three consecutive annual source tests document that emissions are less than 50 percent of the standard. The frequency of source testing shall revert back to once per year, if a source test documents that emissions are 50 percent of the standard or more. The

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source testing frequency can again be reduced to once every five years if another three consecutive annual source tests document that emissions are less than 50 percent of the standard. [basis: Regulation 2-6-409.2]

112. Effective April 1, 2004, for S4161, the owner/operator shall conduct a District approved source test annually to determine the ammonia (NH₃) emissions to verify compliance with Part 31. The results of the source test shall be made available to the District within 60 days of the source test and kept for a minimum of 5 years from the date of the report. The frequency of source testing required under this condition shall be reduced to once every five years if three consecutive annual source tests document that emissions are less than 50 percent of the standard. The frequency of source testing shall revert back to once per year, if a source test documents that emissions are 50 percent of the standard or more. The source testing frequency can again be reduced to once every five years if another three consecutive annual source tests document that emissions are less than 50 percent of the standard. [basis: Regulation 2-6-409.2]
113. Effective April 1, 2004, for S4190, S4191, S4192, and S4193, the owner/operator shall conduct a District approved source test annually to determine the ammonia (NH₃) emissions to verify compliance with Part 26. The results of the source test shall be made available to the District within 60 days of the source test and kept for a minimum of 5 years from the date of the report. The frequency of source testing required under this condition shall be reduced to once every five years if three consecutive annual source tests document that emissions are less than 50 percent of the standard. The frequency of source testing shall revert back to once per year, if a source test documents that emissions are 50 percent of the standard or more. The source testing frequency can again be reduced to once every five years if another three consecutive annual source tests document that emissions are less than 50 percent of the standard. [basis: Regulation 2-6-409.2]
114. Effective April 1, 2004, for S4190, S4191, S4192, and S4193, the owner/operator shall conduct a District approved source test annually to determine the VOC emissions to verify compliance with Part 25b. The results of the source test shall be made available to the District within 60 days of the source test and kept for a minimum of 5 years from the date of the report. The frequency of source testing required under this condition shall be reduced to once every five years if three consecutive annual source tests document that emissions are less than 50 percent of the standard. The frequency of source testing shall revert back to once per year, if a source test documents that emissions are 50 percent of the standard or more. The source testing frequency can again be reduced to once every five years if another three consecutive annual source tests document that emissions are less than 50 percent of the standard. [basis: Regulation 2-6-409.2]

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APPENDIX B

- B-1 COMBUSTION EMISSIONS
- B-2 FUGITIVE EMISSIONS
- B-3 STORAGE TANK EMISSIONS
- B-4 COKE HANDLING PROCEDURES
- B-5 RAIL TRANSPORT EMISSIONS
- B-6 COOLING TOWER
- B-7 SRU-4 AND SULFUR PIT EMISSIONS

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B-1, Criteria Pollutant Emissions Summary

| Emission Source | NOx (TPY) | POC (TPY) | CO (TPY) | PM/PM10 (TPY) | SO2 (TPY) |
|---------------------|-----------|-----------|----------|---------------|-----------|
| Combustion | 182.1 | 95.9 | 287.4 | 58.2 | 179.2 |
| Fugitives (a) | | 193.5 | | | |
| Tankage | | 15.6 | | | |
| Coke Handling | | | | 1.5 | |
| Rail Operations (b) | 21.9 | 1.9 | 10.6 | 1.7 | 3.8 |
| Cooling Tower | | 10.1 | | | |
| SRU/Sulfur Pit | | | | | 35.0 |
| Total Emissions | 204.0 | 317.0 | 298.0 | 61.4 | 218.0 |

Notes:

- (a) The annual emission limits in Table A-1 of Part A do not include fugitive emissions.
- (b) The annual emission limits in Table A-1 of Part A only include rail emissions from coke and pentane shipments. Rail emission totals included in the cap for NOx, POC, CO, PM, and SO2 are 17.5, 1.5, 8.5, 1.3, and 3.0 TPY, respectively.

Appendix B-2, Offsets for Criteria Pollutant Emissions

| | NOx (TPY) | POC (TPY) | CO (TPY) | PM10 (TPY) | SO2 (TPY) |
|-----------------|-----------|-----------|----------|------------|-----------|
| Total Emissions | 204.0 | 317.0 | 298.0 | 61.4 | 218.0 |
| Offset Ratio | 1.2 | 1.2 | N/A | 1.1 | 1.1 |
| Total Offsets | 244.8 | 380.4 | 0 | 67.5 | 239.0 |

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Table B-3, Combustion Emission Summary

| Source Unit | Firing Rate | NOx | POC | CO | PM/PM10 | S02 | |
|-------------|----------------------------|-------|--------|-------|---------|-------|--------|
| No. | (MMBTU/hr) | (TPY) | (TPY) | (TPY) | (TPY) | (TPY) | |
| 4141 | HGHT Feed | 27 | 3.43 | 0.35 | 4.14 | 0.59 | 1.95 |
| 4101 | LGHT Feed | 12 | 1.52 | 0.16 | 1.84 | 0.26 | 0.87 |
| 4031 | CGBC Reboiler | 49 | 6.22 | 0.64 | 7.51 | 1.07 | 3.54 |
| 4041 | DSU Feed | 27 | 3.43 | 0.35 | 4.14 | 0.59 | 1.95 |
| 4042 | DSU Reboiler | 23 | 2.92 | 0.30 | 3.53 | 0.50 | 1.66 |
| 4002 | DCU #1 | 175 | 9.20 | 2.77 | 26.83 | 3.83 | 12.64 |
| 4003 | DCU #2 | 175 | 9.20 | 2.77 | 26.83 | 3.83 | 12.64 |
| 4004 | DCU #3 | 175 | 9.20 | 2.77 | 26.83 | 3.83 | 12.64 |
| 4021 | DHT Recycle | 70 | 3.68 | 0.92 | 10.73 | 1.53 | 5.06 |
| 4022 | DNT Reboiler | 100 | 5:26 | 1.31 | 15.33 | 2.19 | 7.22 |
| 4161 | Hydrogen Plant | 910 | 47.83 | 9.59 | 83.70 | 16.55 | 42.98 |
| 4190 | Turbine | 470 | 35.00 | 32.94 | 32.94 | 10.29 | 33.95 |
| 4191 | HRSG Boiler | 56 | 4.17 | 3.92 | 3.92 | 1.23 | 4.05 |
| 4192 | Turbine | 470 | 35.00 | 32.94 | 32.94 | 10.29 | 33.95 |
| 4193 | HRSG Boiler | 56 | 4.17 | 3.92 | 3.92 | 1.23 | 4.05 |
| | SRU4 Oxidizer (a) | 25 | 10.95 | 0.33 | 1.75 | 0.55 | 1.81 |
| 4201 | LRGO Flare (a) | 4 | 1.19 | 2.45 | 6.48 | 0.09 | 0.29 |
| | Pentane Flare (a) | 1 | 0.30 | 0.61 | 1.62 | 0.02 | 0.07 |
| Total | Combustion Emissions | | 194.56 | 99.25 | 297.28 | 58.82 | 181.35 |
| Total | Emissions to be Offset (a) | | 182.12 | 95.86 | 287.42 | 58.16 | 179.18 |

NOTES:

- a. Secondary combustion emissions from the SRU tailgas thermal oxidizer and flares are not subject to Reg. 2-2-301, 2-2-302 and 2-2-303 (BACT and offsets)
- b. S02 emissions are based on a maximum of 100 ppm TRS in the fuel, and H2 plant which burns 43.4% PSA gas at 3.6 ppm H2S.
- c. NOx based on 25 ppm for < 50 MM BTU/hr
- d. Hydrogen plant CO based on 25 ppm BACT limit
- e. Cogen NOx and CO based on 5 and 6.5 ppm at 15% O2, respectively

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Table B-4, Combustion Emission Factors Firing Refinery Fuel Gas (lb/MM BTU)

| | NOx | POC | CO | PM/PM10 |
|---------------------------|---------|---------|---------|----------|
| Furnaces, < 50MMBTU / hr | .029(a) | 0.003 | 0.035 | 0.005 |
| Furnaces, >= 50MMBTU / hr | .012(b) | 0.003 | 0.035 | 0.005 |
| DCU Furnaces (ULSD) | | 0.006 | | |
| Gas Turbines | .017(c) | .016(d) | .016(g) | 0.005(d) |
| HRSG | .017(c) | 0.016 | .016(g) | 0.005(d) |
| Hydrogen Plant Furnace | .012(c) | 0.003 | .021(f) | 0.005(e) |
| PSA Gas | | 0.0016 | | 0.003(e) |
| Flares | 0.068 | 0.14 | 0.37 | 0.005 |
| SRU4 Thermal Oxidizer | 0.1 | 0.003 | .269(h) | 0.005 |

NOTES:

Unless noted all factors are from EPA AP-42.

- (a) 25 ppmv, dry NOx 5% oxygen
- (b) 10 ppmv, dry NOx 3% oxygen
- (c) 5 ppmv, dry NOx 15% oxygen
- (d) vendor spec. (w/oxidation catalyst control for CO and POC)
- (e) particulate emissions factors of 0.005 and 0.003 for refinery fuel gas and PSA gas, respectively
- (f) based on maximum CO of 25 ppm (final BACT may decrease limit)
- (g) based on CO of 6.5 ppm at 15% O₂ for cogeneration plant
- (h) based on 100 ppm from the tailgas thermal oxidizer

S02 EMISSIONS:

Based upon mass balance and 100 ppm TRS in refinery fuel gas

$$(x \text{ MM BTU/hr})(100 \text{ exp-6})(0.001 \text{ scf/BTU})(1 \text{ mole}/387 \text{ scf})^*$$

$$(64 \text{ lb S02/mole})(24 \text{ hr/day})(365 \text{ day/yr})/(2000 \text{ lb/ton})$$

For Hydrogen Plant, use 3.6 ppm H₂S in PSA gas

S0₂ from the SRU-4 Unit is calculated based on a total of 0.1479 lb-mole/hr sulfur from the SCOT Unit and the sulfur pit.

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APPENDIX B-2. BACT FUGITIVE EMISSION FACTORS

Fugitive emissions for the Clean Fuels Project were calculated using the fugitive emission factors indicated below.

| Component Type | Gas/ Vapor (lb/hr) | Light Liquid (lb/hr) | Heavy Liquid (lb/hr) | Hydrogen (lb/hr) | Comments |
|---|--------------------------|----------------------------|----------------------------|---------------------|---|
| Accessible Valves (graphite packing) | 0.00708 | 0.00417 | 0.0000 8 | 0.00354 | 100 ppm, quarterly I&M |
| Accessible Valves (bellows) | 0.00054 | 0.00083 | 0.0000 4 | 0.00027 | 100 ppm, quarterly I&M |
| Inaccessible Valves (graphite packing) | 0.01255 | 0.00671 | 0.0000 8 | 0.00628 | 100 ppm, annual I&M |
| Inaccessible Valves (bellows) | 0.00088 | 0.00127 | 0.0000 4 | 0.00044 | (acc. bellows/acc. graphite)* (inacc. graphite) |
| Valves: Composite | 0.00410 | 0.00265 | 0.0000 6 | 0.00205 | composite using 10% inaccessible |
| Flanges (graphite gaskets) | 0.00017 | 0.00017 | 0.0001 7 | 0.00008 | graphite gaskets |
| Pump Seals (double seals) | | 0.00613 | 0.0061 3 | | dbl. mech. seal with 500 ppm, quarterly I&M |
| Centrifugal Compressor Seal | 0.04038 | | | 0.02019 | wet dbl. mech. seals |
| Reciprocating Compressor Seal | 0.04542 | | | 0.02271 | vented to control |
| Pressure Relief Valves | 0.00054 | | | 0.00027 | rupture disk vented to control |

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| Appendix B-2 Fugitive Emissions | | | | | | |
|--|----------------------|---------------------|--------------------------|-------------------------|---------------------|-------------------------|
| Summary of Emissions [Using BACT Emission Factors] | | | | | Page 1 of 4 | |
| Stream Description | PM Emissions (lb/hr) | PM Subtotal (lb/hr) | non-PM Emissions (lb/hr) | non-PM Subtotal (lb/hr) | POC Emissions (TPY) | non-POC Emissions (TPY) |
| Hydrogen Plant - 3 (HP3) | | 2.79 | | 0.42 | | |
| stream 1 | 0.32 | | | | 1.39 | |
| stream 6A | 0.25 | | | | 1.08 | |
| streams 2,8,10,11,14 | 1.38 | | | | 6.05 | |
| stream 12 | 0.18 | | | | 0.78 | |
| stream 5 | 0.33 | | | | 1.45 | |
| stream 8 | 0.33 | | | | 1.45 | |
| stream 3 | | | 0.05 | | | 0.22 |
| stream 17 | | | 0.37 | | | 1.62 |
| Light Cracked Gasoline Hydrotreater (LGHT) | | 2.20 | | | | |
| gas stream | 1.28 | | | | 5.81 | |
| light liquid streams | 0.80 | | | | 3.52 | |
| heavy liquid streams | 0.04 | | | | 0.19 | |
| MDO streams | 0.07 | | | | 0.32 | |
| Decyclohexanizer (DCH) | | 0.29 | | | | |
| feed streams | 0.09 | | | | 0.38 | |
| reflux streams | 0.04 | | | | 0.17 | |
| tops product streams | 0.08 | | | | 0.33 | |
| bottoms product streams | 0.09 | | | | 0.38 | |
| CS/C8 Isomeriation (ISOM) | | 2.25 | 0.80 | 0.80 | | 3.50 |
| streams 1,2 | | | | | | |
| streams 4,8 | 0.54 | | | | 2.36 | |
| streams 8,10 | 0.52 | | | | 2.28 | |
| streams 11 | 0.09 | | | | 0.37 | |
| streams 13-15 | 0.55 | | | | 2.40 | |
| streams 16,17 | 0.36 | | | | 1.57 | |
| streams 20 | 0.12 | | | | 0.54 | |
| MDO stream | 0.08 | | | | 0.34 | |
| Alkylation - 2 (AL.K2) | | 9.95 | | | | |
| streams 1,2,6,7,10-12,24,25,27,28,30-34 | 3.55 | | | | 15.54 | |
| streams 8,9,13,14,16-23 | 5.23 | | | | 22.90 | |
| streams 3,4,26,29 | 0.51 | | | | 2.25 | |
| streams 5,15 | 0.28 | | | | 1.21 | |
| Alky Dopentimizer CS streams | 0.10 | | | | 0.43 | |

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|--|------|--|--|--|------|--|
| Alky Depentanizer feed and bottoms streams | 0.29 | | | | 1.26 | |
|--|------|--|--|--|------|--|

| Summary of Emissions | | | Page 2 of 4 | | | |
|---|------------------------------------|----------------------|------------------------|--------------------------|---------------------|-------------------------|
| Stream Description | non-POC Emissions Subtotal (lb/hr) | POC Subtotal (lb/hr) | POC Emmissions (lb/hr) | non-POC Subtotal (lb/hr) | POC Emissions (TPY) | non-POC Emissions (TPY) |
| Cracked Gasoline Doptentanizer (CGDP) | | 0.35 | | | | |
| tops stream | 0.10 | | | | 0.43 | |
| bottoms stream: | 0.14 | | | | 0.64 | |
| food streams | 0.11 | | | | 0.46 | |
| Cat Cracked CS Treating (C5TR) | | 1.78 | | 0.20 | | |
| streams 1,2 | 0.69 | | | | 3.02 | |
| streams 3,4 | | | 0.20 | | | 0.86 |
| streams 5 | 0.12 | | | | 0.51 | |
| streams 6 | 0.04 | | | | 0.19 | |
| MDO streams | 0.07 | | | | 0.32 | |
| Selective Hydrogenation H2 stream | 0.12 | | | | 0.51 | |
| Selective Hydrogenation food stream | 0.37 | | | | 1.62 | |
| Selocativa Hydrogenation product stream | 0.37 | | | | 1.62 | |
| Butane Isomerization (81) | | 2.87 | | | | |
| stream 1 | 0.56 | | | | 2.46 | |
| stream 2-4 | 1.13 | | | | 4.95 | |
| stream 5 | 0.03 | | | | 0.13 | |
| stream 6 | 0.30 | | | | 1.32 | |
| stream 7-9 | 0.30 | | | | 1.32 | |
| stream 10,11 | 0.12 | | | | 0.54 | |
| stream 12-14 | 0.04 | | | | 0.16 | |
| stream 15 | 0.31 | | | | 1.37 | |
| MDO streams | 0.07 | | | | 0.32 | |
| Distillate Hydrotreater (DHT) | | 2.75 | | | | |
| gas streams | 1.76 | | | | 7.72 | |
| light liquid streams | 0.79 | | | | 3.47 | |
| heavy liquid streams | 0.12 | | | | 0.51 | |
| MDO streams | 0.08 | | | | 0.36 | |
| Delayed Coking Unit (DCU) | | 9.18 | | 0.29 | | |
| stream 155 | 0.99 | | | | 4.34 | |
| stream 159 | 0.20 | | | | 0.85 | |

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| | | | | | |
|------------------------------|------|--|------|-------|------|
| stream 157 | 0.97 | | | 4.26 | |
| stream 164, 360, 370,102 | 0.16 | | | 0.69 | |
| stream 161 | 0.19 | | | 0.85 | |
| stream 162 | 0.12 | | | 0.52 | |
| stream 163 | 0.18 | | | 0.80 | |
| stream 142 | 0.07 | | | 0.30 | |
| stream 423, 140 | 0.10 | | | 0.43 | |
| stream 424 | 0.05 | | | 0.21 | |
| stream 200 | 0.05 | | | 0.22 | |
| stream 143 | 0.05 | | | 0.22 | |
| stream 135 | | | 0.10 | | 0.44 |
| streams 302, 154, 15313, 141 | 4.34 | | | 19.01 | |
| stream 158, 153A | 1.32 | | | 5.76 | |
| stream 156 | | | 0.09 | | 0.40 |
| C3/C4 Merox typo II stream | 0.05 | | | 0.24 | |
| C3/C4 Merox typo 111 | 0.34 | | | 1.51 | |
| C3/C4 Merox type IV A stream | | | 0.10 | | 0.44 |
| C3/C4 Merox typo N B | 0.01 | | | 0.03 | |

| SUMMARY OF EMISSIONS | | | | | | |
|----------------------------------|-----------------------|----------------------|---------------------------|--------------------------|---------------------|-------------------------|
| Page 3 of 4 | | | | | | |
| Stream Description | POC Emissions (lb/hr) | POC Subtotal (lb/hr) | non-POC Emissions (lb/hr) | non-POC Subtotal (lb/hr) | POC Emissions (TPY) | non-POC Emissions (TPY) |
| Sulfur Recovery Unit - 4 (SRU4) | | 0.28 | | 0.46 | | |
| organic gas streams | 0.14 | | | | 0.61 | |
| non-organic gas streams | | | 0.28 | | | 1.23 |
| non-organic light liquid streams | | | 0.13 | | | 0.58 |
| organic heavy liquid streams | 0.14 | | | | 0.63 | |
| non-organic heavy liquid streams | | | 0.04 | | | 0.19 |
| Boiler 6 (BLR) | | 0.58 | | | | |
| fuel gas stream | 0.58 | | | | 2.52 | |
| Lube Hydrotreater (LHT) | | 1.06 | | 0.60 | | |
| gas streams | 0.41 | | | | 1.79 | |
| light liquid stream | 0.49 | | | | 2.14 | |
| sour water streams | | | 0.14 | | | 0.61 |
| feed and product oil streams | 0.08 | | | | 0.37 | |
| KO pot liquid streams | 0.00 | | | | 0.02 | |

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| | | | | | | |
|---|------|------|------|--|------|------|
| hydrogen streams | | | 0.46 | | | 2.00 |
| MDO streams | 0.08 | | | | 0.34 | |
| Heavy Cracked Gasoline Hydrotreater (HGHT) | | 3.00 | | | | |
| gas streams | 1.42 | | | | 6.21 | |
| light liquid streams | 1.35 | | | | 5.93 | |
| heavy liquid streams | 0.23 | | | | 1.01 | |
| Cat Reformate Bottom Column (CRB) | | 0.36 | | | | |
| feed | 0.06 | | | | 0.28 | |
| reflux and tops product | 0.15 | | | | 0.84 | |
| bottoms product | 0.08 | | | | 0.33 | |
| MDO streams | 0.07 | | | | 0.32 | |
| Cracked Gasoline Bottom Column (CGB) | | 0.12 | | | | |
| stream 1 | 0.03 | | | | 0.15 | |
| stream 2 | 0.02 | | | | 0.09 | |
| stream 3,5 | 0.07 | | | | 0.29 | |

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| SUMMARY OF EMISSIONS | | | | Page 4 of 4 | | |
|--|-----------------------|----------------------|---------------------------|--------------------------|---------------------|-------------------------|
| Stream Description | POC Emissions (lb/hr) | POC Subtotal (lb/hr) | non-POC Emissions (lb/hr) | non-POC Subtotal (lb/hr) | POC Emissions (TPY) | non-POC Emissions (TPY) |
| Distillate Saturation Unit - 2 (DSU2) | | 0.71 | | | | |
| gas streams | 0.12 | | | | 0.53 | |
| light liquid streams | 0.42 | | | | 1.85 | |
| heavy liquid streams | 0.09 | | | | 0.41 | |
| MDO streams | 0.08 | | | | 0.34 | |
| Flaring (FL) | | 1.22 | | | | |
| Not gas streams | 0.08 | | | | 0.35 | |
| flan gas | 0.75 | | | | 3.27 | |
| flan gas knock-out liquid | 0.34 | | | | 1.48 | |
| natural gas (methane) | 0.05 | | | | 0.23 | |
| Sour Water Strippers (SWS) | | 0.28 | | 0.47 | | |
| sour tops stream | | | 0.31 | | | 1.37 |
| recovered oil stream | 0.14 | | | | 0.62 | |
| sour water stream | 0.14 | | | | 0.62 | |
| stripped water stream | | | 0.15 | | | 0.67 |
| FXU Gasoline Splitter Column (KGS) | | 0.12 | | | | |
| stream 1 | 0.03 | | | | 0.15 | |
| stream 2 | 0.02 | | | | 0.09 | |
| stream 3,5 | 0.07 | | | | 0.29 | |
| Offsites Piping (LT) | | 1.37 | | 0.14 | | |
| heavy liquid stream (offsite) | 0.05 | | | | 0.21 | |
| light liquid stream (offsite) | 1.15 | | | | 5.02 | |
| pentanes loading | 0.10 | | | | 0.45 | |
| MDO streams | 0.07 | | | | 0.32 | |
| Pentane spheres pressure relief valves | | | | | | |
| olefins sphere pressure relief valves | 0.00 | | | | 0.01 | |
| ammonia supply | | | 0.14 | | | 0.61 |
| Heat Medium (HM) | | 0.66 | | | | |
| process streams | 0.16 | | | | 0.68 | |
| fuel gas | 0.50 | | | | 2.19 | |
| TOTAL EMISSIONS (lb/hr) | 44.18 | 44.18 | 3.37 | 3.37 | | |
| TOTAL EMISSIONS (lb/day) [24 hrs/day] | 1060.33 | 1060.33 | 80.78 | 80.78 | | |
| TOTAL EMISSIONS (TPY) [365 days/yr] | 193.51 | 193.51 | 14.74 | 14.74 | 193.51 | 14.74 |

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FIXED ROOF TANK CALCULATIONS

| DATA | SYM. | UNITS | S-4301 | S-4307 | S-4308 | S-4309 | S-4319 | S-4350 | S-4356 | SUBTOTAL |
|----------------------------------|---------|-----------|------------|--------|--------|--------|-----------|----------|----------|----------|
| Material Stored (Name) | | | Spent Acid | MDEA | DEA | DEA | Rcvrd Oil | Proc.WW | Proc. WW | |
| Material Stored (Code) | | | 201 | 106 | 106 | 106 | 318 | 201 | 201 | |
| Molecular Weight | Wv | lb/lb-mol | 96 | 119.16 | 105.14 | 105.14 | 50 | 50 | 50 | |
| Average Atmospheric Pressure | Pa | psia | 14.7 | 14.7 | 14.7 | 14.7 | 14.7 | 14.7 | 14.7 | |
| True Vapor Pressure | Pa | psia | 8.5 | 0.01 | 0.003 | 0.003 | 8.6 | 2.9 | 2.9 | |
| Tank Diameter | D | ft | 45 | 20 | 25 | 25 | 67 | 72 | 72 | |
| Average Vapor Space Height | H | ft | 13.3 | 6.7 | 8.3 | 8.3 | 20 | 18 | 18 | |
| Average Daily Temperature Change | delta T | deg F | 20 | 20 | 20 | 20 | 0 | 20 | 20 | |
| Paint Factor | Fp | | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | |
| Adjusted Factor For Small Tanks | C | | 1 | 0.9 | 0.96 | 0.96 | 1 | 1 | 1 | |
| Product Factor | Kc | | 1 | 1 | 1 | 1 | 0.665 | 0.65 | 0.65 | |
| Tank Capacity | V | gal | 336000 | 84000 | 84000 | 84000 | 1050000 | 1050000 | 1050000 | |
| Number of Turnovers | N | | 87.5 | 1 | 0.5 | 0.5 | 12.8 | 400 | 400 | |
| Turnover Factor | Kn | | 0.5 | 1 | 1 | 1 | 1 | 0.24 | 0.24 | |
| Standing Losses | Lb | lb/yr | 29612.8 | 46.5 | 31.7 | 31.7 | 0 | 11732.1 | 11732.1 | 53186.9 |
| Working Losses | Lw | lb/yr | 224733.6 | 2.4 | 0.3 | 0.3 | 90155.5 | 228009.6 | 228009.6 | 770911.3 |
| Total Losses | L | lb/yr | 254546.4 | 48.9 | 32 | 32 | 90155.5 | 239741.7 | 239741.7 | 824298.2 |
| Total Losses (Abated at 99.5%) | L | lb/yr | 1272.7 | N/A | N/A | N/A | 450.8 | 1196.7 | 1196.7 | 4116.9 |

EXTERNAL FLOATING ROOF TANK CALCULATIONS

| DATA | SYM. | UNITS | S-1129 | S-1130 | S-1131 | S-4310 | S-4321 | S-4325 |
|----------------------------------|------|--------------|---------|--------|--------|----------|----------|-----------|
| Material Stored (Name) | | | GASO | GASO | GASO | Sour H2O | DCU Feed | Isom Feed |
| Material Stored (Code) | | | 186 | 186 | 186 | 201 | 318 | 186 |
| Seal Factor | Ks | | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| Average Wind Speed at Tank Site | V | mi/hr | 6.49 | 6.49 | 6.49 | 6.49 | 6.49 | 6.49 |
| Wind Related Wind Speed Exponent | n | | 1 | 1 | 1 | 1 | 1 | 1 |
| Average Atmospheric Pressure | Pa | psia | 14.7 | 14.7 | 14.7 | 14.7 | 14.7 | 14.7 |
| True Vapor Pressure | Pa | psia | 0.2 | 5.2 | 3.8 | 0.01 | 0.1 | 7.5 |
| Vapor Pressure Function | P* | | 0.0034 | 0.1067 | 0.0746 | 0.0002 | 0.0017 | 0.1786 |
| Tank Diameter | D | ft | 150 | 150 | 150 | 110 | 150 | 110 |
| Molecular Weight | Mv | lb/lb-mol | 85 | 87 | 87 | 220 | 180 | 85 |
| Product Factor | Kc | | 1 | 1 | 1 | 1 | 1 | 1 |
| Throughput | Q | bbbl/yr | 1800000 | 800000 | 800000 | 25500000 | 9100000 | 1950000 |
| Shell Clingage Factor | C | bbbl/1000ft2 | 0.0015 | 0.0015 | 0.0015 | 0.0015 | 0.006 | 0.0015 |

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| | | | | | | | | |
|--------------------------------|----|--------|-------|--------|--------|--------|--------|--------|
| Average Organic Liquid Density | Wl | lb/gal | 5.8 | 5.8 | 5.7 | 7.3 | 8.3 | 5.8 |
| Number of Columns | Nc | | 0 | 0 | 0 | 0 | 0 | 0 |
| Effective Column Diameter | Fc | | 0 | 0 | 0 | 0 | 0 | 0 |
| Rim Losses | Lr | lb/yr | 56.7 | 1841.4 | 1264.2 | 6.3 | 59.8 | 2142.9 |
| Withdrawl Losses | Lw | lb/yr | 96.4 | 43.8 | 43 | 2393.7 | 2649 | 145.4 |
| Roof Fitting Losses | | lb/yr | 26 | 844 | 579 | 22 | 541 | 1073 |
| Total Losses | L | lb/yr | 181.1 | 2729.1 | 1886.2 | 2422 | 3449.8 | 3361.4 |

EXTERNAL FLOATING ROOF TANK CALCULATIONS Continued....

| DATA | SYM. | UNITS | S-4333 | S-4334 | S-4335 | S-4336 | S-4354 | S-4355 | SubTotal |
|----------------------------------|------|-------------|---------|---------|---------|----------|---------|---------|----------|
| Material Stored (Name) | | | Dimate | Alky | Crude 1 | Crude 2 | Crude 3 | Crude 4 | |
| Material Stored (Code) | | | 126 | 126 | 89 | 89 | 89 | 89 | |
| Seal Factor | Ks | | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | |
| Average Wind Speed at Tank Site | V | mi/hr | 6.49 | 6.49 | 6.49 | 6.49 | 6.49 | 6.49 | |
| Seal Related Wind Speed Exponent | n | | 1 | 1 | 1 | 1 | 1 | 1 | |
| Average Atmospheric Pressure | Pa | psia | 14.7 | 14.7 | 14.7 | 14.7 | 14.7 | 14.7 | |
| True Vapor Pressure | Pa | psia | 3.1 | 4.6 | 2.6 | 2.6 | 1.5 | 1.5 | |
| Vapor Pressure Function | P* | | 0.0591 | 0.0936 | 0.0486 | 0.0486 | 0.0289 | 0.0289 | |
| Tank Diameter | D | ft | 134 | 123 | 110 | 230 | 150 | 150 | |
| Molecular Weight | Mv | lb/lb-mol | 86 | 114 | 75 | 75 | 86 | 86 | |
| Product Factor | Kc | | 1 | 1 | 0.4 | 0.4 | 0.4 | 0.4 | |
| Throughput | Q | bbl/yr | 1050000 | 1950000 | 5200000 | 10400000 | 6800000 | 6800000 | |
| Shell Clingage Factor | C | bbl/1000ft2 | 0.0015 | 0.0015 | 0.006 | 0.006 | 0.006 | 0.006 | |
| Average Organic Liquid Density | Wl | lb/gal | 7.1 | 5.8 | 6.4 | 6.4 | 8 | 8 | |
| Number of Columns | Nc | | 0 | 0 | 0 | 0 | 0 | 0 | |
| Effective Column Diameter | Fc | | 0 | 0 | 0 | 0 | 0 | 0 | |
| Rim Losses | Lr | lb/yr | 884.6 | 1703.6 | 206.3 | 435.5 | 180.2 | 180.2 | 8961.7 |
| Withdrawl Losses | Lw | lb/yr | 78.7 | 130.1 | 1711.8 | 1637.4 | 2052 | 2052 | 13033.3 |
| Roof Fitting Losses | | lb/yr | 406 | 799 | 104 | 201 | 83 | 83 | 4761 |
| Total Losses | L | lb/yr | 1371.6 | 2632.6 | 2024.1 | 2273.8 | 2315.1 | 2315.1 | 26961.9 |

| Tanks (H2SO4 & NH3) | | | | | | | | | |
|------------------------------|------------|------------|---------------------|----------------------|----------|------------------|---------------------|------------------|----------------|
| Description of Tank | Source No. | Exemption | Throughput (gal/yr) | Volume of Tank (gal) | Mil. Wt. | Density (lb/gal) | Vapor Press. (psia) | Emission (lb/yr) | Emission (g/s) |
| Sulfuric Acid Tank | S-4346 | Not Exempt | 16800000 | 336000 | 96 | 15 | 0.02 | 774.8 | 1.12E-02 |
| Aqueous Ammonia Storage Tank | S-4348 | 2-1-123.2 | 459900 | 42000 | 34 | 7.7 | 4.6 | 1692.5 | 2.44E-02 |

Other Sources

| Description | Source No. |
|-------------|------------|
| Sulfur Pit | S-4347 |

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Pressure Tanks

| Description of Tank | Source No. |
|--------------------------------|------------|
| Perchloroethylene Storage Tank | S-4311 |
| Perchloroethylene Storage Tank | S-4312 |
| Pentane Tank | S-4329 |
| Pentane Tank | S-4330 |
| Pentane Storage Tank | S-4349 |
| Olefin Storage Tank | S-4351 |

Note: Negligible emissions are assumed for pressure tanks, per EPA "Compilation For Air Pollution Emission Factors" (AP-42). Supplement E, Section 12.1.

Exempt Tanks

| Description of Tank | Source No. | Exemption |
|---------------------|------------|-------------|
| Sludge Thickener | S-4320 | 2-1-123.3.2 |
| LPG Storage Tank | S-4352 | 2-1-123.3.1 |
| Butane Storage Tank | S-4353 | 2-1-123.3.1 |

Note: No emissions are estimated from pressure and sphere storage tanks.

Exempt Tanks (Non-Caustic & Non-Organic)

| Description of Tank | Source No. | Exemption |
|-------------------------------|------------|-------------|
| OCU Water Tank | S-4302 | 2-1-123.3.2 |
| OCU Slurry Tank | S-4303 | 2-1-123.3.2 |
| Condensate Tank | S-4305 | 2-1-123.3.2 |
| Rich Caustic Tank | S-4304 | 2-1-123.3.2 |
| Fresh Caustic Tank | S-4306 | 2-1-123.3.2 |
| Fresh Caustic Tank | S-4340 | 2-1-123.3.2 |
| Fresh Caustic Tank | S-4341 | 2-1-123.3.2 |
| Fresh Caustic Tank | S-4342 | 2-1-123.3.2 |
| Fresh Caustic Tank | S-4343 | 2-1-123.3.2 |
| Stripped Neutral Caustic Tank | S-4344 | 2-1-123.3.2 |
| Tank Regenerated Caustic Tank | S-4345 | 2-1-123.3.2 |

Note: S-4302, S-4303, and S-4305 contain mixtures of H₂O and other non-volatile compounds. Hence, no emissions are estimated. The tanks named as caustic in this action all contain NaOH. NaOH has a vapor pressure of approximately 0 psia. Hence no emissions are estimated.

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TOXICS

| Source No. | Emission (lb/yr) | Benzene (ppm) | Butadiene (ppm) | Toluene (ppm) | Benzene (g/s) | Butadiene (g/s) | Toluene (g/s) |
|------------------|------------------|---------------|-----------------|---------------|---------------|-----------------|---------------|
| S-4325 Isom Feed | 3361.4 | 12345 | | 1.29 | 5.97E-04 | | 6.24E-06 |
| S-4333 Dimate | 1371.3 | 10065 | 248 | | 1.99E-04 | 4.90E-06 | |
| S-4334 Alkylate | 2632.6 | | 7142 | | | 2.71E-04 | |
| S-4335 Crude #1 | 2024.1 | 13509 | | | 3.94E-04 | | |
| S-4336 Crude #2 | 2273.6 | 9944 | | | 3.25E-04 | | |

APPENDIX B-4 COKE HANDLING PARTICULATE EMISSIONS

Coke Handling Drop Operations:

Emission Factor: The emission factor to estimate PM emissions generated during all the coke batch drop operations are estimated by using the AP-42 empirical expression for aggregate handling (ref: AP-42 11.2.3.3 eq.1), Following is the emirical equation for PM in pounds per ton of material transferred:

$$E = k(0.0032) \frac{(U/5)^{1.3}}{(M/2)^{1.4}} \text{ lbs/ton}$$

where: E = Emission factor, lb/ton
 k = Particle size multiplier (dimensionless)
 U = mean wind speed, mph
 M = material moisture content, %

For k, a 0.74 aerodynamic particle size multiplier is used for petroleum coke <30 um. The mean wind speed, U, in the facility vicinity is 9 mph. The equation above is uncontrolled emissions for materials with a moisture content of between 0.25% to 4.8%. The uncontrolled moisture content of petroleum coke is typically 4% - 6%. The uncontrolled material moisture content, M, is assumed to be 4.8%.

The uncontrolled emission factor for the batch drop operations is:

$$E = (0.74)(0.0032) \frac{(9/5)^{1.3}}{(4.8/2)^{1.4}}$$

$$E = 0.00149 \text{ lb/ton}$$

PM emission rates are Based on 0.00149 lb/ton uncontrolled PM and the maximum annual coke production rate of 1,095,000 ton/yr. A 70% weight fraction of PM10 emitted from drop operations (ref. CARB). A 95% control factor for wet suppression at the coke drum drop operations, the operation involves an approximately a 0.4:1 water to coke release rate from the coke drums. A 90% control factor for wet suppression methods at the crusher and coke barn drop

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operations which result in a minimum 8% moisture content, and a 70% control factor for wet suppression methods at the railcar loading drop operations. A 90% control factor is used for enclosure of any of the drop operations. Batch Drop operations include adding aggregate material to a storage pile or removing it. Batch Drop operations at Shell occur at the coke drum drop operations, the load out from the coke barn and drop loading onto railcar.

Coke Drum Drop Operations

PM : $(1,095,000 \text{ T/yr})(0.00149 \text{ lb/ton})(1-0.95) = 82 \text{ lbs/yr}$
PM10 : $(82 \text{ lbs PM/yr})(0.70 \text{ wt fraction PM10}) = 57 \text{ lbs/yr}$

APPENDIX B-4 COKE HANDLING PARTICULATE EMISSIONS

COKE BARN LOAD OUT

PM: $(1,095,000 \text{ T/yr})(0.00149 \text{ lb/ton})(1-0.7)(1-0.9) = 49 \text{ lbs/yr}$
PM10 : $(49 \text{ lbs PM/yr})(0.70 \text{ wt fraction PM10}) = 34 \text{ lbs/yr}$

RAILCAR DROP LOADING

PM : $(1,095,000 \text{ T/yr})(0.00149 \text{ lb/ton})(1-0.70) = 489 \text{ lbs/yr}$
PM10 : $(489 \text{ lbs PM/yr})(0.70 \text{ wt fraction PM10}) = 342 \text{ lbs/yr}$

COKE TRANSFER AND CONVEYING

Emission rates are based on a 0.023 lb PM/ton coke transfer and conveying emission factor (Ref.EPA-450/3-77-010, Technical Guidance for Control of Industrial Process Fugitive Particulate Emissions, Table 2-1) and the maximum annual coke production rate of 1,095,000 ton/yr. Fraction of PM10 emitted is 70% by weight (ref. CARB). A 90% control factor for wet suppression methods which will result in a minimum 8% moisture content of the coke during transfer and conveying operations. Coke Transfer and conveying operations at Shell include transfer/conveyors to move the coke from the coke drum drop operations to the crusher and transfer/conveyor from the crusher to the coke barn. A 90% control factor is used for the enclosure of the conveyors and all transfer points.

PM: $(1,095,000 \text{ T/yr})(0.023 \text{ lb/ton})(1-0.9)(1-0.9) = 252 \text{ lbs/yr}$
PM10: $(252 \text{ lbs PM/yr})(0.70 \text{ wt fraction PM10}) = 176 \text{ lbs/yr}$.

CRUSHER

Emission rates are based on a 0.018 lb PM/ton stone crushing operation (Ref.AP-42 Section 8.19.2-4, Table 8.19.2-1). A petroleum coke crushing emission factor was not located. However, the stone crushing section of AP-42 includes several classes of material which are covered by stone crushing, use of this emission factor will give a

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conservative factor because it is based on 4% moisture content. Also used in the estimation of emissions is the maximum annual coke production rate of 1,095,000 ton/yr.

Fraction of PM₁₀ emitted is 10% by weight (ref. CARB). A 90% control factor for wet suppression methods which will result in a minimum 8% moisture content of the coke during crushing operations.

PM: (1,095,000 T/yr)(0.018 lb/ton)(1-0.90) = 1971 lbs/yr

PM10: (1971 lbs PM/yr)(0.10 wt fraction) = 197 lbs/yr

APPENDIX B-4 COKE HANDLING PARTICULATE EMISSIONS

AGGREGATE STORAGE PILES.

The emission factor is based a storage pile fugitive emission factor formula for coke (Ref.EPA-450/3-77-010, Technical Guidance for Control of Industrial Process Fugitive Particulate Emissions, Table 2-1). The formula is:

$$E = \frac{(0.11)(S/1.5)D}{(PE/100)^2 90}$$

where E = emission factor, lb PM/ton
S = Silt of coke, %
D = duration of storage, days
PE = Thornthwaite's precipitation-evaporation index

The silt of coke is 1%, the maximum duration of storage is 5 days, The precipitation evaporation index for the Bay Area is 44.

therefore, $E = \frac{(0.11)(1/1.5)5}{(44/100)^2 90}$

$$E = 0.021 \text{ lb/ton}$$

The emission rate is based on the 0.021 lb/ton emission factor and the maximum annual coke production rate of 1,095,000 ton/yr. Fraction of PM10 emitted is 70% by weight (ref: CARB). A 90% control factor is used for wet suppression methods to control the moisture content of the coke to 8%. A 90% control factor for an enclosure without openings which act as wind tunnel.

PM: (1,095,000 T/yr)(0.021 lb/ton)(1-0.9)(1-0.9) = 230 lbs/yr

PM10: (230 lbs PM/yr)(0.70 wt fraction PM10) = 161 lbs/yr

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Industrial Paved / Unpaved Roads

There will be no hauling of any kind of the DCII coke on paved or unpaved roads at Shell: See conditions for coke operations which do not allow this activity.

APPENDIX B-4 COKE HANDLING PARTICULATE EMISSIONS

Delayed Coke Material Handling Operations:

Particulate Emission Summary

| | PM (lb/yr) | PM10 (lb/yr) |
|----------------------|---------------|-----------------|
| Drop Operations | 620 | 433 |
| Transfer & Conveying | 252 | 176 |
| Crusher | 1971 | 197 |
| Storage Piles | 230 | 161 |
| Total | 3073 | 967 |
| (Total in lbs/day) | (8.4) | (2.6) |
| (Total in TPY) | (1.54) | (0.48) |

Toxics Compound Emission Rates

| | PPMW | PM (TPY) $\times 10^{-6}$ | PM10 (TPY) $\times 10^{-6}$ |
|-----------------------|----------|---------------------------------|-----------------------------------|
| Arsenic | 1.3 | 2.00 | 0.62 |
| Bromine | 3 | 4.62 | 1.44 |
| Chlorine | 40 | 61.60 | 19.20 |
| Iron | 348 | 535.92 | 167.04 |
| Manganese | 1.3 | 2.00 | 0.62 |
| Nickel | 700 | 1078.00 | 336.00 |
| Selenium | 2.6 | 4.00 | 1.25 |
| Vanadium | 500 | 770.00 | 336.00 |
| Zinc | 7 | 10.78 | 3.36 |
| Chromium | 4 | 6.16 | 1.92 |
| Chromium ₆ | 0.2 | 0.308 | 0.096 |
| Beryllium | <0.5 ppb | 0.00077 | 0.00024 |
| Aluminum | 161 | 247.94 | 77.28 |

Toxics Compound Emission Rates, in grams per second

| | PPMW | PM (g/sec) $\times 10^{-6}$ | PM10 (g/sec) $\times 10^{-6}$ |
|-----------|------|-----------------------------------|-------------------------------------|
| Arsenic | 1.3 | 0.057 | 0.018 |
| Bromine | 3 | 0.132 | 0.041 |
| Chlorine | 40 | 0.006 | 0.0546 |
| Iron | 348 | 15.36 | 4.754 |
| Manganese | 1.3 | 0.057 | 0.018 |

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| | | | |
|-------------------------|----------|---------|----------|
| Nickel | 700 | 30.90 | 9.563 |
| Selenium | 2.6 | 0.115 | 0.036 |
| Vanadium | 500 | 22.07 | 6.831 |
| Zinc | 7 | 0.309 | 0.096 |
| Chromium | 4 | 0.177 | 0.055 |
| Chromium _{1,6} | 0.2 | 0.009 | 0.003 |
| Beryllium | <0.5 ppb | 0.00002 | 0.000007 |
| Aluminum | 161 | 7.106 | 2.200 |

APPENDIX B-5 RAIL TRANSPORT EMISSIONS

Fuel usage calculations are based on roundtrip (1/2 loaded, 1/2 empty).

$$U = H + S,$$

$$H = [(P * Dh) + (N * W * Rh)] * Fh / 1000, \text{ and}$$

$$S = [(P * Ds / 5280) + (N * W * Rs / 5280)] * Fs / 1000; \text{ where:}$$

- U = fuel usage per product transported (gal/yr)
- H = fuel usage during hauling per product transported (gal/yr)
- S = fuel usage during switching per product transported (gal/yr)
- P = product mass (tons/yr)
- Dh = one-way haul distance (miles)
- N = number of railcars per year
- W = weight of empty railcar (tons)
- Rh = roundtrip haul distance (miles)
- Fh = fuel usage factor for hauling (gal/1000 ton miles)
- Ds = one-way switching distance (feet)
- Rs = roundtrip switching distance (feet)
- Fs = fuel usage factor for switching (gal/1000 ton miles)

| Product | Product hauled (tons / yr) | Fuel Usage-hauling (gal / yr) | Fuel Usage-switching (gal / yr) |
|-------------------------------------|-------------------------------|----------------------------------|------------------------------------|
| Coke: | 1,095,000 | 74,865 | 46 |
| Pentane: | 701,190 | 31,427 | 11 |
| Butane: | 113,190 | 6,595 | 2 |
| LPG: | 200,340 | 9,942 | 3 |
| Sulfuric Acid/Sulfur: | 220,500 | 9,967 | 7 |
| TOTALS | | 132,796 | 69 |
| TOTAL FUEL USAGE (gal / yr): | | | 132,865 |

CRITERIA POLLUTANT EMISSIONS

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| Pollutant | Emission Factor (lb/1000 gal) | Emissions (TPY) |
|-----------|----------------------------------|--------------------|
| CO | 160 | 10.6 |
| HC | 28 | 1.9 |
| NOx | 330 | 21.9 |
| SOx | 57 | 3.8 |
| PM | 25 | 1.7 |

* From AP-42: CO, HC, and NOx from Table II-2.2, and Sox and PM from Table II-2.1 (Dated 4 / 73)

APPENDIX B-5 RAIL TRANSPORT EMISSIONS

ASSUMPTIONS:

- All products delivered to either Stockton or out-of-state via eastern Route

- One-way haul distance [miles]: 23 Estimated rail distance between MMC railcar departure point and eastern air district boundary (Travis Air Force Base/Vacaville area).

- Railcar increase [cars/yr]

| | |
|-----------------------|--------|
| Coke: | 10,950 |
| Pentane: | 1,500 |
| Butane: | 750 |
| LPG: | 750 |
| Sulfur/Sulfuric Acid: | 500 |

- Product Production

| | | |
|-----------------------|----------|------------|
| Coke: | 3000 | (tons/day) |
| Pentane: | 6.30E+06 | (bbl/yr) |
| Butane: | 1.10E+06 | (bbl/yr) |
| LPG: | 1.80E+06 | (bbl/yr) |
| Sulfur/Sulfuric Acid: | 7.00E+05 | (bbl/yr) |

- Product Densities [lb/gal]

| | |
|-----------------------|-----|
| Coke: | - |
| Pentane: | 5.3 |
| Butane: | 4.9 |
| LPG: | 5.3 |
| Sulfur/Sulfuric Acid: | 15 |

VI. Permit Conditions

- 2-Stroke turbocharged road engine emissions factors for hauling and switching activities
- Southern Pacific Railroad (SP) operates switching and hauling/transport
- Empty railcar weight [tons] = 39 (for hopper and tank cars)
- Switching distances (distance from car loading to main rail line) [feet]

| | | |
|-----------------------|-------|----------------------------------|
| Coke: . | 4,200 | (K/L B - F 4/5 on facility grid) |
| Pentane: | 1,500 | (E/L 8 - F 4/5 on facility grid) |
| Butane: | 1,500 | (E/L 8 - F 4/5 on facility grid) |
| LPG: | 1,500 | (E/L 8 - F 4/5 on facility grid) |
| Sulfur/Sulfuric Acid: | 3,300 | (I 11 - F 4/5 on facility grid) |
- Fuel usage factors (provided by Sandra Lopez, BAAQMD) [gal/1000 gross ton miles]

| | |
|-------------------------|--------|
| SP Railroad (switching) | 0.0526 |
| SP Railroad (transport) | 1.67 |

APPENDIX B.6 COOLING TOWER POC EMISSIONS

Per EPA publication entitled "Compilation of Air Pollutant Emission Factors", (AP 42) Table 9.1-2, the POC emission factor for cooling towers is 0.70 pounds per 106 gallons of cooling water.

POC emissions:

$$\frac{(3.3 \text{ MMgal})(0.7 \text{ lb/Mmgal})(24 \text{ hr/day})(365 \text{ day/yr})}{2000 \text{ lb/ton}}$$

= **10.1 ton/yr POC**

VI. Permit Conditions

APPENDIX B-7 SULFUR RECOVERY UNIT NO. 4 EMISSIONS

From information provided by Shell, the SRU-4 is being designed based upon the sulfur loading to the Tailgas Thermal Oxidizer provided below.

| | Sulfur Loading <u>lb-m/hr</u> | Exhaust Flow <u>lb-m/hr</u> | Exhaust <u>PPM</u> | Conc. |
|---------------|----------------------------------|--------------------------------|-----------------------|-------|
| SCOT Unit | 0.0898 | 806.8 | 64.3 | |
| Sulfur Pit | 0.0551 | 27.4 | 39.5 | |
| Oxidizer Fuel | 0.003 | 561.6 | 2.2 | |
| Totals: | 0.1479 | 1395.8 | 106.0 | |

Based on the District's BACT determination, SO₂ emissions from the Tailgas Thermal Oxidizer are limited to 50 ppm (excluding the SO₂ emissions that result from controlling the sulfur pit). Based on the total exhaust flow of 1395.8 lb-m/hr, 50 ppm corresponds to:

$$(50 \times 10^{-6}) (1395.8 \text{ lb-m/hr}) = \underline{0.06981 \text{ lb-m/hr}}$$

This sulfur loading of 0.0698 lb-m/hr includes sulfur from the SCOT unit and from the fuel. Total sulfur loading, including the sulfur pit contribution is:

$$(0.0698 + 0.0551 \text{ lb-m/hr}) = \underline{0.12491 \text{ lb-m/hr}}$$

Based upon this sulfur loading, total SO₂ emissions are:

$$(0.1249 \text{ lb-m/hr}) (8760 \text{ hr/yr}) (64 \text{ lb SO}_2/\text{lb-m}) (\text{ton}/2000\text{lb}) = \mathbf{35.0 \text{ ton/yr SO}_2}$$

VI. Permit Conditions

Condition # 12911

For S1426, CP Catalytic Cracking Unit (CCU):

1. The Additive Catalyst Storage and Injection System associated with the CP Catalytic Cracking Unit (CCU) (S1426) shall be abated by the Catalyst Additive Storage and Injection System for CCU (A1427) Baghouse (A1427). [basis: BACT]
2. A visible emission that is darker than No. 0.5 on the Ringelmann Chart, or of such opacity as to obscure an observer's view to an equivalent or greater degree, shall not be emitted from the Baghouse (which is integral to the Catalyst Storage and Injection System) for a period or periods aggregating more than three minutes in any hour. [basis: BACT]
3. The exhaust from S1426 shall be vented to S1507, S1509, and/or S1512, unless allowed per Condition 18407. [basis: Regulation 2-6-409.2]
4. The water seal of the CCU (S-1426) dump stack shall be maintained such that a water seal exists. If a breakthrough of the water seal at the CCU (S-1426) dump stack is detected, the District may assume the opacity of unabated emissions vented via the dump stack (hereinafter bypass event) has exceeded the Ringelmann No. 1 standard (20% opacity) in Regulation 6-1-302, except where it can be confirmed that the dump stack was not used or an opacity excess did not occur. When a breakthrough of the water seal occurs, CARB certified personnel may be employed/contracted by the owner/operator to conduct a visible emission evaluation to confirm that the bypass event did not result in an opacity excess, the owner/operator shall conduct a visible emission inspection and the owner/operator shall initiate corrective action to restore the water seal. The BAAQMD shall be notified within 24 hours if breakthrough of the water seal is detected, and a report summarizing the root cause of the problem shall be submitted to the Director of the District's Compliance & Enforcement Division within 60 days of the notification date. For each bypass event, the Causal Analysis report shall quantify emissions of particulate matter, precursor organic compounds, carbon monoxide, and sulfur dioxide. In addition, the Causal Analysis report shall evaluate compliance with Regulations 6-1-305, 6-1-310, 6-1-311, 8-2-301, 9-1-310, and the emission limits/standards outlined in 40 CFR 60, Subpart J and 40 CFR 63, Subpart UUU. [basis: Regulations 1-441, 2-1-403, 6-1-301-302]
5. A continuous level monitor shall be installed on the water seal compartment of the CCU (S-1426) dump stack, including continuous data historization for the parametric level monitor, and maintain the instrument in good operating condition at all times.[basis Regulation 1-523]. Water level records shall be maintained for a period of at least 5 years from the date of entry and shall be made available to the APCO upon request. ~~Any occurrence of visible emissions detected during water seal breakthrough shall also be recorded.~~ [basis: Regulation 6-1-301]

VI. Permit Conditions

~~Condition # 14098~~

~~For S1598, MAINT Gasoline Dispensing Facility:~~

- ~~1. Pursuant to BAAQMD Toxic Section Policy, this facility's annual gasoline throughput shall not exceed 940,000 gallons in any consecutive 12 month period. [basis: Cumulative Increase, Toxics]~~
- ~~2. To determine compliance with the above condition, the owner/operator shall maintain monthly throughput records. All records shall be recorded in a log. All records shall be retained on site for five years, from the date of entry, and made available for inspection by District staff upon request. These recordkeeping requirements shall not replace the recordkeeping requirements contained in any applicable District Regulations. [basis: Cumulative Increase, Toxics]~~

VI. Permit Conditions

Condition # 16688

For

S1480, LUBS F-69 Asphalt Circulation
S1481, OPCEN F-30 DSU
S1483, LUBS F-32 Asphalt Circulation
S1486, DH F-40 CU Feed
S1487, DH F-41B VFU Feed
S1488, DH F-41A VFU Feed
S1490, DH F-43 GOHT Feed
S1491, DH F-44 NHT Feed
S1492, DH F-45 Primary Column Reboil
S1493, DH F-46 Stabilizier Reboil
S1494, DH F-47 Secondary Column Reboil
S1495, DH F-49 CRU Preheat
S1496, DH F-50 CRU
S1497, DH F-51 CRU
S1498, DH F-52 CRU Reboil
S1499, DH F-53 CRU Regen
S1500, DH F-55 SGP Heat Medium
S1502, DH F-57 HCU First Stage Feed
S1503, DH F-58 HCU Second Stage Feed
S1504, DH F-59 HCU Second Stage Reboil
S1505, DH F-60 HP1 Steam Methane Reformer
S1506, CPF-61 CGP Feed
S1508, CP F-63 CFH Feed
S1510, CP F-66 CCU Preheat
S1511, CP F-67 CCU LGO Reboil
S1515, DH F-71 HCU First Stage Reboil
S1760, OPCEN F-102 FXU Steam Superheater
S1761, OPCENF-104 HP2 Steam Methane Reformer
S1762, DH F-128 CRU Interheater
S1763, DH F-126 CU Feed
S1800, UTIL F-88 Boiler 5
S4002, DC F-13425-A DCU
S4003, DC F-13425-B DCU
S4021, DC F-13909 DHT Recycle
S4031, DC F-14012 HGHT Reboil
S4141, DC F-14011 HGHT Feed
S4161, DC H-101 HP3 Steam Methane Reformer

1. Each combustion source listed below shall not exceed its indicated maximum firing rate (higher heating value), expressed in the units of million BTU per day (MM BTU/day). These firing rates are sustainable maximum firing rates. The sustainable hourly firing rates, used for billing purposes, are established by dividing the maximum daily firing rates by 24 hours.

VI. Permit Conditions

| Source Description | Enforceable Limit MM BTU/day | Used for Fees MM BTU/hr |
|--|------------------------------------|-------------------------------|
| S1480 LUBS F-69 Asphalt Circulation | 600599 | 25 |
| S1481 OPCEN F-30 DSU | 600599 | 25 |
| S1483 LUBS F-32 Asphalt Circulation | 480 | 20 |
| S1486 DH F-40 CU Feed | 8976 | 374 |
| S1487 DH F-41B VFU Feed | 3600 | 150 |
| S1488 DH F-41A VFU Feed | 3600 | 150 |
| S1490 DH F-43 GOHT Feed | 792 | 33 |
| S1491 DH F-44 NHT Feed | 1248 | 52 |
| S1492 DH F-45 Primary Reboil | 2496 | 104 |
| S1493 DH F-46 Stabilizer Reboil | 1320 | 55 |
| S1494 DH F-47 Secondary Column Reboil | 1104 | 46 |
| S1495 DH F-49 CRU Preheat | 4560 | 190 |
| S1496 DH F-50 CRU | 5400 | 225 |
| S1497 DH F-51 CRU | 2544 | 106 |
| S1498 DH F-52 CRU Reboil | 936 | 39 |
| S1499 DH F-53 CRU Regen | 744 | 31 |
| S1500 DH F-55 SGP Heat Medium | 4008 | 167 |
| S1502 DH F-57 HCU First Stage Feed | 1464 | 61 |
| S1503 DH F-58 HCU Second Stage Feed | 1548 | 66 |
| S1504 DH F-59 HCU Second Stage Reboil | 4224 | 176 |
| S1505 DH F-60 HP1 Steam Methane Reformer | 13200 | 550 |
| S1506 CP F-61 CGP Feed | 600599 | 25 |
| S1508 CP F-63 CFH Feed | 4440 | 185 |
| S1510 CP F-66 CCU Preheat | 4800 | 200 |
| S1511 CP F-67 CCU LGO Reboil | 1440 | 60 |
| S1514 UTIL F-70 Boiler 4 | 9816 | 409 |
| S1515 DH F-71 HCU First Stage Reboil | 2640 | 110 |
| S1760 OPCEN F-102 FXU Steam Superheater | 3336 | 139 |
| S1761 OPCEN F-104 HP2 Steam Methane Reformer | 11424 | 476 |
| S1762 DH F-128 CRU Interheater | 4800 | 200 |
| S1763 DH F-126 CU Feed | 5280 | 220 |
| S1800 UTIL F-88 Boiler 5 | 5376 | 224 |
| S4002 DC F-13425A DCU | 2520 | 105 |
| S4003 DC F-13425B DCU | 2520 | 105 |
| S4021 DC F-13909 DHT Recycle | 1176 | 49 |
| S4031 DC F-14012 HGHT Reboil | 1176 | 49 |
| S4141 DC F-14011 HGHT Feed | 768 | 32 |
| S4161 DC H-101 HP3 Steam Methane Reformer | 21840 | 910 |

[basis: Regulation 2-1-234]

VI. Permit Conditions

Condition # 17532
For S1514, UTIL F-70 Boiler 4

1. Only gaseous fuel shall be burned in S-1514. (Basis: Reg. 1-520.1)
2. Startup Condition Deleted.
3. The owner/operator shall operate S1514 to not exceed ~~0.050~~0.045 lb NOx/MMBTU (HHV) based on a rolling hourly 8760-hour average heat input. ~~The annual average heat input rate used to calculate the allowable (potential to emit) NOx emissions shall be the source's maximum permitted daily heat input rate of 9816 MMBTU (HHV)/day expressed on a 24 hour basis as 409 MMBTU (HHV)/hr.~~ Compliance with the NOx emission rate (in lb NOx/MMBTU) shall be determined using data gathered by NOx CEMS and fuel flow meters.
[basis: Shell-EPA Consent Decree]
4. The owner/operator shall ensure that the allowable NOx emissions from S1514 do not exceed 80.61 tons per year. The allowable NOx emissions shall include emissions associated with startups, shutdowns, upsets and malfunctions.
(Basis: Shell-EPA Consent Decree)

Condition # 17533
For S1507, UTIL CO Boiler 1
S1509, UTIL CO Boiler 2
S1512, UTIL CO Boiler 3:

1. Condition deleted.
2. In no event shall the ammonia (NH3) exhaust outlet concentration exceed 50 ppmv, at 3% O2, averaged over 3 hours. [basis: Toxics]
3. The owner/operator of this source shall install a continuous emission monitor (CEM) and recording system for NH3 in each CO Boiler stack if there are 3 separate violations of condition number 2 in any consecutive 12 month period. The NH3 CEM and recording system shall be installed within 12 months after the first time three violations, in a consecutive 12 month period, of condition number 2 occurs. The type of NH3 CEM and recording instrumentation installed is subject to prior approval from the District Source Test Section. The owner/operator, upon installation of the CEM, shall conduct a Field Accuracy Test that meets the approval of the District Source Test Section. [basis: Toxics]
4. Condition deleted.

VI. Permit Conditions

5. The Urea injection system shall be automatically controlled during all periods of its use. [basis: Offsets]
6. (A/C startup condition deleted)
7. (A/C startup condition deleted)
8. In order to demonstrate compliance with condition number 2, the owner/operator shall conduct a source test for ammonia emissions during operation of the urea injection at either S1507, S1509 or S1512 at least once every year. The source test procedure and reporting of results to the District is subject to approval by the District Source Test Section. Test results shall be submitted to the District within 60 days of the date of the source test. If an ammonia CEM is installed, the yearly source tests can be discontinued except when necessary to demonstrate monitor performance. (Revised 9/6/95) The frequency of source testing required under this condition shall be reduced to once every five years if three consecutive annual source tests document that emissions are less than 50 percent of the standard. The frequency of source testing shall revert back to once per year, if a source test documents that emissions are 50 percent of the standard or more. The source testing frequency can again be reduced to once every five years if another three consecutive annual source tests document that emissions are less than 50 percent of the standard. [basis:Toxics]
9. The owner/operator of this source shall maintain daily records of Urea usage, temperature, and stack NOx (in ppmv corrected to 3% oxygen averaged over 1 hour and in pounds per day). The record keeping format is subject to the approval of the District Source Test Section. [basis: Offsets]
10. A temperature indicator and recorder shall be installed in the CO Boiler to measure the temperature at the area of Urea injection. [basis: Offsets]
11. In the event the APCO determines that the stack opacity is in excess of District Regulation 6, Rule 1, Visible emissions, the owner/operator shall immediately curtail use of the Urea injection system to the extent required to abate the excessive emissions. [basis: Regulation 6-1-301]
12. The owner/operator shall retain and make available upon request by the District any additional source test results performed to evaluate the Urea injection system. [basis: Offsets, Toxics]
13. Each CO Boiler exhaust point shall be equipped with a District approved NOx and O2 continuous emission monitor and recording system. [basis: Offsets]
14. The owner/operator of the NOx monitor and O2 monitor shall conduct a Field Accuracy Test in accordance with the BAAQMD Manual of Procedures. Following the BAAQMD review and approval of the test results, the CEM monitors shall be used by the owner/operator for tracking daily NOx emissions under the Condition # 7618. [basis:

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Offsets]

15. In the event the CEM system is rendered inoperable for greater than 24 hours, or fails an accuracy test, the NOx emission factors for the CO Boilers that appear in Condition # 7618 shall be used to calculate the NOx emissions from the CO Boiler until such time as the situation is remedied to the satisfaction of the APCO. [basis: Offsets]

Condition # 17648

For S1006, Tank 1006

S2013, Tank 12467

S2445, Tank 12445

S2446, Tank 12446

S4322, Tank 14571 Sour Water:

1. For purposes of the Storage Tank Emission Reduction Partnership Program, each opening through the deck of the floating roof for a slotted guidepole shall be equipped at a minimum with a deck cover, a pole wiper and a pole float. The deck cover shall also be equipped with a gasket between the cover and the deck. The wiper or seal of the pole float shall be at or above the height of the pole wiper. (basis: STERPP)
2. The sliding cover shall be in place over the slotted-guidepole opening through the floating roof at all times except when the sliding cover must be removed for access. The guidepole float shall be floating within the guidepole at all times except when it must be removed for access to the stored liquid or when the tank is empty. (basis: STERPP)
3. The Permit Holder shall visually inspect the deck fitting for the slotted guidepole at least once every 10 years and each time the vessel is emptied and degassed. If the slotted guidepole deck fitting or control devices have defects, or if a gap of more than 0.32 centimeters (1/8 inch) exists between any gasket required for control of the slotted guidepole deck fitting and any surface that it is intended to seal, such items shall be repaired before filling or refilling the storage vessel with regulated material. (basis: STERPP)
4. Tanks taken out of hydrocarbon service, for any reason, do not have to have any controls in place during the time they are out of service. (basis: STERPP)

Condition # 18153

For S1070, Tank 1070

1. Total liquid throughput at source S1070 shall not exceed 175,200 thousand gallons during any consecutive twelve-month period. [basis: Cumulative Increase]
2. Materials stored in S1070 shall be limited to the following:

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- a. Hydrocarbon Blanket Layer (RVP 3);
- b. Sour Water
- c. A liquid other than those specified above may be stored in S1070, provided that both of the following criteria are met:
 - i. POC emissions, based on the maximum throughput in Condition 1, do not exceed 2,501 pounds per year; and
 - ii. toxic emissions in lb/yr, based on the maximum throughput in Condition 1, do not exceed any risk screening trigger level.

[basis: Cumulative Increase, Toxics]

- 3. Source S1070 shall be equipped with a mechanical shoe primary seal and a rim-mounted secondary seal. There shall be no ungasketed roof fittings. Except for roof legs, each roof fitting shall be of the design that yields the minimum roof fitting losses (per EPA Compilation of Air Pollution Emission Factors, AP-42, Supplement E, Section 12.3.2, Table 12.3-11). The following list indicates the type of control required for a variety of typical roof fittings. Control techniques for roof fittings not included in this list shall be subject to District approval, prior to installing the roof on the tank.

| Fitting Type | Control Technique |
|------------------------------------|--|
| Access hatch | Bolted cover, gasketed |
| Column Well (24-inch dia.) | Pipe column-sliding cover, gasketed |
| Vacuum Breaker | Weighed mechanical actuation, gasketed |
| Ladder Well | Sliding cover, gasketed |
| Roof Leg (3-inch Diameter) | Adjustable |
| Sample Pipe or Well (24-inch dia.) | Slotted Pipe-Sliding Cover, gasketed |
| Automatic Gauge Float Well | Bolted cover, gasketed |

[Basis: BACT, Cumulative Increase]

- 4. In order to demonstrate compliance with the condition 1, the owner/operator of tank S1070 shall either maintain the total monthly throughput of each material stored, summarized on a consecutive 12-month basis in a District approved log, or shall be able to generate these records on short notice. These records shall be kept on site and made available for District inspection for a period of 5 years from the date that the record was made. [Basis: Cumulative Increase]

Condition # 18265

For

S1480, LUBS F-69 Asphalt Circulation

S1481, OPCEN F-30 DSU

S1483, LUBS F-32 Asphalt Circulation

S1486, DH F-40 CU Feed

S1487, DH F-41B VFU Feed

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S1488, DH F-41A VFU Feed
S1490, DH F-43 GOHT Feed
S1491, DH F-44 NHT Feed
S1492, DH F-45 Primary Column Reboil
S1493, DH F-46 Stabilizer Reboil
S1494, DH F-47 Secondary Column Reboil
S1495, DH F-49 CRU Preheat
S1496, DH F-50 CRU
S1497, DH F-51 CRU
S1498, DH F-52 CRU Reboil
S1499, DH F-53 CRU Regen
S1500, DH F-55 SGP Heat Medium
S1502, DH F-55 SGP Heat Medium
S1503, DH F-58 HCU Second Stage Feed
S1504, DH F-59 HCU Second Stage Reboil
S1505, DH F-60 HP1 Steam Methane Reformer
S1506, CP F-61 CGP Feed
S1508, CP F-63 CFH Feed
S1510, CP F-66 CCU Preheat
S1511, CP F-67 CCU LGO Reboil
S1514, UTIL F-70 Boiler 4
S1515, DH F-71 HCU First Stage Reboil
S1760, OPCEN F-102 FXU Steam Superheater
S1761, OPCEN F-104 HP2 Steam Methane Reformer
S1762, DH F-128 CRU Interheater
S1763, DH F-126 CU Feed Heater
S1800, UTIL F-88 Boiler 5
S4002, DC F-13425-A DCU
S4003, DC F-13425-B DCU
S4021, DC -F-13909 DHT Recycle
S4031, DC F-14012 HGHT Reboil
S4141, DC F-14011 HGHT Feed
S4161, DC H-101 HP3 Steam Methane Reformer

Regulation 9-10 Refinery-Wide Compliance

*1. Effective January 1, 2005, the following sources are subject to the refinery-wide NOx emission rate and CO concentration limits in Regulation 9-10: (basis: Regulation 9-10-301 & 305)

| S# | Description | CEM (Y/N) |
|-------|-------------------------------|-----------|
| S1480 | LUBS F-69 Asphalt Circulation | N |
| S1481 | OPCEN F-30 DSU | N |
| S1483 | LUBS F-32 Asphalt Circulation | N |

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| | | |
|-------|--|---|
| S1486 | DH F-40 CU Feed | Y |
| S1487 | DH F-41B VFU Feed | Y |
| S1488 | DH F-41A VFU Feed | Y |
| S1490 | DH F-43 GOHT Feed | Y |
| S1491 | DH F-44 NHT Feed | Y |
| S1492 | DH F-45 Primary Column Reboil | Y |
| S1493 | DH F-46 Stabilizer Reboil | Y |
| S1494 | DH F-47 Secondary Column Reboil | Y |
| S1495 | DH F-49 CRU Preheat | Y |
| S1496 | DH F-50 CRU | Y |
| S1497 | DH F-51 CRU | Y |
| S1498 | DH F-52 CRU Reboil | Y |
| S1499 | DH F-53 CRU Regen | Y |
| S1500 | DH F-55 SGP Heat Medium | Y |
| S1502 | DH F-57 HCU | Y |
| S1503 | DH F-58 HCU Second Stage Feed | Y |
| S1504 | DH F-59 HCU Second Stage Reboil | Y |
| S1505 | DH F-60 HP1 Steam Methane Reformer | Y |
| S1506 | CP F-61 CGP Feed | N |
| S1508 | CP F-63 CFH Feed | Y |
| S1510 | CP F-66 CCU Preheat | Y |
| S1511 | CP F-67 CCU LGO Reboil | Y |
| S1514 | UTIL F-70 Boiler 4 | Y |
| S1515 | DH F-71 HCU First Stage Reboil | Y |
| S1760 | OPCEN F-102 FXU Steam Superheater | Y |
| S1761 | OPCEN F-104 HP2 Steam Methane Reformer | Y |
| S1762 | DH F-128 CRU Interheater | Y |
| S1763 | DH F-126 CU Feed Heater | Y |
| S1800 | UTIL F-88 Boiler 5 | Y |
| S4002 | DC F-13425-A DCU | Y |
| S4003 | DC F-13425-B DCU | Y |
| S4021 | DC F-13909 DHT Recycle | N |
| S4031 | DC F-14012 HGHT Reboil | Y |
| S4141 | DC F-14011 HGHT Feed | Y |
| S4161 | DC H-101 HP3 Steam Methane Reformer | Y |

*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 September 1, 2004. (basis: Regulation 9-10-502)

*3. Effective January 1, 2005, 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. (Reg. 9-10-502)

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- A. The NOx Box for units with a maximum firing rate of 25 ~~MMBH~~ 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 ~~MMBH~~ 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.
- *4. The owner/operator shall establish the initial NOx box for each source subject to Part 3 by January 1, 2005. The NOx Box may consist of two operating ranges in order to allow for operating flexibility and to encourage emission minimization during standard operation. (Reg. 9-10-502) The procedure for establishing the NOx box is
- 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 O₂ 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~~ 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.
 - 1) The NOx Box can represent/utilize either one or two emission factors.
 - 2) 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 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.
(basis: Regulation 9-10-502)
- *5. Except as provided in part 5B & C, 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. (Reg. 9-10-502)

VI. Permit Conditions

A. NOx Box ranges

| Source No. | Emission Factor (lb/MMBtu) | Min O2 at Low Firing (O2% , MMBtu/hr) | Max O2 at Low Firing (O2% , MMBtu/hr) | Min O2 at High Firing (O2% , MMBtu/hr) | Mid O2 at Mid/High Firing (polygon) (O2% , MMBtu/hr) | Max O2 at High Firing (O2% , MMBtu/hr) |
|------------|----------------------------|---------------------------------------|---------------------------------------|--|--|--|
| S1480 | 0.20 | n/a | n/a | n/a | n/a | n/a |
| S1481 | 0.16 | n/a | n/a | n/a | n/a | n/a |
| S1483 | 0.16 | n/a | n/a | n/a | n/a | n/a |
| S1506 | 0.2 | n/a | n/a | n/a | n/a | n/a |
| S4021 | 0.029 | 0.7, 11.9 | 5.6, 11.9 | 0.7, 33.7 | n/a | 5.6, 33.7 |

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), or during startup or shutdown periods, or during 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 & 30-day averaging data).
- C. Part 5A. does not apply during any source test required or permitted by this condition. (Reg. 9-10-502). See Part 7 for the consequences of source test results that exceed the emission factors in Part 5.

(basis: Regulation 9-10-502)

*6. NOx Box Deviations [Effective January 1, 2005] (Reg. 9-10-502)

- A. 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 reasonably represents 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 ~~60~~45 days of the test. The Owner/Operator may request, and the APCO may grant, an extension of 15 days for submittal of results. As necessary, a permit amendment shall be submitted.

1. Source Test <= Emission Factor

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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."

- a. 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.

2. Source Test > Emission Factor

If the results of this source test exceed the permitted emission concentrations or emission rates then the actions described below must be followed:

- a. 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.
- b. 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.

- B. Reporting - The owner/operator must report conditions outside of box within 96 hours of occurrence.

(basis: Regulation 9-10-502)

- *7. Effective January 1, 2005, for each source subject to Part 3, the owner/operator shall conduct source tests on 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 6045 days of the test. The Owner/Operator may request, and the APCO may grant, an extension of 15 days for submittal of results. (Reg.9-10-502)

A.A. Source Testing Schedule

1. Heater < 25 MMBtu/hr

One source test per consecutive 12 month period. The time interval between source tests shall not exceed 16 months.

2. Heaters ≥ 25 MMBtu/hr

Two source tests per consecutive 12 month period. The time interval between

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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 ~~60~~45 days of the test. (Reg.9-10-502)

~~3. If a source has been shutdown longer than the period allowed between source testing periods (e.g. <25 MMBtu/hr -> 12 mos or > 25 MMBtu/hr -> 8 mos), the owner/operator shall conduct the required semi-annual source test within 30 days of start up of the source.~~

3. If a source has been shutdown longer than the period allowed between source testing periods (e.g. <25 MMBtu/hr - > 12 mos or > 25 MMBtu/hr - > 8 mos), the owner/operator shall conduct the required semi-annual source test within 30 days of start up of the source. Any source operating less than 5 consecutive days at a time and no more than 15 days per rolling 12-month does not have to be source tested.

B. Source Test Results > NOx Box Emission Factor

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 6A2. If the 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.

- *8. Effective January 1, 2005, 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. (basis: Regulation 9-10-502, 1-522)
- *9. Effective January 1, 2005, for any source listed in Part 1 with a maximum firing limit greater than 25 MMBtu/hr 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. (basis: Regulation 9-10-502, 1-522)
- *10. Effective January 1, 2005, in addition to records required by 9-10-504, the facility must maintain records of all source tests conducted to demonstrate compliance with Parts number 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. (basis: recordkeeping, Regulation 9-10-504)

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*11. Effective January 1, 2005, the owner/operator shall operate a continuous emission monitor (CEM) to measure the NOx and O2 concentrations from the following sources that are subject to this Alternative Compliance Plan. In the case where two or more sources exhaust through a common stack (Chimney #1, Chimney #2, S4002 & S4003, and S4031 & S4141), a single NOx and O2 CEM may be used to measure the combined concentrations from all sources that exhaust through the stack.

Sources exhausting through Chimney #1: S1486, S1487, S1488, S1490, S1491, S1492, S1493, S1494, S1495, S1496, S1497, S1498, and S1499.

Sources exhausting through Chimney #2: S1500, S1502, S1503, S1504, S1505, and S1515.

Sources with dedicated exhaust stacks: S1508, S1510, S1511, S1514, ~~S1515~~, S1760, S1761, S1762, S1763, S1800, ~~S4002, S4003, S4031, S4141~~, and S4161.

DCU heaters (S4002 & S4003) exhaust through a single exhaust stack. Likewise, the HGHT heaters (S4031 & S4141) exhaust through a single exhaust stack.

*12. For the following sources for which there is not a CEM, NOx emissions shall not exceed the emission rates indicated below, in the units of pounds of NOx per million BTU of fuel fired (lb NOx/MM BTU). These emission rates shall be used to calculate daily NOx emissions. These emission rates may be adjusted, subject to District approval, based on source testing results. The Permit Holder may elect to use a more conservative (higher) emission factor than would be required solely based on source testing results. If the owner/operator chooses to install NOx and O2 CEM's on any source listed below, the maximum emission rate listed below will no longer be in effect, and daily NOx emissions from that source will be calculated using the CEM NOx concentration.

| Phase I (effective July 1, 2000) | | lb/MM BTU |
|----------------------------------|-------------------------|-----------|
| S4021 | DC -F-13909 DHT Recycle | 0.029 |

| Phase II (effective July 1, 2002) | | lb/MM BTU |
|-----------------------------------|-------------------------------|-----------|
| S1480 | LUBS F-69 Asphalt Circulation | 0.20 |
| S1481 | OPCEN F-30 DSU | 0.160 |
| S1483 | LUBS F-32 Asphalt Circulation | 0.160 |

| | | |
|-------|------------------|------|
| S1506 | CP F-61 CGP Feed | 0.20 |
|-------|------------------|------|

*13. On a daily basis, the owner/operator shall determine the amount of IERC's necessary for compliance with Regulation 9, Rule 10. IERC's shall be calculated using a District-approved spreadsheet that calculates actual daily NOx emissions and allowable NOx emissions based on the Reg. 9-10 limit of 0.033 lb/MM BTU. (Table 2 of the Engineering

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Evaluation Report for AN 498 is an example of a District-approved daily spreadsheet.)

- *14. For each source (or group of sources with a common stack), the owner/operator shall summarize the daily actual emissions, daily allowable emissions, and actual NOx emission rate (lb/MM BTU), on a monthly basis. This monthly summary shall done using a District-approved spreadsheet. (Table 3 of the Engineering Evaluation Report for AN 498 is an example of a District-approved monthly source-by-source summary spreadsheet.)
- *15. The owner/operator shall summarize the daily IERC's on a monthly basis, using a District-approved spreadsheet. (Table 4 of the Engineering Evaluation Report for AN 498 is an example of a District-approved monthly IERC summary spreadsheet.)
- *16. The initial source testing that is required by Reg. 9-10-501 has not been performed on source S1800 because this source has not been operating. If the owner/operator uses S1800 in the future, the owner/operator shall conduct a District-approved source test for NOx and CO emissions within 30 days of the initial operation of S1800.
- ~~*17. Until January 1, 2005, all sources covered by this Alternative Compliance Plan are subject to the District's policy for "NOx, CO and O2 Monitoring Compliance with Regulation 9, Rule 10", dated June 23, 2000 (and any subsequent revisions).~~
- ~~*18. Until January 1, 2005, in accordance with Section II C of the monitoring policy in condition 7, the District will limit the operating range for and S4021, as indicated in Condition 19.~~
- ~~*19. Until January 1, 2005, except during startup and shutdown, the allowable operating ranges for S1760 and S4021 are as follows:~~

| Source (F #) | O2 min | O2 max | Firing min | Firing max |
|----------------|--------|--------|------------|------------|
| 4021 (F 13909) | 0.7 | 5.6 | 11.9 | 33.7 |

~~The O2 concentrations are expressed as percent, and the firing rates are in million BTU/hr, higher heating value.~~

~~In the event that the owner/operator operates any source outside of its associated operating range above, the owner/operator shall perform a source test to determine NOx emissions, in accordance with the monitoring policy in Condition 7. If NOx emissions are less than or equal to the emission rate indicated in Condition 2, the source testing results may be used to expand the allowable operating range above. If NOx emissions exceed the emission rate indicated in Condition 2, this source is in violation for each day it operated outside of the defined operating range.~~

- *20. The owner/operator shall operate and maintain a fuel flow meter for each fuel line on each source included in this ACP.

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~~*21. Until January 1, 2005, the owner/operator shall maintain permanent hourly continuous emission monitoring or equivalent system parameter records and fuel rate records, in a form suitable for inspection for a period of at least five (5) years. Such records shall be retained for a minimum of 5 years from date of entry and made available to the APCO upon request. These records shall include, but are not limited to:~~

- ~~a. The continuous emission monitoring measurements or equivalent system parameters for NO_x, CO, and O₂ in ppmv and lb/hour;~~
- ~~b. The type, quantity (BTU/hr), and higher heating value of fuel burned and the injection rate for any reactant chemicals used by the emission control system(s) on a daily basis.~~
- ~~c. The date, time, and duration of any start up, shutdown or malfunction in the operation of any unit, emission control equipment, or emission monitoring equipment; and~~
- ~~d. The results of performance testing, evaluations, calibrations, checks, adjustments, and maintenance of any continuous emission monitors that have been installed pursuant to Section 9-10-502 of this Rule.~~

Condition # 18407

For S1426, CP Catalytic Cracking Unit (CCU)

1. During periods when the spent catalyst hopper is blinded off from the CO Boilers, all catalyst loading shall be abated by A1426, Baghouse for CCU Spent Catalyst Hopper (Portable) for CCU Spent Catalyst Hopper. (basis: cumulative increase)
2. During periods when the spent catalyst hopper is blinded off from the CO Boilers, the amount of catalyst loaded into the spent catalyst hopper shall not exceed 2000 tons in any consecutive 12-month period. (basis: cumulative increase)
3. To demonstrate compliance with item 2 above, the permit holder shall keep daily records of the amount of catalyst loaded. Daily records shall be totaled on a monthly basis. Monthly records shall be totaled on a consecutive 12-month basis. The records shall be retained for 5 years following the date the record is made, and shall be made available to the District upon request. (basis: cumulative increase)

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Condition # 18618

General Throughput Conditions and other miscellaneous monitoring requirements for Title V:

- The following throughput limits are based upon District records at the time of MFR permit issuance. Exceedance of those limits for which Regulation 2-1-234.4-3 was the identified basis are not a violation of the permit if the operator can, within 60 days, provide documentation demonstrating the throughput limit should be higher, established in accordance with 2-1-234.3, and the excess throughput complies with the new limit. Exceedance of those limits which have other permit conditions or application information as the basis are a violation of Regulation 2-1-307 immediately upon exceedance of the limit. (basis: Regulation 2-1-234.3, Regulation 2-1-307)

| S-# | Description | Daily Limit | Annual Limit |
|---------------|------------------------------------|-------------|--|
| 3 | Tank 3 | | $S3+S4+S967+S1076 \leq 130,971$ bbl/day x 365 |
| 4 | Tank 4 | | $S3+S4+S967+S1076 \leq 130,971$ bbl/day x 365 |
| 13 | Tank 13 | | 36,000 bbl/day x 365 |
| 14 | Tank 14 | | 143,657 bbl/day x 365 |
| 20 | Tank 20 | | 13,131 bbl/day x 365 |
| 21 | Tank 21 Asphalt Storage | | S21+ S22+S23+S24+S26+S497+S560 +S561+S572+S573+S598+S815 +S985+S1043+S1044+S1045+ S1160+S6068 $\leq 42,000$ bbl/day x 365 |
| 22 | Tank 22 Asphalt Storage | | S21+S22+S23+S24+S26+S497+ S560+S561+S572+S573+S598+ S815+S985+S1043+S1044+S10 45+S1160 $\leq 42,000$ bbl/day x 365 |
| 23 | Tank 23 Asphalt Storage | | S21 +S22+S23+S24+S26+S497+S56 0+S561+S572+S573+S598+S81 5+S985+S1043+S1044+S1045+ S1160+S6068 $\leq 42,000$ bbl/day x 365 |
| 24 | Tank 24 Asphalt Storage | | S21+ |

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| S-# | Description | Daily Limit | Annual Limit |
|-----|--------------------------|-------------|---|
| | | | S22 +S23+S24+S26+S497+S560 +S561+S572+S573+S598+S815 +S985+S1043+S1044+ S1045+1160+S6068 ≤ 42,000 bbl/day x 365 |
| 26 | Tank 26 Asphalt Storage | | S21 +S22 +S23+S24+S26+S497+S560 +S561+S572+S573+S598+S815 +S985+S1043+S1044+S1045+ S1160+S6068 ≤ 42,000 bbl/day x 365 |
| 257 | Tank 257 | | 10,526 bbl/day x 365 |
| 483 | Tank 483 | | S483+S484+S530 + S532+S545 < 217,097 bbl/day x 365 |
| 484 | Tank 484 | | S483+S484+S530 + S532+S545 < 217,097 bbl/day x 365 |
| 497 | Tank 497 Asphalt Storage | | S21+ S22 +S23+S24+S26+S497+S560 +S561+S572+S573+S598+S815 +S985+S1043+S1044+ S1045+S1160+S6068 ≤ 42,000 bbl/day x 365 |
| 530 | Tank 530 | | S483+S484+S530 + S532+S545 < 217,097 bbl/day x 365 |
| 532 | Tank 532 | | S483+S484+S530 + S532+S545 < 217,097 bbl/day x 365 |
| 541 | Tank 541 | | 248,743 bbl/day x 365 |
| 545 | Tank 545 | | S483+S484+S530 + S532+S545 < 217,097 bbl/day x 365 |
| 548 | Tank 548 | | S548+S549+S1006+S1235+ S1236 < 5,412 bbl/day x 365 |
| 552 | Tank 552 Asphalt Storage | | S552+S553+S554+S555+S556+ S557+S558+S559 +S567 + S568 < 10,650 bbl/day x 365 |
| 553 | Tank 553 Asphalt Storage | | S552+S553+S554+S555+S556+ S557+S558+S559 +S567 + S568 < 10,650 bbl/day x 365 |
| 554 | Tank 554 Asphalt Storage | | S552+S553+S554+S555+S556+ |

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| S-# | Description | Daily Limit | Annual Limit |
|-----|--------------------------|-------------|---|
| | | | S557+S558+S559 +S567 + S568< 10,650 bbl/day x 365 |
| 555 | Tank 555 Asphalt Storage | | S552+S553+S554+S555+S556+ S557+S558+S559 +S567 + S568< 10,650 bbl/day x 365 |
| 556 | Tank 556 Asphalt Storage | | S552+S553+S554+S555+S556+ S557+S558+S559 +S567 + S568< 10,650 bbl/day x 365 |
| 557 | Tank 557 Asphalt Storage | | S552+S553+S554+S555+S556+ S557+S558+S559 +S567 + S568< 10,650 bbl/day x 365 |
| 558 | Tank 558 Asphalt Storage | | S552+S553+S554+S555+S556+ S557+S558+ S559 +S567 + S568 < 10,650 bbl/day x 365 |
| 559 | Tank 559 Asphalt Storage | | S552+S553+S554+S555+S556+ S557+S558+S559 +S567 + S568< 10,650 bbl/day x 365 |
| 560 | Tank 560 Asphalt Storage | | S21+ S22 +S23+S24+S26+S497+S560 +S561+S572+S573+S598+S815 +S985+S1043+S1044+ S1045+S1160+S6068 ≤ 42,000 bbl/day x 365 |
| 561 | Tank 561 Asphalt Storage | | S21+ S22 +S23+S24+S26+S497+S560 +S561+S572+S573+S598+S815 +S985+S1043+S1044+ S1045+S1160+S6068 ≤ 42,000 bbl/day x 365 |
| 567 | Tank 567 Asphalt Storage | | S552+S553+S554+S555+S556+ S557+S558+S559 +S567 + S568< 10,650 bbl/day x 365 |
| 568 | Tank 568 | | S552+S553+S554+S555+S556+ S557+S558+S559 +S567 + S568< 10,650 bbl/day x 365 |
| 572 | Tank 572 Asphalt Storage | | S21+ S22 +S23+S24+S26+S497+S560 +S561+S572+S573+S598+S815 |

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| S-# | Description | Daily Limit | Annual Limit |
|------|--------------------------|-------------|--|
| | | | +S985+S1043+S1044+ S1045+S1160+S6068 ≤ 42,000 bbl/day x 365 |
| 573 | Tank 573 Asphalt Storage | | S21+ S22 +S23+S24+S26+S497+S560 +S561+S572+S573+S598+S815 +S985+S1043+S1044+ S1045+S1160+S6068 ≤ 42,000 bbl/day x 365 |
| 598 | Tank 598 Asphalt Storage | | S21+ S22 +S23+S24+S26+S497+S560 +S561+S572+S573+S598+S815 +S985+S1043+S1044+ S1045+S1160+S6068 ≤ 42,000 bbl/day x 365 |
| 610 | Tank 610 | | S610+S1133 ≤ 48,000 bbl/day x 365 |
| 611 | Tank 611 | | 82,217 bbl/day x 365 |
| 612 | Tank 612 | | S612+S613 < 210,686 bbl/day x 365 |
| 613 | Tank 613 | | S612+S613 < 210,686 bbl/day x 365 |
| 815 | Tank 815 Asphalt Storage | | S21+ S22 +S23+S24+S26+S497+S560 +S561+S572+S573+S598+S815 +S985+S1043+S1044+ S1045+ S1160+S6068 ≤ 42,000 bbl/day x 365 |
| 967 | Tank 967 | | S3+S4+S967+S1076 ≤ 130,971 bbl/day x 365 |
| 985 | Tank 985 Asphalt Storage | | S21+ S22 +S23+S24+S26+S497+S560 +S561+S572+S573+S598+S815 +S985+S1043+S1044+ S1045+S1160+S6068 ≤ 42,000 bbl/day x 365 |
| 1006 | Tank 1006 | | S548+S549+S1006+S1235+ S1236 < 5,412 bbl/day x 365 |

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| S-# | Description | Daily Limit | Annual Limit |
|------|---------------------------|-------------|--|
| 1031 | Tank 1031 | | S1031+S1046+S1051+S1134+S1159+S1753+S1754+S1755+S1756 < 508,114 bbl/day x 365 |
| 1043 | Tank 1043 Asphalt Storage | | S21+S22+S23+S24+S26+S497+S560+S561+S572+S573+S598+S815+S985+S1043+S1044+S1045+S1160+S6068 ≤ 42,000 bbl/day x 365 |
| 1044 | Tank 1044 Asphalt Storage | | S21+S22+S23+S24+S26+S497+S560+S561+S572+S573+S598+S815+S985+S1043+S1044+S1045+S1160+S6068 ≤ 42,000 bbl/day x 365 |
| 1045 | Tank 1045 Asphalt Storage | | S21+S22+S23+S24+S26+S497+S560+S561+S572+S573+S598+S815+S985+S1043+S1044+S1045+S1160+S6068 ≤ 42,000 bbl/day x 365 |
| 1046 | Tank 1046 | | S1031+S1046+S1051+S1134+S1159+S1753+S1754+S1755+S1756 < 508,114 bbl/day x 365 |
| 1051 | Tank 1051 | | S1031+S1046+S1051+S1134+S1159+S1753+S1754+S1755+S1756 < 508,114 bbl/day x 365 |
| 1076 | Tank 1076 | | S3+S4+S967+S1076 ≤ 130,971 bbl/day x 365 |
| 1129 | Tank 1129 | | 120,000 bbl/day x 365 |
| 1130 | Tank 1130 | | S1130+S1131 < 47,314 bbl/day x 365 |
| 1131 | Tank 1131 | | S1130+S1131 < 47,314 bbl/day x 365 |
| 1133 | Tank 1133 | | S610+S1133 ≤ 48,000 bbl/day x 365 |
| 1134 | Tank 1134 | | S1031+S1046+S1051+S1134+S1159+S1753+S1754+S1755+ |

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| S-# | Description | Daily Limit | Annual Limit |
|-----------------|--|--|---|
| | | | S1756 < 508,114 bbl/day x 365 |
| 1140 | Tank 1140 | | 27,840 bbl/day x365 |
| 1146 | Tank 1146 | | S1146+S1147 < 14,640 bbl/day x 365 |
| 1147 | Tank 1147 | | S1146+S1147 < 14,640 bbl/day x 365 |
| 1159 | Tank 1159 | | S1031+S1046+S1051+S1134+S1159+S1753+S1754+S1755+S1756 < 508,114 bbl/day x 365 |
| 1160 | Tank 1160 Asphalt Storage | | S21+S22+S23+S24+S26+S497+S560+S561+S572+S573+S598+S815+S985+S1043+S1044+S1045+ S1160+S6068 ≤ 42,000 bbl/day x 365 |
| 1161 | Tank 1161 | | 240,000 bbl/day x 365 |
| 1235 | Tank 739 Chem Storage | | S548+S549+S1006+S1235+S1236 < 5,412 bbl/day x 365 |
| 1236 | Tank 740 Chem Storage | | S548+S549+S1006+S1235+S1236 < 5,412 bbl/day x 365 |
| 1409 | LUBS Sulfonation Plant (SULF) | 2,805 bbl/day | 803,000 bbl/yr |
| 1415 | LUBS Furfural Plant (SEP3) | 6,700 bbl/day | 1,752,000 bbl/yr |
| 1417 | OPCEN Distillate Saturation Unit (DSU) | 26,000 bbl/day | 365 x Daily Limit |
| 1420 | DH Crude Unit (CU) | 178,800 bbl/day | 59,568,000 bbl/yr |
| 1423 | DH Gas Oil Straightrun Hydrotreater (GOHT) | 28,000 bbl/day | 365 x Daily Limit |
| 1424 | DH Naphtha Straightrun Hydrotreater (NHT) | 28,500 bbl/day | 9,599,500 bbl/yr |
| 1425 | DH Catalytic Reformer Unit (CRU) | 32,000 bbl/day | 365 x Daily Limit |
| 1426 | CP Catalytic Cracking Unit (CCU) | 79,500 bbl/day | 365 x Daily Limit |
| 1428 | CP Catalytic Feed Hydrotreater (CFH) | 60,000 bbl/day | 19,856,000 bbl/yr |
| 1429 | CP Catalytic Gasoline Hydrotreater (CGH) | 27,500 bbl/day | 365 x Daily Limit |
| 1430 | CP Alkylation Plant (ALKY) | 14,000 bbl/day alkylate produced | 365 x Daily Limit |
| 1431 | CP Sulfur Plant 1 (SRU1) | S1431+S1432 < 331 Equivalent Long Tons/Day | 365 x Daily Limit |

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| S-# | Description | Daily Limit | Annual Limit |
|------|------------------------------|---|---|
| 1432 | CP Sulfur Plant 2 (SRU2) | S1431+S1432 < 331 Equivalent Long Tons/Day | 365 x Daily Limit |
| 1445 | DH Hydrogen Plant 1 (HP1) | 75,000,000 scf/day H2 | 24,710,500,000 scf/yr H2 |
| 1449 | DH Hydrocracking Unit (HCU) | 46,000 bbl/day | 365 x Daily Limit |
| 1507 | UTIL CO Boiler 1 | 5,568 MMBTU/day (LHV) <u>6,125 MMBTU/day</u> (HHV) | 365 x Daily Limit |
| 1509 | UTIL CO Boiler 2 | 5,568 MMBTU/day (LHV) <u>6,125 MMBTU/day</u> (HHV) | 365 x Daily Limit |
| 1512 | UTIL CO Boiler 3 | 5,568 MMBTU/day (LHV) <u>6,125 MMBTU/day</u> (HHV) | 365 x Daily Limit |
| 1751 | Tank 1330 | | S1751+S1752 < 45,953 bbl/day x 365 |
| 1752 | Tank 1331 | | S1751+S1752 < 45,953 bbl/day x 365 |
| 1753 | Tank 1332 Gasoline | | S1031+S1046+S1051+S1134+ S1159+S1753+S1754+S1755+ S1756 < 508,114 bbl/day x 365 |
| 1754 | Tank 1333 Gasoline | | S1031+S1046+S1051+S1134+ S1159+S1753+S1754+S1755+ S1756 < 508,114 bbl/day x 365 |
| 1755 | Tank 1334 Gasoline | | S1031+S1046+S1051+S1134+ S1159+S1753+S1754+S1755+ S1756 < 508,114 bbl/day x 365 |
| 1756 | Tank 1335 Gasoline | | S1031+S1046+S1051+S1134+ S1159+S1753+S1754+S1755+ S1756 < 508,114 bbl/day x 365 |
| 1757 | Tank 1336 | S1757+S1758+S4334 ≤125,829 bbl/day | 365 x Daily Limit |
| 1758 | Tank 1337 | S1757+S1758+S4334 ≤125,829 bbl/day | 365 x Daily Limit |
| 1759 | OPCEN Flexicoker (FXU) | 48,300 bbl/day | 16,245,500 bbl/yr |
| 1764 | OPCEN Dimersol Plant (DIMER) | 4,000 bbl/day dimate | 365 x Daily Limit |

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| S-# | Description | Daily Limit | Annual Limit |
|------|---|------------------------------------|------------------------------------|
| | | produced | |
| 1765 | OPCEN Sulfur Plant 3 (SRU3) | 150 equivalent long ton/day | 365 x Daily Limit |
| 1774 | OPCEN Hydrogen Plant 2 (HP2) | 43,500,000 scf/day H2 | 14,600,000,000 scf/yr H2 |
| 1900 | MAINT_Machine Shop Parts Cleaner | | S1900 + S1903 ≤ 192 gal/yr solvent |
| 1903 | MAINT Paint Shop Solvent Tub | | S1900 + S1903 ≤ 192 gal/yr solvent |
| 3000 | Portable Vacuum Distillation Unit (CCR Technologies Inc.) | 168 MMBTU/day | 365 x Daily Limit |
| 4001 | DC Delayed Coking Unit (DCU) | 65,000 bbl/day | 365 x Daily Limit |
| 4020 | DC Distillate Hydrotreater (DHT) | 60,000 bbl/day | 365 x Daily Limit |
| 4080 | DC Isomerization Unit (ISOM) | 15,100 bbl/day | 365 x Daily Limit |
| 4140 | DC Heavy Cracked Gasoline Hydrotreater (HGHT) | 23,200 bbl/day | 365 x Daily Limit |
| 4160 | DC Hydrogen Plant -3 (HP3) | 90,000,000 scf/day | 365 x Daily Limit |
| | | | |
| 4180 | OPCEN Sulfur Plant 4 (SRU4) | 140 long tons/day | 365 x Daily Limit |
| 4190 | UTIL Boiler 6 Gas Turbine 1 | 13,152 MMBTU/day | 365 x Daily Limit |
| 4191 | UTIL Boiler 6 Supplemental Steam Generator 1 | 6,192 MMBTU/day | 365 x Daily Limit |
| 4192 | UTIL Boiler 6 Gas Turbine 2 | 13,152 MMBTU/day | 365 x Daily Limit |
| 4193 | UTIL Boiler 6 Supplemental Steam Generator 2 | 6,192 MMBTU/day | 365 x Daily Limit |
| 4334 | Tank13276 Alkylate | S1757+S1758+S4334 ≤125,829 bbl/day | 365 x Daily Limit |

2. Effective April 1, 2004, the facility shall maintain daily throughput records for all sources listed in the Table in Part 1 of this condition that are not tanks summarized on a consecutive 12-month basis in a District approved log, or shall be able to generate these records within 5 working days. The facility shall maintain annual throughput records for all storage tanks. These records shall be kept on site and made available for District inspection for a period of 60 months from the date that the record was made. (basis: Regulation 2-1-234.3)

3. Effective April 1, 2004, for S1486, S1487, S1488, S1491, S1492, S1493, S1495, S1496,

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S1497, S1498, S1500, S1504, S1508, S1510, S1511, S1763, S4002, and S4003, the owner/operator shall conduct a visible emissions inspection at each source after every 1 million gallon of liquid fuel combusted, to be counted cumulatively over a 5 year period. If a visible emissions inspection documents opacity, a method 9 evaluation shall be completed within 3 working days, or during the next scheduled operating period if the unit ceases firing on diesel fuel within the 3 working day time frame. (basis: Regulation 2-6-409.2).

4. Effective April 1, 2004, for S1486, S1487, S1488, S1491, S1492, S1493, S1495, S1496, S1497, S1498, S1500, S1504, S1507, S1508, S1509, S1510, S1511, S1512, S1763, S4002, and S4003, the owner/operator shall sample and analyze the liquid fuel to determine its sulfur content after every 1 million gallon of liquid fuel is combusted, to be counted cumulatively over a 5 year period, or at least once every 5 years, whatever comes first. Such quantity of liquid fuel combusted and any resulting sampling and analysis shall be recorded monthly in a District approved log. The log and all supporting documentation (such as analytical results) shall also be kept for a period of 5 years from the date of entry and made available for inspection upon request. (basis: Regulation 2-6-409.2).
5. Effective April 1, 2004, S1650, S1767, S1768, and S1769 shall be checked for visible emissions quarterly. The visible emissions check shall take place while the equipment is operating and during daylight hours. If any visible emissions are detected, the operator shall take corrective action within one day, and check for visible emissions after corrective action is taken. If no visible emissions are detected, the operator shall continue to check for visible emissions at the same frequency. [basis: Regulation 2-6-409.2]
6. Effective April 1, 2004, during exterior tube cleaning of heaters or boilers (S1480, S1481, S1483, S1486, S1487, S1488, S1491, S1492, S1493, S1495, S1496, S1497, S1498, S1500, S1504, S1506, S1508, S1510, S1511, S1760, S1763, S1490, S1499, S1494, S1502, S1503, S1504, S1505, S1515, S1761, S1762, S1800, S4002, S4003, S4021, S4031, S4141, S4161, S4191, and S4193), the owner/operator shall check for visible emissions. The visible emissions check shall take place while the tube is being cleaned and during daylight hours. If any visible emissions are detected, the operator shall take corrective action within one day, and check for visible emissions after the corrective action is taken. If no visible emissions are detected, the operator shall continue to check for visible emissions on an hourly basis until the tube cleaning activity is completed. [basis: Regulation 2-6-409.2]
7. Effective April 1, 2004, the operator shall keep records of all visible emissions checks

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per Parts 3, 5, and 6 of this condition, the person performing the check, and all corrective action taken. The records shall be retained for five years and shall be made available to District personnel upon request. [basis: Regulation 2-6-409.2]

8. Effective April 1, 2004, for the sources subject to Regulation 6-1-330 (S1431, S1432, S1765, and S4180) the owner/operator shall conduct a District approved source test annually to determine the concentration of SO₃ or H₂SO₄, or both, expressed as 100% H₂SO₄. The results of the source test shall be made available to the District within 60 days of the source test and kept for a minimum of 5 years from the date of the report. The frequency of source testing required under this condition shall be reduced to once every five years if three consecutive annual source tests document that emissions are less than 50 percent of the standard. The frequency of source testing shall revert back to once per year, if a source test documents that emissions are 50 percent of the standard or more. The source testing frequency can again be reduced to once every five years if another three consecutive annual source tests document that emissions are less than 50 percent of the standard. [basis: Regulation 2-6-409.2]
9. Effective April 1, 2004, for the CO Boilers (S1507, S1509, and S1512), the owner/operator shall conduct a District approved source test annually on each source to determine its grain loading rate. The results of the source tests shall be made available to the District within 60 days of the source test and kept for a minimum of 5 years from the date of the report. The frequency of source testing required under this condition shall be reduced to once every five years if three consecutive annual source tests document that emissions are less than 50 percent of the standard. The frequency of source testing shall revert back to once per year, if a source test documents that emissions are 50 percent of the standard or more. The source testing frequency can again be reduced to once every five years if another three consecutive annual source tests document that emissions are less than 50 percent of the standard. [basis: Regulation 2-6-409.2]

(Condition Deleted)

11. 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 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. The requirement is not federally enforceable. [basis: Regulation 2-1-403]
12. Effective January 1, 2005, the owner/operator shall not flare more than the following

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limits of vent gas, as defined in Regulation 12-11-210, at following sources:

- | | |
|---|------------------|
| a. S1471 LOP Auxiliary Flare + S1472 LOP Main Flare | 630,000 lbs/hr |
| b. S1771 OPCEN Flexigas Flare | 750,000 lbs/hr |
| c. S1772 OPCEN HC Flare | 510,000 lbs/hr |
| d. S4201 Clean Fuels Flare | 2,000,000 lbs/hr |

(basis: Regulation 8-1-110.3; 2-1-403)

13. Effective January 1, 2005, in order to demonstrate compliance with Part 12 of this condition, the owner/operator shall record on an hourly basis the pounds of vent gas flared at S1471, S1472, S1771, S1772, and S4201 Flares. The owner/operator shall maintain these records for a period of five years from the date of entry and make sure records are available for the APCO upon request. (basis: Regulation 8-1-110.3; 2-6-409.2; 2-6-501)
14. Conditions for monitoring smoking flares (except for those flares that exclusively burn flexicoker gas with or without supplemental natural gas). Effective January 1, 2005, 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) for S1471, S1472, S1772, and S4201 ~~the sources listed in Part 12.~~ 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 15 of this condition. (basis: Regulation 2-6-409.2)
15. Effective January 1, 2005, the owner/operator shall use the following procedure for the initial inspection and each 30-minute inspection of a flaring event for S1471, S1472, S1772, and S4201 ~~those sources listed in part 12.~~
- 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.
 - 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:
 - EPA Reference Method 9; or
 - 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

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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 17. After a violation is documented, no further inspections are required until the beginning of a new calendar day.
(basis: Regulation 6-1-301, 2-1-403)
16. Effective January 1, 2005, the owner/operator shall comply with one of the following requirements if visual inspection is used:
- a. If EPA Method 9 is used, the owner/operator shall comply with Regulation 6-1-301 when operating the flare.
 - b. If the procedure of 15.b.ii is used, the owner/operator shall not operate a flare that has visible emissions for three consecutive minutes.
 - c. (basis: Regulation 2-6-403)
17. Effective January 1, 2005, the owner/operator shall keep records of all flaring events, as defined in Part 14. 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 15 of this condition) was used, the results of each inspection, and whether any violation of this condition (using visual inspection procedure in Part 15 of this condition) or Regulation 6-1-301 occurred (using EPA Method 9). (basis: Regulation 2-6-501; 2-6-409.2)
18. Effective January 1, 2005, for those flares that exclusively burn flexicoker gas with or without supplemental natural gas the owner/operator shall conduct a visual emission inspection weekly following the protocol in Part 16 a, b or c and shall comply with Parts 17 and 18 of this condition. If no visible emissions are observed after 52 weekly inspections, then this condition no longer applies to the flare. (basis: Regulation 2-6-501; 2-6-409.2)
19. Effective January 1, 2005, the owner/operator shall operate S4201, A101, A102, and A103 Flares to comply with H2S fuel gas limit in 60.104(a)(1) and the monitoring requirements in 60.105 at all times, except when burning fuel gas that is released to the flare as a result of relief valve leakage or other emergency malfunctions, or process upset gases as defined in 60.101(e), to burn only process upset gases as defined by 60.101(e) or fuel gas as defined by 60.101(d) that is released to it as a

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| ~~result of relief valve leakage or other emergency malfunctions.~~ (basis: 60.104(a)(1);
Regulation 2-1-403)

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Condition # 18643

For S1417, OPCEN Distillate Saturation Unit (DSU),

S1426, CP Catalytic Cracking Unit (CCU),

S1429, CP Catalytic Gasoline Hydrotreater (CGH),

S1430, CP Alkylation Plant (ALKY), S1449, DH Hydrocracking Unit (HCU),

S1764, OPCEN Dimersol Plant (DIMER), S4050, DC Catalytic Gas Depentanizer (CGDP), S4080, DC Isomerization Unit (ISOM),

S4140, DC Heavy Cracked Gasoline Hydrotreater (HGHT):

1. Condition deleted.
2. Any new pump in light liquid service installed as a new or as a replacement, as part of the MTBE Removal Project shall be:
 - a. equipped with dual mechanical seals, having a heavy liquid barrier fluid. The barrier 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; or
 - b. a "canned" pump or magnetically driven; or any other sealless pump technology approved by the District.
(basis: BACT/TBACT, Cumulative Increase)
3. All valves in POC gas and light liquid services installed as new or as a replacement, as part of the MTBE Removal Project shall be bellows sealed, live loaded, graphitic packed, teflon packed, or equivalent, as approved by the District. (basis: BACT/TBACT, Cumulative Increase)
4. All flanges installed as a new, as a replacement, or opened in piping systems as a result of the MTBE Removal Project shall be equipped with graphitic-based gaskets, Teflon gaskets, or equivalent as approved by the District. (basis: BACT/TBACT, Cumulative Increase)
5. All new centrifugal compressors installed as a new or as a replacement, as part of the MTBE Removal Project shall be equipped with "wet" dual mechanical seals with a heavy liquid barrier fluid, or dual dry gas mechanical seals buffered with inert gas. The barrier fluid pressure pot or inert gas system shall be vented to a control device with a 95% efficiency. All reciprocating compressors installed as part of the MTBE Removal Project shall be vented to a 95% efficient control device. In accordance with the NSPS of 40 CFR 60, Subpart GGG, any new compressor in hydrocarbon service (< 50% hydrogen) shall be equipped with an automatic leak indicator. (basis: BACT/TBACT, Cumulative Increase)

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6. No new pressure relief valve installed as a new or as a replacement as part of the MTBE Removal Project in gaseous POC, light liquid, or toxic service shall vent to atmosphere. This condition does not apply to pressure relief valves on storage tanks or pressure relief valves that handle only low vapor pressure material (<0.05 psia). (basis: BACT/TBACT, Cumulative Increase)
7. All process sample systems in the DSU (S1417) and CGH (S4050) shall be the closed loop or continuous flow design. In no event shall there be any line purging to process drains. (basis: BACT/TBACT, Cumulative Increase)
8. Condition deleted.
9. Condition deleted.

Condition # 18646

For S19, Tank 19

S1139, Tank 1139:

1. Total liquid throughput at sources S19 and S1139 shall not exceed 7,300,000 barrels during any consecutive twelve-month period. (basis: Cumulative Increase, Toxics)
2. Materials stored in S19 and S1139 shall be limited to the following:
 - a. Gasoline or gasoline components (not to exceed RVP 12);
 - b. A liquid other than those specified above in 2.a may be stored in S19 or S1139 provided that both of the following criteria are met:
 - i. POC emissions, based on the maximum throughput in Condition 1, do not exceed 20,731 pounds per year, as calculated by the EPA Tanks Program version 4.08 with a 99.5% reduction for vapor recovery; and
 - ii. toxic emissions in lb/yr, based on the maximum throughput in Condition 1, do not exceed any risk screening trigger level specified in Table 2-1-316.
(basis: Cumulative Increase, Toxics)
3. Sources S19 and S1139 shall be vented to A26 whenever they contain organic liquids. (basis: BACT/TBACT)
4. In order to demonstrate compliance with the condition 1, the owner/operator of S19 and S1139 shall either maintain the total monthly throughput of each material stored, summarized on a consecutive 12-month basis in a District approved log, or shall be able to generate these records on short notice. These records shall be kept on site and

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made available for District inspection for a period of 60 months from the date that the record was made. (Basis: Cumulative Increase)

Condition # 19097

For S5140 Diesel Engine,

~~S6051 through S6060 Diesel Engines:~~

- ~~1. Hours of Operation: The emergency standby generators, S-5140, S-6051, S-6052, S-6053, S-6054, S-6055, S-6056, S-6057, S-6058, S-6059, and S-6060, shall only be operated for emergency use or for reliability related activities. Operation for reliability related activities shall not exceed 100 hours per calendar year for S5140, S-6051, S-6052, S-6053, S-6055, S-6056, S-6057, and S-6060. No time limit is imposed on the operation for reliability related activities for S-6054, S-6058, and S-6059. Operation for emergency use is unlimited. [Basis: 9-8-330]~~
- ~~2. Emergency use is defined as the use of an emergency standby engine during any of the following: [Basis: 9-8-231]~~
 - ~~1 In the event of loss of regular natural gas supply;~~
 - ~~2 In the event of failure of regular electric power supply;~~
 - ~~3 Flood mitigation;~~
 - ~~4 Sewage overflow mitigation;~~
 - ~~5 Fire;~~
 - ~~6 Failure of a primary motor, but only for such time as needed to repair or replace the primary motor.~~
- ~~3. Reliability related activities is defined as the use of an emergency standby engine during any of the following: [Basis: 9-8-232]~~
 - ~~1 Operation of an emergency standby engine to test its ability to perform for an emergency use;~~
 - ~~2 Operation of an emergency standby engine during maintenance of a primary motor.~~
- ~~4. Monitoring: Each emergency standby engine shall be equipped with either: [Basis: 9-8-530]~~
 - ~~1. A non-resettable totalizing meter that measures and records hours of operation.~~
 - ~~2. A non-resettable fuel usage meter~~
- ~~5. Recordkeeping: All records shall be kept for at least two years, and shall be available for inspection by District staff upon request. The operator shall keep a monthly log of usage that shall indicate the following: [Basis: 9-8-530, 1-441]~~
 - ~~1. Hours of operation (total)~~
 - ~~2. Hours of operation (emergency) and the nature of the emergency condition.~~

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- ~~6. The sulfur content of the fuel oil shall be certified by the fuel oil vendor. [basis: Regulation 2-6-409.2]~~
- ~~7. The engines shall be checked for visible emissions after combustion of 1,000,000 gallons of liquid fuel oil. The visible emissions check shall take place during daylight hours, while the equipment is operating. If any visible emissions are detected, the operator shall take corrective action within one week, and check for visible emissions after corrective action is taken. If no visible emissions are detected, the operator shall continue to check for visible emissions at the same frequency. All incidents of visible emissions monitoring and any resulting corrective actions shall be recorded in a District approved log and kept for a 5 years from the date of entry. [basis: Regulation 2-6-409.2]~~

Condition # 19748
For S1765

1. The owner/operator shall operate the catalytic oxidizer (A1518) such that the concentration of SO₂ in the exhaust from the catalytic oxidizer (A1518) shall not exceed 250 ppmvd at 0 percent oxygen, averaged over 24 hours.
(basis: Cumulative Increase; NSPS)
2. The owner/operator shall operate the catalytic oxidizer (A1518) such that the concentration of H₂S in the exhaust from the catalytic oxidizer (A1518) shall not exceed 13.2 ppmvd at 0 percent oxygen, averaged over 24 hours (95 weight percent conversion of H₂S to SO₂). Compliance shall be confirmed by a District approved start up and annual source test.
(basis: Cumulative Increase)
3. The owner/operator shall operate the catalytic oxidizer (A1518) such that the SO₂ emissions from the catalytic oxidizer (A1518) shall not exceed 34.0 tons per consecutive twelve month period.
(basis: Cumulative Increase)
4. In the event that SRU 3 (S1765), SCOT 3 (A76), and/or the catalytic oxidizer (A1518) are shut down, the owner/operator shall curtail all acid gas feed to SRU 3 or reallocate the acid gas to other sulfur recovery units such that no acid gas is vented to the flare and unabated SRU 3 tailgas (tailgas not treated in SCOT 3) is not routed to the catalytic oxidizer. This shall be completed prior to any planned shutdown or within 24 hours of any unplanned shutdown. The District shall be notified of all such occurrences within 48 hours. The flaring emissions shall be calculated and included in the baseline profile (REFEMS cap). Prior to issuance of the Permit to Operate for S1765, the owner/operator

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~~shall submit an emission calculation protocol to the District for approval.
(basis: Cumulative Increase)~~

~~5. To determine compliance with Part 1 and 3, the owner/operator of the catalytic oxidizer (A1518) shall operate a SO₂ continuous emission monitor/recorder in conjunction with a flow rate monitor/recorder at the exhaust of the catalytic oxidizer to calculate mass emissions in order to demonstrate compliance.
(basis: Cumulative Increase)~~

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~~6. To determine compliance with Part 2, the owner/operator of the catalytic oxidizer (A1518) shall conduct a District approved source test to the exhaust of the catalytic oxidizer for the concentration of H₂S within 60 days of startup of the modified SRU-3 (S1765) and annually thereafter. Prior to the source test, the owner/operator shall notify and obtain approval of the source test procedures from the District's Source Test Section.
(basis: Cumulative Increase)~~

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1. The owner/operator shall ensure that SCOT-3 (A76), and Thermal Oxidizer (A2023) abate SRU-3 (S1765) all times of operation. (Basis: Cumulative Increase)

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2. The owner/operator shall ensure that the supplemental fuel used at A2023 is PUC quality natural gas. (Basis: Cumulative Increase)

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3. The owner/operator shall not emit more than 50 ppmvd NO_x @ 15% O₂ (0.20 lb/MMBTU) from A2023. (Basis: RACT, Source Test Method 13A)

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4. The owner/operator shall not emit more than 350 ppmvd CO @ 15% O₂ (0.80 lb/MMBTU) from A2023. (Basis: RACT, Source Test Method 6)

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5. No later than 60 days from the startup of A2023, the owner/operator shall conduct District approved source tests to determine initial compliance with the limits in parts 3 and 4 of this permit condition. The owner/operator shall submit the source test results to the District staff no later than 60 days after the source test.
(Basis: RACT, Cumulative Increase)

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6. The owner/operator shall obtain approval for all source test procedures from the District's Source Test Section prior to conducting any tests to demonstrate compliance with the limits in parts 3 and 4 of this permit condition. The owner/operator shall comply with all applicable testing requirements 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.
(Basis: RACT, Cumulative Increase)

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7. The owner/operator shall operate A2023 in such a manner, which ensures that the concentration of SO₂ in gases exhausting out of its stack does not exceed 250 ppmvd at 0 percent oxygen, averaged over 24 hours. (Basis: Cumulative Increase; NSPS Subpart J)
8. To demonstrate compliance with Part 7 of this permit condition, the owner/operator of A2023 shall operate a SO₂ continuous emission monitor/recorder (SO₂ CEMS) at its exhaust stack. (Basis: Cumulative Increase; NSPS Subpart J)
9. The owner/operator shall operate A2023 in such a manner, which ensures that the SO₂ emissions associated with gases exhausting out of its stack does not exceed 34.0 tons per consecutive twelve-month period. (Basis: Cumulative Increase)
10. To demonstrate compliance with Part 9 of this permit condition, the owner/operator shall calculate the SO₂ mass emissions on a daily basis using the SO₂ CEMS data in concert with total stack flow data obtained from a flow rate monitor/recorder at A2023's exhaust stack, or by employing calculations to estimate the total stack flow approved by the APCO. The total stack flow calculation methodology approved by the APCO must utilize the absorber overhead flow meter and the thermal oxidizer natural gas flow meter in conjunction with the methodology prescribed in 40 CFR Part 60, Appendix A, Method 19. These records, including the total stack flow calculations, shall be summarized on a monthly basis, and may be in the form of computer-generated data, which is available to District personnel on short notice (rather than actual paper copies of throughput data). These records shall be kept on file for a minimum of 5 years from the date of entry. (Basis: Cumulative Increase, Regulation 2-1-403)
11. The owner/operator shall operate A2023 in such a manner, which ensures that the mass emissions of H₂S in gases exhausting out of its stack do not exceed 5.22 pounds per day (0.95 tons per consecutive twelve-month period). (Basis: Cumulative Increase)
12. The owner/operator of A2023 shall conduct a District-approved source test at its exhaust stack to determine the concentration of H₂S within 60 days following the installation of A2023 and annually thereafter. The owner/operator shall use the results from the source tests to demonstrate compliance with Part 11 of this permit condition, and shall submit supporting calculations verifying compliance with the daily and annual mass emission limits to the District's Permit Evaluation Section. Prior to each source test, the owner/operator shall notify the District's Source Test Section in writing of the projected test dates at least 7 days prior to testing and obtain their approval of the source test procedures. The frequency of source testing required under this condition shall be reduced to once every five years if three consecutive annual source tests document that emissions are less than 50% of the standard. The frequency of source testing shall revert back to once per year, if a source test documents that emissions are 50% of the standard

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or more. The source testing frequency may again be reduced to once every five years if three consecutive annual source tests document that emissions are less than 50% of the standard. (Basis: Cumulative Increase)

13. The owner/operator shall operate A2023 in such a manner, which ensures that the Sulfuric Acid Mist emissions associated with gases exhausting out of its stack does not exceed 7.47 tons per consecutive twelve-month period. (Basis: Cumulative Increase)

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14. The owner/operator of A2023 shall conduct a District-approved source test at its exhaust stack to determine the concentration of Sulfuric Acid Mist emissions (in grains/dry standard cubic feet @ 0% oxygen) within 60 days following the installation of A2023 and annually thereafter. The owner/operator shall use the results from the source tests to demonstrate compliance with Part 13 of this permit condition, and shall submit supporting calculations verifying compliance with the annual Sulfuric Acid Mist mass emission limit to the District's Permit Evaluation Section. Prior to each source test, the owner/operator shall notify the District's Source Test Section in writing of the projected test dates at least 7 days prior to testing and obtain their approval of the source test procedures. (Basis: Cumulative Increase, Regulation 6-1-330)

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15. In the event that SRU-3 (S1765), SCOT-3 (A76), and/or the thermal oxidizer (A2023) are shut down, the owner/operator shall curtail all acid gas feed to SRU-3 or reallocate the acid gas to other sulfur recovery units such that no acid gas is vented to the flare and unabated SRU-3 tailgas (tailgas not treated in SCOT-3) is not routed to the thermal oxidizer. The owner/operator shall complete the above actions prior to any planned shutdown or within 24 hours of any unplanned shutdown. The owner/operator shall notify the District of all such occurrences within 48 hours of an event. Flaring emissions associated with such events, shall be calculated and included into the SO₂ baseline emissions profile (of the REFEMS cap) by the owner/operator. (Basis: Cumulative Increase)

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16. The owner/operator shall operate A2023 at or above 1,000 degrees F. The District may adjust this minimum temperature, if source test data demonstrates that an alternate temperature is necessary for or capable of maintaining compliance with Parts 7 and 11 of this permit condition. (Basis: Cumulative Increase; BACT/TBACT)

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17. To determine compliance with the temperature requirement in Part 16 of this permit condition, the owner/operator of A2023 shall be equipped with a temperature measuring device capable of continuously measuring and recording the temperature in A2023. The owner/operator shall install, and maintain in accordance with manufacturer's recommendations, a temperature measuring device that meets the following criteria: the minimum and maximum measurable temperatures with the device are 0 degrees F and

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2,000 degrees F, respectively, and the minimum accuracy of the device over this temperature range shall be 1.0 percent of full-scale. (Basis: Regulation 1-521)

18. The owner/operator shall report any non-compliance with Parts 7, 9, 11, 13, and 16 of this permit condition to the Director of the Compliance & Enforcement Division within 96 hours from the time that it is discovered. The submittal shall detail the corrective action taken and shall include the data showing the exceedance as well at the time of occurrence. (Basis: Regulations 1-523.8 and 2-1-403)

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19. The temperature limit in Part 16 of this permit condition shall not apply during an "Allowable Temperature Excursion", provided that the temperature controller setpoint complies with the temperature limit. An Allowable Temperature Excursion is one of the following:

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- a. A temperature excursion not exceeding 20 degrees F; or
- b. A temperature excursion for a period or periods which when combined are less than or equal to 15 minutes in any hour; or
- c. A temperature excursion for a period or periods which when combined are more than 15 minutes in any hour, provided that all three of the following criteria are met.
 - i. the excursion does not exceed 50 degrees F;
 - ii. the duration of the excursion does not exceed 24 hours; and
 - iii. the total number of such excursions does not exceed 12 per calendar year (or any consecutive 12 month period).
- d. Any temperature excursion of more than 50 degrees Fahrenheit for more than 15 minutes in any hour is not an "Allowable Temperature Excursion".

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Two or more excursions greater than 15 minutes in duration occurring during the same 24-hour period shall be counted as one excursion toward the 12-excursion limit. (Basis: Regulation 2-1-403)

20. For each Allowable Temperature Excursion that exceeds 20 degrees F and 15 minutes in duration, the Permit Holder shall keep sufficient records to demonstrate that they meet the qualifying criteria described above. Records shall be retained for a minimum of five years from the date of entry, and shall be made available to the District upon request. Records shall include at least the following information:

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- a. Temperature controller setpoint;
 - b. Starting date and time, and duration of each Allowable Temperature Excursion;
 - c. Measured temperature during each Allowable Temperature Excursion;
 - d. Number of Allowable Temperature Excursions per month, and total number for the current calendar year; and
 - e. All strip charts or other temperature records.
- (Basis: Regulation 2-1-403)

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21. For the purposes of Parts 19 and 20 of this permit condition, a temperature excursion refers only to temperatures below the limit.
(Basis: Regulation 2-1-403)

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Condition # 20042

For S517095, Tank 17095

1. The owner/operator shall not exceed a total throughput at tank 17095 (S-17095) of 27,000,000 barrels in any consecutive 12-month period. [Cumulative Increase]
2. The owner/operator 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
 - b. slotted guidepole sampling wells must be equipped with gasketed sliding covers and with float, sleeve and wiper
[BACT, Cumulative Increase]
3. The owner/operator shall maintain monthly records of the type and net amount of materials stored at S-17095 in a District-approved log for at least 5 years. The owner/operator shall make available such records to the District upon request. [Cumulative Increase]

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Condition # 20398
For S534, Tank 534
S1141, Tank 1141:

1. The owner/operator shall not exceed a total throughput at tank 534 (S534) and Tank 1141 (S1141) of 4,755,000 barrels in any consecutive 12-month period. [Cumulative Increase]
2. The owner/operator shall not store material with an RVP greater than 11 psia. [Cumulative Increase]
3. Sources S534 and S1141 shall be abated by the Vapor Recovery System (A26 and A103) whenever it is used to store organic materials. [BACT; Cumulative Increase]
4. The owner/operator shall maintain monthly records of the type and net amount of materials stored at S534 and S1141 in a District-approved log for at least 5 years. The owner/operator shall make available such records to the District upon request. [Cumulative Increase]

Condition #20755
For S1769, OPC1-Dry Fines Silo V-1021

1. The owner/operator shall not route coke fines from S-1769 to the portable filter truck (A-771) more than 96 hours during any consecutive 12-month basis. (Basis: Regulation 6-1-2301, 6-1-310, and/or 6-1-311)

2. In order to demonstrate compliance with the above permit conditions, the following records shall be maintained in a District approved log. These records shall be kept on site and made available for District inspection for a period of at least five years from the date on which a record is made.

- a. Date and time when A-771 is put in use; the hours shall be summarized for each consecutive 12-month period.
- b. Records of all inspections and all maintenance work including filter replacement for the filter truck. Records of each inspection shall consist of a log containing the date of inspection and the initials of the personnel that inspects the filter. (Basis: Regulation 1-441)

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Condition # 21671
For S6061

1. The owner/operator shall ensure that the hopper trucks that are used to transload flexicoker bed coke from silos S-1767 and S-1768 into rail cars within the refinery are equipped with self-contained particulate control filters which will ensure compliance with the Ringelmann 1 standard in Regulation 6 Rule 1, Section 301. (Basis: Regulation 6-1-301)

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- ~~2. The owner/operator shall ensure the transloading of flexicoker bed coke from hopper trucks into rail cars within the refinery does not exceed 164,250 tons in any consecutive twelve-month period. (Basis: Cumulative Increase)~~
- ~~3. The owner/operator shall maintain daily records of the amount of flexicoker bed coke transloaded from the hopper trucks into the rail cars. The owner/operator shall retain the records on site for five years from the date of entry, and shall make the records available to District staff for inspection upon request. (Basis: Regulation 2-6-501)~~

Condition 20762
For Refinery:

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. Effective April 1, 2004, 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 or other approved District method. For materials listed in Table 1 of Regulation 8 Rule 5, the owner/operator may use Table 1 to determine vapor pressure, rather than Lab Method 28. If the results are above 25.8 mm Hg (0.5 psia), the owner/operator shall report non-compliance in accordance with Standard Condition I.F and shall submit an application to the District for a new permit to operate for the tank as quickly as possible. (Basis: Regulation 8-5-117)
2. Effective April 1, 2004, the results of the testing shall be maintained in a District-approved log for at least five years from the date of the record, and shall be made available to District staff upon request. (Basis: 8-5-117)

Condition 21593:
For Gasoline Dispensing Facility #7114 (S1598) -----

1. The EBW 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-104. 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

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Procedure TP201.1B) and either a Drop Tube/Drain Valve Assembly Leak Test (TP201.1C) or, if operating drop tube overflow prevention devices ("flapper valves"), a Drop Tube Overflow 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-402104. Results shall be submitted to BAAQMD within 15 days of the test date in a District-approved format.

The applicant shall notify Source Test by email at gdfnotice@baaqmd.gov or by FAX at (510) 758-3087, at least 48 hours prior to any testing required for permitting. Test results for all performance tests shall be submitted within fifteen (15) days of testing. Start-up tests results submitted to the District must include the application number and the GDF number. (For annual test results submitted to the District, enter "Annual" in lieu of the application number.) Test results may be submitted by email (gdfresults@baaqmd.gov), FAX (510) 758-3087) or mail (BAAQMD Source Test Section, Attention Hiroshi Doi, 939 Ellis Street, San Francisco CA 94109).

Condition # 21671 For S6061

1. The owner/operator shall ensure that the hopper trucks that are used to transload flexicoker bed coke from silos S-1767 and S-1768 into rail cars within the refinery are equipped with self-contained particulate control filters which will ensure compliance with the Ringelmann 1 standard in Regulation 6 Rule 1, Section 301. (Basis: Regulation 6-1-301)
2. The owner/operator shall ensure the transloading of flexicoker bed coke from hopper trucks into rail cars within the refinery does not exceed 164,250 tons in any consecutive twelve-month period. (Basis: Cumulative Increase)
3. The owner/operator shall maintain daily records of the amount of flexicoker bed coke transloaded from the hopper trucks into the rail cars. The owner/operator shall retain the records on site for five years from the date of entry, and shall make the records available to District staff for inspection upon request. (Basis: Regulation 2-6-501)

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Condition 21896: For Hydrogen Plants (HP-1) and (HP-2)

1. Effective 1/1/05, the owner/operator shall conduct a District-approved annual source test at the deaerator vent and CO₂ vent at S1445 (HP-1) and S1774 (HP-2) to demonstrate 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 ~~60~~45 days of completion of the test. Records of the source test results and any related correspondence with the District's Source Test Section shall be retained on-site by the owner/operator for a minimum of 5 years from the date of the document. (Basis: Regulation 2-6-409.2)

Condition # 22119
For S1760

1. Only gaseous fuel shall be burned in S-1760.
[Basis: Reg. 1-520.1]
2. The owner/operator shall operate S1760 to not exceed ~~0.050~~0.033 lb NO_x/MMBTU (HHV) based on a rolling hourly 8760-hour average heat input. ~~The annual average heat input rate used to calculate the allowable (potential to emit) NO_x emissions shall be the source's maximum permitted daily heat input rate of 3336 MMBTU (HHV)/day expressed on a 24-hour basis as 139 MMBTU (HHV)/hr. Compliance with the NO_x emission rate (in lb NO_x/MMBTU) shall be determined using data gathered by NO_x CEMS and fuel flow meters.~~
[Basis: Shell-EPA Consent Decree]
3. The owner/operator shall ensure that the allowable NO_x emissions from S1760 do not exceed 20.09 tons per year. The allowable NO_x emissions shall include emissions associated with startups, shutdowns, upsets and malfunctions.
[Basis: Shell-EPA Consent Decree]

Condition # 22165
For ESPs A12, A13, and A14 abating CO Boilers S1507, S1509, and S1512, respectively.

1. The owner/operator of Electrostatic Precipitators (ESP) A12, A13, and A14 that abate CO Boilers S1507, S1509, and S1512, respectively, shall conduct continuous ~~monitoring~~ ESP opacity monitoring of ESP operating parameters for reasonable assurance of compliance with Regulations 6-1-310. ~~The owner/operator shall commence continuous monitoring and recording of the operating parameters no later than the ESP monitoring commencement date required under 40 CFR Part 63, Subpart UUU.~~ (Basis: Regulation 2-6-503)

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2. ~~The owner/operator shall conduct an initial compliance demonstration to establish a correlation between selected parameters and particulate mass emission by the deadline set forth in 40 CFR Part 63, Subpart UUU. The owner/operator shall submit the results to the District for its approval. (Basis: Regulation 2-6-503)~~
Initial compliance demonstration conducted.
3. ~~The owner/operator shall establish a range of compliance of the parametric value based on the results of the initial compliance demonstration. (Basis: Regulation 2-6-503)~~
Established a range of compliance based on the results of the initial compliance demonstration.
4. ~~Each time the measured parametric value exceeds the established range of compliance (pursuant to the initial compliance demonstration), the owner/operator shall conduct a source test to determine compliance with Regulations 6-310. The owner/operator shall conduct the source test within 45 days of detection of the exceedance. (Basis: Regulation 2-6-503)~~
Opacity CEM at A-12, A-13, and A-14 would ensure continued compliance. Therefore, source test not necessary.
5. ~~Exceedences of parametric compliance range are deviations and shall be reported as deviations in all Title V reports. (Basis: Regulation 2-6-503)~~
Deviation reporting redundant to Title V regulation and BAAQMD Regulation 2-6.
- 5-6. ~~The owner/operator shall operate A12, A13, and A14 that abate CO Boilers S1507, S1509, and S1512, respectively, with no more than one 6-minute average in an hour that exceeds 30% opacity. An exceedance of the opacity limit shall be deemed an exceedance of the particulate limit in Regulation 6-1-310. (Basis: Regulation 2-6-503)~~

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Condition #22820

For S6051 through S6057, S6059, S6060 Diesel Engines:

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1. Operating for reliability-related activities is limited to 20 hours per year per engine.
[Basis: "Stationary Diesel Engine ATCM" section 93115, title 17, CA Code of Regulations, subsection (e)(2)(B)(3) or Regulation 2-5]
2. The owner or operator shall operate each emergency standby engine only for the following purposes: to mitigate emergency conditions, for emission testing to demonstrate compliance with a District, state or Federal emission limit, or for reliability-related activities (maintenance and other testing, but excluding emission testing). Operating while mitigating emergency conditions or while emission testing to show compliance with District, state or Federal emission limits is not limited.
[Basis: "Stationary Diesel Engine ATCM" section 93115, title 17, CA Code of Regulations, subsection (e)(2)(A)(3)] or (e)(2)(B)(3)]

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3. The owner/operator shall operate each emergency standby engine only when a non-resettable totalizing meter (with a minimum display capability of 9,999 hours) that measures the hours of operation for the engine is installed, operated and properly maintained.
[Basis: "Stationary Diesel Engine ATCM" section 93115, title 17, CA Code of Regulations, subsection(e)(4)(G)(1)]
4. Records: The owner/operator shall maintain the following monthly records in a District-approved log for at least 36 months from the date of entry (60 months if the facility has been issued a Title V Major Facility Review Permit or a Synthetic Minor Operating Permit). Log entries shall be retained on-site, either at a central location or at the engine's location, and made immediately available to the District staff upon request.
 - a. Hours of operation for reliability-related activities (maintenance and testing).
 - b. Hours of operation for emission testing to show compliance with emission limits.
 - c. Hours of operation (emergency)
 - d. For each emergency, the nature of the emergency condition.
 - e. Fuel usage for each engine(s).[Basis: "Stationary Diesel Engine ATCM" section 93115, title 17, CA Code of Regulations, subsection (e)(4)(D)]

Condition # 23003

For S6062: Ethanol Tank.

1. The owner/operator of S-6062 shall not exceed 1,500,000 bbl of denatured ethanol throughput during any twelve-month period. The owner operator may store materials other than denatured ethanol provided that the owner/operator demonstrates by submitting to the District a Data Form X, an MSDS, and a demonstration that there is no increase in emissions and the toxic emissions will not exceed the respective toxic trigger levels in Rule 2-5 (Basis: Cumulative increase, Rule 2-5)
2. The owner/operator of S-6062 shall maintain records of storage tank throughput, material type, and all inspection records. These records shall be summarized on a monthly basis, and may be in the form of computer-generated data, which is available to District personnel on short notice (rather than actual paper copies of throughput data). These records shall be kept on file for a minimum of 5 years. (Basis: Cumulative Increase, Rule 2-5)

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Condition # 23559
For S1510

1. Only gaseous fuel shall be burned in S1510.
[Basis: Regulation 2-1-301]
2. The owner/operator shall operate S1510 to not exceed 0.05 lb NO_x/MMBTU (HHV) based on a rolling hourly 8,760-hour average heat input. Compliance with the NO_x emission rate (in lb NO_x/MMBTU) shall be determined using data gathered by NO_x CEMS and fuel flow meters.
[Basis: Shell-EPA Consent Decree]
3. The owner/operator shall ensure that the allowable NO_x emissions from S1510 do not exceed 43.8 tons per year. The allowable NO_x emissions shall include emissions associated with startups, shutdowns, upsets and malfunctions.
[Basis: Shell-EPA Consent Decree]

Condition # 23560
For S1511

1. Only gaseous fuel shall be burned in S1511.
[Basis: Regulation 2-1-301]
2. The owner/operator shall operate S1511 to not exceed 0.033 lb NO_x/MMBTU (HHV) based on a rolling hourly 8,760-hour average heat input. Compliance with the NO_x emission rate (in lb NO_x/MMBTU) shall be determined using data gathered by NO_x CEMS and fuel flow meters.
[Basis: Shell-EPA Consent Decree]
3. The owner/operator shall ensure that the allowable NO_x emissions from S1511 do not exceed 8.6724 tons per year. The allowable NO_x emissions shall include emissions associated with startups, shutdowns, upsets and malfunctions.
[Basis: Shell-EPA Consent Decree]

Condition # 23605:
For S6068

1. The owner/operator of S6068 shall not exceed 1,983,600 bbl of asphalt throughput during any twelve-month period. The owner operator may store materials other than asphalt provided that the owner/operator demonstrates by submitting to the District a

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Data Form X, an MSDS, and a demonstration that there is no increase in emissions and the toxic emissions will not exceed the respective toxic trigger levels in Rule 2-5. (Basis: Cumulative increase, Regulation 2, Rule 5)

2. The owner/operator of S6068 shall not exceed the following loading rates. Each loading rate is associated with a temperature. Both the liquid in the tank and the liquid that is loaded shall be at or below the temperature associated with each loading rate during loading.

| <u>Temperature, degrees F</u> | <u>Loading rate, bbls/day</u> |
|-------------------------------|-------------------------------|
| <u>300</u> | <u>26,400</u> |
| <u>310</u> | <u>20,000</u> |
| <u>320</u> | <u>15,200</u> |

(Basis: Regulation 2-1-403)

3. The owner/operator of S6068 shall not store asphalt in this tank at a temperature above 320 degrees F. (Basis: Regulation 2-1-305)
4. Within 60 days of maximum production rate but no more than 180 days after initial startup, the owner/operator of S6068 shall control the tank with mist eliminator A57 during all loading operations. Prior to startup of the mist eliminator, the owner/operator of S6068 shall not store asphalt in this tank at a temperature above 300 degrees F. (Basis: Regulation 6-1-310 and 40 CFR 60, Subpart UU, Section 60.472(c)).
5. The owner/operator of S6068 shall prevent the discharge into the atmosphere exhaust gases with opacity greater than 0 percent, except for one consecutive 15-minute period in any 24-hour period when the transfer lines are being blown for clearing. If any opacity is observed, the owner/operator shall cease loading immediately and take corrective action. (Basis: 40 CFR 60, Subpart UU, Section 60.472 (c))
6. In order to demonstrate initial compliance with the NSPS standard, the owner/operator shall use EPA Method 9 and the procedures in 40 CFR 60.11. The owner/operator shall demonstrate compliance during loading. (Basis: 40 CFR 60, Subpart UU, Section 60.474(c)(5))
7. In order to demonstrate ongoing compliance with the NSPS standard, the owner/operator shall use EPA Method 22 once every quarter. The owner/operator shall demonstrate compliance during loading. If loading does not occur during the quarter, the owner/operator shall use EPA Method 22 at the next loading event and resume the quarterly schedule thereafter. The owner/operator shall maintain visible emissions monitoring logs on site for a period of up to 5 years from the first date of

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entry. The owner/operator shall include the name of the person performing the visible emission check, the results of each inspection and the other records requirements listed in EPA Method 22. (Basis: Regulation 2-6-409.2.2, 2-6-503)

8. The owner/operator of S6068 shall maintain records of storage tank throughput, temperature of the tank, temperature of the loaded asphalt during loading, material type, and all inspection records. These records shall be summarized on a monthly basis, and may be in the form of computer-generated data, which is available to District personnel on short notice (rather than actual paper copies of throughput data). These records shall be kept on file for a minimum of 5 years. (Basis: Cumulative Increase, Regulation 2, Rules 5 and 6)

Condition # 24162:
For S1424

1. The owner/operator of S-1424 "DH Naphtha Straightrun Hydrotreater (NHT) shall ensure that the daily and annual throughput of naphtha range material at the above source does not exceed 31,500 barrels per day and 10,609,974 barrels per year, respectively. (Basis: Regulation 2-1-302)
2. To demonstrate compliance with part 1 of this permit condition, the owner/operator of S-1424 shall maintain records of materials throughput at the above source on a daily basis. These records shall be summarized on a monthly basis, and may be in the form of computer-generated data, which is available to District personnel on short notice (rather than actual paper copies of throughput data). These records shall be kept on file for a minimum of 5 years from the date of entry. (Basis: Cumulative Increase, Regulation 2-1-403)

Condition # 24263:
For S-1490, S-1491, S-1492, S-1493, S-1494, S-1495, S-1496, S-1497, S-1498, and S-1499.

1. Only gaseous fuel shall be burned in S-1490, S-1491, S-1492, S-1493, S-1494, S-1495, S-1496, S-1497, S-1498, and S-1499. [Basis: Regulation 2-1-301]
2. The owner/operator shall operate S-1490, S-1491, S-1492, S-1493, S-1494, S-1495, S-1496, S-1497, S-1498, and S-1499 to not exceed 0.033 lb NOx/MMBTU (HHV) based on a rolling hourly 8,760-hour average heat input. [Basis: Shell-EPA Consent Decree]
3. The owner/operator shall ensure that the allowable NOx emissions from S-1490,

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S-1491, S-1492, S-1493, S-1494, S-1495, S-1496, S-1497, S-1498, and S-1499 do not exceed 127.34 tons per year. The allowable NOx emissions shall include emissions associated with startups, shutdowns, upsets and malfunctions.
[Basis: Shell-EPA Consent Decree]

Condition #24298

For Gasoline Dispensing Facility #7114 (S1598)

1. The VST EVR Phase II Vapor Recovery System with the Veeder-Root Vapor Polisher without ISD, including all associated underground plumbing, shall be installed, operated, and maintained in accordance with the most recent revision of the California Air Resources Board (CARB) Executive Order (E.O.). VR-203. 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/operator of the facility shall maintain records in accordance with the following requirements. Records shall be maintained on site and made available for inspection for a period of 24 months from the date the record is made.
 - a. Monthly throughput of gasoline pumped, summarized on an annual basis
3. All applicable components shall be maintained to be leak free and vapor tight. Leak Free, as per BAAQMD (District) Regulation 8-7-203, is a liquid leak of no greater than three drops per minute. Vapor Tight, as per District Regulation 8-7-206, is a leak of less than 100 percent of the lower explosive limit on a combustible gas detector measured at a distance of 1 inch from the source or absence of a leak as determined by the District Manual of Procedures, Volume IV, ST-30 or CARB Method TP-201.3.
4. The VST EVR Phase II system with the Veeder-Root Vapor Polisher without ISD shall be capable of demonstrating on-going compliance with the vapor integrity requirements of CARB Executive Order E.O. VR-203. The owner or operator shall conduct and pass the following tests at least once in

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each consecutive 12-month period following successful completion of start-up testing. Tests shall be conducted and evaluated using the below referenced test methods and standards.

- a. Static Pressure Performance Test - TP-201.3
- b. Dynamic Back Pressure Test - TP-201.4 (7/3/02) in accordance with the condition listed in item 1 of the Vapor Collection Section of E.O. VR-203, Exhibit 2. The dynamic back pressure shall not exceed 0.35" WC @ 60 CFH and 0.62" WC @ 80 CFH
- c. Liquid Removal Test - E.O. VR-203, Exhibit 5, Option 1 (Only test hoses containing more than 25 ml liquid)
- d. Vapor Pressure Sensor Verification Test - E.O. VR-203, Exhibit 8.
- e. Veeder-Root Vapor Polisher Operability Test. E.O. VR-203, Exhibit 11
- f. Veeder-Root Vapor Polisher Emissions Test - E.O. VR-203, Exhibit 12

5. The applicant shall notify Source Test by email at gdfnotice@baaqmd.gov or by FAX at (510) 758-3087, at least 48 hours prior to any testing required for permitting. Test results for all performance tests shall be submitted in a District-approved format within thirty days of testing. Start-up tests results submitted to the District must include the application number and the GDF number. (For annual test results submitted to the District, enter "Annual" in lieu of the application number.) Test results may be submitted by email (gdfresults@baaqmd.gov), FAX (510) 758-3087) or mail (BAAQMD Source Test Section, 939 Ellis Street, San Francisco CA 94109).

6. The maximum length of the coaxial hose assembly, including breakaway, swivels, and whip hoses, shall be fifteen (15) feet..

7. The dispensing rate shall not exceed ten (10.0) gallons per minute (gpm), nor be less than six (6.0) gpm with the nozzle trigger at the highest setting. Compliance with this condition shall be verified using the applicable provisions of E.O. VR-203, Ex. 5. Flow limiters may not be used.

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8. The TLS console controlling the Veeder-Root Vapor Polisher shall be equipped with a printer and have an open RS232 port that is accessible to District staff during operating hours.
9. Except when necessary for testing and maintenance, the Veeder-Root Vapor Polisher shall be on and in automatic vapor processor mode with the inlet valve in the open position per E.O. VR-203, Ex. 2. The handle shall not be removed for any reason.
10. The station shall maintain OSHA-approved access to the Veeder-Root Vapor Polisher. This access should be provided immediately upon request by District personnel
11. Security tags shall be installed and maintained on the Veeder-Root Vapor Polisher. A Veeder-Root Vapor Polisher Operability Test and a Veeder-Root Vapor Polisher Emissions Test shall be performed after the replacement of any damaged or missing tags using the above referenced test methods and subject to the above notification and reporting requirements.
12. Each storage tank vent pipe shall be equipped with a CARB certified pressure/vacuum relief valve as required by the applicable Phase I E.O.. Vents pipes may be manifolded to reduce the number of relief valves needed. No relief valve shall be installed on the Veeder-Root Vapor Polisher outlet.

AMP Condition #24335:
For S-1426

1. In lieu of the daily testing using Method 8 (40 CFR Part 60, Appendix A) and for the purposes of demonstrating compliance with the sulfur oxides (SOx) limit (calculated as sulfur dioxide) of 20 lb/ton of coke burn-off in Section 60.104(b)(2), the owner/operator of the CCU (S-1426) shall be permitted to use information recorded by the sulfur dioxide (SO2) CEMS at each of the three CO boiler stacks located at S-1507, S-1509, and S-1512 in concert with the appropriate mass balance calculations. The owner/operator shall use a factor of 1.072 to correct the SO2 CEMS concentration for unmeasured sulfur trioxide

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(SO₃). (Basis: Alternative Monitoring Plan, 40 CFR 60.13(i))

2. The owner/operator shall certify the SO₂ CEMs at each of the three CO boiler stacks located at S-1507, S-1509, and S-1512 by Performance Specification 2 of Appendix B of 40 CFR Part 60, and the CEMs will be quality assured through annual relative accuracy test audits (RATA). (Basis: Alternative Monitoring Plan, 40 CFR 60.13(i))

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3. The owner/operator shall measure oxygen (O₂), carbon monoxide (CO) and carbon dioxide (CO₂) in the CCU regenerator off-gas with O₂, CO and CO₂ CEMS in place of using Methods 1,2,3 and 4 in 40 CFR Part 60, Appendix A. The CEMS data shall be used to determine the flue gas flow rate and moisture content by nitrogen balance around the CCU regenerator and fuel combustion stoichiometry. (Basis: Alternative Monitoring Plan, 40 CFR 60.13(i))

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4. The owner/operator shall certify the O₂, CO and CO₂ CEMs by the appropriate performance specifications in Appendix B of 40 CFR Part 60 and quality assured through annual RATA. (Basis: Alternative Monitoring Plan, 40 CFR 60.13(i))

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5. Credits for the portion of SO₂ derived from auxiliary fuels, such as refinery fuel gas and flexigas, burned in the CO boilers would be determined through hydrogen sulfide (H₂S) CEMS that are in place to demonstrate compliance with the NSPS J H₂S limit. The H₂S measured by the CEMS would be converted into equivalent SO₂ value and would be subtracted from the total SO_x. The owner/operator shall use the corrected SO_x emission rates for auxiliary fuel credits, the CO boiler dry stack flow rate, and approved mass balance assumptions in order to calculate the equivalent SO_x/Mg coke burn-off. The rolling 7-day average SO_x emission rate from S-1426 would be based on using the calendar day averages of each measured parameter. (Basis: Alternative Monitoring Plan, 40 CFR 60.13(i))

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AMP Condition #24336:

For S-4002, S-4003, and S-4141

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1. For the purposes of demonstrating compliance with Section 60.104(a)(1), the owner/operator shall test the caustic strength of the regenerated caustic at the Caustic Regenerator #2 (CR-2) once per day to ensure a minimum caustic strength of 2 weight percent of sodium hydroxide. If the measured value of the caustic is less than 2 percent by weight of sodium hydroxide the owner/operator shall conduct Dräger-Tube® sampling at unit pressure control valve "49 PV-137A" and initiate corrective action. (Basis: Alternative Monitoring Plan, 40 CFR 60.13(i))

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2. The owner/operator shall maintain the following records for a period of up to 5 years from the last date of entry on site and shall make them available to District representatives for review upon request:
- a. Daily test results of the caustic strength of the regenerated caustic at CR-2.
 - b. The time and date of when Dräger-Tube ® sampling was warranted; the Dräger-Tube ® sampling test results; the time and date of when the corrective actions were taken; and a report summarizing the root cause of the problem.
(Basis: Regulation 2-6-501)

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AMP Condition #24337: For S-1470

1. Contingent on EPA's approval of their Alternative Monitoring Plan (AMP) and for the purposes of demonstrating compliance with Section 60.104(a)(1) for fuel gas streams that do not meet the inherently low sulfur exemption per 40 CFR 60.105(a)(4)(iv) or have not applied for an exemption per 40 CFR 60.105(b), the owner/operator shall take a single sample from a fuel gas stream with the highest sulfur specification once a day just upstream of V-395, the LPG blowdown drum, using a Gastec #4LL H2S tube. No additional sampling would be warranted, for products with low sulfur specifications, if the single sample taken for a fuel gas stream with the highest sulfur specification demonstrates compliance with the H2S limit.
(Basis: Alternative Monitoring Plan, 40 CFR 60.13(i))
2. For samples taken to demonstrate compliance with Section 60.104(a)(1) in accordance with part 1 of this permit condition, a detector tube result greater than 162 ppmv shall warrant the owner/operator to lower the LPG loading rate in order to minimize volatilization of H2S, or the owner/operator shall cease the LPG loading operation.
(Basis: Alternative Monitoring Plan, 40 CFR 60.13(i))
3. Following EPA's approval of their AMP application, the owner/operator shall submit a permit application to the District per permit revision procedures outlined in Regulation 2 "Permits", Rule 6 "Major Facility Review" to revise Table IV "Source-Specific Applicable Requirements" and Table VII "Applicable Limits and Compliance Monitoring Requirements" in the Major Facility Review permit. (Basis: Regulation 2-1-403)
4. Following EPA's rejection of their AMP application, the owner/operator shall submit a permit application to the District to administratively amend the Major Facility Review permit at which time all parts of this permit condition will be deleted from Section VI "Permit Conditions" per permit revision procedures outlined in Regulation 2 "Permits", Rule 6 "Major Facility Review".

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VI. Permit Conditions

(Basis: Regulation 2-1-403)

AMP Condition #24338:
For S-4180

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1. For the purposes of demonstrating compliance with the NSPS J SO2 limit of 250 ppmv (dry basis) at zero percent excess in Section 60.104(a)(2)(i), the owner/operator shall be permitted to install a SO2 CEM analyzer at SRU #4 (S-4180) that shall be spanned at 250 ppm and 2,500 ppm. (Basis: Alternative Monitoring Plan, 40 CFR 60.13(i))

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AMP Condition #24339:
For S-4161

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1. For the purposes of demonstrating compliance with the 3-hour H2S concentration limit of 162 ppmv in Section 60.104(a)(1) of NSPS J, the owner/operator of S-4161 shall monitor the outlet of Hydrogenation Reactor Vessel (V-104), and the zinc oxide sulfur removal beds at Desulfurizer Vessels (V-105 A & B) once a week using Dräger tubes which are capable of measuring H2S concentrations anywhere between 0.5 to 15 ppmv. In the event the concentration of H2S monitored at the outlet of the lead Desulfurizer Vessel is greater than 90% of the inlet concentration, the owner/operator shall take the vessel out of service and replace the catalyst in its bed. During such times that V-105A is out of service, the owner/operator shall ensure that H2S emissions are abated by the lag Desulfurizer Vessel which shall serve as the lead vessel until such time the zinc oxide sulfur removal beds in V-105A are replaced.
(Basis: Alternative Monitoring Plan, 40 CFR 60.13(i))

2. The owner/operator shall maintain the following records for a period of up to 5 years from the last date of entry on site and shall make them available to District representatives for review upon request:
a. Weekly Dräger tubes monitoring results taken at the outlet of V-104, V-105 A & B.
b. The time and date when the catalyst in V-105A was replaced; the Dräger-Tube ® sampling test results that triggered V-105A to be taken out of service; the time and date of when the corrective actions were taken; and a report summarizing the root cause of the problem.
(Basis: Regulation 2-6-501)

VII. APPLICABLE LIMITS & COMPLIANCE MONITORING REQUIREMENTS

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

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

Table VII – A
Applicable Limits and Compliance Monitoring Requirements
 S3 - TANK 3, S4 - TANK 4, S257 - TANK 257, S548 - TANK 548, S967 - TANK 967,
 S1235 - TANK 739 CHEM STORAGE, S1236 - TANK 740 CHEM STORAGE,

| 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 – A
Applicable Limits and Compliance Monitoring Requirements
 S3 - TANK 3, S4 - TANK 4, S257 - TANK 257, S548 - TANK 548, S967 - TANK 967,
 S1235 - TANK 739 CHEM STORAGE, S1236 - TANK 740 CHEM STORAGE,

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---------------|---------------------------------|--------|-----------------------|---|---------------------------------|------------------------------|-----------------|
| Through-put | BAAQMD Condition #18618, Part 1 | N | | <p>For S3, S4, S967, S1076 <u>Daily throughput limit</u> $S3+S4+S967+S1076$ $< 130,971 \text{ bbl/day}$ Annual throughput limits $S3+S4+S967+S1076$ $< 47,804,415 \text{ bbl/yr}$</p> <p>For S257 <u>Daily throughput limit</u> $< 10,526 \text{ bbl/day}$ <u>Annual throughput limit</u> $< 3,841,990 \text{ bbl/yr}$</p> <p>For S548, S1235, S1236 <u>Daily throughput limit</u> $S548+S549+S1006$ $+S1235+S1236$ $< 5,412 \text{ bbl/day}$ <u>Annual throughput limits</u> $S548+S549+S1006$ $+S1235+S1236$ $< 1,975,380 \text{ bbl/yr}$</p> | BAAQMD Condition #18618, Part 2 | P/A | Records |

Table VII – B
Applicable Limits and Compliance Monitoring Requirements
 S4307 – TANK 14687 MDEA MAKE-UP, S4309 – TANK 14517 DEA

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---------------------------------------|---------------------------------|--------|-----------------------|--|--|------------------------------|------------------------------------|
| NOx, CO, SO ₂ , PM and VOC | BAAQMD Condition #12271, Part A | Y | | Emissions from Clean Fuels Project sources shall not exceed 199.4 tpy NOx, 252.4 tpy CO, 139.7 tpy SO ₂ , 59.1 tpy PM, 132.0 tpy VOC, 20.8 ton/mon NOx, 26.3 ton/mon CO, 14.6 ton/mon SO ₂ , 6.2 ton/mon PM and 13.7 ton/mon VOC | BAAQMD Condition #12271, Part A, B, C, L and M | P/M and A | Calculation, records and reporting |

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – B
Applicable Limits and Compliance Monitoring Requirements
S4307 – TANK 14687 MDEA MAKE-UP, S4309 – TANK 14517 DEA

| 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 #12271, Part 51 | Y | | Tank cleaning VOC emissions shall be vented to a control device with 95% capture and destruction efficiency on a mass basis until concentration of organic compounds in tank is less than 10,000 ppm as methane | BAAQMD Regulation 8-5-404, 8-5-502, and 8-5-603.2 | P/A | Source Test |

Table VII – C
Applicable Limits and Compliance Monitoring Requirements
S13 TANK 13

| See Table VII – X for additional requirements: | | | | | | | |
|--|----------------------------------|---|--|---|--|---|---|
| VOC | BAAQMD Condition #12271, Part 45 | Y | | Tank shall be kept leak free, less than 500 ppm above background as methane | NESHAP Subpart FF 61.350, 61.356(k) and 61.357(d)(8) and NESHAP Subpart CC 63.642(e), 63.642(f) and 63.654(i)(4) | P/Q-visual and A-measurements and reports | Visual inspections, portable HC detector (EPA Method 21) and records of detectable emissions, inspections and repairs |

Table VII – Da
Applicable Limits and Compliance Monitoring Requirements
CLOSED VENT SYSTEMS & CONTROL DEVICES
S14 – TANK 14, S19 - TANK 19, S20 – TANK 20, S483 – TANK 483, S484 – TANK 484,
S530 – TANK 530, S534 – TANK 534,
S610 – TANK 610, S611 – TANK 611, S612 – TANK 612, S613 – TANK 613, S1070 – TANK 1070,
S1133 – TANK 1133, S1134 – TANK 1134, S1139 – TANK 1139, S1140 – TANK 1140,
S1141 – TANK 1141

VII. Applicable Limits and Compliance Monitoring 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 8-5-306 | Y N | | Control device standards; includes 95% efficiency requirement | BAAQMD 8-5-502 and 8-5-603 4 | P/E | Records of liquids stored. Emissions of organic compounds measured using MOP, Vol. IV, ST-34 |
| VOC | BAAQMD 8-5-328.1 | Y N | | Tank cleaning control by liquid balanceing in which the resulting organic liquid has a TVP is less than 0.5 psia | BAAQMD 8-5-331 and 8-5-501 | P/E | Records |
| VOC | BAAQMD Condition #7618, Part D.1.a | Y | | No more than 12 tanks shall be used to store a liquid with a true vapor pressure of 1.5 psig or greater. (basis: Cumulative Increase) (Condition applies to S14, S20, S483, S484, S530, S531, S532, S1139, S1140, S1141, S1751, S1752, S1753, S1754, S1757, S1758, T 538, T 1330, T 1331, T 1332, T 1333, T 1336, and T 1337) | BAAQMD Condition #7618, Part G | P/A | Reporting |
| VOC | <u>BAAQMD Condition # 18153 Part 1</u> | <u>Y</u> | | <u>Applies to S1070 Total liquid throughput shall not exceed 175,200 thousand gallons during any consecutive twelve-month period</u> | <u>BAAQMD Condition # 18153 Part</u> | <u>P/M</u> | <u>Records</u> |
| | <u>BAAQMD Condition # 18153 Part 2</u> | <u>Y</u> | | <u>Applies to S1070 Materials stored in S1070 shall be limited to the following:</u> <u>a. Hydrocarbon Blanket Layer (RVP 3);</u> <u>b. Sour Water</u> | <u>BAAQMD Condition # 18153 Part 2ci and 2cii</u> | <u>P/E</u> | <u>Records</u> |

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – Da
Applicable Limits and Compliance Monitoring Requirements
CLOSED VENT SYSTEMS & CONTROL DEVICES
S14 – TANK 14, S19 - TANK 19, S20 – TANK 20, S483 – TANK 483, S484 – TANK 484,
S530 – TANK 530, S534 – TANK 534,
S610 – TANK 610, S611 – TANK 611, S612 – TANK 612, S613 – TANK 613, S1070 – TANK 1070,
S1133 – TANK 1133, S1134 – TANK 1134, S1139 – TANK 1139, S1140 – TANK 1140,
S1141 – TANK 1141

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---------------|---|--------|-----------------------|---|--|------------------------------|-----------------|
| VOC | <u>BAAQMD Condition #18646, Part 2bj</u> | Y | | <u>Applies to S19 and S1139 POC emissions, based on the maximum throughput in Part 1, do not exceed 20,731 pounds per year, as calculated by the EPA Tanks Program version 4.08 (or subsequent version) with a 99.5% reduction for vapor recovery</u> | <u>BAAQMD Condition #18646, Part 4</u> | P/M | <u>Records</u> |
| VOC | <u>BAAQMD Condition # 20398 Part 1</u> | Y | | <u>Applies to S534 and S1141 Throughput of S543+S1141 < 4,755,000 bbl/yr</u> | <u>BAAQMD Condition # 20398 Part 4</u> | PM | <u>Records</u> |
| VOC | <u>BAAQMD Condition # 20398 Part 2</u> | Y | | <u>Applies to S534 and S1141 RVP < 11 psia</u> | <u>BAAQMD Condition # 20398 Part 4</u> | PM | <u>Records</u> |
| HAP | <u>BAAQMD Condition #18646, Part 2bii</u> | N | | <u>Applies to S19 and S1139 Toxic emissions in lb/yr, based on the maximum throughput in Condition 1, do not exceed any risk screening trigger level specified in Table 2-1-316</u> | <u>BAAQMD Condition #18646, Part 4</u> | P/M | <u>Records</u> |

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – Da
Applicable Limits and Compliance Monitoring Requirements
CLOSED VENT SYSTEMS & CONTROL DEVICES
S14 – TANK 14, S19 - TANK 19, S20 – TANK 20, S483 – TANK 483, S484 – TANK 484,
S530 – TANK 530, S534 – TANK 534,
S610 – TANK 610, S611 – TANK 611, S612 – TANK 612, S613 – TANK 613, S1070 – TANK 1070,
S1133 – TANK 1133, S1134 – TANK 1134, S1139 – TANK 1139, S1140 – TANK 1140,
S1141 – TANK 1141

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---------------|---------------------------------|--------|-----------------------|--|---------------------------------|------------------------------|-----------------|
| Through-put | BAAQMD Condition #18618, Part 1 | N | | <p><u>Applies to S14</u> <u>Daily throughput</u> <u>< 143.657 BPD</u> <u>Annual throughput</u> <u>< 52,434,805 BPY</u></p> <p><u>Applies to S20</u> <u>Daily throughput</u> <u>< 13,131 BPD</u> <u>Annual throughput</u> <u>< 4,792,815 BPY</u></p> <p><u>Applies to S483, S484, & S530</u> <u>Daily throughput</u> <u>S483+S484+S530 + S532+S545</u> <u>< 217,097 BPD</u> <u>Annual throughput</u> <u>< 79,240,405 BPY</u></p> <p><u>Applies to S610 and S1133</u> <u>Daily throughput</u> <u>S610+S1133</u> <u>< 48,000 BPD</u> <u>Annual throughput</u> <u>< 17,520,000 BPY</u></p> <p><u>Applies to S611</u> <u>Daily throughput</u> <u>< 82,217 BPD</u> <u>Annual throughput</u> <u>< 30,009,205 BPY</u></p> <p><u>Applies to S612 and S613</u> <u>Daily throughput</u> <u>S612+S613</u> <u>< 210,686 BPD</u> <u>Annual throughput</u> <u>< 76,900,390 BPY</u></p> <p><u>Applies to S1134</u> <u>Daily throughput</u> <u>S10359S1046+S1051+S1134+S1159+S1753+S1754+S1755+ S1756</u> <u>< 508,114 BPD</u> <u>Annual throughput</u></p> | BAAQMD Condition #18618, Part 2 | P/A | Records |
| | | | | | Revision | Renewal date: April 4, 2008 | |

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – Da
Applicable Limits and Compliance Monitoring Requirements
CLOSED VENT SYSTEMS & CONTROL DEVICES
S14 – TANK 14, S19 - TANK 19, S20 – TANK 20, S483 – TANK 483, S484 – TANK 484,
S530 – TANK 530, S534 – TANK 534,
S610 – TANK 610, S611 – TANK 611, S612 – TANK 612, S613 – TANK 613, S1070 – TANK 1070,
S1133 – TANK 1133, S1134 – TANK 1134, S1139 – TANK 1139, S1140 – TANK 1140,
S1141 – TANK 1141

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---------------|---------------------------------|--------|-----------------------|--|---------------------------------|------------------------------|-----------------|
| Through-put | BAAQMD Condition #18646, Part 1 | Y | | Applies to S19 and S1139 Combined throughput shall not exceed 7,300,000 barrels in any 12-month period and combined gasoline throughput shall not exceed 1,650,000 barrels in any 12-month period | BAAQMD Condition #18646, Part 4 | P/M | Records |

Table VII – Db
Applicable Limits and Compliance Monitoring Requirements
CLOSED VENT SYSTEMS & CONTROL DEVICES
S534 – TANK 534, S1141 – TANK 1141

| 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 # 20398 Part 1 | Y | | Throughput of S543+S1141 < 4,755,000 bbl/yr | BAAQMD Condition # 20398 Part 4 | PM | Records |
| | BAAQMD Condition # 20398 Part 2 | Y | | RVP < 11 psia | BAAQMD Condition # 20398 Part 4 | PM | Records |

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – Dc
Applicable Limits and Compliance Monitoring Requirements
CLOSED VENT SYSTEMS & CONTROL DEVICES
S13 - TANK 13
S1751 – TANK 1330, S1752 – TANK 1331,
S1753 – TANK 1332 GASOLINE, S1754 – TANK 1333 GASOLINE,
S1757 – TANK 1336, S1758 – TANK 1337

| 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 8-5-306 | Y N | | Control device standards; includes 95% efficiency requirement | BAAQMD 8-5-502 and 8-5-603 ± | P/E | Records of liquids stored. Emissions of organic compounds measured using MOP, Vol. IV, ST-34 |
| VOC | BAAQMD 8-5-328.1 | Y | | Tank cleaning control by liquid balancing in which the resulting organic liquid has a TVP is less than 0.5 psia | BAAQMD 8-5-501 | P/E | Records |
| VOC | BAAQMD 8-5-328.1 | Y N | | Tank cleaning control device standards; includes 90% efficiency requirement | BAAQMD 8-5-331 , 8-5-502, 2 and 8-5-603 ± | P/A | Annual source test using MOP, Vol. IV, ST-7 |
| VOC | NSPS Subpart Ka 60.112a(a)(3) | Y | | Control device standards; at least 95% efficient | 40 CFR 63.640(d)(5) | N | None |
| VOC | <u>BAAQMD Condition #7618, Part D.1.a</u> | <u>Y</u> | | <u>No more than 12 tanks shall be used to store a liquid with a true vapor pressure of 1.5 psig or greater. basis: Cumulative Increase</u> (Condition applies to <u>S14, S20, S483, S484, S530, S531, S532, S1139, S1140, S1141, S1751, S1752, S1753, S1754, S1757, S1758, T 538, T 1330, T 1331, T 1332, T 1333, T 1336, and T 1337</u>) | <u>BAAQMD Condition #7618, Part G</u> | <u>P/A</u> | <u>Reporting</u> |

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VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – Dc
Applicable Limits and Compliance Monitoring Requirements
CLOSED VENT SYSTEMS & CONTROL DEVICES

S13 - TANK 13

**S1751 – TANK 1330, S1752 – TANK 1331,
 S1753 – TANK 1332 GASOLINE, S1754 – TANK 1333 GASOLINE,
 S1757 – TANK 1336, S1758 – TANK 1337**

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---------------|---------------------------------|--------|-----------------------|--|---------------------------------|------------------------------|-----------------|
| Through-put | BAAQMD Condition #18618, Part 1 | N | | <p>Applies to S1751, S1752, S1753, and S1754 Annual throughput limits</p> <p>Applies to S13 Daily throughput limit < 36,000 BPD Annual throughput limit < 13,140,000 BPY</p> <p>Applies to S1751 and S1752 Daily throughput S1751+S1752 < 45,953 BPD Annual throughput < 16,772,845 BPY</p> <p>Applies to S1753 and S1754 Daily throughput S1031+S1046+S1051+S1134+S1159+S1753+S1754+S1755+ S1756 < 508,114 BPD Annual throughput < 185,461,610 BPY</p> <p>Applies to S1757 and S1758 Daily throughput S1757+S1758+S4334 < 125,829 BPD Annual throughput < 45,927,585 BPY</p> | BAAQMD Condition #18618, Part 2 | P/A | Records |

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII - E
Applicable Limits and Compliance Monitoring Requirements
CLOSED VENT SYSTEMS & CONTROL DEVICES

~~S14 TANK 14, S20 TANK 20, S483 TANK 483, S484 TANK 484, S530 TANK 530, S532 TANK 532, S1139 TANK 1139, S1140 TANK 1140, S1141 TANK 1141, S1751 TANK 1330, S1752 TANK 1331, S1753 TANK 1332 GASOLINE, S1754 TANK 1333 GASOLINE, S1757 TANK 1336, S1758 TANK 1337~~

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|--|------------------------------------|--------|-----------------------|--|---|------------------------------|----------------------|
| See Table VII - Da, Db, De and L for additional requirements. | | | | | | | |
| VOC | BAAQMD Condition #7618, Part D.1.a | Y | | No more than 12 tanks shall be used to store a liquid with a true vapor pressure of 1.5 psig or greater. [basis: Cumulative Increase] | BAAQMD Condition #7618, Part G | P/A | Reporting |

Table VII - F
Applicable Limits and Compliance Monitoring Requirements
S19 TANK 19, S1139 TANK 1139

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|--|----------------------------------|--------|-----------------------|---|--|------------------------------|--------------------|
| See Table VII - Da & E for additional requirements. | | | | | | | |
| Throughput | BAAQMD Condition #18646, Part 1 | Y | | Combined throughput shall not exceed 7,300,000 barrels in any 12-month period and combined gasoline throughput shall not exceed 1,650,000 barrels in any 12-month period | BAAQMD Condition #18646, Part 4 | P/M | Records |
| VOC | BAAQMD Condition #18646, Part 2a | | | Gasoline or Gasoline components not exceeding RVP 12 | BAAQMD Condition #18646, Part 4 | P/M | Records |

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII - F
Applicable Limits and Compliance Monitoring Requirements
S19 - TANK 19, S1139 - TANK 1139

| 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 #18646, Part 2bi | Y | | POC emissions, based on the maximum throughput in Part 1, do not exceed 20,731 pounds per year, as calculated by the EPA Tanks Program version 4.08 (or subsequent version) with a 99.5% reduction for vapor recovery | BAAQMD Condition #18646, Part 4 | P/M | Records |
| HAP | BAAQMD Condition #18646, Part 2bii | N | | Toxic emissions in lb/yr, based on the maximum throughput in Condition 1, do not exceed any risk screening trigger level specified in Table 2-1-316 | BAAQMD Condition #18646, Part 4 | P/M | Records |

Table VII - G
Applicable Limits and Compliance Monitoring Requirements
S21 - TANK 21, S22 - TANK 22, S23 - TANK 23, S24 - TANK 24, S26 - TANK 26, S497 - TANK 497,
S552 - TANK 552, S553 - TANK 553, S554 - TANK 554, S555 - TANK 555, S556 - TANK 556,
S557 - TANK 557, S558 - TANK 558, S559 - TANK 559, S560 - TANK 560, S561 - TANK 561,
S567 - TANK 567, S571 - TANK 571, S572 - TANK 572, S573 - TANK 573, S598 - TANK 598,
S815 - TANK 815, S867 - TANK 867, S868 - TANK 868, S876 - TANK 876, S961 - TANK 961,
S985 - TANK 985, S1017 - TANK 1017, S1018 - TANK 1018, S1041 - TANK 1041, S1043 - TANK 1043,
S1044 - TANK 1044, S1045 - TANK 1045, 1048 - TANK 1048, S1075 - TANK 1075,
S1160 - TANK 1160. ASPHALT STORAGE,
S1408 - LUBS ASPHALT BLENDING AND SHIPPING,
S1523 - LUBS LOADING RACK ASPHALT INSIDE T/T,
S1524 - LUBS LOADING RACK ASPHALT OUTSIDE T/T AND T/C,
S1525 - LUBS LOADING RACK ASPHALT PAVING,

| 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 6-1-301 | Y N | | Ringelmann No. 1 for no more than 3 minutes/hour | None | N | None |
| Opacity | SIP 6-301 | Y | | Ringelmann No. 1 for no more than 3 minutes/hour | None | N | None |

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII - G

Applicable Limits and Compliance Monitoring Requirements

S21 –TANK 21, ~~S22 –TANK 22~~, S23 –TANK 23, S24 –TANK 24, S26 –TANK 26, S497 –TANK 497,
 S552 –TANK 552, S553 –TANK 553, S554 –TANK 554, S555 –TANK 555, S556 –TANK 556,
 S557 –TANK 557, S558 –TANK 558, S559 –TANK 559, S560 –TANK 560, S561 –TANK 561,
 S567 –TANK 567, S571 –TANK 571, S572 –TANK 572, S573 –TANK 573, S598 –TANK 598,
 S815 –TANK 815, S867 –TANK 867, S868 –TANK 868, S876 –TANK 876, S961 –TANK 961,
 S985 –TANK 985, S1017 –TANK 1017, S1018 –TANK 1018, S1041 –TANK 1041, S1043 –TANK 1043,
 S1044 –TANK 1044, S1045 –TANK 1045, 1048 –TANK 1048, S1075 - TANK 1075,
 S1160 –TANK 1160. ASPHALT STORAGE,

S1408 – LUBS ASPHALT BLENDING AND SHIPPING,
 S1523 – LUBS LOADING RACK ASPHALT INSIDE T/T,
 S1524 – LUBS LOADING RACK ASPHALT OUTSIDE T/T AND T/C,
 S1525 – LUBS LOADING RACK ASPHALT PAVING,

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---------------|---------------------------------|--------|-----------------------|---|---------------------------------|------------------------------|-----------------|
| Through-put | BAAQMD Condition #18618, Part 1 | N | | <p>Applies to S21, S22, S23, S24, S26, S497, S552, S553, S554, S555, S556, S557, S558, S559, S560, S561, S567, S572, S573, S598, S815, S985, S1043, S1044, S1045, S1160, Annual throughput limits</p> <p>Applies to S21, S23, S26, S497, S560, S561, S572, S573, S598, S815, S985, S1043, S1044, S1045, and S1160 Daily throughput S21+ S23+S24+S26+S497+S560 +S561+S572+S573+S598+ S815+S985+S1043+S1044 +S1045+ S1160+S6068 < 42,000 BPD Annual throughput < 15,330,000 BPY</p> <p>Applies to S552, S553, S554, S555, S556, S557, S558, S559, S567 Daily throughput S552+S553+S554+S555+S556+S557+S558+S559+S567 +S568 < 10,650 BPD Annual throughput < 3,887,250 BPY</p> | BAAQMD Condition #18618, Part 2 | P/A | Records |
| | | | | | Revision-Renewal date: | | April 4, 2008 |

Facility Name: Shell Martinez Refinery, Shell Oil Products US
Permit for Facility #: A0011

VII. Applicable Limits and Compliance Monitoring Requirements

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – H
Applicable Limits and Compliance Monitoring Requirements
EXTERNAL FLOATING-ROOF TANKS
S540 – TANK 540, S541 – TANK 541, S544 – TANK 544, S545 – TANK 545,
S1031 – TANK 1031, S1046 – TANK 1046, S1051 – TANK 1051,
S1072 – TANK 1072, S1129 – TANK 1129,
S1159 – TANK 1159, S1161 - TANK 1161

| 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 8-5-320 | Y | | | BAAQMD 8-5-401.2 and 405 | P/Semi-A | Inspections |
| VOC | BAAQMD 8-5-321 | Y | | | BAAQMD 8-5-401.21 and 405 | P/Semi-A | Inspections |
| VOC | BAAQMD 8-5-322 | Y N | | | BAAQMD 8-5-401.21 and 405 | P/Semi-A | Inspections |
| VOC | BAAQMD 8-5-328.1 | Y | | Tank cleaning control by liquid balancing in which the resulting organic liquid has a TVP is less than 0.5 psia | BAAQMD 8-5-501 | P/E | Records |
| VOC | BAAQMD 8-5-328.1 | Y N | | Tank cleaning control device standards; includes 90% efficiency requirement | BAAQMD 8-5-331, 8-5-502-2, and 8-5-603-2 | P/A | Annual source test using MOP, Vol. IV, ST-7 |
| VOC | BAAQMD Condition # 7382 Part 4 and 5 | Y | | Applies to S1072 Total liquid throughput shall not exceed 18.2 million barrels during any consecutive twelve-month period | BAAQMD Condition # 7382 Part 6 | P/M | Records |
| VOC | BAAQMD Condition #11850, Part 1 | | | Applies to S544 Steam coils shall not be used when the stored material has an API greater than 20 | BAAQMD Condition #11850, Part 1 | P/E | Records |

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – H
Applicable Limits and Compliance Monitoring Requirements
EXTERNAL FLOATING-ROOF TANKS
S540 – TANK 540, S541 – TANK 541, S544 – TANK 544, S545 – TANK 545,
S1031 – TANK 1031, S1046 – TANK 1046, S1051 – TANK 1051,
S1072 – TANK 1072, S1129 – TANK 1129,
S1159 – TANK 1159, S1161 – TANK 1161

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|--|--|--------|-----------------------|--|---|------------------------------|---|
| VOC | <u>BAAQMD Condition #12271, Part 51</u> | Y | | <u>Applies to S1129 Tank cleaning VOC emissions shall be vented to a control device with 95% capture and destruction efficiency on a mass basis until concentration of organic compounds in tank is less than 10,000 ppm as methane</u> | <u>BAAQMD Regulation 8-5-404, 8-5-502.2, and 8-5-603</u> | P/A | Source Test |
| HAP | NESHAP Subpart CC 63.646(a), 63.120(b)(3) and 63.120(b)(5) | Y | | Primary rim-seal standards; includes gap criteria | NESHAP Subpart CC 63.646(a), 63.120 (b)(1) and 63.120(b)(2) | P/5 yr intervals | Measurement and visual inspection |
| HAP | NESHAP Subpart CC 63.646(a) 63.120(b)(4) and 63.120(b)(6) | Y | | Secondary rim-seal standards; includes gap criteria | NESHAP Subpart CC 63.646(a), 63.120 (b)(1) and 63.120(b)(2) | P/A | Measurement and visual inspection |
| <u>NOx, CO, SO₂, PM and VOC</u> | <u>BAAQMD Condition #12271, Part A</u> | Y | | <u>Applies to S1129 Emissions from Clean Fuels Project sources shall not exceed 199.4 tpy NOx, 252.4 tpy CO, 139.7 tpy SO₂, 59.1 tpy PM, 132.0 tpy VOC, 20.8 ton/mon NOx, 26.3 ton/mon CO, 14.6 ton/mon SO₂, 6.2 ton/mon PM and 13.7 ton/mon VOC</u> | <u>BAAQMD Condition #12271, Part A, B, C, L and M</u> | P/M and A | <u>Calculation, records and reporting</u> |
| Through-put | <u>BAAQMD Condition #11951, Part 1</u> | Y | | <u>Applies to S540 Throughput shall not exceed 340 million gallons in any 12-month period</u> | <u>BAAQMD Condition #11951, Part 1</u> | P/M | Records |

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – H
Applicable Limits and Compliance Monitoring Requirements
EXTERNAL FLOATING-ROOF TANKS
S540 – TANK 540, S541 – TANK 541, S544 – TANK 544, S545 – TANK 545,
S1031 – TANK 1031, S1046 – TANK 1046, S1051 – TANK 1051,
S1072 – TANK 1072, S1129 – TANK 1129,
S1159 – TANK 1159, S1161 - TANK 1161

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---------------|--|--------|-----------------------|---|--|------------------------------|-----------------|
| Through-put | <u>BAAQMD Condition #18618, Part 1</u> | N | | <p><u>Applies to S541</u> <u>Daily throughput < 248,743 BPD</u> <u>Annual throughput < 90,791,195 BPY</u></p> <p><u>Applies to S545</u> <u>Daily throughput S483+S484+S530 + S532+S545 < 217,097 BPD</u> <u>Annual throughput < 79,240,405 BPY</u></p> <p><u>Applies to S1031, S1046, S1051, and S1159</u> <u>Daily throughput S1031+S1046+S1051+ S1134+S1159+S1753+ S1754+S1755+ S1756 < 508,114 BPD</u> <u>Annual throughput < 185,461,610 BPY</u></p> <p><u>Applies to S1129</u> <u>Daily throughput < 120,000 BPD</u> <u>Annual throughput < 43,800,000 BPY</u></p> <p><u>Applies to S1161</u> <u>Daily throughput < 240,000 BPD</u> <u>Annual throughput < 87,600,000 BPY</u></p> <p><u>Applies to S541, S545, S1031, S1046, S1051, S1129, S1159, and S1161</u> <u>Annual throughput limits</u></p> | <u>BAAQMD Condition #18618, Part 2</u> | P/A | Records |
| | | | | | Revision-Renewal date: | April 4, 2008 | |

Facility Name: Shell Martinez Refinery, Shell Oil Products US
Permit for Facility #: A0011

VII. Applicable Limits and Compliance Monitoring Requirements

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – I
Applicable Limits and Compliance Monitoring Requirements
EXTERNAL FLOATING-ROOF TANKS
S992 – TANK 992, S1076 – TANK 1076, S1130 – TANK 1130, S1131 – TANK 1131

| 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 8-5-320 | Y | | | BAAQMD 8-5-401.2 and 405 | P/Semi-A | Inspections |
| VOC | BAAQMD 8-5-321 | Y | | | BAAQMD 8-5-401.21 and 405 | P/Semi-A | Inspections |
| VOC | BAAQMD 8-5-322 | Y N | | | BAAQMD 8-5-401.21 and 405 | P/Semi-A | Inspections |
| VOC | BAAQMD 8-5-328.1.1 | Y | | Tank cleaning control by liquid balancing in which the resulting organic liquid has a TVP is less than 0.5 psia | BAAQMD 8-5-501.1 | P/E | Records |
| VOC | BAAQMD 8-5-401.1 | | | | BAAQMD 8-5-501.2 | P/Semi-Annual | Records |
| VOC | BAAQMD 8-5-328.1.2 | Y N | | Tank cleaning control device standards; includes 90% efficiency requirement | BAAQMD 8-5-331, 8-5-502.2 and 8-5-603.2 | P/A | Annual source test using MOP, Vol. IV, ST-7 |
| VOC | <u>BAAQMD Condition #7618, Part D.2</u> | <u>Y</u> | | <u>Applies to S1076 Liquid vapor pressure limit of less than 1.5 psia</u> | <u>BAAQMD Condition #7618, Part G</u> | <u>P/A</u> | <u>Records</u> |
| VOC | <u>BAAQMD Condition #12271, Part 51</u> | <u>Y</u> | | <u>Applies to S1130 and S1131 Tank cleaning VOC emissions shall be vented to a control device with 95% capture and destruction efficiency on a mass basis until concentration of organic compounds in tank is less than 10,000 ppm as methane</u> | <u>BAAQMD Regulation 8-5-404, 8-5-502.2, and 8-5-603</u> | <u>P/A</u> | <u>Source Test</u> |

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – I
Applicable Limits and Compliance Monitoring Requirements
EXTERNAL FLOATING-ROOF TANKS
S992 – TANK 992, S1076 – TANK 1076, S1130 –TANK 1130, S1131 –TANK 1131

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---------------------------------------|---------------------------------|--------|-----------------------|--|--|------------------------------|-----------------------------------|
| NOx, CO, SO ₂ , PM and VOC | BAAQMD Condition #12271, Part A | Y | | Applies to S1130 and S1131 Emissions from Clean Fuels Project sources shall not exceed 199.4 tpy NOx, 252.4 tpy CO, 139.7 tpy SO ₂ , 59.1 tpy PM, 132.0 tpy VOC, 20.8 ton/mon NOx, 26.3 ton/mon CO, 14.6 ton/mon SO ₂ , 6.2 ton/mon PM and 13.7 ton/mon VOC | BAAQMD Condition #12271, Part A, B, C, L and M | P/M and A | Calculation records and reporting |
| Through-put | BAAQMD Condition #18618, Part 1 | N | | Applies to S1076 -S1130 and S1131 Daily throughput limit S1130+S1131 < 47,314 bbl/day Annual throughput limits < 17,269,610 bbl/yr For S1076 Daily throughput limit S3+S4+S967+S1076 < 130,971 bbl/day Annual throughput limits S3+S4+S967+S1076 < 47,804,415 bbl/yr | BAAQMD Condition #18618, Part 2 | P/A | Records |

Table VII – J
Applicable Limits and Compliance Monitoring Requirements
EXTERNAL FLOATING-ROOF TANKS
S1755 –TANK 1334 GASOLINE, S1756 – TANK 1335 GASOLINE, S1191 –TANK -1256 CRUDE OIL STORAGE, S1192 –TANK –1257 CRUDE OIL STORAGE

| 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 8-5-320 | Y | | | BAAQMD 8-5-401.2 and 405 | P/Semi-A | Inspections |

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – J
Applicable Limits and Compliance Monitoring Requirements
EXTERNAL FLOATING-ROOF TANKS
S1755 –TANK 1334 GASOLINE, S1756 – TANK 1335 GASOLINE, S1191 –TANK -1256 CRUDE OIL STORAGE,
S1192 –TANK –1257 CRUDE OIL STORAGE

| 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 8-5-321 | Y | | | BAAQMD 8-5-401.2 1 and 405 | P/Semi-A | Inspections |
| VOC | BAAQMD 8-5-322 | Y N | | | BAAQMD 8-5-401.2 1 and 405 | P/Semi-A | Inspections |
| VOC | BAAQMD 8-5-328.1 | Y | | Tank cleaning control by liquid balancing in which the resulting organic liquid has a TVP is less than 0.5 psia | BAAQMD 8-5-501.1 | P/E | Records |
| VOC | BAAQMD 8-5-328.1 | Y N | | Tank cleaning control device standards; includes 90% efficiency requirement | BAAQMD 8-5-331, 8-5-502.2 and 8-5-603.2 | P/A | Annual source test using MOP, Vol. IV, ST-7 |
| VOC | NSPS Subpart Ka 60.112a(a)(1) | Y | | External Floating Roof requirements, including primary and secondary seal requirements and gap limits | NSPS Subpart Ka 60.113a(a)(1) | P/5 year interval for primary seals; P/A for secondary seals | Measurement and visual inspection |
| HAP | NESHAP Subpart CC 63.646(a), 63.120(b)(3) and 63.120(b)(5) | Y | | Primary rim-seal standards; includes gap criteria | NESHAP Subpart CC 63.646(a), 63.120 (b)(1) and 63.120(b)(2) | P/5 yr intervals | Measurement and visual inspection |
| HAP | NESHAP Subpart CC 63.646(a) 63.120(b)(4) and 63.120(b)(6) | Y | | Secondary rim-seal standards; includes gap criteria | NESHAP Subpart CC 63.646(a), 63.120 (b)(1) and 63.120(b)(2) | P/A | Measurement and visual inspection |

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – J
Applicable Limits and Compliance Monitoring Requirements
EXTERNAL FLOATING-ROOF TANKS
S1755 –TANK 1334 GASOLINE, S1756 – TANK 1335 GASOLINE, S1191 –TANK -1256 CRUDE OIL STORAGE,
S1192 –TANK –1257 CRUDE OIL STORAGE

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---------------|---------------------------------|--------|-----------------------|---|---------------------------------|------------------------------|-----------------|
| Through-put | BAAQMD Condition #18618, Part 1 | N | | Applies to S1755 and S1756 Daily throughput S1031+S1046+S1051+S1134+S1159+S1753+S1754+S1755+ S1756 < 508.114 BPD Annual throughput < 185,461.610 BPY Annual throughput limits | BAAQMD Condition #18618, Part 2 | P/A | Records |

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – K
Applicable Limits and Compliance Monitoring Requirements
S1076 – TANK 1076

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|--|----------------------------------|--------|-----------------------|---|---------------------------------|------------------------------|-----------------|
| See Table VII – I for additional requirements. | | | | | | | |
| VOC | BAAQMD Condition #7618, Part D.2 | Y | | Liquid vapor pressure limit of less than 1.5 psia | BAAQMD Condition #7618, Part G | P/A | Records |

Table VII – L
Applicable Limits and Compliance Monitoring Requirements
CLOSED VENT SYSTEMS & CONTROL DEVICES
S532 – TANK 532

| 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 8-5-328.1 | Y | | Tank cleaning control by liquid balancing in which the resulting organic liquid has a TVP is less than 0.5 psia | BAAQMD 8-5-501 | P/E | Records |
| VOC | BAAQMD 8-5-328.1 | Y | | Tank cleaning control device standards; includes 90% efficiency requirement | BAAQMD 8-5-331, 8-5-502.2 and 8-5-603.2 | P/A | Annual source test using MOP, Vol. IV, ST-7 |
| VOC | BAAQMD Condition #7618, Part D.1.a | Y | | No more than 12 tanks shall be used to store a liquid with a true vapor pressure of 1.5 psig or greater. (Condition applies to S14, S20, S483, S484, S530, S531, S532, S1139, S1140, S1141, S1751, S1752, S1753, S1754, S1757, S1758, T-538 , T-1330, T-1331, T-1332, T-1333, T-1326, and T-1337) | BAAQMD Condition #7618, Part G | P/A | Reporting |

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – L
Applicable Limits and Compliance Monitoring Requirements
CLOSED VENT SYSTEMS & CONTROL DEVICES
S532 – TANK 532

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---------------|--|--------|-----------------------|--|--|---|--|
| HAP | NESHAP Subpart FF 61.343(a)(1)(i)(A) and NESHAP Subpart CC 63.647(a) | Y | | VOC concentrations shall not exceed 500 ppmv above background | NESHAP Subpart FF 61.343(c), 61.350, 61.355(h), 61.356(d), 61.356(h), 61.357(2), 61.357(6), 61.357(7), and 61.357(d)(8) NESHAP Subpart CC 63.654655(i)(45) | P/Q-visual and A-measurements and reports | Visual inspections, portable HC detector (EPA Method 21) and records of detectable emissions, inspections and repairs |
| HAP | NESHAP Subpart FF 61.349(a)(1)(i) | Y | | Closed vent system leak tightness standards (< 500 ppmw - unless maintained under negative pressure) | NESHAP Subpart FF 61.355(h) and 61.356(h) and Subpart CC 63.640(d)(5)) | P/A | Visual inspections, portable HC detector (EPA Method 21) and records of detectable emissions, inspections and repairs) |
| HAP | NESHAP Subpart FF 63.1.349(a)(2)(ii) | Y | | Abatement efficiency of at least 95% by weight | NESHAP Subpart FF 61.340(d)(5) and 40CFR 63.640(d)(5) | N | None |
| Through-put | BAAQMD Condition #18618, Part 1 | N | | <u>Annual throughput limits</u> Daily throughput S483+S484+S530 + S532+S545 < 217.097 BPD <u>Annual throughput</u> < 79,240,405 BPY | BAAQMD Condition #18618, Part 2 | P/A | Records |

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII—M
Applicable Limits and Compliance Monitoring Requirements
EXTERNAL FLOATING ROOF TANKS
S540—TANK 540

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|--|---------------------------------|--------|-----------------------|--|---------------------------------|------------------------------|-----------------|
| See Table VII—H for additional requirements. | | | | | | | |
| Through-put | BAAQMD Condition #11951, Part 1 | Y | | Throughput shall not exceed 340 million gallons in any 12-month period | BAAQMD Condition #11951, Part 1 | P/M | Records |

Table VII—N
Applicable Limits and Compliance Monitoring Requirements
EXTERNAL FLOATING ROOF TANKS
S544—TANK 544

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|--|---------------------------------|--------|-----------------------|---|---------------------------------|------------------------------|-----------------|
| See Table VII—H for additional requirements. | | | | | | | |
| VOC | BAAQMD Condition #11850, Part 1 | | | Steam coils shall not be used when the stored material has an API greater than 20 | BAAQMD Condition #11850, Part 1 | P/E | Records |

Table VII—O
Applicable Limits and Compliance Monitoring Requirements
S549 - TANK 549

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|--|--------------------------------|--------|-----------------------|--|---------------------------------|------------------------------|-----------------|
| See Table VII—A for additional requirements. | | | | | | | |
| Through-put | BAAQMD Condition #6111, Part 1 | Y | | Throughput shall not exceed 420,000 gallons in any 12-month period | BAAQMD Condition #6111, Part 4 | P/M | Records |
| VOC | BAAQMD Condition #6111, Part 2 | Y | | Vapor pressure of material stored in this tank shall not exceed 8 psia | BAAQMD Condition #6111, Part 4 | P/E | Records |

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – O
Applicable Limits and Compliance Monitoring Requirements
S549 - TANK 549

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---------------|---------------------------------|--------|-----------------------|--|---------------------------------|------------------------------|-----------------|
| HAP | BAAQMD Condition #6111, Part 3 | N | | Benzene content of material stored in this tank shall not exceed 1 mg/l | BAAQMD Condition #6111, Part 4 | P/E | Records |
| Through-put | BAAQMD Condition #18618, Part 1 | N | | For S549 <u>Daily throughput limit</u> $S548+S549+S1006$ $+S1235+S1236$ $< 5,412 \text{ bbl/day}$ <u>Annual throughput limit</u> $S548+S549+S1006$ $+S1235+S1236$ $< 1,975,380 \text{ bbl/yr}$ | BAAQMD Condition #18618, Part 2 | P/A | Records |

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – P
Applicable Limits and Compliance Monitoring Requirements
INTERNAL FLOATING-ROOF TANKS,
S952 – TANK 952, ~~S1050 – TANK 1050~~, S2445 – TANK 12445,
S2446 – TANK 12446, S4322 – TANK 14571 SOUR WATER , S6062 – ETHANOL TANK

| 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 8-5-328.1.1 | Y | | Tank cleaning control by liquid balancing in which the resulting organic liquid has a TVP is less than 0.5 psia | BAAQMD 8-5-501.1 | P/E | Records |
| VOC | BAAQMD 8-5-401.1 | N | | | BAAQMD 8-5-501.2 | P/Semi-Annual | Records |
| VOC | BAAQMD 8-5-328.1.2 | Y/N | | Tank cleaning control device standards; includes 90% efficiency requirement | BAAQMD 8-5-331 , 8-5-502.2 and 8-5-603.2 | P/A | Annual source test using MOP, Vol. IV, ST-7 |
| VOC | BAAQMD 8-5-320 | Y | | | BAAQMD 8-5-402 | P/Semi-Annual | Inspection |
| VOC | NSPS Subpart Kb 60.116b(c) | Y | | True vapor pressure determination | NSPS Subpart Kb 60.116b(e) | P/E (Upon change of service) | Calculate |
| VOC | <u>BAAQMD Condition #6707, Part 2a</u> | | | <u>Applies to S2445 and S2446 For the months of November through February, Gasoline or Gasoline components not exceeding RVP 13.5; and for the remaining months only Gasoline or Gasoline components not exceeding RVP 8</u> | <u>BAAQMD Condition #6707, Part 4</u> | P/M | <u>Records</u> |
| VOC | <u>BAAQMD Condition #6707, Part 2bi</u> | Y | | <u>Applies to S2445 and S2446 POC emissions, based on the maximum throughput in Condition 1, do not exceed 10,779 pounds per year, as calculated by the EPA Tanks Program version 4.08 (or subsequent version)</u> | <u>BAAQMD Condition #6707, Part 4</u> | P/M | <u>Records</u> |

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – P
Applicable Limits and Compliance Monitoring Requirements
INTERNAL FLOATING-ROOF TANKS,
S952 – TANK 952, ~~S1050 – TANK 1050~~, S2445 – TANK 12445,
S2446 – TANK 12446, S4322 – TANK 14571 SOUR WATER , S6062 – ETHANOL TANK

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|--|--|--------|-----------------------|--|--|------------------------------|---|
| VOC | <u>BAAQMD Condition #12271, Part 51</u> | Y | | <u>Applies to S4322 Tank cleaning VOC emissions shall be vented to a control device with 95% capture and destruction efficiency on a mass basis until concentration of organic compounds in tank is less than 10,000 ppm as methane</u> | <u>BAAQMD Regulation 8-5-404, 8-5-502.2, and 8-5-603</u> | <u>P/A</u> | <u>Source Test</u> |
| HAP | <u>BAAQMD Condition #6707, Part 2bii</u> | N | | <u>Applies to S2445 and S2446 Toxic emissions in lb/yr, based on the maximum throughput in Condition 1, do not exceed any risk screening trigger level specified in Table 2-1-316, except for benzene < 27 lb/yr</u> | <u>BAAQMD Condition #6707, Part 4</u> | <u>P/M</u> | <u>Records</u> |
| <u>NOx, CO, SO₂, PM and VOC</u> | <u>BAAQMD Condition #12271, Part A</u> | Y | | <u>Applies to S4322 Emissions from Clean Fuels Project sources shall not exceed 199.4 tpy NOx, 252.4 tpy CO, 139.7 tpy SO₂, 59.1 tpy PM, 132.0 tpy VOC, 20.8 ton/mon NOx, 26.3 ton/mon CO, 14.6 ton/mon SO₂, 6.2 ton/mon PM and 13.7 ton/mon VOC</u> | <u>BAAQMD Condition #12271, Part A, B, C, L and M</u> | <u>P/M and A</u> | <u>Calculation, records and reporting</u> |
| <u>Through-put</u> | <u>BAAQMD Condition #6707, Part 1</u> | Y | | <u>Applies to S2445 and S2446 Combined throughput shall not exceed 73,000,000 barrels in any 12-month period and combined gasoline throughput shall not exceed 1,650,000 barrels in any 12-month period</u> | <u>BAAQMD Condition #6707, Part 4</u> | <u>P/M</u> | <u>Records</u> |

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – R
Applicable Limits and Compliance Monitoring Requirements
EXTERNAL FLOATING-ROOF TANKS
S1006 – TANK 1006,
S2013 – TANK 12467, S4310 – TANK 13285 SOUR WATER,
S17095 – TANK 17095

| 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 8-5-320 | Y | | | BAAQMD 8-5-401.2 and 405 | P/Semi-A | Inspections |
| VOC | BAAQMD 8-5-321 | Y | | | BAAQMD 8-5-401.21 and 405 | P/Semi-A | Inspections |
| VOC | BAAQMD 8-5-322 | Y N | | | BAAQMD 8-5-401.21 and 405 | P/Semi-A | Inspections |
| VOC | BAAQMD 8-5-328.1 | Y | | Tank cleaning control by liquid balancing in which the resulting organic liquid has a TVP is less than 0.5 psia | BAAQMD 8-5-501 | P/E | Records |
| VOC | BAAQMD 8-5-328.1 | N | | Tank cleaning control device standards; includes 90% efficiency requirement | BAAQMD 8-5-331 8-5-502,2 and 8-5-603,2 | P/A | Annual source test using MOP, Vol. IV, ST-7 |
| VOC | NSPS Subpart Kb 60.113b (b)(4)(i) | Y | | Primary rim-seal standards; Accumulated area of gaps shall not exceed 21.2 cm ² /m of tank diameter and 3.81 cm at any point | NSPS Subpart Kb 60.113b(b)(1), 60.113b(b)(2) and 60.113b(b)(3) | P/(5 yr intervals) | Measurement and visual inspection |
| VOC | NSPS Subpart Kb 60.113b (b)(4)(ii) | Y | | Secondary rim-seal standards; Accumulated area of gaps shall not exceed 21.2 cm ² /m of tank diameter and 3.81 cm at any point | NSPS Subpart Kb 60.113b(b)(1), 60.113b(b)(2) and 60.113b(b)(3) | P/A | Measurement and visual inspection |
| VOC | NSPS Subpart Kb 60.116b(c) | Y | | True vapor pressure determination | NSPS Subpart Kb 60.116b(e) | P/E (Upon change of service) | Measurement and visual inspection |

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – R
Applicable Limits and Compliance Monitoring Requirements
EXTERNAL FLOATING-ROOF TANKS
S1006 – TANK 1006,
S2013 – TANK 12467, S4310 – TANK 13285 SOUR WATER,
S17095 – TANK 17095

| 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 #12271, Part 51 | Y | | Applies to S4310 Tank cleaning VOC emissions shall be vented to a control device with 95% capture and destruction efficiency on a mass basis until concentration of organic compounds in tank is less than 10,000 ppm as methane | BAAQMD Regulation 8-5-404, 8-5-502.2, and 8-5-603 | P/A | Source Test |
| NOx, CO, SO ₂ , PM and VOC | BAAQMD Condition #12271, Part A | Y | | Applies to S4310 Emissions from Clean Fuels Project sources shall not exceed 199.4 tpy NOx, 252.4 tpy CO, 139.7 tpy SO ₂ , 59.1 tpy PM, 132.0 tpy VOC, 20.8 ton/mon NOx, 26.3 ton/mon CO, 14.6 ton/mon SO ₂ , 6.2 ton/mon PM and 13.7 ton/mon VOC | BAAQMD Condition #12271, Part A, B, C, L and M | P/M and A | Calculation, records and reporting |
| Through-put | BAAQMD Condition #6503, Part 1 | Y | | Applies to S2013 Throughput shall not exceed 27,000,000 barrels in any 12-month period | BAAQMD Condition #6503, Part 3 | P/M | Records |
| Through-put | BAAQMD Condition #18618, Part 1 | N | | Applies to S1006 Annual throughput limits Daily throughput limit S548+S549+S1006 +S1235+S1236 < 5,412 bbl/day Annual throughput limits S548+S549+S1006 +S1235+S1236 < 1,975,380 bbl/yr | BAAQMD Condition #18618, Part 2 | P/A | Records |
| Through-put | BAAQMD Condition #20042 Part 1 | Y | | Applies to S17095 Throughput < 27,000,000 bbl/yr | BAAQMD Condition #20042 Part 3 | P/M | Records |

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – T
Applicable Limits and Compliance Monitoring Requirements
EXTERNAL FLOATING-ROOF TANK
S1063 – TANK 1063 ETP 1, S1067 – TANK 1067 ETP 1,

| 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 8-5-320 | Y | | | BAAQMD 8-5-401.2 and 405 | P/Semi-A | Inspections |
| VOC | BAAQMD 8-5-321 | Y | | | BAAQMD 8-5-401.21 and 405 | P/Semi-A | Inspections |
| VOC | BAAQMD 8-5-322 | Y N | | | BAAQMD 8-5-401.21 and 405 | P/Semi-A | Inspections |
| VOC | BAAQMD 8-5-328.1 | Y | | Tank cleaning control by liquid balancing in which the resulting organic liquid has a TVP is less than 0.5 psia | BAAQMD 8-5-501 | P/E | Records |
| VOC | BAAQMD 8-5-328.1 | Y N | | Tank cleaning control device standards; includes 90% efficiency requirement | BAAQMD 8-5-331 8-5-502.2 and 8-5-603.2 | P/A | Annual source test using MOP, Vol. IV, ST-7 |
| HAP | NESHAP Subpart FF 61.351(a)(2) NSPS and Subpart Kb 60.112b(a)(2) and NESHAP Subpart CC 63.647(a) | Y | | VOC concentrations shall not exceed 500 ppmv above background | NESHAP Subpart FF 61.350, 61.356(k) and 61.357(f) and NESHAP Subpart CC 63.654 655(i)(45) | P/Q-visual and A-measurements and reports | Visual inspections, portable HC detector (EPA Method 21) and records of detectable emissions, inspections and repairs |

Table VII – U
Applicable Limits and Compliance Monitoring Requirements
S1070 – TANK 1070

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|-------------------|--------|-----------------------|-------|---------------------------------|------------------------------|-----------------|
| See Table VII-Da for additional requirements. | | | | | | | |

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII—U
 Applicable Limits and Compliance Monitoring Requirements
 S1070—TANK 1070**

| 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 # 18153 Part 1 | Y | | Total liquid throughput shall not exceed 175,200 thousand gallons during any consecutive twelve-month period | BAAQMD Condition # 18153 Part | P/M | Records |
| | BAAQMD Condition # 18153 Part 2 | Y | | Materials stored in S-1070 shall be limited to the following: — a. Hydrocarbon Blanket Layer (RVP 3); — b. Sour Water | BAAQMD Condition # 18153 Part 2ci and 2cii | P/E | Records |

**Table VII—V
 Applicable Limits and Compliance Monitoring Requirements
 S1072—TANK 1072**

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|--|--------------------------------------|--------|-----------------------|--|---------------------------------|------------------------------|-----------------|
| See Table VII—H, I & J for additional requirements. | | | | | | | |
| VOC | BAAQMD Condition # 7382 Part 4 and 5 | Y | | Total liquid throughput shall not exceed 18.2 million barrels during any consecutive twelve-month period | BAAQMD Condition # 7382 Part 6 | P/M | Records |

**Table VII – W
 Applicable Limits and Compliance Monitoring Requirements
 EXTERNAL FLOATING-ROOF TANKS,
 S1077 – TANK 1411,
 S12490 – LOG TANK 12519 WASTEWATER ETP 1&2 ,
 S12491 – LOG TANK 12520 WASTEWATER ETP 1&2**

| 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 – W
Applicable Limits and Compliance Monitoring Requirements
EXTERNAL FLOATING-ROOF TANKS,
S1077 – TANK 1411,
S12490 – LOG TANK 12519 WASTEWATER ETP 1&2 ,
S12491 – LOG TANK 12520 WASTEWATER ETP 1&2

| 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 8-5-320 | Y | | | BAAQMD 8-5-401.2 and 405 | P/Semi-A | Inspections |
| VOC | BAAQMD 8-5-321 | Y | | | BAAQMD 8-5-401.2-1 and 405 | P/Semi-A | Inspections |
| VOC | BAAQMD 8-5-322 | Y N | | | BAAQMD 8-5-401.2-1 and 405 | P/Semi-A | Inspections |
| VOC | BAAQMD 8-5-328.1 | Y | | Tank cleaning control by liquid balancing in which the resulting organic liquid has a TVP is less than 0.5 psia | BAAQMD 8-5-501 | P/E | Records |
| VOC | BAAQMD 8-5-328.1 | Y N | | Tank cleaning control device standards; includes 90% efficiency requirement | BAAQMD 8-5-331 , 8-5-502.2 and 8-5-603.2 | P/A | Annual source test using MOP, Vol. IV, ST-7 |
| VOC | NSPS Subpart Kb 60.113b (b)(4)(i) | Y | | Primary rim-seal standards; includes gap criteria | NSPS Subpart Kb 60.113b(b)(1), 60.113b(b)(2) and 60.113b(b)(3) | P/(5 yr intervals) | Measurement and visual inspection |
| VOC | NSPS Subpart Kb 60.113b (b)(4)(ii) | Y | | Primary rim-seal standards; Accumulated area of gaps shall not exceed 21.2 cm ² /m of tank diameter and 3.81 cm at any point | NSPS Subpart Kb 60.113b(b)(1), 60.113b(b)(2) and 60.113b(b)(3) | P/A | Measurement and visual inspection |
| VOC | NSPS Subpart Kb 60.116b(c) | Y | | Primary rim-seal standards; Accumulated area of gaps shall not exceed 21.2 cm ² /m of tank diameter and 1.27 cm at any point | NSPS Subpart Kb 60.116b(e) | P/E (Upon change of service) | Measurement and visual inspection |

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – W
Applicable Limits and Compliance Monitoring Requirements
EXTERNAL FLOATING-ROOF TANKS,
S1077 – TANK 1411,
S12490 – LOG TANK 12519 WASTEWATER ETP 1&2 ,
S12491 – LOG TANK 12520 WASTEWATER ETP 1&2

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---------------|--|--------|-----------------------|---|--|---|---|
| HAP | NESHAP Subpart FF 61.351(a)(2) and NSPS Subpart Kb 60.112b(a)(2) and NESHAP Subpart CC 63.647(a) | Y | | VOC concentrations shall not exceed 500 ppmv above background | NESHAP Subpart FF 61.350, 61.356(k), and 61.357(f) NESHAP Subpart CC 63.654655(i)(4) | P/Q-visual and A-measurements and reports | Visual inspections, portable HC detector (EPA Method 21) and records of detectable emissions, inspections and repairs |

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – X
Applicable Limits and Compliance Monitoring Requirements
CLOSED VENT SYSTEMS & CONTROL DEVICES
S13-TANK 13, S1114 –TANK 1114 SPENT ACID, S1115 –TANK 1115 SPENT ACID,
S4334 – TANK 13276 ALKYLATE

| 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 8-5-328.1 | Y | | Tank cleaning control by liquid balancing in which the resulting organic liquid has a TVP is less than 0.5 psia | BAAQMD 8-5-501 | P/E | Records |
| VOC | BAAQMD 8-5-328.1 | Y | | Tank cleaning control device standards; includes 90% efficiency requirement | BAAQMD 8-5-331, 8-5-502.2 and 8-5-603.2 | P/A | Annual source test using MOP, Vol. IV, ST-7 |
| VOC | NSPS Subpart Kb 60.112b (a)(3)(i) | Y | | Closed vent system leak tightness standards, VOC concentrations shall not exceed 500 ppmv above background. | 40 CFR 63.640(d)(5) | N | None |
| VOC | NSPS Subpart Kb 60.112b (a)(3)(ii) | Y | | Control device standards; includes 95% efficiency requirement | 40 CFR 63.640(d)(5) | N | None |
| VOC | <u>BAAQMD Condition #12271, Part 45</u> | <u>Y</u> | | <u>Applies to S13 and S4334 Tank shall be kept leak free, less than 500 ppm above background as methane</u> | <u>NESHAP Subpart FF 61.350, 61.356(k) and 61.357(d)(8) and NESHAP Subpart CC 63.642(e), 63.642(f) and 63.6545(i)(45)</u> | <u>P/Q-visual and A-measurements and reports</u> | <u>Visual inspections, portable HC detector (EPA Method 21) and records of detectable emissions, inspections and repairs</u> |
| VOC | <u>BAAQMD Condition #12271, Part 51</u> | <u>Y</u> | | <u>Applies to S4334 Tank cleaning VOC emissions shall be vented to a control device with 95% capture and destruction efficiency on a mass basis until concentration of organic compounds in tank is less than 10,000 ppm as methane</u> | <u>BAAQMD Regulation 8-5-404, 8-5-502.2, and 8-5-603</u> | <u>P/A</u> | <u>Source Test</u> |

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – X
Applicable Limits and Compliance Monitoring Requirements
CLOSED VENT SYSTEMS & CONTROL DEVICES
S13 TANK 13, S1114 –TANK 1114 SPENT ACID, S1115 –TANK 1115 SPENT ACID,
S4334 – TANK 13276 ALKYLATE

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---------------------------------------|---------------------------------|--------|-----------------------|---|--|------------------------------|------------------------------------|
| NOx, CO, SO ₂ , PM and VOC | BAAQMD Condition #12271, Part A | Y | | Applies to S4334 Emissions from Clean Fuels Project sources shall not exceed 199.4 tpy NOx, 252.4 tpy CO, 139.7 tpy SO ₂ , 59.1 tpy PM, 132.0 tpy VOC, 20.8 ton/mon NOx, 26.3 ton/mon CO, 14.6 ton/mon SO ₂ , 6.2 ton/mon PM and 13.7 ton/mon VOC | BAAQMD Condition #12271, Part A, B, C, L and M | P/M and A | Calculation, records and reporting |
| Through-put S1114 and S1115 | BAAQMD Condition #7215, Part 2 | Y | | Applies to S1114 and S1115 Combined throughput shall not exceed 365,000 barrels in any 12-month period | BAAQMD Condition #7215, Part 3 | P/M | Records |
| Through-put | BAAQMD Condition #18618, Part 1 | N | | Applies to S13 and S4334 Annual throughput limits Daily throughput S1757+S1758+S4334 < 125,829 BPD Annual throughput < 45,927,585 BPY | BAAQMD Condition #18618, Part 2 | P/A | Records |

Table VII – Y
Applicable Limits and Compliance Monitoring Requirements
CLOSED VENT SYSTEMS & CONTROL DEVICES
S1805 TANK 12038

| 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 – Y
Applicable Limits and Compliance Monitoring Requirements
CLOSED VENT SYSTEMS & CONTROL DEVICES
S1805 TANK 12038

| 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 8-5-306.1 | Y N | | Control device standards; includes 95% efficiency requirement | BAAQMD 8-5-501 502.1 and 8-5-603.1 | P/E | Records of liquids stored. Emissions of organic compounds measured using MOP, Vol. IV, ST-34 |
| VOC | BAAQMD 8-5-328.1 | Y | | Tank cleaning control by liquid balancing in which the resulting organic liquid has a TVP is less than 0.5 psia | BAAQMD 8-5-501 | P/E | Records |
| VOC | BAAQMD 8-5-328.21 | Y N | | Tank cleaning control device standards; includes 90% efficiency requirement | BAAQMD 8-5-404 8-5-331, 8-5-502.2 and 8-5-603.2 | P/A | Annual source test using MOP, Vol. IV, ST-7 |
| HAP | NESHAP Subpart FF 61.343(a)(1)(i)(A) and NESHAP Subpart CC 63.647(a) | Y | | VOC concentrations shall not exceed 500 ppmv above background | NESHAP Subpart FF 61.343(c), 61.350, 61.355(h), 61.356(d), 61.356(h) and 61.357(d)(8) and NESHAP Subpart CC 63.654 655 (i)(45) | P/Q-visual and A-measurements and reports | Visual inspections, portable HC detector (EPA Method 21) and records of detectable emissions, inspections and repairs |
| HAP | NESHAP Subpart FF 63.649(a)(2)(ii) | Y | | Abatement efficiency of at least 95% by weight | NESHAP Subpart FF 61.340(d)(5) | N | None |

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – Y
Applicable Limits and Compliance Monitoring Requirements
CLOSED VENT SYSTEMS & CONTROL DEVICES
S1805 TANK 12038

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|--------------------|---------------------------------------|----------|-----------------------|--|---|------------------------------|--|
| HAP | NESHAP Subpart FF 61.349(a)(1)(i)) | Y | | Closed vent system leak tightness standards (< 500 ppmw - unless maintained under negative pressure) | NESHAP Subpart FF 61.355(h) and 61.356(h) | P/A | Visual inspections, portable HC detector (EPA Method 21) and records of detectable emissions, inspections and repairs) |
| <u>Through-put</u> | <u>BAAQMD Condition #4298, Part 1</u> | <u>Y</u> | | <u>Annual throughput shall not exceed 563,000 bbl/yr</u> | <u>BAAQMD Condition #4298, Part 8</u> | <u>P/A</u> | <u>Records</u> |

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – Z
Applicable Limits and Compliance Monitoring Requirements
CLOSED VENT SYSTEMS & CONTROL DEVICES
S1114 – TANK 1114 SPENT ACID, S1115 – TANK #1115 SPENT ACID,

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|--------------------------------|--------|-----------------------|---|---------------------------------|------------------------------|-----------------|
| See Table VII-X for additional requirements: | | | | | | | |
| Through-put S1114 and S1115 | BAAQMD Condition #7215, Part 2 | Y | | Combined throughput shall not exceed 365,000 barrels in any 12-month period | BAAQMD Condition #7215, Part 3 | P/M | Records |

Table VII – AA
Applicable Limits and Compliance Monitoring Requirements
S1116 – TANK 1116 FRESH ACID

| 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 6-1-301 | Y N | | Ringelmann No. 1 for no more than 3 minutes/hour | None | N | None |
| Opacity | SIP 6-301 | Y | | Ringelmann No. 1 for no more than 3 minutes/hour | None | N | None |
| FP | BAAQMD 6-1-310.3 | Y N | | 0.15 grain per dscf at 6% O ₂ | None | N | None |
| FP | SIP 6-310.3 | Y | | 0.15 grain per dscf at 6% O ₂ | None | N | None |

Table VII – AB
Applicable Limits and Compliance Monitoring Requirements
TANKS SUBJECT TO SUBMERGED FILL
S1117 – TANK 1117 SKIM

| 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 #12190, Part 1 | Y | | Throughput shall not exceed 10,000 barrels per year | BAAQMD Condition #12190, Part 1 | P/Q | Records |

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII—AC
Applicable Limits and Compliance Monitoring Requirements
EXTERNAL FLOATING ROOF TANKS
~~S1129 TANK 1129,~~
~~S1130 TANK 1130, S1131 TANK 1131,~~
~~S4310 TANK 13285 SOUR WATER~~

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|--|---------------------------------|--------|-----------------------|--|---|------------------------------|------------------------------------|
| See Table VII— I & J for additional requirements. | | | | | | | |
| NO _x , CO, SO ₂ , PM and VOC | BAAQMD Condition #12271, Part A | Y | | Emissions from Clean Fuels Project sources shall not exceed 199.4 tpy NO _x , 252.4 tpy CO, 139.7 tpy SO ₂ , 59.1 tpy PM, 132.0 tpy VOC, 20.8 ton/mon NO _x , 26.3 ton/mon CO, 14.6 ton/mon SO ₂ , 6.2 ton/mon PM and 13.7 ton/mon VOC | BAAQMD Condition #12271, Part A, B, C, L and M | P/M and A | Calculation, records and reporting |
| VOC | BAAQMD Condition #12271, Part A | Y | | Tank cleaning VOC emissions shall be vented to a control device with 95% capture and destruction efficiency on a mass basis until concentration of organic compounds in tank is less than 10,000 ppm as methane | BAAQMD Regulation 8-5-404, 8-5-502.2, and 8-5-603.2 | P/A | Source Test |

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – AD
Applicable Limits and Compliance Monitoring Requirements
INTERNAL FLOATING-ROOF TANKS
S1146 – TANK 1146, S1147 – TANK 1147

| 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 8-5-320 | Y | | | BAAQMD 8-5-401.2 and 405 | P/Semi-A | Inspections |
| VOC | BAAQMD 8-5-328.1 | Y | | Tank cleaning control by liquid balanceing in which the resulting organic liquid has a TVP is less than 0.5 psia | BAAQMD 8-5-501 | P/E | Records |
| VOC | BAAQMD 8-5-328.1 | Y N | | Tank cleaning control device standards; includes 90% efficiency requirement | BAAQMD 8-5-331, 8-5-502.2 and 8-5-603.2 | P/A | Annual source test using MOP, Vol. IV, ST-7 |
| HAP | NESHAP Subpart FF 61.351(a)(2) and NESHAP Subpart CC 63.647(a) | Y | | VOC concentrations shall not exceed 500 ppmv above background | NESHAP Subpart FF 61.350, 61.356(k) and 61.357(f) and NESHAP Subpart CC 63.654655(i)(45) | P/Q-visual and A-measurements and reports | Visual inspections, portable HC detector (EPA Method 21) and records of detectable emissions, inspections and repairs |
| Through-put | BAAQMD Condition #18618, Part 1 | N | | Applies to S1146 and S1147 Daily throughput limit S1146+S1147 < 14,640 bbl/day Annual throughput limits < 5,343,600 bbl/yr Annual throughput limits | BAAQMD Condition #18618, Part 2 | P/A | Records |

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – AE
Applicable Limits and Compliance Monitoring Requirements

S1417 – OPCEN DISTILLATE SATURATION UNIT (DSU),
 S1420 – DH CRUDE UNIT (CU), S1421 – DH VACUUM FLASHER UNIT (VFU),
 S1422 – DH MARINE FUEL OIL BLENDER,
 S1423 – DH GAS OIL STRAIGHTRUN HYDROTREATER (GOHT),
 S1424 – DH NAPHTHA STRAIGHTRUN HYDROTREATER (NHT),
~~S1425 – DH CATALYTIC REFORMER UNIT (CRU),~~
 S1427 – CP CATALYTIC GAS PLANT (CGP), S1428 – CP CATALYTIC FEED HYDROTREATER (CFH),
 S1429 – CP CATALYTIC GASOLINE HYDROTREATER (CGH), S1430 – CP ALKYLATION PLANT (ALKY),
 S1433 – CP LIGHT CC GASOLINE TREATER, S1434 – CP UNSATURATED C3/C4 TREATER,
 S1435 – CP FUEL GAS TREATER 1, S1436 – CP FUEL GAS TREATER 2,
 S1445 – DH HYDROGEN PLANT 1 (HP1), S1446 – DH SATURATES GAS PLANT (SGP),
 S1447 – DH SATURATES DRY GAS TREATER, S1448 – DH SATURATES GAS PLANT C3/C4 TREATER,
 S1449 – DH HYDROCRACKING UNIT (HCU),
 S1462 – LOG DISTILLATE BLENDER (JET & DIESEL FUEL),
 S1463 – LOG GASOLINE BLENDER,
 S1464 – LOG THIN FUEL BLENDER (WHARF), S1759 – OPCEN FLEXICOKER (FXU),
 S1764 – OPCEN DIMERSOL PLANT (DIMER), S1770 – OPCEN C3/C4 SPLITTER,
 S1774 – OPCEN HYDROGEN PLANT 2 (HP2), S4001 – DC DELAYED COKING UNIT (DCU),
 S4020 – DC DISTILLATE HYDROTREATER (DHT),
 S4050 – DC CATALYTIC GAS DEPENTANIZER (CGDP), S4080 – DC ISOMERIZATION UNIT (ISOM),
 S4140 – DC HEAVY CRACKED GASOLINE HYDROTREATER (HGHT),
 S4160 – DC HYDROGEN PLANT 3 (HP3)

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|--|---------------------------|--------|-----------------------|---|--|------------------------------|---|
| VOC Applicable to sources S1445 & S1774 | BAAQMD Regulation 8-2-301 | Y | | 15 lb/day and 300 ppm (dry basis) total carbon | BAAQMD Permit Condition 21896, Part 1 | P/A | Annual Source Test |
| VOC | BAAQMD 8-10-301 | Y | | Abatement of emissions from process vessel depressurization is required until pressure is reduced to less than 1000 mm Hg | BAAQMD 8-10-401.2 (SIP) and 8-10-501 & 502 (SIP) | P/E | Records |
| VOC | BAAQMD & SIP 8-18-301 | Y | | Equipment that leaks > 100 ppm shall not be used unless the leak is discovered and minimized within 24 hours and repaired within 7 days | BAAQMD 8-18-401, BAAQMD & SIP 8-18-402, 8-18-501, 8-18-502, 502.1 through 502.3 and 8-18-602 BAAQMD 8-18-502.4 | P/Q or A | Visual inspections, portable HC detector (EPA Method 21) and records of inspections and repairs |

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – AE
Applicable Limits and Compliance Monitoring Requirements

S1417 – OPCEN DISTILLATE SATURATION UNIT (DSU),
 S1420 – DH CRUDE UNIT (CU), S1421 – DH VACUUM FLASHER UNIT (VFU),
 S1422 – DH MARINE FUEL OIL BLENDER,
 S1423 – DH GAS OIL STRAIGHTRUN HYDROTREATER (GOHT),
 S1424 – DH NAPHTHA STRAIGHTRUN HYDROTREATER (NHT),
~~S1425 – DH CATALYTIC REFORMER UNIT (CRU),~~
 S1427 – CP CATALYTIC GAS PLANT (CGP), S1428 – CP CATALYTIC FEED HYDROTREATER (CFH),
 S1429 – CP CATALYTIC GASOLINE HYDROTREATER (CGH), S1430 – CP ALKYLATION PLANT (ALKY),
 S1433 – CP LIGHT CC GASOLINE TREATER, S1434 – CP UNSATURATED C3/C4 TREATER,
 S1435 – CP FUEL GAS TREATER 1, S1436 – CP FUEL GAS TREATER 2,
 S1445 – DH HYDROGEN PLANT 1 (HP1), S1446 – DH SATURATES GAS PLANT (SGP),
 S1447 – DH SATURATES DRY GAS TREATER, S1448 – DH SATURATES GAS PLANT C3/C4 TREATER,
 S1449 – DH HYDROCRACKING UNIT (HCU),
 S1462 – LOG DISTILLATE BLENDER (JET & DIESEL FUEL),
 S1463 – LOG GASOLINE BLENDER,
 S1464 – LOG THIN FUEL BLENDER (WHARF), S1759 – OPCEN FLEXICOKER (FXU),
 S1764 – OPCEN DIMERSOL PLANT (DIMER), S1770 – OPCEN C3/C4 SPLITTER,
 S1774 – OPCEN HYDROGEN PLANT 2 (HP2), S4001 – DC DELAYED COKING UNIT (DCU),
 S4020 – DC DISTILLATE HYDROTREATER (DHT),
 S4050 – DC CATALYTIC GAS DEPENTANIZER (CGDP), S4080 – DC ISOMERIZATION UNIT (ISOM),
 S4140 – DC HEAVY CRACKED GASOLINE HYDROTREATER (HGHT),
 S4160 – DC HYDROGEN PLANT 3 (HP3)

| 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 & SIP 8-18-302 | Y | | Valves that leak > 100 ppm shall not be used unless the leak is discovered and minimized within 24 hours and repaired within 7 days | BAAQMD 8-18-306, 8-18-401, BAAQMD & SIP 8-18-402, 8-18-404, 8-18-501, 8-18-502, <u>502.1 through 502.3</u> and 8-18-602 BAAQMD 8-18-502.4 | P/Q or A | Visual inspections, portable HC detector (EPA Method 21) and records of inspections and repairs |

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – AE
Applicable Limits and Compliance Monitoring Requirements

S1417 – OPCEN DISTILLATE SATURATION UNIT (DSU),
 S1420 – DH CRUDE UNIT (CU), S1421 – DH VACUUM FLASHER UNIT (VFU),
 S1422 – DH MARINE FUEL OIL BLENDER,
 S1423 – DH GAS OIL STRAIGHTRUN HYDROTREATER (GOHT),
 S1424 – DH NAPHTHA STRAIGHTRUN HYDROTREATER (NHT),
~~S1425 – DH CATALYTIC REFORMER UNIT (CRU),~~
 S1427 – CP CATALYTIC GAS PLANT (CGP), S1428 – CP CATALYTIC FEED HYDROTREATER (CFH),
 S1429 – CP CATALYTIC GASOLINE HYDROTREATER (CGH), S1430 – CP ALKYLATION PLANT (ALKY),
 S1433 – CP LIGHT CC GASOLINE TREATER, S1434 – CP UNSATURATED C3/C4 TREATER,
 S1435 – CP FUEL GAS TREATER 1, S1436 – CP FUEL GAS TREATER 2,
 S1445 – DH HYDROGEN PLANT 1 (HP1), S1446 – DH SATURATES GAS PLANT (SGP),
 S1447 – DH SATURATES DRY GAS TREATER, S1448 – DH SATURATES GAS PLANT C3/C4 TREATER,
 S1449 – DH HYDROCRACKING UNIT (HCU),
 S1462 – LOG DISTILLATE BLENDER (JET & DIESEL FUEL),
 S1463 – LOG GASOLINE BLENDER,
 S1464 – LOG THIN FUEL BLENDER (WHARF), S1759 – OPCEN FLEXICOKER (FXU),
 S1764 – OPCEN DIMERSOL PLANT (DIMER), S1770 – OPCEN C3/C4 SPLITTER,
 S1774 – OPCEN HYDROGEN PLANT 2 (HP2), S4001 – DC DELAYED COKING UNIT (DCU),
 S4020 – DC DISTILLATE HYDROTREATER (DHT),
 S4050 – DC CATALYTIC GAS DEPENTANIZER (CGDP), S4080 – DC ISOMERIZATION UNIT (ISOM),
 S4140 – DC HEAVY CRACKED GASOLINE HYDROTREATER (HGHT),
 S4160 – DC HYDROGEN PLANT 3 (HP3)

| 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 8-18-302 | N | | Valves that leak > 100 ppm shall not be used unless the leak is discovered and minimized within 24 hours and repaired within 7 days | BAAQMD 8-18-306, 8-18-401, BAAQMD & SIP 8-18-402, 8-18-404, 8-18-501, 8-18-502, 502.1 through 502.3 and 8-18-602, BAAQMD 8-18-502.4 | P/Q or A | Visual inspections, portable HC detector (EPA Method 21) and records of inspections and repairs |

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – AE
Applicable Limits and Compliance Monitoring Requirements

S1417 – OPCEN DISTILLATE SATURATION UNIT (DSU),
 S1420 – DH CRUDE UNIT (CU), S1421 – DH VACUUM FLASHER UNIT (VFU),
 S1422 – DH MARINE FUEL OIL BLENDER,
 S1423 – DH GAS OIL STRAIGHTRUN HYDROTREATER (GOHT),
 S1424 – DH NAPHTHA STRAIGHTRUN HYDROTREATER (NHT),
~~S1425 – DH CATALYTIC REFORMER UNIT (CRU),~~
 S1427 – CP CATALYTIC GAS PLANT (CGP), S1428 – CP CATALYTIC FEED HYDROTREATER (CFH),
 S1429 – CP CATALYTIC GASOLINE HYDROTREATER (CGH), S1430 – CP ALKYLATION PLANT (ALKY),
 S1433 – CP LIGHT CC GASOLINE TREATER, S1434 – CP UNSATURATED C3/C4 TREATER,
 S1435 – CP FUEL GAS TREATER 1, S1436 – CP FUEL GAS TREATER 2,
 S1445 – DH HYDROGEN PLANT 1 (HP1), S1446 – DH SATURATES GAS PLANT (SGP),
 S1447 – DH SATURATES DRY GAS TREATER, S1448 – DH SATURATES GAS PLANT C3/C4 TREATER,
 S1449 – DH HYDROCRACKING UNIT (HCU),
 S1462 – LOG DISTILLATE BLENDER (JET & DIESEL FUEL),
 S1463 – LOG GASOLINE BLENDER,
 S1464 – LOG THIN FUEL BLENDER (WHARF), S1759 – OPCEN FLEXICOKER (FXU),
 S1764 – OPCEN DIMERSOL PLANT (DIMER), S1770 – OPCEN C3/C4 SPLITTER,
 S1774 – OPCEN HYDROGEN PLANT 2 (HP2), S4001 – DC DELAYED COKING UNIT (DCU),
 S4020 – DC DISTILLATE HYDROTREATER (DHT),
 S4050 – DC CATALYTIC GAS DEPENTANIZER (CGDP), S4080 – DC ISOMERIZATION UNIT (ISOM),
 S4140 – DC HEAVY CRACKED GASOLINE HYDROTREATER (HGHT),
 S4160 – DC HYDROGEN PLANT 3 (HP3)

| 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 &SIP 8-18-303 | Y | | Pumps and compressors that leak > 500 ppm shall not be used unless the leak is discovered and minimized within 24 hours and repaired within 7 days | BAAQMD 8-18-306, 8-18-401, BAAQMD & SIP 8-18-402, 8-18-403, 8-18-501, 8-18-502, <u>502.1 through 502.3</u> and 8-18-602 BAAQMD 8-18-502.4 | P/D – visual inspection and Q - monitoring | Visual inspections, portable HC detector (EPA Method 21) and records of inspections and repairs |

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – AE
Applicable Limits and Compliance Monitoring Requirements

S1417 – OPCEN DISTILLATE SATURATION UNIT (DSU),
 S1420 – DH CRUDE UNIT (CU), S1421 – DH VACUUM FLASHER UNIT (VFU),
 S1422 – DH MARINE FUEL OIL BLENDER,
 S1423 – DH GAS OIL STRAIGHTRUN HYDROTREATER (GOHT),
 S1424 – DH NAPHTHA STRAIGHTRUN HYDROTREATER (NHT),
~~S1425 – DH CATALYTIC REFORMER UNIT (CRU),~~
 S1427 – CP CATALYTIC GAS PLANT (CGP), S1428 – CP CATALYTIC FEED HYDROTREATER (CFH),
 S1429 – CP CATALYTIC GASOLINE HYDROTREATER (CGH), S1430 – CP ALKYLATION PLANT (ALKY),
 S1433 – CP LIGHT CC GASOLINE TREATER, S1434 – CP UNSATURATED C3/C4 TREATER,
 S1435 – CP FUEL GAS TREATER 1, S1436 – CP FUEL GAS TREATER 2,
 S1445 – DH HYDROGEN PLANT 1 (HP1), S1446 – DH SATURATES GAS PLANT (SGP),
 S1447 – DH SATURATES DRY GAS TREATER, S1448 – DH SATURATES GAS PLANT C3/C4 TREATER,
 S1449 – DH HYDROCRACKING UNIT (HCU),
 S1462 – LOG DISTILLATE BLENDER (JET & DIESEL FUEL),
 S1463 – LOG GASOLINE BLENDER,
 S1464 – LOG THIN FUEL BLENDER (WHARF), S1759 – OPCEN FLEXICOKER (FXU),
 S1764 – OPCEN DIMERSOL PLANT (DIMER), S1770 – OPCEN C3/C4 SPLITTER,
 S1774 – OPCEN HYDROGEN PLANT 2 (HP2), S4001 – DC DELAYED COKING UNIT (DCU),
 S4020 – DC DISTILLATE HYDROTREATER (DHT),
 S4050 – DC CATALYTIC GAS DEPENTANIZER (CGDP), S4080 – DC ISOMERIZATION UNIT (ISOM),
 S4140 – DC HEAVY CRACKED GASOLINE HYDROTREATER (HGHT),
 S4160 – DC HYDROGEN PLANT 3 (HP3)

| 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 8-18-303 | N | | Pumps and compressors that leak > 500 ppm shall not be used unless the leak is discovered and minimized within 24 hours and repaired within 7 days | BAAQMD 8-18-306, 8-18-401, BAAQMD & SIP 8-18-402, 8-18-403, 8-18-501, 8-18-502, 502.1 through 502.3 and 8-18-602 BAAQMD 8-18-502.4 | P/D – visual inspection and Q - monitoring | Visual inspections, portable HC detector (EPA Method 21) and records of inspections and repairs |

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – AE
Applicable Limits and Compliance Monitoring Requirements

S1417 – OPCEN DISTILLATE SATURATION UNIT (DSU),
 S1420 – DH CRUDE UNIT (CU), S1421 – DH VACUUM FLASHER UNIT (VFU),
 S1422 – DH MARINE FUEL OIL BLENDER,
 S1423 – DH GAS OIL STRAIGHTRUN HYDROTREATER (GOHT),
 S1424 – DH NAPHTHA STRAIGHTRUN HYDROTREATER (NHT),
~~S1425 – DH CATALYTIC REFORMER UNIT (CRU),~~
 S1427 – CP CATALYTIC GAS PLANT (CGP), S1428 – CP CATALYTIC FEED HYDROTREATER (CFH),
 S1429 – CP CATALYTIC GASOLINE HYDROTREATER (CGH), S1430 – CP ALKYLATION PLANT (ALKY),
 S1433 – CP LIGHT CC GASOLINE TREATER, S1434 – CP UNSATURATED C3/C4 TREATER,
 S1435 – CP FUEL GAS TREATER 1, S1436 – CP FUEL GAS TREATER 2,
 S1445 – DH HYDROGEN PLANT 1 (HP1), S1446 – DH SATURATES GAS PLANT (SGP),
 S1447 – DH SATURATES DRY GAS TREATER, S1448 – DH SATURATES GAS PLANT C3/C4 TREATER,
 S1449 – DH HYDROCRACKING UNIT (HCU),
 S1462 – LOG DISTILLATE BLENDER (JET & DIESEL FUEL),
 S1463 – LOG GASOLINE BLENDER,
 S1464 – LOG THIN FUEL BLENDER (WHARF), S1759 – OPCEN FLEXICOKER (FXU),
 S1764 – OPCEN DIMERSOL PLANT (DIMER), S1770 – OPCEN C3/C4 SPLITTER,
 S1774 – OPCEN HYDROGEN PLANT 2 (HP2), S4001 – DC DELAYED COKING UNIT (DCU),
 S4020 – DC DISTILLATE HYDROTREATER (DHT),
 S4050 – DC CATALYTIC GAS DEPENTANIZER (CGDP), S4080 – DC ISOMERIZATION UNIT (ISOM),
 S4140 – DC HEAVY CRACKED GASOLINE HYDROTREATER (HGHT),
 S4160 – DC HYDROGEN PLANT 3 (HP3)

| 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 & SIP 8-18-304 | Y | | Connections that leak > 100 ppm shall not be used unless the leak is discovered by an operator and minimized within 24 hours and repaired within 7 days or if the leak is discovered by an APCO and repaired within 24 hours | BAAQMD 8-18-401, BAAQMD & SIP 8-18-402, 8-18-501, 8-18-502, 502.1 through 502.3 and 8-18-602 BAAQMD 8-18-502.4 | P/A | Visual inspections, portable HC detector (EPA Method 21) and records of inspections and repairs |
| VOC | BAAQMD 8-18-304 | N | | Connections that leak > 100 ppm shall not be used unless the leak is discovered by an operator and minimized within 24 hours and repaired within 7 days or if the leak is discovered by an APCO and repaired within 24 hours | BAAQMD 8-18-401, BAAQMD & SIP 8-18-402, 8-18-501, 8-18-502, 502.1 through 502.3 and 8-18-602 BAAQMD 8-18-502.4 | P/A | Visual inspections, portable HC detector (EPA Method 21) and records of inspections and repairs |

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – AE
Applicable Limits and Compliance Monitoring Requirements

S1417 – OPCEN DISTILLATE SATURATION UNIT (DSU),
 S1420 – DH CRUDE UNIT (CU), S1421 – DH VACUUM FLASHER UNIT (VFU),
 S1422 – DH MARINE FUEL OIL BLENDER,
 S1423 – DH GAS OIL STRAIGHTRUN HYDROTREATER (GOHT),
 S1424 – DH NAPHTHA STRAIGHTRUN HYDROTREATER (NHT),
~~S1425 – DH CATALYTIC REFORMER UNIT (CRU),~~
 S1427 – CP CATALYTIC GAS PLANT (CGP), S1428 – CP CATALYTIC FEED HYDROTREATER (CFH),
 S1429 – CP CATALYTIC GASOLINE HYDROTREATER (CGH), S1430 – CP ALKYLATION PLANT (ALKY),
 S1433 – CP LIGHT CC GASOLINE TREATER, S1434 – CP UNSATURATED C3/C4 TREATER,
 S1435 – CP FUEL GAS TREATER 1, S1436 – CP FUEL GAS TREATER 2,
 S1445 – DH HYDROGEN PLANT 1 (HP1), S1446 – DH SATURATES GAS PLANT (SGP),
 S1447 – DH SATURATES DRY GAS TREATER, S1448 – DH SATURATES GAS PLANT C3/C4 TREATER,
 S1449 – DH HYDROCRACKING UNIT (HCU),
 S1462 – LOG DISTILLATE BLENDER (JET & DIESEL FUEL),
 S1463 – LOG GASOLINE BLENDER,
 S1464 – LOG THIN FUEL BLENDER (WHARF), S1759 – OPCEN FLEXICOKER (FXU),
 S1764 – OPCEN DIMERSOL PLANT (DIMER), S1770 – OPCEN C3/C4 SPLITTER,
 S1774 – OPCEN HYDROGEN PLANT 2 (HP2), S4001 – DC DELAYED COKING UNIT (DCU),
 S4020 – DC DISTILLATE HYDROTREATER (DHT),
 S4050 – DC CATALYTIC GAS DEPENTANIZER (CGDP), S4080 – DC ISOMERIZATION UNIT (ISOM),
 S4140 – DC HEAVY CRACKED GASOLINE HYDROTREATER (HGHT),
 S4160 – DC HYDROGEN PLANT 3 (HP3)

| 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 & SIP 8-18-305 | Y | | Pressure release devices that leak > 500 ppm shall not be used unless the leak is discovered by an operator and minimized within 24 hours and repaired within 15 days or if the leak is discovered by an APCO and repaired within 7 days | BAAQMD 8-18-306, 8-18-401, <u>BAAQMD & SIP</u> 8-18-402, 8-18-501, 8-18-502, <u>502.1 through 502.3</u> and 8-18-602 <u>BAAQMD</u> 8-18-502.4 | P/Q or A | Visual inspections, portable HC detector (EPA Method 21) and records of inspections and repairs |
| VOC | BAAQMD & SIP 8-18-306 | Y | | Limitations on non-repairable equipment | BAAQMD & SIP 8-18-501, 8-18-502, <u>502.1 through 502.3</u> and 8-18-602, <u>BAAQMD</u> 8-18-502.4 and 503. | P/5 years or next turnaround | Records And Sampling |

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – AE
Applicable Limits and Compliance Monitoring Requirements

S1417 – OPCEN DISTILLATE SATURATION UNIT (DSU),
 S1420 – DH CRUDE UNIT (CU), S1421 – DH VACUUM FLASHER UNIT (VFU),
 S1422 – DH MARINE FUEL OIL BLENDER,
 S1423 – DH GAS OIL STRAIGHTRUN HYDROTREATER (GOHT),
 S1424 – DH NAPHTHA STRAIGHTRUN HYDROTREATER (NHT),
~~S1425 – DH CATALYTIC REFORMER UNIT (CRU),~~
 S1427 – CP CATALYTIC GAS PLANT (CGP), S1428 – CP CATALYTIC FEED HYDROTREATER (CFH),
 S1429 – CP CATALYTIC GASOLINE HYDROTREATER (CGH), S1430 – CP ALKYLATION PLANT (ALKY),
 S1433 – CP LIGHT CC GASOLINE TREATER, S1434 – CP UNSATURATED C3/C4 TREATER,
 S1435 – CP FUEL GAS TREATER 1, S1436 – CP FUEL GAS TREATER 2,
 S1445 – DH HYDROGEN PLANT 1 (HP1), S1446 – DH SATURATES GAS PLANT (SGP),
 S1447 – DH SATURATES DRY GAS TREATER, S1448 – DH SATURATES GAS PLANT C3/C4 TREATER,
 S1449 – DH HYDROCRACKING UNIT (HCU),
 S1462 – LOG DISTILLATE BLENDER (JET & DIESEL FUEL),
 S1463 – LOG GASOLINE BLENDER,
 S1464 – LOG THIN FUEL BLENDER (WHARF), S1759 – OPCEN FLEXICOKER (FXU),
 S1764 – OPCEN DIMERSOL PLANT (DIMER), S1770 – OPCEN C3/C4 SPLITTER,
 S1774 – OPCEN HYDROGEN PLANT 2 (HP2), S4001 – DC DELAYED COKING UNIT (DCU),
 S4020 – DC DISTILLATE HYDROTREATER (DHT),
 S4050 – DC CATALYTIC GAS DEPENTANIZER (CGDP), S4080 – DC ISOMERIZATION UNIT (ISOM),
 S4140 – DC HEAVY CRACKED GASOLINE HYDROTREATER (HGHT),
 S4160 – DC HYDROGEN PLANT 3 (HP3)

| 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 8-18-306 | N | | Limitations on non-repairable equipment | BAAQMD & SIP 8-18-501, 8-18-502, 502.1 through 502.3 and 8-18-602, BAAQMD 8-18-502.4 and 503. | P/5 years or next turnaround | Records And Sampling |
| VOC | BAAQMD & SIP 8-18-307 and 8-18-211 | Y | | Equipment that leaks liquid > 3 drops per minute and > 100 ppm VOC shall not be used unless the leak is discovered and minimized within 24 hours and repaired within 7 days | BAAQMD Regulation 8-18-306, 8-18-401, BAAQMD & SIP 8-18-402, 8-18-501, 8-18-502, 502.1 through 502.3 and 8-18-602 BAAQMD 8-18-502.4 | P/Q or A | Visual inspections, portable HC detector (EPA Method 21) and records of inspections and repairs |

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – AE
Applicable Limits and Compliance Monitoring Requirements

S1417 – OPCEN DISTILLATE SATURATION UNIT (DSU),
 S1420 – DH CRUDE UNIT (CU), S1421 – DH VACUUM FLASHER UNIT (VFU),
 S1422 – DH MARINE FUEL OIL BLENDER,
 S1423 – DH GAS OIL STRAIGHTRUN HYDROTREATER (GOHT),
 S1424 – DH NAPHTHA STRAIGHTRUN HYDROTREATER (NHT),
~~S1425 – DH CATALYTIC REFORMER UNIT (CRU),~~
 S1427 – CP CATALYTIC GAS PLANT (CGP), S1428 – CP CATALYTIC FEED HYDROTREATER (CFH),
 S1429 – CP CATALYTIC GASOLINE HYDROTREATER (CGH), S1430 – CP ALKYLATION PLANT (ALKY),
 S1433 – CP LIGHT CC GASOLINE TREATER, S1434 – CP UNSATURATED C3/C4 TREATER,
 S1435 – CP FUEL GAS TREATER 1, S1436 – CP FUEL GAS TREATER 2,
 S1445 – DH HYDROGEN PLANT 1 (HP1), S1446 – DH SATURATES GAS PLANT (SGP),
 S1447 – DH SATURATES DRY GAS TREATER, S1448 – DH SATURATES GAS PLANT C3/C4 TREATER,
 S1449 – DH HYDROCRACKING UNIT (HCU),
 S1462 – LOG DISTILLATE BLENDER (JET & DIESEL FUEL),
 S1463 – LOG GASOLINE BLENDER,
 S1464 – LOG THIN FUEL BLENDER (WHARF), S1759 – OPCEN FLEXICOKER (FXU),
 S1764 – OPCEN DIMERSOL PLANT (DIMER), S1770 – OPCEN C3/C4 SPLITTER,
 S1774 – OPCEN HYDROGEN PLANT 2 (HP2), S4001 – DC DELAYED COKING UNIT (DCU),
 S4020 – DC DISTILLATE HYDROTREATER (DHT),
 S4050 – DC CATALYTIC GAS DEPENTANIZER (CGDP), S4080 – DC ISOMERIZATION UNIT (ISOM),
 S4140 – DC HEAVY CRACKED GASOLINE HYDROTREATER (HGHT),
 S4160 – DC HYDROGEN PLANT 3 (HP3)

| 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 & SIP 8-28-303.1 | Y N | | Pressure relief devices shall be vented to vapor recovery or disposal system with a control efficiency of 95% by weight | BAAQMD 8-28-403, 8-28-404, 8-28-405, 8-28-502 and 8-28-602 | C | Records and testing with approved methods |
| VOC | BAAQMD 8-28-303.1 | N | | Pressure relief devices shall be vented to vapor recovery or disposal system with a control efficiency of 95% by weight | BAAQMD 8-28-404, 8-28-405, 8-28-502 and 8-28-602 | C | Records and testing with approved methods |
| VOC | BAAQMD 8-28-303.2 | N | | Facility to implement Process Safety Requirements of BAAQMD 8-28-405 for Pressure Relief Devices | BAAQMD 8-28-502.1 | P/E | Records |
| VOC | BAAQMD & SIP 8-28-304 | Y N | | If one reportable Release Event from a pressure relief device in any consecutive 5 year period, shall meet specified conditions | BAAQMD 8-28-401, 8-28-402, 8-28-403, 8-28-404, and 8-28-405, and 8-28-502 | P/E | Reporting and prescribed measures. |

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – AE
Applicable Limits and Compliance Monitoring Requirements

S1417 – OPCEN DISTILLATE SATURATION UNIT (DSU),
 S1420 – DH CRUDE UNIT (CU), S1421 – DH VACUUM FLASHER UNIT (VFU),
 S1422 – DH MARINE FUEL OIL BLENDER,
 S1423 – DH GAS OIL STRAIGHTRUN HYDROTREATER (GOHT),
 S1424 – DH NAPHTHA STRAIGHTRUN HYDROTREATER (NHT),
~~S1425 – DH CATALYTIC REFORMER UNIT (CRU),~~
 S1427 – CP CATALYTIC GAS PLANT (CGP), S1428 – CP CATALYTIC FEED HYDROTREATER (CFH),
 S1429 – CP CATALYTIC GASOLINE HYDROTREATER (CGH), S1430 – CP ALKYLATION PLANT (ALKY),
 S1433 – CP LIGHT CC GASOLINE TREATER, S1434 – CP UNSATURATED C3/C4 TREATER,
 S1435 – CP FUEL GAS TREATER 1, S1436 – CP FUEL GAS TREATER 2,
 S1445 – DH HYDROGEN PLANT 1 (HP1), S1446 – DH SATURATES GAS PLANT (SGP),
 S1447 – DH SATURATES DRY GAS TREATER, S1448 – DH SATURATES GAS PLANT C3/C4 TREATER,
 S1449 – DH HYDROCRACKING UNIT (HCU),
 S1462 – LOG DISTILLATE BLENDER (JET & DIESEL FUEL),
 S1463 – LOG GASOLINE BLENDER,
 S1464 – LOG THIN FUEL BLENDER (WHARF), S1759 – OPCEN FLEXICOKER (FXU),
 S1764 – OPCEN DIMERSOL PLANT (DIMER), S1770 – OPCEN C3/C4 SPLITTER,
 S1774 – OPCEN HYDROGEN PLANT 2 (HP2), S4001 – DC DELAYED COKING UNIT (DCU),
 S4020 – DC DISTILLATE HYDROTREATER (DHT),
 S4050 – DC CATALYTIC GAS DEPENTANIZER (CGDP), S4080 – DC ISOMERIZATION UNIT (ISOM),
 S4140 – DC HEAVY CRACKED GASOLINE HYDROTREATER (HGHT),
 S4160 – DC HYDROGEN PLANT 3 (HP3)

| 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 # 12271 Part N | Y | | Applies to S4001, S4020, S4050, S4080, S4140, and S4160 Any process depressurization shall be vented to a control device with an overall capture and destruction efficiency of 95% capture on a mass basis | BAAQMD 8-10-401 | P/E | Records |
| VOC | BAAQMD Condition #12271, Part 11 | Y | | Applies to S4001, S4020, S4050, S4080, S4140, and S4160 Fugitive emissions from Clean Fuels Project sources shall not exceed emission 193.5 tpy VOC and 14.7 NPOC | BAAQMD Condition #12271, Part 11, L and M | P/A | Calculation, records and reporting |

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – AE
Applicable Limits and Compliance Monitoring Requirements

S1417 – OPCEN DISTILLATE SATURATION UNIT (DSU),
 S1420 – DH CRUDE UNIT (CU), S1421 – DH VACUUM FLASHER UNIT (VFU),
 S1422 – DH MARINE FUEL OIL BLENDER,
 S1423 – DH GAS OIL STRAIGHTRUN HYDROTREATER (GOHT),
 S1424 – DH NAPHTHA STRAIGHTRUN HYDROTREATER (NHT),
~~S1425 – DH CATALYTIC REFORMER UNIT (CRU),~~
 S1427 – CP CATALYTIC GAS PLANT (CGP), S1428 – CP CATALYTIC FEED HYDROTREATER (CFH),
 S1429 – CP CATALYTIC GASOLINE HYDROTREATER (CGH), S1430 – CP ALKYLATION PLANT (ALKY),
 S1433 – CP LIGHT CC GASOLINE TREATER, S1434 – CP UNSATURATED C3/C4 TREATER,
 S1435 – CP FUEL GAS TREATER 1, S1436 – CP FUEL GAS TREATER 2,
 S1445 – DH HYDROGEN PLANT 1 (HP1), S1446 – DH SATURATES GAS PLANT (SGP),
 S1447 – DH SATURATES DRY GAS TREATER, S1448 – DH SATURATES GAS PLANT C3/C4 TREATER,
 S1449 – DH HYDROCRACKING UNIT (HCU),
 S1462 – LOG DISTILLATE BLENDER (JET & DIESEL FUEL),
 S1463 – LOG GASOLINE BLENDER,
 S1464 – LOG THIN FUEL BLENDER (WHARF), S1759 – OPCEN FLEXICOKER (FXU),
 S1764 – OPCEN DIMERSOL PLANT (DIMER), S1770 – OPCEN C3/C4 SPLITTER,
 S1774 – OPCEN HYDROGEN PLANT 2 (HP2), S4001 – DC DELAYED COKING UNIT (DCU),
 S4020 – DC DISTILLATE HYDROTREATER (DHT),
 S4050 – DC CATALYTIC GAS DEPENTANIZER (CGDP), S4080 – DC ISOMERIZATION UNIT (ISOM),
 S4140 – DC HEAVY CRACKED GASOLINE HYDROTREATER (HGHT),
 S4160 – DC HYDROGEN PLANT 3 (HP3)

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|----------------------------------|--------|-----------------------|---|---------------------------------|------------------------------|-----------------|
| SO ₂ | BAAQMD Condition #7618, Part C.e | Y | | Applies to S1759 If profile has more than 5 non-complying days, the sulfur content of liquid fuel shall be limited to 1.0 ton/day (or 1.3 ton/day if flexicoker is down) | BAAQMD Condition #7618, Part G | P/E | Records |
| NO _x , SO ₂ , CO and PM | BAAQMD Condition #7618, Part C.a | Y | | Applies to S1420 If profile has more than 5 non-complying days, the refinery shall not process more than 124,000 barrels of crude oil per stream day | BAAQMD Condition #7618, Part G | P/E | Records |
| NO _x , SO ₂ , CO and PM | BAAQMD Condition #7618, Part C.b | Y | | Applies to S1759 If profile has more than 5 non-complying days, the refinery shall not process more than 22,000 barrels of Flexicoker feed per stream day | BAAQMD Condition #7618, Part G | P/E | Records |

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – AE
Applicable Limits and Compliance Monitoring Requirements

S1417 – OPCEN DISTILLATE SATURATION UNIT (DSU),
 S1420 – DH CRUDE UNIT (CU), S1421 – DH VACUUM FLASHER UNIT (VFU),
 S1422 – DH MARINE FUEL OIL BLENDER,
 S1423 – DH GAS OIL STRAIGHTRUN HYDROTREATER (GOHT),
 S1424 – DH NAPHTHA STRAIGHTRUN HYDROTREATER (NHT),
~~S1425 – DH CATALYTIC REFORMER UNIT (CRU),~~
 S1427 – CP CATALYTIC GAS PLANT (CGP), S1428 – CP CATALYTIC FEED HYDROTREATER (CFH),
 S1429 – CP CATALYTIC GASOLINE HYDROTREATER (CGH), S1430 – CP ALKYLATION PLANT (ALKY),
 S1433 – CP LIGHT CC GASOLINE TREATER, S1434 – CP UNSATURATED C3/C4 TREATER,
 S1435 – CP FUEL GAS TREATER 1, S1436 – CP FUEL GAS TREATER 2,
 S1445 – DH HYDROGEN PLANT 1 (HP1), S1446 – DH SATURATES GAS PLANT (SGP),
 S1447 – DH SATURATES DRY GAS TREATER, S1448 – DH SATURATES GAS PLANT C3/C4 TREATER,
 S1449 – DH HYDROCRACKING UNIT (HCU),
 S1462 – LOG DISTILLATE BLENDER (JET & DIESEL FUEL),
 S1463 – LOG GASOLINE BLENDER,
 S1464 – LOG THIN FUEL BLENDER (WHARF), S1759 – OPCEN FLEXICOKER (FXU),
 S1764 – OPCEN DIMERSOL PLANT (DIMER), S1770 – OPCEN C3/C4 SPLITTER,
 S1774 – OPCEN HYDROGEN PLANT 2 (HP2), S4001 – DC DELAYED COKING UNIT (DCU),
 S4020 – DC DISTILLATE HYDROTREATER (DHT),
 S4050 – DC CATALYTIC GAS DEPENTANIZER (CGDP), S4080 – DC ISOMERIZATION UNIT (ISOM),
 S4140 – DC HEAVY CRACKED GASOLINE HYDROTREATER (HGHT),
 S4160 – DC HYDROGEN PLANT 3 (HP3)

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|------------------------------------|--------------------------------------|--------|-----------------------|--|--|------------------------------|------------------------------------|
| NOx, CO, SO2, PM and VOC | BAAQMD Condition #12271, Part A | Y | | Applies to S4001, S4020, S4050, S4080, S4140, and S4160 Emissions from Clean Fuels Project sources shall not exceed 199.4 tpy NOx, 252.4 tpy CO, 139.7 tpy SO2, 59.1 tpy PM, 132.0 tpy VOC, 20.8 ton/mon NOx, 26.3 ton/mon CO, 14.6 ton/mon SO2, 6.2 ton/mon PM and 13.7 ton/mon VOC | BAAQMD Condition #12271, Part A, B, C, L and M | P/M and A | Calculation, records and reporting |
| Duration of startups and shutdowns | BAAQMD Condition # 7618, Part E.2.a. | Y | | Applies to S1759 Duration of startup < 48 hours/event; Duration of shutdown < 96 hours/event | BAAQMD Condition #7618, Parts E.2.d. and G | P/E | Records |

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VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – AE
Applicable Limits and Compliance Monitoring Requirements

S1417 – OPCEN DISTILLATE SATURATION UNIT (DSU),
 S1420 – DH CRUDE UNIT (CU), S1421 – DH VACUUM FLASHER UNIT (VFU),
 S1422 – DH MARINE FUEL OIL BLENDER,
 S1423 – DH GAS OIL STRAIGHTRUN HYDROTREATER (GOHT),
 S1424 – DH NAPHTHA STRAIGHTRUN HYDROTREATER (NHT),
~~S1425 – DH CATALYTIC REFORMER UNIT (CRU),~~
 S1427 – CP CATALYTIC GAS PLANT (CGP), S1428 – CP CATALYTIC FEED HYDROTREATER (CFH),
 S1429 – CP CATALYTIC GASOLINE HYDROTREATER (CGH), S1430 – CP ALKYLATION PLANT (ALKY),
 S1433 – CP LIGHT CC GASOLINE TREATER, S1434 – CP UNSATURATED C3/C4 TREATER,
 S1435 – CP FUEL GAS TREATER 1, S1436 – CP FUEL GAS TREATER 2,
 S1445 – DH HYDROGEN PLANT 1 (HP1), S1446 – DH SATURATES GAS PLANT (SGP),
 S1447 – DH SATURATES DRY GAS TREATER, S1448 – DH SATURATES GAS PLANT C3/C4 TREATER,
 S1449 – DH HYDROCRACKING UNIT (HCU),
 S1462 – LOG DISTILLATE BLENDER (JET & DIESEL FUEL),
 S1463 – LOG GASOLINE BLENDER,
 S1464 – LOG THIN FUEL BLENDER (WHARF), S1759 – OPCEN FLEXICOKER (FXU),
 S1764 – OPCEN DIMERSOL PLANT (DIMER), S1770 – OPCEN C3/C4 SPLITTER,
 S1774 – OPCEN HYDROGEN PLANT 2 (HP2), S4001 – DC DELAYED COKING UNIT (DCU),
 S4020 – DC DISTILLATE HYDROTREATER (DHT),
 S4050 – DC CATALYTIC GAS DEPENTANIZER (CGDP), S4080 – DC ISOMERIZATION UNIT (ISOM),
 S4140 – DC HEAVY CRACKED GASOLINE HYDROTREATER (HGHT),
 S4160 – DC HYDROGEN PLANT 3 (HP3)

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---------------|---------------------------------|--------|-----------------------|--|--------------------------------------|------------------------------|-----------------|
| Through-put | BAAQMD Condition #18618, Part I | N | | <p>Applies to S1420, S1423, S1424, S1428, S1445, S1759, S1774, S4001, S4020, and S4160 Annual throughput limits</p> <p>Applies to S1417 Daily throughput < 26,000 BPD Annual throughput < 9,490,000 BPY</p> <p>Applies to S1420 Daily throughput < 178,800 BPD Annual throughput < 59,568,000 BPY</p> <p>Applies to S1423 Daily throughput < 28,000 BPD Annual throughput < 10,220,000 BPY</p> <p>Applies to S1428 Daily throughput < 60,000 BPD Annual throughput < 19,856,000 BPY</p> <p>Applies to S1429</p> | BAAQMD Condition #18618, Part 2 | P/A | Records |
| | | | | | Revision-Renewal date: April 4, 2008 | | |

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – AE
Applicable Limits and Compliance Monitoring Requirements

S1417 – OPCEN DISTILLATE SATURATION UNIT (DSU),
 S1420 – DH CRUDE UNIT (CU), S1421 – DH VACUUM FLASHER UNIT (VFU),
 S1422 – DH MARINE FUEL OIL BLENDER,
 S1423 – DH GAS OIL STRAIGHTRUN HYDROTREATER (GOHT),
 S1424 – DH NAPHTHA STRAIGHTRUN HYDROTREATER (NHT),
~~S1425 – DH CATALYTIC REFORMER UNIT (CRU),~~
 S1427 – CP CATALYTIC GAS PLANT (CGP), S1428 – CP CATALYTIC FEED HYDROTREATER (CFH),
 S1429 – CP CATALYTIC GASOLINE HYDROTREATER (CGH), S1430 – CP ALKYLATION PLANT (ALKY),
 S1433 – CP LIGHT CC GASOLINE TREATER, S1434 – CP UNSATURATED C3/C4 TREATER,
 S1435 – CP FUEL GAS TREATER 1, S1436 – CP FUEL GAS TREATER 2,
 S1445 – DH HYDROGEN PLANT 1 (HP1), S1446 – DH SATURATES GAS PLANT (SGP),
 S1447 – DH SATURATES DRY GAS TREATER, S1448 – DH SATURATES GAS PLANT C3/C4 TREATER,
 S1449 – DH HYDROCRACKING UNIT (HCU),
 S1462 – LOG DISTILLATE BLENDER (JET & DIESEL FUEL),
 S1463 – LOG GASOLINE BLENDER,
 S1464 – LOG THIN FUEL BLENDER (WHARF), S1759 – OPCEN FLEXICOKER (FXU),
 S1764 – OPCEN DIMERSOL PLANT (DIMER), S1770 – OPCEN C3/C4 SPLITTER,
 S1774 – OPCEN HYDROGEN PLANT 2 (HP2), S4001 – DC DELAYED COKING UNIT (DCU),
 S4020 – DC DISTILLATE HYDROTREATER (DHT),
 S4050 – DC CATALYTIC GAS DEPENTANIZER (CGDP), S4080 – DC ISOMERIZATION UNIT (ISOM),
 S4140 – DC HEAVY CRACKED GASOLINE HYDROTREATER (HGHT),
 S4160 – DC HYDROGEN PLANT 3 (HP3)

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---------------|---------------------------------|--------|-----------------------|---|---------------------------------|------------------------------|-----------------|
| Through-put | BAAQMD Condition #24162, Part 1 | N | | Applies to S1424 Daily throughput < 31,500 BPD Annual throughput < 10,609,974 BPY | BAAQMD Condition #24162, Part 2 | P/D | Records |

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – AF
Applicable Limits and Compliance Monitoring Requirements
S1420 – DH CRUDE UNIT (CU)

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|--|----------------------------------|--------|-----------------------|---|---------------------------------|------------------------------|-----------------|
| <u>See Table AE for additional requirements.</u> | | | | | | | |
| NO _x , SO ₂ , CO and PM | BAAQMD Condition #7618, Part C-a | Y | | If profile has more than 5 non-complying days, the refinery shall not process more than 124,000 barrels of crude oil per stream day | BAAQMD Condition #7618, Part G | P/E | Records |

Table VII – AFa
Applicable Limits and Compliance Monitoring Requirements
S1425 – DH CATALYTIC REFORMER UNIT (CRU)

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|--|-----------------------|--------|-----------------------|---|--|------------------------------|---|
| <u>See Table AE for additional requirements.</u> | | | | | | | |
| VOC | BAAQMD 8-10-301 | Y | | Abatement of emissions from process vessel depressurization is required until pressure is reduced to less than 1000 mm Hg | BAAQMD 8-10-401.2 (SIP) and 8-10-501 & 502 (SIP) | P/E | Records |
| VOC | BAAQMD & SIP 8-18-301 | Y | | Equipment that leaks > 100 ppm shall not be used unless the leak is discovered and minimized within 24 hours and repaired within 7 days | BAAQMD 8-18-401, BAAQMD & SIP 8-18-402, 8-18-501, 8-18-502, 502.1 through 502.3 and 8-18-602 BAAQMD 8-18-502.4 | P/Q or A | Visual inspections, portable HC detector (EPA Method 21) and records of inspections and repairs |

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – AFa
Applicable Limits and Compliance Monitoring Requirements
S1425 – DH CATALYTIC REFORMER UNIT (CRU)

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---------------|------------------------|--------|-----------------------|--|---|--|---|
| VOC | <u>SIP 8-18-302</u> | Y | | <u>Valves that leak > 100 ppm shall not be used unless the leak is discovered and minimized within 24 hours and repaired within 7 days</u> | <u>BAAQMD 8-18-306, 8-18-401, BAAQMD & SIP 8-18-402, 8-18-404, 8-18-501, 8-18-502, 502.1 through 502.3 and 8-18-602 BAAQMD 8-18-502.4</u> | P/Q or A | Visual inspections, portable HC detector (EPA Method 21) and records of inspections and repairs |
| VOC | <u>BAAQMD 8-18-302</u> | N | | <u>Valves that leak > 100 ppm shall not be used unless the leak is discovered and minimized within 24 hours and repaired within 7 days</u> | <u>BAAQMD 8-18-306, 8-18-401, BAAQMD & SIP 8-18-402, 8-18-404, 8-18-501, 8-18-502, 502.1 through 502.3 and 8-18-602 BAAQMD 8-18-502.4</u> | P/Q or A | Visual inspections, portable HC detector (EPA Method 21) and records of inspections and repairs |
| VOC | <u>SIP 8-18-303</u> | Y | | <u>Pumps and compressors that leak > 500 ppm shall not be used unless the leak is discovered and minimized within 24 hours and repaired within 7 days</u> | <u>BAAQMD 8-18-306, 8-18-401, BAAQMD & SIP 8-18-402, 8-18-403, 8-18-501, 8-18-502, 502.1 through 502.3 and 8-18-602 BAAQMD 8-18-502.4</u> | P/D – visual inspection and Q - monitoring | Visual inspections, portable HC detector (EPA Method 21) and records of inspections and repairs |

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – AFa
Applicable Limits and Compliance Monitoring Requirements
S1425 – DH CATALYTIC REFORMER UNIT (CRU)

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---------------|----------------------------------|--------|-----------------------|--|---|---|--|
| VOC | <u>BAAQMD 8-18-303</u> | N | | <u>Pumps and compressors that leak > 500 ppm shall not be used unless the leak is discovered and minimized within 24 hours and repaired within 7 days</u> | <u>BAAQMD 8-18-306, 8-18-401, BAAQMD & SIP 8-18-402, 8-18-403, 8-18-501, 8-18-502, 502.1 through 502.3 and 8-18-602 BAAQMD 8-18-502.4</u> | <u>P/D – visual inspection and O - monitoring</u> | <u>Visual inspections, portable HC detector (EPA Method 21) and records of inspections and repairs</u> |
| VOC | <u>SIP 8-18-304</u> | Y | | <u>Connections that leak > 100 ppm shall not be used unless the leak is discovered by an operator and minimized within 24 hours and repaired within 7 days or if the leak is discovered by an APCO and repaired within 24 hours</u> | <u>BAAQMD 8-18-401, BAAQMD & SIP 8-18-402, 8-18-501, 8-18-502, 502.1 through 502.3 and 8-18-602 BAAQMD 8-18-502.4</u> | <u>P/A</u> | <u>Visual inspections, portable HC detector (EPA Method 21) and records of inspections and repairs</u> |
| VOC | <u>BAAQMD 8-18-304</u> | N | | <u>Connections that leak > 100 ppm shall not be used unless the leak is discovered by an operator and minimized within 24 hours and repaired within 7 days or if the leak is discovered by an APCO and repaired within 24 hours</u> | <u>BAAQMD 8-18-401, BAAQMD & SIP 8-18-402, 8-18-501, 8-18-502, 502.1 through 502.3 and 8-18-602 BAAQMD 8-18-502.4</u> | <u>P/A</u> | <u>Visual inspections, portable HC detector (EPA Method 21) and records of inspections and repairs</u> |
| VOC | <u>BAAQMD & SIP 8-18-305</u> | Y | | <u>Pressure release devices that leak > 500 ppm shall not be used unless the leak is discovered by an operator and minimized within 24 hours and repaired within 15 days or if the leak is discovered by an APCO and repaired within 7 days</u> | <u>BAAQMD 8-18-306, 8-18-401, BAAQMD & SIP 8-18-402, 8-18-501, 8-18-502, 502.1 through 502.3 and 8-18-602 BAAQMD 8-18-502.4</u> | <u>P/O or A</u> | <u>Visual inspections, portable HC detector (EPA Method 21) and records of inspections and repairs</u> |

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – AFa
Applicable Limits and Compliance Monitoring Requirements
S1425 – DH CATALYTIC REFORMER UNIT (CRU)

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---------------|---|--------|-----------------------|--|--|-------------------------------------|--|
| VOC | <u>SIP</u> <u>8-18-306</u> | Y | | <u>Limitations on non-repairable equipment</u> | <u>BAAQMD & SIP 8-18-501, 8-18-502, 502.1 through 502.3 and 8-18-602, BAAQMD 8-18-502.4 and 503.</u> | <u>P/5 years or next turnaround</u> | <u>Records And Sampling</u> |
| VOC | <u>BAAQMD</u> <u>8-18-306</u> | N | | <u>Limitations on non-repairable equipment</u> | <u>BAAQMD & SIP 8-18-501, 8-18-502, 502.1 through 502.3 and 8-18-602, BAAQMD 8-18-502.4 and 503.</u> | <u>P/5 years or next turnaround</u> | <u>Records And Sampling</u> |
| VOC | <u>BAAQMD & SIP</u> <u>8-18-307 and 8-18-211</u> | Y | | <u>Equipment that leaks liquid ≥ 3 drops per minute and > 100 ppm VOC shall not be used unless the leak is discovered and minimized within 24 hours and repaired within 7 days</u> | <u>BAAQMD Regulation 8-18-306, 8-18-401, BAAQMD & SIP 8-18-402, 8-18-501, 8-18-502, 502.1 through 502.3 and 8-18-602 BAAQMD 8-18-502.4</u> | <u>P/O or A</u> | <u>Visual inspections, portable HC detector (EPA Method 21) and records of inspections and repairs</u> |
| VOC | <u>SIP</u> <u>8-28-303</u> | Y | | <u>Pressure relief devices shall be vented to vapor recovery or disposal system with a control efficiency of 95% by weight</u> <u>OR</u> <u>Facility to implement Process Safety Requirements of BAAQMD 8-28-405 for Pressure Relief Devices</u> | <u>BAAQMD 8-28-404, 8-28-405, 8-28-502 and 8-28-602</u> | <u>C</u> | <u>Records and testing with approved methods</u> |

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – AFa
Applicable Limits and Compliance Monitoring Requirements
S1425 – DH CATALYTIC REFORMER UNIT (CRU)

| 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 8-28-303 | N | | Pressure relief devices shall be vented to vapor recovery or disposal system with a control efficiency of 95% by weight OR Facility to implement Process Safety Requirements of BAAQMD 8-28-405 for Pressure Relief Devices | BAAQMD 8-28-404, 8-28-405, 8-28-502 and 8-28-602 | C | Records and testing with approved methods |
| VOC | BAAQMD & SIP 8-28-304 | Y | | If one reportable Release Event from a pressure relief device in any consecutive 5 year period, shall meet specified conditions | BAAQMD 8-28-401, 8-28-402, 8-28-404, 8-28-405, and 8-28-502 | P/E | Reporting and prescribed measures. |
| HCl | MACT Subpart UUU 63.1567(a)(1) | Y | 4/11/05 | Reduce HCl emissions by 97% (wt) or HCl emissions of 10 ppmv at 3%O ₂ | MACT Subpart UUU 63.1567(b) 63.1567(c) 63.1570(c) 63.1571(b) 63.1572(c) 63.1572(d) 63.1574(a)(2) 63.1574(a)(3) (i) 63.1574(a)(3) (ii) 63.1574(d) 63.1575(a) 63.1575(b) 63.1575(c) 63.1575(d) 63.1575(f)(1) 63.1576(a) 63.1576(b) 63.1576(d) 63.1576(f) 63.1576(g) 63.1576(h) | P/E (Initial compliance demonstration, performance test, CPM installation and performance evaluation, establish operating limits, submit initial notifications and NOCS), P/Semi-Annual (compliance report), and C (parameter monitoring, maintain records) | Continuous alkalinity or pH and water/gas flow monitors, Performance test, Records, and reports |

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII - AG
Applicable Limits and Compliance Monitoring Requirements
S1426 – CP CATALYTIC CRACKING UNIT (CCU)

| Type of Limit | Emission Limit Citation | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|----------------|---------------------------------|----------------|-----------------------|--|---|------------------------------|------------------------------------|
| Opacity | BAAQMD 6-1-301 | Y N | | Ringelmann No. 1 for no more than 3 minutes/hour | NSPS Subpart J 60.105(a)(1), 60.105(e)(1) BAAQMD 6-1-501, 6-1-502 and 1-522 | C | Opacity monitor and Records |
| <u>Opacity</u> | <u>SIP 6-301</u> | <u>Y</u> | | <u>Ringelmann No. 1 for no more than 3 minutes/hour</u> | <u>NSPS Subpart J 60.105(a)(1), 60.105(e)(1) SIP 6-501, 6-502 and 1-522</u> | <u>C</u> | <u>Opacity monitor and Records</u> |
| Opacity | BAAQMD Condition # 12911 Part 4 | Y | | Ringelmann No. 1 for no more than 3 minutes/hour | BAAQMD Condition # 12911 Part 5 | C | Water seal monitoring and Records |
| Opacity | BAAQMD 6-1-302 | Y N | | 20% opacity for no more than 3 minutes/hour | NSPS Subpart J 60.105(a)(1), 60.105(e)(1) BAAQMD 6-1-501, 6-1-502 and 1-522 | C | Opacity monitor and Records |
| <u>Opacity</u> | <u>SIP 6-302</u> | <u>Y</u> | | <u>20% opacity for no more than 3 minutes/hour</u> | <u>NSPS Subpart J 60.105(a)(1), 60.105(e)(1) SIP 6-501, 6-502 and 1-522</u> | <u>C</u> | <u>Opacity monitor and Records</u> |
| Opacity | NSPS Subpart J 60.102(a)(2) | Y | | 30 % opacity, except for one 6 minute average opacity reading in 1 hour | NSPS Subpart J 60.105(a)(1), 60.105(e)(1)) | C | Opacity monitor and records |
| Opacity | BAAQMD Condition #12911 Part 2 | Y | | Ringelmann No. 0.5 for no more than 3 minutes/hour for Catalyst Storage and Injection System | BAAQMD Condition # 12911 Part 3 and Part 4 | P/E | Visible emissions inspection |

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII - AG
Applicable Limits and Compliance Monitoring Requirements
S1426 – CP CATALYTIC CRACKING UNIT (CCU)

| Type of Limit | Emission Limit Citation | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|------------------------------------|--------------------------------------|----------------|-----------------------|--|---|---|---|
| Opacity (Surrogate for Metal HAPs) | MACT Subpart UUU 63.1564(a)(1)(i) | Y | 4/11/05 | Opacity of emissions must not exceed 30%, except for one 6-minute opacity reading in any 1-hour period | 63.1564(b)(1) 63.1564(c)(1) 63.1570(c) 63.1572(b) 63.1572(d) 63.1574(a)(3) (4) 63.1574(d) 63.1575(a) 63.1575(b) 63.1575(c) 63.1575(d) 63.1576(a) 63.1576(b) 63.1576(c) 63.1576(d) 63.1576(f) 63.1576(g) 63.1576(h) 63.1576(i) | P/E (Initial Compliance demonstration, COMS installation and performance test, submit initial notifications and NOCS); P/D (operational records), P/Semi-Annual (compliance report), and C (opacity monitoring, maintain records) | Records, calculations, Performance Tests, and Reports |
| FP | Regulation BAAQMD 6-1-310 | Y/N | | 0.15 grain per dscf | BAAQMD Condition # 18618 Part 9 & Condition 12911 Part 3 | P/A | Source Test |
| FP | <u>SIP 6-310</u> | Y | | <u>0.15 grain per dscf</u> | <u>BAAQMD Condition # 18618 Part 9 & Condition 12911 Part 3</u> | <u>P/A</u> | <u>Source Test</u> |
| FP | BAAQMD 6-1-311 | Y/N | | 4.10 P ^{0.67} lb/hr particulate, where P is process weight rate in ton/hr | BAAQMD Condition # 18618 Part 9 & Condition 12911 Part 3 | P/A | Source Test |
| FP | <u>SIP 6-311</u> | Y | | <u>4.10 P^{0.67} lb/hr particulate, where P is process weight rate in ton/hr</u> | <u>BAAQMD Condition # 18618 Part 9 & Condition 12911 Part 3</u> | <u>P/A</u> | <u>Source Test</u> |

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII - AG
Applicable Limits and Compliance Monitoring Requirements
S1426 – CP CATALYTIC CRACKING UNIT (CCU)

| Type of Limit | Emission Limit Citation | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|-------------------------------|---|--------|-----------------------|--|--|---|--|
| PM | NSPS Subpart J 60.102(a)(1) and 60.102(b) | Y | | PM emissions shall not exceed 1.0 lb per 1000 lb of coke burn-off plus incremental emissions of 0.10 lb/MMBtu for liquid or solid auxiliary fuel burned in downstream boilers | NSPS Subpart J 60.105(c), 60.105(d) | P/D | Recordkeeping |
| PM | BAAQMD Condition # 18407 Part 2 | Y | | During periods when the spent catalyst hopper is blinded off from the CO Boilers, the amount of catalyst loaded into the spent catalyst hopper shall not exceed 2000 tons in any consecutive 12-month period | BAAQMD Condition # 18407 Part 3 | P/D | Records |
| PM (Surrogate for Metal HAPs) | MACT Subpart UUU 63.1564(a)(1)(i) | Y | 4/11/05 | PM emissions must not exceed 1.0 lb per 1000 lb of coke burn-off plus incremental emissions of 0.10 lb/MMBtu for liquid or solid auxiliary fuel burned in downstream boilers | Subpart UUU 63.1564(b)(2) 63.1564(b)(4) 63.1564(b)(5) 63.1564(c)(1) 63.1570(c) 63.1571(a)(1) 63.1571(b) 63.1574(a)(3) (ii) 63.1574(d) 63.1575(a) 63.1575(b) 63.1575(c) 63.1575(d) 63.1575(f) 63.1576(a) 63.1576(d) 63.1576(f) 63.1576(g) 63.1576(h) 63.1576(i) | P/E (Initial Compliance demonstration performance test, emission calculation, submit initial notifications and NOCS); P/D (operational records); P/Semi-Annual (compliance report); and C (maintain records) | Records, calculations, Performance Test, and Reports |
| SO ₂ | BAAQMD 9-1-310.1 | Y | | SO ₂ emissions shall not exceed 1000 ppmv | BAAQMD 9-1-502 and 1-522 | C | SO ₂ CEM and records |

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII - AG
Applicable Limits and Compliance Monitoring Requirements
S1426 – CP CATALYTIC CRACKING UNIT (CCU)

| Type of Limit | Emission Limit Citation | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|-----------------|------------------------------------|----------|-----------------------|--|---|------------------------------|---|
| SO ₂ | NSPS Subpart J 60.104(b)(2) | Y | | Without add-on control device, maintain SO ₂ emissions to atmosphere at less than or equal to 9.8 kg of SO ₂ per 1000 kg of coke burn-off | NSPS Subpart J 60.104(c), 60.105(c), 60.106(i)(12), 60.108(d) and 60.108(e) | P | Records |
| SO ₂ | <u>NSPS Subpart J 60.104(b)(2)</u> | <u>Y</u> | | <u>Without add-on control device, maintain SO₂ emissions to atmosphere at less than or equal to 9.8 kg of SO₂ per 1000 kg of coke burn-off</u> | <u>BAAQMD AMP Condition # 24335 Parts 1, 3, and 5</u> | <u>C</u> | <u>Records containing SO₂, O₂, CO and CO₂ CEM data, and calculations approved under AMP.</u> |
| VOC | BAAQMD 8-10-301 | Y | | Abatement of emissions from process vessel depressurization is required until pressure is reduced to less than 1000 mm Hg | BAAQMD & SIP 8-10-401.2 (SIP) and 8-10-501, <u>502.1 through 502.3 & 502</u> (SIP) <u>BAAQMD 8-18-502.4</u> | P/E | Records |
| VOC | BAAQMD & SIP 8-18-301 | Y | | Equipment that leaks > 100 ppm shall not be used unless the leak is discovered and minimized within 24 hours and repaired within 7 days | BAAQMD 8-18-401, BAAQMD & SIP 8-18-401, 8-18-402, 8-18-501, 8-18-502, <u>502.1 through 502.3 and 8-18-602</u> <u>BAAQMD 8-18-502.4</u> | P/A | Visual inspections, portable HC detector (EPA Method 21) and records of inspections and repairs |

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII - AG
Applicable Limits and Compliance Monitoring Requirements
S1426 – CP CATALYTIC CRACKING UNIT (CCU)

| Type of Limit | Emission Limit Citation | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---------------|---|----------|-----------------------|--|--|--|--|
| VOC | BAAQMD & SIP 8-18-302 | Y | | Valves that leak > 100 ppm shall not be used unless the leak is discovered and minimized within 24 hours and repaired within 7 days | BAAQMD 8-18-306, 8-18-502.4 , 8-18-401 , BAAQMD & SIP 8-18-401 , 8-18-402, 8-18-404, 8-18-501, 8-18-502, 502.1 through 502.3 and 8-18-602 | P/Q or A | Visual inspections, portable HC detector (EPA Method 21) and records of inspections and repairs |
| <u>VOC</u> | <u>BAAQMD 8-18-302</u> | <u>N</u> | | <u>Valves that leak > 100 ppm shall not be used unless the leak is discovered and minimized within 24 hours and repaired within 7 days</u> | <u>BAAQMD 8-18-306, 8-18-502.4 BAAQMD & SIP 8-18-401, 8-18-402, 8-18-404, 8-18-501, 8-18-502, 502.1 through 502.3 and 8-18-602</u> | <u>P/Q or A</u> | <u>Visual inspections, portable HC detector (EPA Method 21) and records of inspections and repairs</u> |
| VOC | BAAQMD & SIP 8-18-303 | Y | | Pumps and compressors that leak > 500 ppm shall not be used unless the leak is discovered and minimized within 24 hours and repaired within 7 days | BAAQMD 8-18-306, 8-18-502.4 , 8-18-401 , BAAQMD & SIP 8-18-401 , 8-18-402, 8-18-403, 8-18-501, 8-18-502, 502.1 through 502.3 and 8-18-602 | P/D – visual inspection and Q - monitoring | Visual inspections, portable HC detector (EPA Method 21) and records of inspections and repairs |

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII - AG
Applicable Limits and Compliance Monitoring Requirements
S1426 – CP CATALYTIC CRACKING UNIT (CCU)

| Type of Limit | Emission Limit Citation | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---------------|---|--------|-----------------------|--|--|---|--|
| VOC | <u>BAAQMD 8-18-303</u> | N | | <u>Pumps and compressors that leak > 500 ppm shall not be used unless the leak is discovered and minimized within 24 hours and repaired within 7 days</u> | <u>BAAQMD 8-18-306, 8-18-502.4, BAAQMD & SIP 8-18-401, 8-18-402, 8-18-403, 8-18-501, 8-18-502, 502.1 through 502.3 and 8-18-602</u> | <u>P/D – visual inspection and Q - monitoring</u> | <u>Visual inspections, portable HC detector (EPA Method 21) and records of inspections and repairs</u> |
| VOC | <u>BAAQMD & SIP 8-18-304</u> | Y | | Connections that leak > 100 ppm shall not be used unless the leak is discovered by an operator and minimized within 24 hours and repaired within 7 days or if the leak is discovered by an APCO and repaired within 24 hours | <u>BAAQMD 8-18-401, 8-18-502.4 BAAQMD & SIP 8-18-401, 8-18-402, 8-18-501, 8-18-502, 502.1 through 502.3 and 8-18-602</u> | P/Q | Visual inspections, portable HC detector (EPA Method 21) and records of inspections and repairs |
| VOC | <u>BAAQMD 8-18-304</u> | N | | <u>Connections that leak > 100 ppm shall not be used unless the leak is discovered by an operator and minimized within 24 hours and repaired within 7 days or if the leak is discovered by an APCO and repaired within 24 hours</u> | <u>BAAQMD, 8-18-502.4 BAAQMD & SIP 8-18-401, 8-18-402, 8-18-501, 8-18-502, 502.1 through 502.3 and 8-18-602</u> | P/Q | <u>Visual inspections, portable HC detector (EPA Method 21) and records of inspections and repairs</u> |
| VOC | <u>BAAQMD & SIP 8-18-305</u> | Y | | Pressure release devices that leak > 500 ppm shall not be used unless the leak is discovered by an operator and minimized within 24 hours and repaired within 15 days or if the leak is discovered by an APCO and repaired within 7 days | <u>BAAQMD 8-18-306, 8-18-502.4, 8-18-401, BAAQMD & SIP 8-18-401, 8-18-402, 8-18-501, 8-18-502, 502.1 through 502.3 and 8-18-602</u> | P/Q or A | Visual inspections, portable HC detector (EPA Method 21) and records of inspections and repairs |

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII - AG
Applicable Limits and Compliance Monitoring Requirements
S1426 – CP CATALYTIC CRACKING UNIT (CCU)

| Type of Limit | Emission Limit Citation | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---------------|---|----------------|-----------------------|---|---|------------------------------|---|
| VOC | BAAQMD & SIP 8-18-306 | Y | | Limitations on non-repairable equipment | BAAQMD & SIP 8-18-501, 8-18-502, 502.1 through 502.3 and 8-18-602, BAAQMD 8-18-502.4 8-18-503 | P/5 years or next turnaround | Records And Sampling |
| VOC | BAAQMD 8-18-306 | N | | Limitations on non-repairable equipment | BAAQMD & SIP 8-18-501, 8-18-502, 502.1 through 502.3 and 8-18-602, BAAQMD 8-18-502.4 8-18-503 | P/5 years or next turnaround | Records And Sampling |
| VOC | BAAQMD & SIP 8-18-307 and 8-18-211 | Y | | Equipment that leaks liquid > 3 drops per minute and > 100 ppm VOC shall not be used unless the leak is discovered and minimized within 24 hours and repaired within 7 days | BAAQMD 8-18-306, 8-18-502.4 8-18-404, BAAQMD & SIP 8-18-401, 8-18-402, 8-18-501, 8-18-502, 502.1 through 502.3 and 8-18-602 | P/Q or A | Visual inspections, portable HC detector (EPA Method 21) and records of inspections and repairs |
| VOC | BAAQMD & SIP 8-28-303.1 | Y N | | Pressure relief devices shall be vented to vapor recovery or disposal system with a control efficiency of 95% by weight | BAAQMD 8-28-403, 8-28-404, 8-28-405, 8-28-502 and 8-28-602 | C | Records and testing with approved methods |
| VOC | BAAQMD 8-28-303.1 | N | | Pressure relief devices shall be vented to vapor recovery or disposal system with a control efficiency of 95% by weight | BAAQMD 8-28-404, 8-28-405, 8-28-502 and 8-28-602 | C | Records and testing with approved methods |
| VOC | BAAQMD 8-28-303.2 | N | | Facility to implement Process Safety Requirements of BAAQMD 8-28-405 for Pressure Relief Devices | BAAQMD 8-28-502.1 | P/E | Records |

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII - AG
Applicable Limits and Compliance Monitoring Requirements
S1426 – CP CATALYTIC CRACKING UNIT (CCU)

| Type of Limit | Emission Limit Citation | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|----------------------------|--------------------------------------|--------------|-----------------------|---|--|--|---------------------------------------|
| VOC | BAAQMD & SIP 8-28-304 | Y | | If one reportable Release Event from a pressure relief device in any consecutive 5 year period, shall meet specified conditions | BAAQMD 8-28-401, 8-28-402, 8-28-403, 8-28-404, and 8-28-405, and 8-28-502 | P/E | Reporting and prescribed measures. |
| CO | NSPS Subpart J 60.103(a) | Y | | CO emissions shall not exceed 500 ppmv | NSPS Subpart J 60.105(a)(2), 60.105(c), | C and P/D | CO CEM and records |
| NOx, SO2, CO and PM | BAAQMD Condition #7618, Part A | Y | | Daily emission increases over baseline profile shall be offset by reductions below profile at a ratio of at least 2.0:1 | BAAQMD Condition #7618, Part B, F and G | P/D | Calculation, reporting and records |
| NOx, SO2, CO and PM | BAAQMD Condition #7618, Part C.c | Y | | If profile has more than 5 non-complying days, the refinery shall not process more than 65,000 barrels of catalytic cracker feed per stream day | BAAQMD Condition #7618, Part G | P/E | Records |
| CO (Surrogate for HAP VOC) | MACT Subpart UUU 63.1565(a)(1) | Y | 4/11/05 | CO emissions shall not exceed 500 ppmv | MACT Subpart UUU 63.1565(b)(1) 63.1565(b)(2) 63.1565(b)(4) 63.1565(b)(6) 63.1565(c) 63.1570(c) 63.1571(a)(1) 63.1571(b) 63.1572(a) 63.1572(d) 63.1574(a)(ii) 63.1574(d) 63.1575(a) 63.1575(b) 63.1575(c) 63.1575(e) 63.1575(f)(1) 63.1576(a) 63.1576(b) 63.1576(d) 63.1576(f) <hr/> 63.1576(g) 63.1576(h) | P/E (Initial Compliance Demonstration, performance test, CEMS installation and performance evaluation, submit initial notifications and NOCS), P/Semi-Annual (compliance report), and C (emissions monitoring, maintain records) | Records, Performance Test, and CO CEM |

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VII. Applicable Limits and Compliance Monitoring Requirements

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – AH
Applicable Limits and Compliance Monitoring Requirements
S1431 – CP SULFUR PLANT 1 (SRU1), S1432 – CP SULFUR PLANT 2 (SRU2),
S1765 – OPCEN SULFUR PLANT 3(SRU3), S4180 – OPCEN SULFUR PLANT 4 (SRU4)

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|--|--|----------------|-----------------------|--|---|------------------------------|--|
| SO ₂ | NSPS Subpart J 60.104 (a)(2)(i) | Y | | 250 ppmv SO ₂ at 0% O ₂ | NSPS Subpart J 60.105(a)(5), 60.106(f)(3) | C | SO ₂ and O ₂ CEM |
| <u>SO₂</u> | <u>NSPS Subpart J 60.104 (a)(2)(i)</u> | <u>Y</u> | | <u>250 ppmv SO₂ at 0% O₂</u> | <u>For S4180 NSPS Subpart J 60.105(a)(5), 60.106(f)(3) & BAAQMD AMP Condition# 24338 Part 1</u> | <u>C</u> | <u>SO₂ and O₂ CEM</u> <u>SO₂ CEM shall be spanned at 250 ppm and 2,500 ppm</u> |
| Opacity | BAAQMD 6-1-301 | Y N | | Ringelmann No. 1 for no more than 3 minutes/hour | None | N | None |
| <u>Opacity</u> | <u>SIP 6-301</u> | <u>Y</u> | | <u>Ringelmann No. 1 for no more than 3 minutes/hour</u> | <u>None</u> | <u>N</u> | <u>None</u> |
| FP | BAAQMD 6-1-310 | Y N | | 0.15 grain per dscf | None | N | None |
| <u>FP</u> | <u>SIP 6-310</u> | <u>Y</u> | | <u>0.15 grain per dscf</u> | <u>None</u> | <u>N</u> | <u>None</u> |
| FP | BAAQMD 6-1-311 | Y N | | 4.10 P ^{0.67} lb/hr particulate, where P is process weight rate in ton/hr | None | N | None |
| <u>FP</u> | <u>SIP 6-311</u> | <u>Y</u> | | <u>4.10 P^{0.67} lb/hr particulate, where P is process weight rate in ton/hr</u> | <u>None</u> | <u>N</u> | <u>None</u> |
| SO ₃ / H ₂ SO ₄ | BAAQMD 6-1-330 | Y N | | 0.08 grain/dscf exhaust concentration of SO ₃ and H ₂ SO ₄ , expressed as 100% H ₂ SO ₄ | BAAQMD Condition # 18618, Part 8 | P/A | Source Test |
| <u>SO₃/ H₂SO₄</u> | <u>SIP 6-330</u> | <u>Y</u> | | <u>0.08 grain/dscf exhaust concentration of SO₃ and H₂SO₄, expressed as 100% H₂SO₄</u> | <u>BAAQMD Condition # 18618, Part 8</u> | <u>P/A</u> | <u>Source Test</u> |

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – AH
Applicable Limits and Compliance Monitoring Requirements
S1431 – CP SULFUR PLANT 1 (SRU1), S1432 – CP SULFUR PLANT 2 (SRU2),
S1765 – OPCEN SULFUR PLANT 3(SRU3), S4180 – OPCEN SULFUR PLANT 4 (SRU4)

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---------------|--|--------|-----------------------|--|--|------------------------------|-----------------|
| Through-put | <u>BAAQMD Condition #18618, Part 1</u> | N | | <p><u>Applies to S1431 and S1432</u> <u>Daily throughput S1431+S1432</u> <u>< 331 Long Tons/Day (LTD)</u> <u>Annual throughput < 120,815 Long Tons/Yr (LTY)</u></p> <p><u>Applies to S1765</u> <u>Daily throughput < 150 LTD</u> <u>Annual throughput < 54,750 LTY</u></p> <p><u>Applies to S4180</u> <u>Daily throughput < 140 LTD</u> <u>Annual throughput < 51,100 LTY</u></p> <p><u>S1765, and S4180</u> <u>Annual throughput limits</u></p> | <u>BAAQMD Condition #18618, Part 2</u> | P/A | Records |

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – AHa
Applicable Limits and Compliance Monitoring Requirements
S1431 – CP SULFUR PLANT 1 (SRU1), S1432 – CP SULFUR PLANT 2 (SRU2)
S1765 – OPCEN SULFUR PLANT 3 (SRU3), S4180 – OPCEN SULFUR PLANT 4 (SRU4)

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|--|-----------------------------------|--------|-----------------------|---|---|--|--|
| See Table AH for additional requirements. | | | | | | | |
| SO ₂ | MACT Subpart UUU 63.1568(a)(1)(i) | Y | 4/1/05 | SO ₂ emissions shall not exceed 250 ppmv at 0% excess O ₂ | MACT Subpart UUU 63.1568(b)(1) 63.1568(b)(2) 63.1568(b)(5) 63.1568(c)(1) 63.1570(c) 63.1571(b) 63.1572(a) 63.1572(d) 63.1574(a)(2) 63.1574(a)(3) 63.1574(d) 63.1574(f)(1) 63.1575(a) 63.1575(b) 63.1575(c) 63.1575(e) 63.1575(f)(1) 63.1576(a) 63.1576(b) 63.1576(d) 63.1576(f) 63.1576(g) 63.1576(h) 63.1576(i) | P/E (Initial compliance demonstration, performance test, CEMs installation and performance evaluation, submit initial notifications and NOCS), P/D (records) P/Semi-Annual (compliance report) and C (emissions monitoring, maintain records) | Records, SO ₂ and O ₂ CEM, Performance Test, Reports |

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII—AHb
Applicable Limits and Compliance Monitoring Requirements
~~S1765—OPCEN SULFUR PLANT 3 (SRU3), S4180—OPCEN SULFUR PLANT 4 (SRU4)~~

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|--|--------------------------------|--------|-----------------------|--|--|---|--|
| See Table AH for additional requirements. | | | | | | | |
| SO ₂ | MACT Subpart UUU 63.1568(a)(1) | Y | 4/11/05 | 250 ppmv SO ₂ at 0% excess O ₂ | MACT Subpart UUU 63.1568(b)(1) 63.1568(b)(5) 63.1568(b)(7) 63.1568(e)(2) 63.1568(e)(1) 63.1570(e) 63.1572(a)(1) 63.1572(a)(2) 63.1572(a)(4) 63.1572(d) 63.1574(a) 63.1574(d) 63.1575(a) 63.1575(b) 63.1575(e) 63.1575(e) 63.1575(g) 63.1575(h) 63.1576(a) 63.1576(b) 63.1576(d) 63.1576(e) 63.1576(f) 63.1576(g) 63.1576(h) 63.1576(i) | P/E (Initial Compliance Demonstration, Submit initial notifications and NOCS); P/D (records); P/Semi-Annual (compliance report), and C (emissions monitoring, maintain records) | Records, SO ₂ and O ₂ CEM, Reports |

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – AJ
Applicable Limits and Compliance Monitoring Requirements
S1457 – COOLING WATER TOWER (CWT-32),
S1778 – COOLING WATER TOWER (CWT-50), AND
S4210 – COOLING WATER TOWER (CWT-13278)

| 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 6-1-301 | Y N | | Ringelmann No. 1 for no more than 3 minutes/hour | None | N | None |
| Opacity | SIP 6-301 | Y | | Ringelmann No. 1 for no more than 3 minutes/hour | None | N | None |
| FP | BAAQMD 6-1-310 | Y N | | 0.15 grain per dscf | None | N | None |
| FP | SIP 6-310 | Y | | 0.15 grain per dscf | None | N | None |
| FP | BAAQMD 6-1-311 | Y N | | 4.10 P ^{0.67} lb/hr particulate, where P is process weight rate in ton/hr | None | N | None |
| FP | SIP 6-311 | Y | | 4.10 P ^{0.67} lb/hr particulate, where P is process weight rate in ton/hr | None | N | None |
| NOx, CO, SO ₂ , PM and VOC | BAAQMD Condition #12271, Part A | Y | | Applies to S4210 Emissions from Clean Fuels Project sources shall not exceed 199.4 tpy NOx, 252.4 tpy CO, 139.7 tpy SO ₂ , 59.1 tpy PM, 132.0 tpy VOC, 20.8 ton/mon NOx, 26.3 ton/mon CO, 14.6 ton/mon SO ₂ , 6.2 ton/mon PM and 13.7 ton/mon VOC | BAAQMD Condition #12271, Part A, B, C, L and M | P/M and A | Calculation, records and reporting |
| VOC | BAAQMD Condition 12271, Part 55 | Y | | Applies to S4210 Hydrocarbon reading above defined Action Level will trigger an alarm. | BAAQMD Condition # 12271 Part L, M and 55 | P/C | District-approved continuous hydrocarbon analyzer/recorder to determine hydrocarbon vapor concentration from cooling water |

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VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – AK
Applicable Limits and Compliance Monitoring Requirements
S1465 – LOG LIGHT OIL PRODUCTS GROSS OIL SEPARATOR,
S1779 OPCEN CPI OIL/WATER SEPARATOR, S1469 – LOG API SEPARATOR (ETP 1)

| 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 8-8-302.4 8-8-302.6 | Y | | VOC concentrations shall not exceed 1,000 500 ppm (expressed as methane) above background | BAAQMD 8-8-302.4 8-8-302.6, 8-8-503, 8-8-603 and BAAQMD Condition #5077, Part 6, 9-12 | P/S | Visual inspections, portable HC detector (EPA Method 21) and records of inspections and repairs |
| Through-put | BAAQMD Condition #5077, Parts 1, 4, and 7 | Y | | Design rated capacity S-1465 < 3,400 GPM S-1469 < 6,000 GPM S-1779 < 3,000 GPM Applies to S1465 Throughput shall not exceed 3400 gpm or the maximum allowable capacity of the unit | BAAQMD Condition #18618, Part 2 | P/D and A | Records |

Table VII – AL
Applicable Limits and Compliance Monitoring Requirements
S1465 – LOG LIGHT OIL PRODUCTS GROSS OIL SEPARATOR,

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|--------|-----------------------|--|--|------------------------------|-----------------|
| See Table VII – AK for additional requirements. | | | | | | | |
| Through-put | BAAQMD Condition #5077, Part 4 | Y | | Throughput shall not exceed 3400 gpm or the maximum allowable capacity of the unit | BAAQMD Condition #18618, Part 2 | P/D and A | Records |

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – AM
Applicable Limits and Compliance Monitoring Requirements
S1469 – LOG API SEPARATOR (ETP 1)

| 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 8-8-302.46 | Y | | VOC concentrations shall not exceed 1,000 ppm (expressed as methane) above background | BAAQMD 8-8-302.4, 8-8-503, 8-8-603 and BAAQMD Condition #5077, Part 3 | P/S | Visual inspections, portable HC detector (EPA Method 21) and records of inspections and repairs |
| Throughput | BAAQMD Condition #5077, Part 1 | Y | | Throughput shall not exceed 6000 gpm or the maximum allowable capacity of the unit | BAAQMD Condition #18618, Part 2 | P/D and A | Records |

Table VII – AN
Applicable Limits and Compliance Monitoring Requirements
S1470 – LOG LPG LOADING FLARE

| 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 6-1-301 | Y N | | Ringelmann No. 1 for no more than 3 minutes/hour | None BAAQMD Condition # 18618 Part 15 | P/E | Visible Emissions Check |
| <u>Opacity</u> | <u>SIP 6-301</u> | <u>Y</u> | | <u>Ringelmann No. 1 for no more than 3 minutes/hour</u> | <u>None</u> | <u>P/E</u> | <u>Visible Emissions Check</u> |
| FP | BAAQMD 6-1-310 | Y N | | 0.15 grain per dscf at 6% O ₂ | None BAAQMD Condition # 18618 Part 15 | P/E | Visible Emissions Check |
| <u>FP</u> | <u>SIP 6-310</u> | <u>Y</u> | | <u>0.15 grain per dscf at 6% O₂</u> | <u>None</u> | <u>P/E</u> | <u>Visible Emissions Check</u> |
| Flare Design | 40 CFR 60.18(e)(3) | Y | | Heat content specification as per (e)(3)(ii) and maximum tip velocity specification per (4), or 60.18(e)(3)(i) flare specifications | 60.18(f)(3) 60.18(f)(4) 60.18(f)(5) | P/E | Records of heat content and maximum tip velocity |

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – AN
Applicable Limits and Compliance Monitoring Requirements
S1470 – LOG LPG LOADING FLARE

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---------------------|----------------------------------|--------|-----------------------|--|--|------------------------------|------------------------|
| Presence of a Flame | 40 CFR 60.18(e)(2) | Y | | The flare shall be operated with a flame present at all times | 60.18(f)(2) | P/C | Flame Detector |
| SO ₂ | NSPS Subpart J 60.104(a)(1) | Y | | Fuel gas H ₂ S limited to 0.10 gr/dscf (463-162 ppm) except for gas burned as a result of process upset or gas burned at flares from relief valve leaks or other emergency malfunctions | NSPS Subpart A 60.13(i) <u>assuming EPA approves AMP discussed under PC 24337:</u> Else, NSPS Subpart J 60.105(a)(4) and 60.105(e)(3) | P/E | Monitoring and records |
| VOC | BAAQMD Condition #12271, Part 74 | Y | | Emissions from loading operation shall be controlled by S1470 | None | N | None |

Table VII – AO
Applicable Limits and Compliance Monitoring Requirements

A101 – FLARE FOR VINE HILL VAPOR RECOVERY SYSTEM,
A102 – FLARE FOR CRUDE STRING VAPOR RECOVERY SYSTEM

| 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 8-5-306.1 | Y N | | Control device standards; includes 95% efficiency requirement | BAAQMD 8-5-502.1 and 8-5-603 | P/E/N | <u>Emissions of organic compounds measured using MOP, Vol. IV, ST-4</u> None |
| VOC | BAAQMD 8-5-328.1 | Y | | <u>Tank cleaning control device standards; includes 90% efficiency requirement</u> | BAAQMD 8-5-321, 8-5-502.2 and 8-5-603 | P/A | <u>Annual source test using MOP, Vol. IV, ST-7</u> |

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – AO
Applicable Limits and Compliance Monitoring Requirements

~~A101 – FLARE FOR VINE HILL VAPOR RECOVERY SYSTEM,~~
~~A102 – FLARE FOR CRUDE STRING VAPOR RECOVERY SYSTEM~~

| 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 6-1-301 | Y | | Ringelmann No. 1 for no more than 3 minutes/hour | None | P/E | Visible Emissions Check |
| Opacity | SIP 6-301 | Y | | Ringelmann No. 1 for no more than 3 minutes/hour | None | P/E | Visible Emissions Check |
| FP | BAAQMD 6-1-310 | Y | | 0.15 grain per dscf at 6% O ₂ | None | P/E | Visible Emissions Check |
| FP | SIP 6-310 | Y | | 0.15 grain per dscf at 6% O ₂ | None | P/E | Visible Emissions Check |
| Presence of a Flame | 40 CFR 60.18(c)(2) | Y | | The flare shall be operated with a flame present at all times | 60.18(f)(2) | P/C | Flame Detector |
| Flare Design | 40 CFR 60.18(c)(3) | Y | | Heat content specification as per (c)(3)(ii) and maximum tip velocity specification per (c)(4), or 60.18(c)(3)(i) flare specifications | 60.18(f)(3) 60.18(f)(4) 60.18(f)(5) | P/E | Records of heat content and maximum tip velocity |
| SO ₂ | NSPS Subpart J 60.104(a)(1) | Y | | Fuel gas H ₂ S limited to 0.10 gr/dscf (162 ppm) except for gas burned as a result of process upset or gas burned at flares from relief valve leaks or other emergency malfunctions | NSPS Subpart J 60.105(a)(4) and 60.105(e)(3) | C | H ₂ S analyzer |

Table VII – AOa
Applicable Limits and Compliance Monitoring Requirements

~~A101 – FLARE FOR VINE HILL VAPOR RECOVERY SYSTEM,~~
~~A102 – FLARE FOR CRUDE STRING VAPOR RECOVERY SYSTEM, A103 – FLARE FOR INTERIM GASOLINE VAPOR RECOVERY SYSTEM~~

| 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 – AOa
 Applicable Limits and Compliance Monitoring Requirements

~~A101 – FLARE FOR VINE HILL VAPOR RECOVERY SYSTEM,~~
~~A102 – FLARE FOR CRUDE STRING VAPOR RECOVERY SYSTEM, A103 – FLARE FOR INTERIM GASOLINE~~
 VAPOR RECOVERY SYSTEM

| 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 8-5-306.1 | Y N | | Control device standards; includes 95% efficiency requirement | BAAQMD 8-5-502.1, and 8-5-603.1 | P/E N | None Emissions of organic compounds measured using MOP, Vol. IV, ST-4 |
| VOC | BAAQMD 8-5-328.1.2 | Y | | Tank cleaning control device standards; includes 90% efficiency requirement | BAAQMD 8-5-331, 8-5-502.2.2, and 8-5-603.2 | P/A | Annual source test using MOP, Vol. IV, ST-7 |
| Opacity | BAAQMD 6-1-301 | Y N | | Ringelmann No. 1 for no more than 3 minutes/hour | None BAAQMD Condition # 18618 Part 15 None | P/E P/ E N | Visible Emissions Check Visible Emissions Check None |
| Opacity | SIP 6-301 | Y | | Ringelmann No. 1 for no more than 3 minutes/hour | None | P/E | Visible Emissions Check |
| FP | BAAQMD 6-1-310 | Y N | | 0.15 grain per dscf at 6% O ₂ | None BAAQMD Condition # 18618 Part 15 None | P/E P/ E N | Visible Emissions Check Visible Emissions Check None |
| FP | SIP 6-310 | Y | | 0.15 grain per dscf at 6% O ₂ | None | P/E | Visible Emissions Check |
| SO ₂ | NSPS Subpart J 60.104(a)(1) | Y | | Fuel gas H ₂ S limited to 0.10 gr/dscf (162 ppm) except for gas burned as a result of process upset or gas burned at flares from relief valve leaks or other emergency malfunctions | NSPS Subpart J 60.105(a)(4) and 60.105(e)(3) | C | H ₂ S analyzer |

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – AOb
Applicable Limits and Compliance Monitoring Requirements
S1471 – LOP AUXILIARY FLARE, S1472 – LOP MAIN FLARE

| 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 6-1-301 | Y N | | Ringelmann No. 1 for no more than 3 minutes/hour | BAAQMD Condition # 18618 Part 14, 15, 16, and 17 | P/E | Visible Emissions Check |
| Opacity | SIP 6-301 | Y | | Ringelmann No. 1 for no more than 3 minutes/hour | BAAQMD Condition # 18618 Part 14, 15, 16, and 17 | P/E | Visible Emissions Check |
| FP | BAAQMD 6-1-310 | Y N | | 0.15 grain per dscf at 6% O ₂ | BAAQMD Condition # 18618 Part 14, 15, 16, and 17 | P/E | Visible Emissions Check |
| FP | SIP 6-310 | Y | | 0.15 grain per dscf at 6% O ₂ | BAAQMD Condition # 18618 Part 14, 15, 16, and 17 | P/E | Visible Emissions Check |
| VOC, HAP | | N | 12/4/03 | | BAAQMD Regulation 12-11-501 & 12-11-505 | P/E | Flow Rate |
| | | N | 9/4/03 | | BAAQMD Regulation 12-11-502.1 & 12-11-505 | P/E | Composition |
| | | N | 3/4/04 | | BAAQMD Regulation 12-11-502.3 & 12-11-505 | P/E | Composition |
| | | N | | | BAAQMD Regulation 12-11-503 & 12-11-505 | P/C | Flame Detector |
| | | N | | | BAAQMD Regulation 12-11-504 & 12-11-505 | P/C | Purge Gas Flow Rate |
| | | N | 12/4/03 | | BAAQMD Regulation 12-11-507 | P/ | 1 frame per minute image video recording |

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – AOb
Applicable Limits and Compliance Monitoring Requirements
S1471 – LOP AUXILIARY FLARE, S1472 – LOP MAIN FLARE

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---------------------|----------------------------------|--------|-----------------------|--|--|------------------------------|--|
| Vent Gas Limit | BAAQMD Condition # 18618 Part 12 | | | Combined flow to flares S1471 and S1472 shall not exceed 630,000 lbs/hr vent gas | BAAQMD Condition # 18618 Part 13 | P/E | Records |
| Presence of a Flame | 40 CFR 60.18(c)(2) | Y | | The flare shall be operated with a flame present at all times | 60.18(f)(2) | P/C | Flame Detector |
| Flare Design | 40 CFR 60.18(c)(3) | Y | | Heat content specification as per (c)(3)(ii) and maximum tip velocity specification per (c)(4), or 60.18(c)(3)(i) flare specifications | 60.18(f)(3) 60.18(f)(4) 60.18(f)(5) | P/E | Records of heat content and maximum tip velocity |
| SO ₂ | NSPS Subpart J 60.104(a)(1) | Y | | Fuel gas H ₂ S limited to 0.10 gr/dscf (162 ppm) except for gas burned as a result of process upset or gas burned at flares from relief valve leaks or other emergency malfunctions | NSPS Subpart J 60.105(a)(4) and 60.105(e)(3) | C | H ₂ S analyzer |

Table VII – AOc
Applicable Limits and Compliance Monitoring Requirements
S1471 – LOP AUXILIARY FLARE

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---------------------|--------------------|--------|-----------------------|---|---------------------------------|------------------------------|-----------------|
| Presence of a Flame | 40 CFR 60.18(c)(2) | Y | | The flare shall be operated with a flame present at all times | 60.18(f)(2) | P/C | Flame Detector |

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – AQ
Applicable Limits and Compliance Monitoring Requirements

**S1480 – LUBS F-69 ASPHALT CIRCULATION, S1481 – OPCEN F-30 DSU,
 S1483 – LUBS F-32 ASPHALT CIRCULATION,
 S1506 – CP F-61 CGP FEED,**

| 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 6-1-301 | Y N | | Ringelmann No. 1 for no more than 3 minutes/hour | None | N | None |
| <u>Opacity</u> | <u>SIP 6-301</u> | <u>Y</u> | | <u>Ringelmann No. 1 for no more than 3 minutes/hour</u> | <u>None</u> | <u>N</u> | <u>None</u> |
| Opacity | BAAQMD 6-1-304 | Y N | | Ringelmann No. 2 for no more than 3 minutes/hour during tube cleaning | BAAQMD Condition # 18618 Part 6 and Part 7 | P/E (during tube cleaning) | Visible emission inspection & Records |
| <u>Opacity</u> | <u>SIP 6-304</u> | <u>Y</u> | | <u>Ringelmann No. 2 for no more than 3 minutes/hour during tube cleaning</u> | <u>BAAQMD Condition # 18618 Part 6 and Part 7</u> | <u>P/E (during tube cleaning)</u> | <u>Visible emission inspection & Records</u> |
| FP | BAAQMD 6-1-310.3 | Y N | | 0.15 grain per dscf at 6% O ₂ | None | N | None |
| <u>FP</u> | <u>SIP 6-310.3</u> | <u>Y</u> | | <u>0.15 grain per dscf at 6% O₂</u> | <u>None</u> | <u>N</u> | <u>None</u> |
| NOx | BAAQMD 9-10-301 | N | | Refinery-wide NOx emission rate shall not exceed 0.033 lb/MMBtu, operating-day average | BAAQMD 9-10-502, 9-10-504, 12 , 9-10-505 and 1-523; Condition # 18265 Parts <u>1-7, 9, 10, 12-15, 20</u> 1-7, 9, 16, and 7-24 | C | Monitoring, records, and reporting |

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – AQ
Applicable Limits and Compliance Monitoring Requirements

**S1480 – LUBS F-69 ASPHALT CIRCULATION, S1481 – OPCEN F-30 DSU,
 S1483 – LUBS F-32 ASPHALT CIRCULATION,
 S1506 – CP F-61 CGP FEED,**

| 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 9-10-303 | Y N | | NOx emission rate shall not exceed 0.2 lb/MMBtu, operating-day average (facility-wide) | BAAQMD 9-10-502, 9-10-504.1, 9-10-505 and 1-523; Condition # 18265 Parts 1-7, 9, 10, 12-15, 20 1-7, 9-15, and 7-2101, 2, 8, 10, 11-13, 15, 17, 20-21 | C | Monitoring, records, and reporting |
| NOx | SIP 9-10-303 | Y | | NOx emission rate shall not exceed 0.2 lb/MMBtu, operating-day average (facility-wide) | BAAQMD 9-10-502, 9-10-504.1, 9-10-505 and 1-523; Condition # 18265 Parts 1-7, 9, 10, 12-15, 20 | C | Monitoring, records, and reporting |
| CO | BAAQMD 9-10-305 | N | | CO emissions shall not exceed 400 ppmv dry at 3% O ₂ , operating-day average | BAAQMD 9-10-502, 9-10-504.1, 9-10-505 and 1-523 | C A | Monitoring, records, and reporting |
| SO ₂ | NSPS Subpart J 60.104(a)(1) | Y | | Fuel gas H ₂ S limited to 0.10 gr/dscf (463-162 ppm) for refinery fuel gas (RFG) and/or flexigas (FXG) | NSPS Subpart J 60.105(a)(4) and 60.105(e)(3) | C | H ₂ S analyzer for refinery fuel gas (RFG) and/or flexigas (FXG) |
| NOx, SO ₂ , CO and PM | BAAQMD Condition #7618, Part A | Y | | Daily emission increases over baseline profile shall be offset by reductions below profile at a ratio of at least 2.0:1 | BAAQMD Condition #7618, Part B, F and G | P/D | Calculation, reporting and records |

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – AQ
Applicable Limits and Compliance Monitoring Requirements

**S1480 – LUBS F-69 ASPHALT CIRCULATION, S1481 – OPCEN F-30 DSU,
 S1483 – LUBS F-32 ASPHALT CIRCULATION,
 S1506 – CP F-61 CGP FEED,**

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|----------------------------------|----------------------------------|--------|-----------------------|---|---------------------------------|------------------------------|-----------------|
| NOx, SO ₂ , CO and PM | BAAQMD Condition #7618, Part C.d | Y | | If profile has more than 5 non-complying days, the fuel usage at sources under the cap shall not exceed 14,730 NLFE (net liquid fuel equivalent) barrels per stream day | BAAQMD Condition #7618, Part G | P/E | Records |
| Through-put | BAAQMD Condition #16688 | N | | Maximum firing rate (higher heating value) | BAAQMD Condition #18618, Part 2 | P/D and A | Records |

Table VII – AQa
Applicable Limits and Compliance Monitoring Requirements
~~S1480 – LUBS F-69 ASPHALT CIRCULATION, S1481 – OPCEN F-30 DSU,
 S1506 – CP F-61 CGP FEED~~

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|-----------------|-----------------------------|--------|-----------------------|---|---------------------------------|------------------------------|---|
| SO ₂ | NSPS Subpart J 60.104(a)(1) | Y | | Fuel gas H ₂ S limited to 0.1 gr/dscf (163 ppm) for vent gases from Sulfonation Unit SO ₂ Adsorber and Lubricants Hydrotreater # 1 Vacuum Flash Dryer | 40 CFR 60.13(i) | P | Monitoring, records, and reporting for vent gases from Sulfonation Unit SO ₂ Adsorber and Lubricants Hydrotreater # 1 Vacuum Flash Dryer |

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – AQb
Applicable Limits and Compliance Monitoring Requirements

S1760 – OPCEN F-102 FXU STEAM SUPERHEATER

| 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 6-1-301 | Y N | | Ringelmann No. 1 for no more than 3 minutes/hour | None | N | None |
| Opacity | SIP 6-301 | Y | | Ringelmann No. 1 for no more than 3 minutes/hour | None | N | None |
| Opacity | BAAQMD 6-1-304 | Y N | | Ringelmann No. 2 for no more than 3 minutes/hour during tube cleaning | BAAQMD Condition # 18618 Part 6 and Part 7 | P/E (during tube cleaning) | Visible emission inspection & Records |
| Opacity | SIP 6-304 | Y | | Ringelmann No. 2 for no more than 3 minutes/hour during tube cleaning | BAAQMD Condition # 18618 Part 6 and Part 7 | P/E (during tube cleaning) | Visible emission inspection & Records |
| FP | BAAQMD 6-1-310.3 | Y N | | 0.15 grain per dscf at 6% O ₂ | None | N | None |
| FP | SIP 6-310.3 | Y | | 0.15 grain per dscf at 6% O ₂ | None | N | None |
| NOx | BAAQMD 9-10-301 | N | | Refinery-wide NOx emission rate shall not exceed 0.033 lb/MMBtu, operating-day average | BAAQMD 9-10-502, 9-10-504.12, 9-10-505, 1-522 and 1-523; Condition # 18265 Parts 1, 2, 8, 10, 11, 13-15, 20 1, 2, 8, 10, 11, 13, 15, 17, 20-21 | C | NOx and O ₂ CEM, monitoring, records, and reporting |
| NOx | BAAQMD 9-10-303 | Y N | | NOx emission rate shall not exceed 0.2 lb/MMBtu, operating-day average (facility-wide) | BAAQMD 9-10-502, 9-10-504.21, 9-10-505, 1-522 and 1-523; Condition # 18265 Parts 1, 2, 8, 10, 11, 13-15, 20 1, 2, 8, 10, 11, 13, 15, 17, 20-21 | C | NOx and O ₂ CEM, monitoring, records, and reporting |

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – AQB
Applicable Limits and Compliance Monitoring Requirements

S1760 – OPCEN F-102 FXU STEAM SUPERHEATER

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|----------------------------------|--|--------|-----------------------|---|--|------------------------------|---|
| NOx | SIP 9-10-303 | Y | | NOx emission rate shall not exceed 0.2 lb/MMBtu, operating-day average (facility-wide) | BAAQMD 9-10-502, 9-10-504.1, 9-10-505, 1-522 and 1-523; Condition # 18265 Parts 1, 2, 8, 10, 11, 13-15, 20 | C | NOx and O ₂ CEM, monitoring, records, and reporting |
| NOx | BAAQMD Condition # 22119 Part 2 | Y | | NOx < 0.033 lb/MMBTU (HHV) based on a rolling hourly 8760-hour average heat input. | BAAQMD Condition # 22119 Part 2 | C | Records containing data gathered by NOx CEMS and fuel flow meters |
| NOx | BAAQMD Condition # 22119 Part 3 | Y | | Annual NOx emissions (Inclusive of startups, shutdowns, upsets and malfunctions) < 20.09 TPY | BAAQMD Condition # 22119 Part 3 | P/M | Records |
| CO | BAAQMD 9-10-305 | N | | CO emissions shall not exceed 400 ppmv dry at 3% O ₂ , operating-day average | BAAQMD 9-10-502, 9-10-504.1,2, 9-10-505 and 1-523 | C | Monitoring, records, and reporting |
| SO ₂ | NSPS Subpart J 60.104(a)(1) | Y | | Fuel gas H ₂ S limited to 0.10 gr/dscf (463-162 ppm)-for refinery fuel gas and/or flexigas | NSPS Subpart J 60.105(a)(4) and 60.105(e)(3) | C | H ₂ S analyzer for refinery fuel gas and/or flexigas |
| NOx, SO ₂ , CO and PM | BAAQMD Condition #7618, Part A | Y | | Daily emission increases over baseline profile shall be offset by reductions below profile at a ratio of at least 2.0:1 | BAAQMD Condition #7618, Part B, F and G | P/D | Calculation, reporting and records |
| NOx, SO ₂ , CO and PM | BAAQMD Condition #7618, Part C.d | Y | | If profile has more than 5 non-complying days, the fuel usage at sources under the cap shall not exceed 14,730 NLFE (net liquid fuel equivalent) barrels per stream day | BAAQMD Condition #7618, Part G | P/E | Records |

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – AQb
Applicable Limits and Compliance Monitoring Requirements

S1760 – OPCEN F-102 FXU STEAM SUPERHEATER

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---------------|-------------------------|--------|-----------------------|--|---------------------------------|------------------------------|-----------------|
| Through-put | BAAQMD Condition #16688 | N | | Maximum firing rate (higher heating value) | BAAQMD Condition #18618, Part 2 | P/D and A | Records |

Table VII – AR
Applicable Limits and Compliance Monitoring Requirements
S1486 – DH F-40 CU FEED, S1487 – DH F-41B VFU FEED, S1488 – DH F-41A VFU FEED,
S1491 – DH F-44 NHT FEED, S1492 – DH F-45 PRIMARY COLUMN REBOIL,
S1493 – DH F-46 STABILIZER REBOIL, S1495 – DH F-49 CRU PREHEAT,
S1496 – DH F-50 CRU, S1497 – DH F-51 CRU,
S1498 – DH F-52 CRU REBOIL, S1508 – CP F-63 CFH FEED,
1510 – CP F-66 CCU PREHEAT, S1511 – CP F-67 CCU LGO REBOIL

| 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- <u>1</u> -301 | Y N | | Ringelmann No. 1 for no more than 3 minutes/hour | BAAQMD Condition # 18618 Part 3 and 7 | P/10 ⁶ gallon of fuel combusted | Visible Inspection |
| Opacity | SIP 6- <u>3</u> 01 | Y | | Ringelmann No. 1 for no more than 3 minutes/hour | BAAQMD Condition # 18618 Part 3 and 7 | P/10 ⁶ gallon of fuel combusted | Visible Inspection |
| Opacity | BAAQMD 6- <u>1</u> -304 | Y N | | Ringelmann No. 2 for no more than 3 minutes/hour during tube cleaning | BAAQMD Condition # 18618 Part 6 and 7 | P/E (during tube cleaning) | Visible Inspection |
| Opacity | SIP 6- <u>3</u> 04 | Y | | Ringelmann No. 2 for no more than 3 minutes/hour during tube cleaning | BAAQMD Condition # 18618 Part 6 and 7 | P/E (during tube cleaning) | Visible Inspection |
| FP | BAAQMD 6- <u>1</u> -310.3 | Y N | | 0.15 grain per dscf at 6% O ₂ | BAAQMD Condition # 18618 Part 3 and 7 | P/10 ⁶ gallon of fuel combusted | Visible Inspection |
| FP | SIP 6- <u>3</u> 10.3 | Y | | 0.15 grain per dscf at 6% O ₂ | BAAQMD Condition # 18618 Part 3 and 7 | P/10 ⁶ gallon of fuel combusted | Visible Inspection |

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – AR
Applicable Limits and Compliance Monitoring Requirements
S1486 – DH F-40 CU FEED, S1487 – DH F-41B VFU FEED, S1488 – DH F-41A VFU FEED,
S1491 – DH F-44 NHT FEED, S1492 – DH F-45 PRIMARY COLUMN REBOIL,
S1493 – DH F-46 STABILIZER REBOIL, S1495 – DH F-49 CRU PREHEAT,
S1496 – DH F-50 CRU, S1497 – DH F-51 CRU,
S1498 – DH F-52 CRU REBOIL, S1508 – CP F-63 CFH FEED,
1510 – CP F-66 CCU PREHEAT, S1511 – CP F-67 CCU LGO REBOIL

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|-----------------|--|--------|-----------------------|---|---------------------------------|--|--------------------------|
| SO ₂ | BAAQMD 9-1-304 | Y | | Sulfur content of liquid fuel limited to 0.5% by weight | BAAQMD Condition # 18618 Part 4 | P/10 ⁶ gallon of fuel combusted | Sampling and Analysis |
| NOx | Shell-EPA Consent Decree (S. D. Tex., H-01-0978) | Y | | S1510 NOx emission rate shall not exceed 0.05 lb NOx/MMBtu, rolling hourly 8,760-hour average, including start up, shut down, malfunctions, and upsets. | Condition # 23559, Part 2 | C | NOx CEM, fuel flow meter |
| NOx | Shell-EPA Consent Decree (S. D. Tex., H-01-0978) | Y | | S1510 Allowable NOx emissions shall not exceed 43.8 TPY including start up, shut down, malfunctions, and upsets. | Condition # 23559, Part 3 | C | NOx CEM, fuel flow meter |
| NOx | Shell-EPA Consent Decree (S. D. Tex., H-01-0978) | Y | | S1511 NOx emission rate shall not exceed 0.033 lb NOx/MMBtu, rolling hourly 8,760-hour average, including start up, shut down, malfunctions, and upsets. | Condition # 23560, Part 2 | C | NOx CEM, fuel flow meter |
| NOx | Shell-EPA Consent Decree (S. D. Tex., H-01-0978) | Y | | S1511 Allowable NOx emissions shall not exceed 8.6724 TPY including start up, shut down, malfunctions, and upsets. | Condition # 23560, Part 3 | C | NOx CEM, fuel flow meter |

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – AR
Applicable Limits and Compliance Monitoring Requirements
S1486 – DH F-40 CU FEED, S1487 – DH F-41B VFU FEED, S1488 – DH F-41A VFU FEED,
S1491 – DH F-44 NHT FEED, S1492 – DH F-45 PRIMARY COLUMN REBOIL,
S1493 – DH F-46 STABILIZER REBOIL, S1495 – DH F-49 CRU PREHEAT,
S1496 – DH F-50 CRU, S1497 – DH F-51 CRU,
S1498 – DH F-52 CRU REBOIL, S1508 – CP F-63 CFH FEED,
1510 – CP F-66 CCU PREHEAT, S1511 – CP F-67 CCU LGO REBOIL

| 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 NOx emission rate shall not exceed 0.033 lb/MMBtu, operating-day average | BAAQMD 9-10-502, 9-10-504.1, 9-10-505, 1-522 and 1-523; Condition # 18265 <u>Parts 1, 2, 8, 10, 11, 13-15, 20</u> Parts 1, 2, 8, 40, 41 13, 15, 47, 20-24 | C | NOx and O ₂ CEM, monitoring, records, and reporting |
| NOx | BAAQMD 9-10-303 | Y N | | NOx emission rate shall not exceed 0.2 lb/MMBtu, operating-day average (facility-wide) | BAAQMD 9-10-502, 9-10-504.1, 9-10-505, 1-522 and 1-523; Condition # 18265 <u>Parts 1, 2, 8, 10, 11, 13-15, 20</u> Parts 1, 2, 8, 40, 41 13, 15, 47, 20-24 | C | NOx and O ₂ CEM, monitoring, records, and reporting |
| <u>NOx</u> | <u>SIP 9-10-303</u> | <u>Y</u> | | <u>NOx emission rate shall not exceed 0.2 lb/MMBtu, operating-day average (facility-wide)</u> | <u>BAAQMD 9-10-502, 9-10-504.1, 9-10-505, 1-522 and 1-523; Condition # 18265</u> <u>Parts 1, 2, 8, 10, 11, 13-15, 20</u> | <u>C</u> | <u>NOx and O₂ CEM, monitoring, records, and reporting</u> |

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – AR
Applicable Limits and Compliance Monitoring Requirements
S1486 – DH F-40 CU FEED, S1487 – DH F-41B VFU FEED, S1488 – DH F-41A VFU FEED,
S1491 – DH F-44 NHT FEED, S1492 – DH F-45 PRIMARY COLUMN REBOIL,
S1493 – DH F-46 STABILIZER REBOIL, S1495 – DH F-49 CRU PREHEAT,
S1496 – DH F-50 CRU, S1497 – DH F-51 CRU,
S1498 – DH F-52 CRU REBOIL, S1508 – CP F-63 CFH FEED,
1510 – CP F-66 CCU PREHEAT, S1511 – CP F-67 CCU LGO REBOIL

| 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 # 24263 Part 2 | Y | | NOx < 0.033 lb/MMBTU (HHV) based on a rolling hourly 8760-hour average heat input. | BAAQMD Condition # 24263 Part 2 | C | Records containing data gathered by NOx CEMS and fuel flow meters |
| NOx | BAAQMD Condition # 24263 Part 3 | Y | | Combined annual NOx emissions from S-1490, S-1491, S-1492, S-1493, S-1494, S-1495, S-1496, S-1497, S-1498, and S-1499 (Inclusive of startups, shutdowns, upsets and malfunctions) ≤ 127.34 TPY | BAAQMD Condition # 24263 Part 3 | P/M | Records |
| CO | BAAQMD 9-10-305 | N | | CO emissions shall not exceed 400 ppmv dry at 3% O ₂ , operating-day average | BAAQMD 9-10-502, 9-10-504.1 2 , 9-10-505, 1-522 and 1-523 | C | Monitoring, records, and reporting |
| SO ₂ | NSPS Subpart J 60.104(a)(1) | Y | | Fuel gas H ₂ S limited to 0.10 gr/dscf (4 63 -162 ppm) | NSPS Subpart J 60.105(a)(4) and 60.105(e)(3) | C | H ₂ S analyzer |
| NOx, SO ₂ , CO and PM | BAAQMD Condition #7618, Part A | Y | | Daily emission increases over baseline profile shall be offset by reductions below profile at a ratio of at least 2.0:1 | BAAQMD Condition #7618, Part B, F and G | P/D | Calculation, reporting and records |
| NOx, SO ₂ , CO and PM | BAAQMD Condition #7618, Part C.d | Y | | If profile has more than 5 non-complying days, the fuel usage at sources under the cap shall not exceed 14,730 NLFE (net liquid fuel equivalent) barrels per stream day | BAAQMD Condition #7618, Part G | P/E | Records |

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – AR
Applicable Limits and Compliance Monitoring Requirements
S1486 – DH F-40 CU FEED, S1487 – DH F-41B VFU FEED, S1488 – DH F-41A VFU FEED,
S1491 – DH F-44 NHT FEED, S1492 – DH F-45 PRIMARY COLUMN REBOIL,
S1493 – DH F-46 STABILIZER REBOIL, S1495 – DH F-49 CRU PREHEAT,
S1496 – DH F-50 CRU, S1497 – DH F-51 CRU,
S1498 – DH F-52 CRU REBOIL, S1508 – CP F-63 CFH FEED,
1510 – CP F-66 CCU PREHEAT, S1511 – CP F-67 CCU LGO REBOIL

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|-----------------|---|--------|-----------------------|--|---------------------------------------|--|-----------------------|
| SO ₂ | BAAQMD Condition #7618, Part C.e | Y | | If profile has more than 5 non-complying days, the sulfur content of liquid fuel shall be limited to 1.0 ton/day (or 1.3 ton/day if flexicoker is down) | BAAQMD Condition #7618, Part G | P/E | Records |
| SO ₂ | BAAQMD Condition #7618, Part E1 | Y | | Sulfur content of liquid fuel limited to 0.5% by weight | BAAQMD Condition #18618 Part 4 | P/10 ⁶ gallon of fuel combusted | Sampling and Analysis |
| SO ₂ | <u>BAAQMD Condition #7618, Part E.2</u> | Y | | <u>Applies to S1486, S1487, S1488, S1495, S1496, S1497, and S1508</u> <u>Flexigas H₂S shall not exceed 35 ppmv except when the refinery is processing more than 50% SJV crudes, flexigas H₂S shall not exceed 80 ppmv (daily average) and 60 ppmv (annual average).</u> | <u>BAAQMD Condition #7618, Part G</u> | <u>P/E</u> | <u>Records</u> |
| Through-put | BAAQMD Condition #16688 | N | | Maximum firing rate (higher heating value) | BAAQMD Condition #18618, Part 2 | P/D and A | Records |

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – AS
Applicable Limits and Compliance Monitoring Requirements
~~S1486 – DH F-40 CU FEED, S1487 – DH F-41B VFU FEED, S1488 – DH F-41A VFU FEED,~~
~~S1495 – DH F-49 CRU PREHEAT, S1496 – DH F-50 CRU,~~
~~S1497 – DH F-51 CRU, S1508 – CPF-63 CFH FEED,~~

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|----------------------------------|--------------|-----------------------|---|---------------------------------|------------------------------|-----------------|
| See Table VII – ARQ for additional requirements. | | | | | | | |
| SO ₂ | BAAQMD Condition #7618, Part E.2 | Y | | Flexigas H ₂ S shall not exceed 35 ppmv except when the refinery is processing more than 50% SJV crudes. flexigas H ₂ S shall not exceed 80 ppmv (daily average) and 60 ppmv (annual average) | BAAQMD Condition #7618, Part G | P/E | Records |

Table VII – AT
Applicable Limits and Compliance Monitoring Requirements
 S1490 – DH F-43 GOHT FEED, S1499 – DH F-53 CRU REGEN,
 S1762 – DH F-128 CRU INTERHEATER

| 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 6-1-301 | Y <u>N</u> | | Ringelmann No. 1 for no more than 3 minutes/hour | None | N | None |
| <u>Opacity</u> | <u>SIP 6-301</u> | <u>Y</u> | | <u>Ringelmann No. 1 for no more than 3 minutes/hour</u> | <u>None</u> | <u>N</u> | <u>None</u> |
| Opacity | BAAQMD 6-1-304 | Y <u>N</u> | | Ringelmann No. 2 for no more than 3 minutes/hour during tube cleaning | BAAQMD Condition # 18618 Part 6 and 7 | P/E (during tube cleaning) | Visible emissions monitoring & Records |
| <u>Opacity</u> | <u>SIP 6-304</u> | <u>Y</u> | | <u>Ringelmann No. 2 for no more than 3 minutes/hour during tube cleaning</u> | <u>BAAQMD Condition # 18618 Part 6 and 7</u> | <u>P/E (during tube cleaning)</u> | <u>Visible emissions monitoring & Records</u> |
| FP | BAAQMD 6-1-310.3 | Y <u>N</u> | | 0.15 grain per dscf at 6% O ₂ | None | N | None |
| <u>FP</u> | <u>SIP 6-310.3</u> | <u>Y</u> | | <u>0.15 grain per dscf at 6% O₂</u> | <u>None</u> | <u>N</u> | <u>None</u> |

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – AT
Applicable Limits and Compliance Monitoring Requirements
S1490 – DH F-43 GOHT FEED, S1499 – DH F-53 CRU REGEN,
S1762 – DH F-128 CRU INTERHEATER

| 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 NOx emission rate shall not exceed 0.033 lb/MMBtu, operating-day average | BAAQMD 9-10-502, 9-10-504.21, 9-10-505, 1-522 and 1-523; Condition # 18265 <u>Parts 1, 2, 8, 10, 11, 13-15, 20</u> Parts 1, 2, 8, 40, 11, 13, 15, 17, 20-21 | C | NOx and O ₂ CEM, monitoring, records, and reporting |
| NOx | BAAQMD 9-10-303 | Y | | NOx emission rate shall not exceed 0.2 lb/MMBtu, operating-day average (facility-wide) | BAAQMD 9-10-502, 9-10-504.21, 9-10-505, 1-522 and 1-523; Condition # 18265 <u>Parts 1, 2, 8, 10, 11, 13-15, 20</u> Parts 1, 2, 8, 40, 11, 13, 15, 17, 20-21 | C | NOx and O ₂ CEM, monitoring, records, and reporting |
| <u>NOx</u> | <u>SIP 9-10-303</u> | <u>Y</u> | | <u>NOx emission rate shall not exceed 0.2 lb/MMBtu, operating-day average (facility-wide)</u> | <u>BAAQMD 9-10-502, 9-10-504.1, 9-10-505, 1-522 and 1-523; Condition # 18265</u> <u>Parts 1, 2, 8, 10, 11, 13-15, 20</u> | <u>C</u> | <u>NOx and O₂ CEM, monitoring, records, and reporting</u> |

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – AT
Applicable Limits and Compliance Monitoring Requirements
S1490 – DH F-43 GOHT FEED, S1499 – DH F-53 CRU REGEN,
S1762 – DH F-128 CRU INTERHEATER

| 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 # 24263 Part 2 | Y | | For S-1490 & S-1499: NOx < 0.033 lb/MMBTU (HHV) based on a rolling hourly 8760-hour average heat input. | BAAQMD Condition # 24263 Part 2 | C | Records containing data gathered by NOx CEMS and fuel flow meters |
| NOx | BAAQMD Condition # 24263 Part 3 | Y | | For S-1490 & S-1499: Combined annual NOx emissions from S-1490, S-1491, S-1492, S-1493, S-1494, S-1495, S-1496, S-1497, S-1498, and S-1499 (Inclusive of startups, shutdowns, upsets and malfunctions) ≤ 127.34 TPY | BAAQMD Condition # 24263 Part 3 | P/M | Records |
| CO | BAAQMD 9-10-305 | N | | CO emissions shall not exceed 400 ppmv dry at 3% O ₂ , operating-day average | BAAQMD 9-10-502, 9-10-504.21, 9-10-505, 1-522 and 1-523 | C | Monitoring, records, and reporting |
| SO ₂ | NSPS Subpart J 60.104(a)(1) | Y | | Fuel gas H ₂ S limited to 0.10 gr/dscf (463-162 ppm) | NSPS Subpart J 60.105(a)(4) and 60.105(e)(3) | C | H ₂ S analyzer |
| NOx, SO ₂ , CO and PM | BAAQMD Condition #7618, Part A | Y | | Daily emission increases over baseline profile shall be offset by reductions below profile at a ratio of at least 2.0:1 | BAAQMD Condition #7618, Part B, F and G | P/D | Calculation, reporting and records |
| NOx, SO ₂ , CO and PM | BAAQMD Condition #7618, Part C.d | Y | | If profile has more than 5 non-complying days, the fuel usage at sources under the cap shall not exceed 14,730 NLFE (net liquid fuel equivalent) barrels per stream day | BAAQMD Condition #7618, Part G | P/E | Records |

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VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – AT
Applicable Limits and Compliance Monitoring Requirements
S1490 – DH F-43 GOHT FEED, S1499 – DH F-53 CRU REGEN,
S1762 – DH F-128 CRU INTERHEATER

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|-------------------------------------|----------------------------------|--------|-----------------------|--|---------------------------------|------------------------------|-----------------|
| SO ₂ S1762 | BAAQMD Condition #7618, Part E.2 | Y | | <u>Applies to S1762</u> Flexigas H ₂ S shall not exceed 35 ppmv except when the refinery is processing more than 50% SJV crudes, flexigas H ₂ S shall not exceed 80 ppmv (daily average) and 60 ppmv (annual average) | BAAQMD Condition #7618, Part G | P/E | Records |
| Through-put | BAAQMD Condition #16688 | N | | Maximum firing rate (higher heating value) | BAAQMD Condition #18618, Part 2 | P/D and A | Records |

Table VII – AU
Applicable Limits and Compliance Monitoring Requirements
S1494 – DH F-47 SECONDARY COLUMN REBOIL, S1502 – DH F-57 HCU FIRST STAGE FEED,
S1503 – DH F-58 HCU SECOND STAGE FEED, S1505 – DH F-60 HP1 STEAM METHANE REFORMER,
S1515 – DH F-71 HCU FIRST STAGE REBOIL, S1761 – OPCEN F-104 HP2 STEAM METHANE REFORMER,
S4031 – DC F-14012 HGHT REBOIL, S4141 – DC F-14011 HGHT FEED

| 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 6-1-301 | Y N | | Ringelmann No. 1 for no more than 3 minutes/hour | None | N | None |
| Opacity | <u>SIP 6-301</u> | Y | | <u>Ringelmann No. 1 for no more than 3 minutes/hour</u> | None | N | None |
| Opacity | BAAQMD 6-1-304 | Y N | | Ringelmann No. 2 for no more than 3 minutes/hour during tube cleaning | BAAQMD Condition # 18618 Part 6 and 7 | P/E (during tube cleaning) | Visible emissions monitoring & Records |
| Opacity | <u>SIP 6-304</u> | Y | | <u>Ringelmann No. 2 for no more than 3 minutes/hour during tube cleaning</u> | <u>BAAQMD Condition # 18618 Part 6 and 7</u> | <u>P/E (during tube cleaning)</u> | <u>Visible emissions monitoring & Records</u> |
| FP | BAAQMD 6-1-310.3 | Y N | | 0.15 grain per dscf at 6% O ₂ | None | N | None |
| FP | <u>SIP 6-310.3</u> | Y | | <u>0.15 grain per dscf at 6% O₂</u> | None | N | None |

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – AU
Applicable Limits and Compliance Monitoring Requirements
S1494 – DH F-47 SECONDARY COLUMN REBOIL, S1502 – DH F-57 HCU FIRST STAGE FEED,
S1503 – DH F-58 HCU SECOND STAGE FEED, S1505 – DH F-60 HP1 STEAM METHANE REFORMER,
S1515 – DH F-71 HCU FIRST STAGE REBOIL, S1761 – OPCEN F-104 HP2 STEAM METHANE
REFORMER,
S4031 – DC F-14012 HGHT REBOIL, S4141 – DC F-14011 HGHT FEED

| 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 NOx emission rate shall not exceed 0.033 lb/MMBtu, operating-day average | BAAQMD 9-10-502, 9-10-504.1 2 , 9-10-505, 1-522 and 1-523; Condition # 18265 Parts <u>1, 2, 8, 10, 11, 13-15, 20</u> Parts 1, 2, 8, 10, 11, 13-15, 17, 20-21 | C | NOx and O ₂ CEM, monitoring, records, and reporting |
| NOx | BAAQMD 9-10-303 | Y N | | NOx emission rate shall not exceed 0.2 lb/MMBtu, operating-day average (facility-wide) | BAAQMD 9-10-502, 9-10-504.1 2 , 9-10-505, 1-522 and 1-523; Condition # 18265 Parts <u>1, 2, 8, 10, 11, 13-15, 20</u> Parts 1, 2, 8, 10, 11, 13-15, 17, 20-21 | C | NOx and O ₂ CEM, monitoring, records, and reporting |
| NOx | SIP 9-10-303 | Y | | NOx emission rate shall not exceed 0.2 lb/MMBtu, operating-day average (facility-wide) | BAAQMD 9-10-502, 9-10-504.1, 9-10-505, 1-522 and 1-523; Condition # 18265 Parts <u>1, 2, 8, 10, 11, 13-15, 20</u> | C | NOx and O ₂ CEM, monitoring, records, and reporting |

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – AU
Applicable Limits and Compliance Monitoring Requirements
S1494 – DH F-47 SECONDARY COLUMN REBOIL, S1502 – DH F-57 HCU FIRST STAGE FEED,
S1503 – DH F-58 HCU SECOND STAGE FEED, S1505 – DH F-60 HP1 STEAM METHANE REFORMER,
S1515 – DH F-71 HCU FIRST STAGE REBOIL, S1761 – OPCEN F-104 HP2 STEAM METHANE
REFORMER,
S4031 – DC F-14012 HGHT REBOIL, S4141 – DC F-14011 HGHT FEED

| 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 #12271, Part 35 | Y | | Applies to S4031 and S4141 NOx emissions shall not exceed 10 ppmv dry at 3% O ₂ , 3-hour average | BAAQMD Condition #12271 Part 38, L and M | C | NOx and O ₂ CEM, records and reporting |
| NOx | BAAQMD Condition # 24263 Part 2 | Y | | For S-1494: NOx < 0.033 lb/MMBTU (HHV) based on a rolling hourly 8760-hour average heat input. | BAAQMD Condition # 24263 Part 2 | C | Records containing data gathered by NOx CEMS and fuel flow meters |
| NOx | BAAQMD Condition # 24263 Part 3 | Y | | For S-1494: Combined annual NOx emissions from S-1490, S-1491, S-1492, S-1493, S-1494, S-1495, S-1496, S-1497, S-1498, and S-1499 (Inclusive of startups, shutdowns, upsets and malfunctions) < 127.34 TPY | BAAQMD Condition # 24263 Part 3 | P/M | Records |
| CO | BAAQMD 9-10-305 | N | | CO emissions shall not exceed 400 ppmv dry at 3% O ₂ , operating-day average | BAAQMD 9-10-502, 9-10-504, 1-522 and 1-523 | C | Monitoring, records, and reporting |
| CO | BAAQMD Condition #12271, Part 36 | Y | | Applies to S4031 and S4141 CO emissions shall not exceed 50 ppmv dry at 3% O ₂ , 8-hour average | BAAQMD Condition # 12271 Part 105 | P/A | Source Test |
| SO ₂ | NSPS Subpart J 60.104(a)(1) | Y | | Fuel gas H ₂ S limited to 0.10 gr/dscf (463-162 ppm) for refinery fuel gas (RFG) and/or flexigas (FXG) | NSPS Subpart J 60.105(a)(4) and 60.105(e)(3) | C | H ₂ S analyzer for refinery fuel gas (RFG) and/or flexigas (FXG) |

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VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – AU
Applicable Limits and Compliance Monitoring Requirements
S1494 – DH F-47 SECONDARY COLUMN REBOIL, S1502 – DH F-57 HCU FIRST STAGE FEED,
S1503 – DH F-58 HCU SECOND STAGE FEED, S1505 – DH F-60 HP1 STEAM METHANE REFORMER,
S1515 – DH F-71 HCU FIRST STAGE REBOIL, S1761 – OPCEN F-104 HP2 STEAM METHANE
REFORMER,
S4031 – DC F-14012 HGHT REBOIL, S4141 – DC F-14011 HGHT FEED

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|-----------------|---|--------|-----------------------|---|--|------------------------------|---|
| SO ₂ | NSPS Subpart J 60.104 (a)(1) | Y | | Applies to S4141 Fuel gas H ₂ S limited to 0.10 gr/dscf (1632 ppm) for CR-2 vent gas | 40 CFR 60.13(i) | P | Monitoring, records, and reporting for CR-2 vent gas |
| SO ₂ | NSPS Subpart J 60.104 (a)(1) | Y | | Applies to S4141 Fuel gas H ₂ S limited to 0.10 gr/dscf (162 ppm) for CR-2 vent gas | BAAQMD AMP Condition #: 24336 Parts 1 and 2 | P/D | Monitor and record the caustic strength of the regenerated caustic at CR-2 to ensure a minimum caustic strength of 2% by wt. NaOH |
| SO ₂ | BAAQMD Condition #7618, Part E.2 | Y | | Applies to S1494, S1505, S1515, S1761, S4031 AND S4141 Flexigas H ₂ S shall not exceed 35 ppmv except when the refinery is processing more than 50% SJV crudes, flexigas H ₂ S shall not exceed 80 ppmv (daily average) and 60 ppmv (annual average). | BAAQMD Condition #7618, Part G | P/E | Records |
| SO ₂ | BAAQMD Condition #12271, Part 15 and 18 | Y | | Applies to S4031 and S4141 Refinery fuel gas limited to 50 ppmv H ₂ S, 24-hour average; 0.1 grain/dscf (163162 ppm) H ₂ S, 3-hour average; and 70 ppm TRS expressed as H ₂ S, 12-month average | BAAQMD Condition #12271 Part 16, 16A, 17, L, and M | C | H ₂ S and TRS analyzer records and reporting |

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – AU
Applicable Limits and Compliance Monitoring Requirements
S1494 – DH F-47 SECONDARY COLUMN REBOIL, S1502 – DH F-57 HCU FIRST STAGE FEED,
S1503 – DH F-58 HCU SECOND STAGE FEED, S1505 – DH F-60 HP1 STEAM METHANE REFORMER,
S1515 – DH F-71 HCU FIRST STAGE REBOIL, S1761 – OPCEN F-104 HP2 STEAM METHANE
REFORMER,
S4031 – DC F-14012 HGHT REBOIL, S4141 – DC F-14011 HGHT FEED

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|--|----------------------------------|--------|-----------------------|--|--|------------------------------|------------------------------------|
| NO _x , SO ₂ , CO and PM | BAAQMD Condition #7618, Part A | Y | | Applies to S1494, S1502, S1503, S1505, S1515, and S1761 Daily emission increases over baseline profile shall be offset by reductions below profile at a ratio of at least 2.0:1 | BAAQMD Condition #7618, Part B, F and G | P/D | Calculation, reporting and records |
| NO _x , SO ₂ , CO and PM | BAAQMD Condition #7618, Part C.d | Y | | Applies to S1494, S1502, S1503, S1505, S1515, and S1761 If profile has more than 5 non-complying days, the fuel usage at sources under the cap shall not exceed 14,730 NLFE (net liquid fuel equivalent) barrels per stream day | BAAQMD Condition #7618, Part G | P/E | Records |
| NO _x , CO, SO ₂ , PM and VOC | BAAQMD Condition #12271, Part A | Y | | Applies to S4031 and S4141 Emissions from Clean Fuels Project sources shall not exceed 199.4 tpy NO _x , 252.4 tpy CO, 139.7 tpy SO ₂ , 59.1 tpy PM, 132.0 tpy VOC, 20.8 ton/mon NO _x , 26.3 ton/mon CO, 14.6 ton/mon SO ₂ , 6.2 ton/mon PM and 13.7 ton/mon VOC | BAAQMD Condition #12271, Part A, B, C, L and M | P/M and A | Calculation, records and reporting |
| NH ₃ | BAAQMD Condition #12271, Part 37 | N | | Applies to S4031 and S4141 NH ₃ emissions shall not exceed 20 ppmv dry at 3% O ₂ | BAAQMD Condition #12271, Part 111 | P/A | Source Test |
| Through-put | BAAQMD Condition #16688 | N | | Maximum firing rate (higher heating value) | BAAQMD Condition #18618, Part 2 | P/D and A | Records |

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VII. Applicable Limits and Compliance Monitoring Requirements

Table VII—AV

Applicable Limits and Compliance Monitoring Requirements

~~S1494—DH F 47 SECONDARY COLUMN REBOIL, S1502—DH F 57 HCU FIRST STAGE FEED,
 S1503—DH F 58 HCU SECOND STAGE FEED, S1505—DH F 60 HP1 STEAM METHANE REFORMER,
 S1515—DH F 71 HCU FIRST STAGE REBOIL, S1761—OPCEN F 104 HP2 STEAM METHANE
 REFORMER,~~

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|--|---|--------------|-----------------------|--|--|------------------------------|---|
| See Table VII—AU for additional requirements: | | | | | | | |
| NO_x, SO₂, CO and PM | BAAQMD Condition #7618, Part A | Y | | Daily emission increases over baseline profile shall be offset by reductions below profile at a ratio of at least 2.0:1 | BAAQMD Condition #7618, Part B, F and G | P/D | Calculation, reporting and records |
| NO_x, SO₂, CO and PM | BAAQMD Condition #7618, Part C,d | Y | | If profile has more than 5 non-complying days, the fuel usage at sources under the cap shall not exceed 14,730 NLFE (net liquid fuel equivalent) barrels per stream day | BAAQMD Condition #7618, Part G | P/E | Records |

Table VII—AW

Applicable Limits and Compliance Monitoring Requirements

~~S1494—DH F 47 SECONDARY COLUMN REBOIL,
 S1505—DH F 60 HP1 STEAM METHANE REFORMER,
 S1515—DH F 71 HCU FIRST STAGE REBOIL,
 S1761—OPCEN F 104 HP2 STEAM METHANE REFORMER~~

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---|--------------|-----------------------|--|---|------------------------------|--------------------|
| For S1494, See Table VII—AU & AV for additional requirements: For S1505, S1515 & S1761, See Table VII—AV for additional requirements: | | | | | | | |
| SO₂ | BAAQMD Condition #7618, Part E.2 | Y | | Flexigas H₂S shall not exceed 35 ppmv except when the refinery is processing more than 50% SJV crudes, flexigas H₂S shall not exceed 80 ppmv (daily average) and 60 ppmv (annual average) | BAAQMD Condition #7618, Part G | P/E | Records |

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – AX
Applicable Limits and Compliance Monitoring Requirements
S1500 – DH F-55 SGP HEAT MEDIUM, S1504 – DH F-59 HCU SECOND STAGE REBOIL,
S1763 – DH F-126 CU FEED, S4002 – DC F-13425-A DCU,
S4003 – DC F-13425-B DCU

| 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 6-1-301 | Y N | | Ringelmann No. 1 for no more than 3 minutes/hour | BAAQMD Condition # 18618 Part 3 and 7 | P/10 ⁶ gallon of fuel combusted | Visible Inspection |
| Opacity | SIP 6-301 | Y | | Ringelmann No. 1 for no more than 3 minutes/hour | BAAQMD Condition # 18618 Part 3 and 7 | P/10 ⁶ gallon of fuel combusted | Visible Inspection |
| Opacity | BAAQMD 6-1-304 | Y N | | Ringelmann No. 2 for no more than 3 minutes/hour during tube cleaning | BAAQMD Condition # 18618 Part 6 and 7 | P/E (during tube cleaning) | Visible emissions monitoring & Records |
| Opacity | SIP 6-304 | Y | | Ringelmann No. 2 for no more than 3 minutes/hour during tube cleaning | BAAQMD Condition # 18618 Part 6 and 7 | P/E (during tube cleaning) | Visible emissions monitoring & Records |
| FP | BAAQMD 6-1-310.3 | Y N | | 0.15 grain per dscf at 6% O ₂ | BAAQMD Condition # 18618 Part 3 and 7 | P/10 ⁶ gallon of fuel combusted | Visible Inspection |
| FP | SIP 6-310.3 | Y | | 0.15 grain per dscf at 6% O ₂ | BAAQMD Condition # 18618 Part 3 and 7 | P/10 ⁶ gallon of fuel combusted | Visible Inspection |
| SO ₂ | BAAQMD 9-1-304 | Y | | Sulfur content of liquid fuel limited to 0.5% by weight Requirement moved down 4 lines | BAAQMD Condition # 18618 Part 4 | P/10 ⁶ gallon of fuel combusted P/M | Sampling and Analysis |

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – AX
Applicable Limits and Compliance Monitoring Requirements
S1500 – DH F-55 SGP HEAT MEDIUM, S1504 – DH F-59 HCU SECOND STAGE REBOIL,
S1763 – DH F-126 CU FEED, S4002 – DC F-13425-A DCU,
S4003 – DC F-13425-B DCU

| 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 NOx emission rate shall not exceed 0.033 lb/MMBtu, operating-day average | BAAQMD 9-10-502, 9-10-504.2, 9-10-505, 1-522 and 1-523; Condition # 18265 <u>Parts 1, 2, 8, 10, 11, 13-15, 20</u> Parts 1, 2, 8, 10, 11, 13, 15, 17, 20-21 | C | NOx and O ₂ CEM, monitoring, records, and reporting |
| NOx | BAAQMD 9-10-303 | Y N | | NOx emission rate shall not exceed 0.2 lb/MMBtu, operating-day average (facility-wide) | BAAQMD 9-10-502, 9-10-504.2, 9-10-505, 1-522 and 1-523; Condition # 18265 <u>Parts 1, 2, 8, 10, 11, 13-15, 20</u> Parts 1, 2, 8, 10, 11, 13, 15, 17, 20-21 | C | NOx and O ₂ CEM, monitoring, records, and reporting |
| <u>NOx</u> | <u>SIP 9-10-303</u> | <u>Y</u> | | <u>NOx emission rate shall not exceed 0.2 lb/MMBtu, operating-day average (facility-wide)</u> | <u>BAAQMD 9-10-502, 9-10-504.1, 9-10-505, 1-522 and 1-523; Condition # 18265</u> <u>Parts 1, 2, 8, 10, 11, 13-15, 20</u> | <u>C</u> | <u>NOx and O₂ CEM, monitoring, records, and reporting</u> |

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – AX
Applicable Limits and Compliance Monitoring Requirements
S1500 – DH F-55 SGP HEAT MEDIUM, S1504 – DH F-59 HCU SECOND STAGE REBOIL,
S1763 – DH F-126 CU FEED, S4002 – DC F-13425-A DCU,
S4003 – DC F-13425-B DCU

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|-----------------|---|--------|-----------------------|---|---|--|---|
| NOx | <u>BAAQMD Condition #12271, Part 35</u> | Y | | <u>Applies to S4002 and S4003</u> <u>NOx emissions shall not exceed 10 ppmv dry at 3% O₂, 3-hour average</u> | <u>BAAQMD Condition #12271</u> <u>Part 38, L and M</u> | C | <u>NOx and O₂ CEM, records and reporting</u> |
| CO | BAAQMD 9-10-305 | N | N | CO emissions shall not exceed 400 ppmv dry at 3% O ₂ , operating-day average | BAAQMD 9-10-502, 9-10-504, 9-10-505, 1-522 and 1-523 | C | Monitoring, records, and reporting |
| CO | <u>BAAQMD Condition #12271, Part 36</u> | Y | | <u>Applies to S4002 and S4003</u> <u>CO emissions shall not exceed 50 ppmv dry at 3% O₂, 8-hour average</u> | <u>BAAQMD Condition #12271</u> <u>Part 105</u> | P/A | <u>Source Test</u> |
| SO ₂ | <u>BAAQMD 9-1-304</u> | Y | | <u>Sulfur content of liquid fuel limited to 0.5% by weight</u> | <u>BAAQMD Condition #18618 Part 4</u> | P/10 ⁶ gallon of fuel combusted <u>P/M</u> | <u>Sampling and Analysis</u> |
| SO ₂ | NSPS Subpart J 60.104(a)(1) | Y | | Fuel gas H ₂ S limited to 0.10 gr/dscf (463-162 ppm) for refinery fuel gas (RFG) and/or flexigas (FXG) | NSPS Subpart J 60.105(a)(4) and 60.105(e)(3) | C | H ₂ S analyzer for refinery fuel gas (RFG) and/or flexigas (FXG) |
| SO ₂ | <u>NSPS Subpart J 60.104 (a)(1)</u> | Y | | <u>Applies to S4002 and S4003</u> <u>Fuel gas H₂S limited to 0.10 gr/dscf (162 ppm) for CR-2 vent gas</u> | <u>40 CFR 60.13(i)</u> | P | <u>Monitoring, records, and reporting for CR-2 vent gas</u> |

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VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – AX
Applicable Limits and Compliance Monitoring Requirements
S1500 – DH F-55 SGP HEAT MEDIUM, S1504 – DH F-59 HCU SECOND STAGE REBOIL,
S1763 – DH F-126 CU FEED, S4002 – DC F-13425-A DCU,
S4003 – DC F-13425-B DCU

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|-----------------|----------------------------------|--------|-----------------------|---|---|--|---|
| SO ₂ | NSPS Subpart J 60.104 (a)(1) | Y | | Applies to S4002 and S4003 Fuel gas H ₂ S limited to 0.10 gr/dscf (162 ppm) for CR-2 vent gas | BAAQMD AMP Condition #: 24336 Parts 1 and 2 | P/D | Monitor and record the caustic strength of the regenerated caustic at CR-2 to ensure a minimum caustic strength of 2% by wt. NaOH |
| SO ₂ | BAAQMD Condition #7618, Part C.e | Y | | Applies to S1500, S1504, and S1763 If profile has more than 5 non-complying days, the sulfur content of liquid fuel shall be limited to 1.0 ton/day (or 1.3 ton/day if flexicoker is down) | BAAQMD Condition #7618, Part G | P/E | Records |
| SO ₂ | BAAQMD Condition #7618, Part E.1 | Y | | Applies to S1500, S1504, and S1763 Sulfur content of liquid fuel limited to 0.5% by weight | BAAQMD Condition # 18618 Part 4 | P/10 ⁶ gallon of fuel combusted | Sampling and Analysis |
| SO ₂ | BAAQMD Condition #7618, Part E.2 | Y | | Applies to S1504, S1763, S4002 and S4003 Flexigas H ₂ S shall not exceed 35 ppmv except when the refinery is processing more than 50% SJV crudes, flexigas H ₂ S shall not exceed 80 ppmv (daily average) and 60 ppmv (annual average) | BAAQMD Condition #7618, Part G | P/E | Records |

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – AX
Applicable Limits and Compliance Monitoring Requirements
S1500 – DH F-55 SGP HEAT MEDIUM, S1504 – DH F-59 HCU SECOND STAGE REBOIL,
S1763 – DH F-126 CU FEED, S4002 – DC F-13425-A DCU,
S4003 – DC F-13425-B DCU

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|--|--|--------|-----------------------|--|---|------------------------------|---|
| SO ₂ | BAAQMD Condition #12271, Part 15 and 18.a. | Y | | Applies to S4002 and S4003 Refinery fuel gas limited to 50 ppmv H ₂ S, 24-hour average; 0.1 grain/dscf (463162 ppm) H ₂ S, 3-hour average; and 100 ppm TRS expressed as H ₂ S, 12-month average | BAAQMD Condition #12271 Part 16, 16A, 17, L and M | C | H ₂ S and TRS analyzer records and reporting |
| NO _x , SO ₂ , CO and PM | BAAQMD Condition #7618, Part A | Y | | Applies to S1500, S1504, and S1763 Daily emission increases over baseline profile shall be offset by reductions below profile at a ratio of at least 2.0:1 | BAAQMD Condition #7618, Part B, F and G | P/D | Calculation, reporting and records |
| NO _x , SO ₂ , CO and PM | BAAQMD Condition #7618, Part C.d | Y | | Applies to S1500, S1504, and S1763 If profile has more than 5 non-complying days, the fuel usage at sources under the cap shall not exceed 14,730 NLFE (net liquid fuel equivalent) barrels per stream day | BAAQMD Condition #7618, Part G | P/E | Records |
| NO _x , CO, SO ₂ , PM and VOC | BAAQMD Condition #12271, Part A | Y | | Applies to S4002 and S4003 Emissions from Clean Fuels Project sources shall not exceed 199.4 tpy NO _x , 252.4 tpy CO, 139.7 tpy SO ₂ , 59.1 tpy PM, 132.0 tpy VOC, 20.8 ton/mon NO _x , 26.3 ton/mon CO, 14.6 ton/mon SO ₂ , 6.2 ton/mon PM and 13.7 ton/mon VOC | BAAQMD Condition #12271, Part A, B, C, L and M | P/M and A | Calculation, records and reporting |
| Through-put | BAAQMD Condition #16688 | N | | Maximum firing rate (higher heating value) | BAAQMD Condition #18618, Part 2 | P/D and A | Records |

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VII. Applicable Limits and Compliance Monitoring Requirements

Table VII—AY
Applicable Limits and Compliance Monitoring Requirements
~~S1500—DHF 55 SGP HEAT MEDIUM, S1504—DHF 59 HCU SECOND STAGE REBOIL,~~
S1763—DHF 126 CU FEED

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|----------------------------------|--------|-----------------------|---|---|--|------------------------------------|
| See Table VII—AX for additional requirements. | | | | | | | |
| NO _x , SO ₂ , CO and PM | BAAQMD Condition #7618, Part A | Y | | Daily emission increases over baseline profile shall be offset by reductions below profile at a ratio of at least 2.0:1 | BAAQMD Condition #7618, Part B, F and G | P/D | Calculation, reporting and records |
| NO _x , SO ₂ , CO and PM | BAAQMD Condition #7618, Part C.d | Y | | If profile has more than 5 non-complying days, the fuel usage at sources under the cap shall not exceed 14,730 NLFE (net liquid fuel equivalent) barrels per stream day | BAAQMD Condition #7618, Part G | P/E | Records |
| SO ₂ | BAAQMD Condition #7618, Part C.e | Y | | If profile has more than 5 non-complying days, the sulfur content of liquid fuel shall be limited to 1.0 ton/day (or 1.3 ton/day if flexicoker is down) | BAAQMD Condition #7618, Part G | P/E | Records |
| SO ₂ | BAAQMD Condition #7618, Part E.1 | Y | | Sulfur content of liquid fuel limited to 0.5% by weight | BAAQMD Condition # 18618 Part 4 | P/10 ⁶ gallon of fuel combusted | Sampling and Analysis |

Table VII—AZ
Applicable Limits and Compliance Monitoring Requirements
~~S1504—DHF 59 HCU SECOND STAGE REBOIL,~~
S1763—DHF 126 CU FEED

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|-------------------|--------|-----------------------|-------|---------------------------------|------------------------------|-----------------|
| See Table VII—AY for additional requirements. | | | | | | | |

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII—AZ
Applicable Limits and Compliance Monitoring Requirements
~~S1504—DHF 59 HCU SECOND STAGE REBOIL,~~
~~S1763—DHF 126 CU FEED~~

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|-----------------|----------------------------------|--------|-----------------------|---|---------------------------------|------------------------------|-----------------|
| SO ₂ | BAAQMD Condition #7618, Part E.2 | Y | | Flexigas H ₂ S shall not exceed 35 ppmv except when the refinery is processing more than 50% SJV crudes. flexigas H ₂ S shall not exceed 80 ppmv (daily average) and 60 ppmv (annual average) | BAAQMD Condition #7618, Part G | P/E | Records |

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – BA
Applicable Limits and Compliance Monitoring Requirements
S1507 – UTIL CO BOILER 1, S1509 – UTIL CO BOILER 2,
S1512 – UTIL CO BOILER 3

| 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 6-1-301 | Y N | | Ringelmann No. 1 for no more than 3 minutes/hour | NSPS Subpart J 60.105(a)(1), 60.105(e)(1), 60.106(a) and 60.106(b)(4) BAAQMD 6-1-501, 6-1-502 and 1-522 | C | Opacity monitor and Records |
| Opacity | SIP 6-301 | Y | | Ringelmann No. 1 for no more than 3 minutes/hour | NSPS Subpart J 60.105(a)(1), 60.105(e)(1), 60.106(a) and 60.106(b)(4) SIP 6-501, 6-502 and 1-522 | C | Opacity monitor and Records |
| Opacity | BAAQMD 6-1-304 | Y N | | Ringelmann No. 2 for no more than 3 minutes/hour during tube cleaning | NSPS Subpart J 60.105(a)(1), 60.105(e)(1), 60.106(a) and 60.106(b)(4) BAAQMD 6-1-501, 6-1-502 and 1-522 | C | Opacity monitor and Records |
| Opacity | SIP 6-304 | Y | | Ringelmann No. 2 for no more than 3 minutes/hour during tube cleaning | NSPS Subpart J 60.105(a)(1), 60.105(e)(1), 60.106(a) and 60.106(b)(4) SIP 6-501, 6-502 and 1-522 | C | Opacity monitor and Records |
| FP | BAAQMD 6-1-310.3 | Y | | 0.15 grain per dscf at 6% O ₂ | BAAQMD Condition # 22165 Part 46 | C | ESP Operating Parameter/ Opacity in excess of 30% implies an exceedance of Regulation 6-1-310.3 |

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – BA
Applicable Limits and Compliance Monitoring Requirements
S1507 – UTIL CO BOILER 1, S1509 – UTIL CO BOILER 2,
S1512 – UTIL CO BOILER 3

| 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- L 310.3 | Y N | | 0.15 grain per dscf at 6% O ₂ | BAAQMD Condition # 18618 Part 9 | P/A | Source Test |
| FP | SIP 6-310.3 | Y | | 0.15 grain per dscf at 6% O ₂ | BAAQMD Condition # 18618 Part 9 | P/A | Source Test |
| FP | BAAQMD 6-1-311 | N | | E = 4.10 P ^{0.67} lb/hr particulate, where P is process weight rate in ton/hr For example, if P = 28.66 TPH, then E = 13.33 lbs/hr/COB during three-COB operation; 20 lbs/hr/COB during two-COB operation; and 40 lbs/hr/COB during single-COB operation | BAAQMD Condition # 18618 Part 9 | P/A | Source Test |
| FP | SIP 6-311 | Y | | E = 4.10 P ^{0.67} lb/hr particulate, where P is process weight rate in ton/hr For example, if P = 28.66 TPH, then E = 13.33 lbs/hr/COB during three-COB operation; 20 lbs/hr/COB during two-COB operation; and 40 lbs/hr/COB during single-COB operation | BAAQMD Condition # 18618 Part 9 | P/A | Source Test |
| SO ₂ | BAAQMD 9-1-304 | Y | | Sulfur content of liquid fuel limited to 0.5% by weight | BAAQMD Condition # 18618 Part 4 | P/10 ⁶ gallon of fuel combusted | Sampling and Analysis |
| NOx | BAAQMD 9-10-303.1 | Y | | NOx emission rate shall not exceed 300 ppm dry, at 3% O ₂ , operating-day average (facility-wide) | BAAQMD 9-10-502, 9-10-504, 1-522 and 1-523 | C | NOx and O ₂ CEM, monitoring, records, and reporting |

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – BA
Applicable Limits and Compliance Monitoring Requirements
S1507 – UTIL CO BOILER 1, S1509 – UTIL CO BOILER 2,
S1512 – UTIL CO BOILER 3

| 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 9-10-304 | N | | NOx emissions shall not exceed 150 ppm dry at 3% O ₂ , operating-day average or must be controlled by at least 50% | BAAQMD 9-10-502, 9-10-504.21, 9-10-505, 1-522 and 1-523 | C | NOx and O ₂ CEM, monitoring, records, and reporting |
| CO | BAAQMD 9-10-305 | N | | CO emissions shall not exceed 400 ppmv dry at 3% O ₂ , operating-day average | BAAQMD 9-10-502, 9-10-504.21, 9-10-505, 1-522 and 1-523 | C | CO and O ₂ CEM, monitoring, records, and reporting |
| SO ₂ | NSPS Subpart J 60.104(a)(1) | Y | | Fuel gas H ₂ S limited to 0.10 gr/dscf (163 162 ppm) | NSPS Subpart J 60.105(a)(4) and 60.105(e)(3) | C | H ₂ S analyzer |
| NOx, SO ₂ , CO and PM | BAAQMD Condition #7618, Part A | Y | | Daily emission increases over baseline profile shall be offset by reductions below profile at a ratio of at least 2.0:1 | BAAQMD Condition #7618, Part B, F and G | P/D | Calculation, reporting and records |
| NOx, SO ₂ , CO and PM | BAAQMD Condition #7618, Part C.d | Y | | If profile has more than 5 non-complying days, the fuel usage at sources under the cap shall not exceed 14,730 NLFE (net liquid fuel equivalent) barrels per stream day | BAAQMD Condition #7618, Part G | P/E | Records |
| SO ₂ | BAAQMD Condition #7618, Part C.e | Y | | If profile has more than 5 non-complying days, the sulfur content of liquid fuel shall be limited to 1.0 ton/day (or 1.3 ton/day if flexicoker is down) | BAAQMD Condition #7618, Part G | P/E | Records |
| SO ₂ | BAAQMD Condition #7618, Part E.1 | Y | | Sulfur content of liquid fuel limited to 0.5% by weight | BAAQMD Condition # 18618 Part 4 | P/10 ⁶ gallon of fuel combusted | Sampling and Analysis |

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – BA
Applicable Limits and Compliance Monitoring Requirements
S1507 – UTIL CO BOILER 1, S1509 – UTIL CO BOILER 2,
S1512 – UTIL CO BOILER 3

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|--------------------|---|--------|-----------------------|---|--|------------------------------|---|
| SO ₂ | BAAQMD Condition #7618, Part E.2 | Y | | Flexigas H ₂ S shall not exceed 35 ppmv except when the refinery is processing more than 50% SJV crudes, flexigas H ₂ S shall not exceed 80 ppmv (daily average) and 60 ppmv (annual average) | BAAQMD Condition #7618, Part G | P/E | Records |
| SO ₂ | BAAQMD Condition #12271, Part 15 | Y | | Refinery fuel gas limited to 50 ppmv H ₂ S, 24-hour average; 0.1 grain/dscf (463-162 ppm) H ₂ S, 3-hour average; and 70 ppm TRS expressed as H ₂ S, 12-month average | BAAQMD Condition #12271 Part 16, 16A, 17, L and M | C | H ₂ S and TRS analyzer records and reporting |
| NO _x | BAAQMD Condition #12271, Part 85 | Y | | Combined NO _x emissions shall not exceed 6,770 lb/day, averaged over any consecutive 365-day period | BAAQMD Condition #12271, Part 86, 87, 88, L and M | C | NO _x and O ₂ CEM, records and reporting |
| SO ₂ | BAAQMD Condition #12271, Part 90 | Y | | Combined SO ₂ emissions shall not exceed 6,805 lb/day, averaged over any consecutive 365-day period | BAAQMD Condition #12271, Part 91, 92, 93, L & M | C | SO ₂ and O ₂ CEM, records and reporting |
| NH ₃ | BAAQMD Condition #17533, Part 2 | N | | NH ₃ emissions shall not exceed 50 ppmv at 3% O ₂ , 3-hour average | BAAQMD Condition #17533, Part 8 (Part 3 only if Part 2 is violated 3 times in any 12-month period) | P/A (C) | Source test (or NH ₃ CEM, if installed) |
| Dioxins and Furans | <u>NESHAP Subpart EEE, 63.1217(a)(1)(i)</u> | Y | 10/14/08 | <u>0.40 ng TEQ/dscm, corrected to 7 percent oxygen</u> | <u>NESHAP Subpart EEE 63.1209</u> | C | <u>PEM Operating parameter limits based on performance test¹</u> |

¹ Shell conducted the performance test to demonstrate compliance with MACT EEE on April 5 through 9, 2010.

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – BA
Applicable Limits and Compliance Monitoring Requirements
S1507 – UTIL CO BOILER 1, S1509 – UTIL CO BOILER 2,
S1512 – UTIL CO BOILER 3

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---------------|--------------------------------------|--------|-----------------------|--|---------------------------------|------------------------------|---|
| Hg | NESHAP Subpart EEE, 63.1217(a)(2)(i) | Y | 10/14/08 | 19 ug/dscm, corrected to 7% oxygen, on an (not-to exceed) annual averaging period | NESHAP Subpart EEE 63.1209 | C | Operating parameter limits PEM based on performance test |
| Cd and Pb | NESHAP Subpart EEE, 63.1217(a)(3)(i) | Y | 10/14/08 | emissions of Cd and Pb combined cannot be discharged in excess of 150 ug/dscm, corrected to 7% oxygen, on an (not-to exceed) annual averaging period | NESHAP Subpart EEE 63.1209 | C | Operating parameter limits PEM based on performance test |
| Cr | NESHAP Subpart EEE, 63.1217(a)(4)(i) | Y | 10/14/08 | emissions of Cr cannot be discharged in excess of 370 ug/dscm, corrected to 7% oxygen, on an (not-to exceed) annual averaging period | NESHAP Subpart EEE 63.1209 | C | Operating parameter limits PEM based on performance test |
| CO and HC | NESHAP Subpart EEE, 63.1217(a)(5)(i) | Y | 10/14/08 | CO cannot be discharged in excess of 100 ppmv, over an hourly rolling average (monitored continuously with a CEMs) dry basis and corrected to 7% oxygen. Document during DRE test runs or their equivalent as provided by 63.1206(b)(7). hydrocarbon do not exceed 10 ppmv during those runs, over an hourly rolling average (monitored continuously with a CEMs), dry basis and corrected to 7% oxygen, and reported as propane | NESHAP Subpart EEE 63.1209 | C for CO/ P for DRE | CO and O2 CEMS and PEMS for DRE standard |

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – BA
Applicable Limits and Compliance Monitoring Requirements
S1507 – UTIL CO BOILER 1, S1509 – UTIL CO BOILER 2,
S1512 – UTIL CO BOILER 3

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|-------------------------|--------------------------------------|--------|-----------------------|--|--|------------------------------|---|
| HCL and CL ₂ | NESHAP Subpart EEE, 63.1217(a)(6)(i) | Y | 10/14/08 | Emissions of hydrogen chloride and chlorine combined cannot be discharged in excess of 31 ppmv, expressed as chloride equivalent, dry basis and corrected to 7% oxygen | NESHAP Subpart EEE 63.1209 | C | Operating parameter limits PEM based on performance test |
| PM | NESHAP Subpart EEE, 63.1217(a)(7) | Y | 10/14/08 | PM cannot be discharged in excess of 80 mg/dscm corrected to 7% oxygen | NESHAP Subpart EEE 63.1209 | C | Operating parameter limits PEM based on performance test |
| POHCs | NESHAP Subpart EEE, 63.1217(a)(5)(i) | Y | 10/14/08 | Specify and treat POHCs and treat to 99.99% DRE | NESHAP Subpart EEE 63.1209 and 1211 | P | Source Test |
| Through-put | BAAQMD Condition #18618, Part 1 | N | | Maximum Firing Rate: 5,568 MMBTU/day/COB (LHV) 2,032,320 MMBTU/yr/COB (LHV) 6,125 MMBTU/day/COB (HHV) 2,235,625 MMBTU/yr/COB (HHV) Applies to S1509 and S1512 Annual throughput limits | BAAQMD Condition #18618, Part 2 | P/A | Records |

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – BB
Applicable Limits and Compliance Monitoring Requirements
S1514 – UTIL F-70 BOILER 4

| 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 6-1-301 | Y N | | Ringelmann No. 1 for no more than 3 minutes/hour | None | N | None |
| Opacity | <u>SIP</u> 6-301 | Y | | <u>Ringelmann No. 1 for no more than 3 minutes/hour</u> | None | N | None |
| Opacity | BAAQMD 6-1-304 | Y N | | Ringelmann No. 2 for no more than 3 minutes/hour during tube cleaning | BAAQMD Condition # 18618 Part 6 and Part 7 | P/E (during tube cleaning) | Visible emissions Inspection & Records |
| Opacity | <u>SIP</u> 6-304 | Y | | <u>Ringelmann No. 2 for no more than 3 minutes/hour during tube cleaning</u> | <u>BAAQMD Condition # 18618 Part 6 and Part 7</u> | <u>P/E (during tube cleaning)</u> | <u>Visible emissions Inspection & Records</u> |
| FP | BAAQMD 6-1-310.3 | Y N | | 0.15 grain per dscf at 6% O ₂ | BAAQMD Condition # 18618 Part 3 and 7 | P/10 ⁶ gallon of fuel combusted | Visible emissions Inspection & Records |
| FP | <u>SIP</u> 6-310.3 | Y | | <u>0.15 grain per dscf at 6% O₂</u> | <u>BAAQMD Condition # 18618 Part 3 and 7</u> | <u>P/10⁶ gallon of fuel combusted</u> | <u>Visible emissions Inspection & Records</u> |
| SO ₂ | BAAQMD 9-1-304 | Y | | Sulfur content of liquid fuel limited to 0.5% by weight | BAAQMD Condition # 18618 Part 4 | P/10 ⁶ gallon of fuel combusted | Sampling and Analysis |
| NO _x | BAAQMD 9-10-301 | N | | Refinery wide NO _x emission rate shall not exceed 0.033 lb/MMBtu, operating day average | BAAQMD 9-10-502, 9-10-504.2, 9-10-505, 1-522 and 1-523; Condition # 18265 Parts 11 through 21 | C | NO _x and O ₂ CEM, monitoring, records, and reporting |

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – BB
Applicable Limits and Compliance Monitoring Requirements
S1514 – UTIL F-70 BOILER 4

| 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 | 12/01/04 | Refinery-wide NOx emission rate shall not exceed 0.033 lb/MMBtu, operating-day average | BAAQMD 9-10-502, 9-10-504.1, 9-10-505, 1-522 and 1-523; Condition # 18265 <u>Parts 1, 2, 8, 10, 11, 13-15, 20</u> Parts 1, 2, 8, 10, 11, 13, 15, 17, 20-21 | C | NOx and O ₂ CEM, monitoring, records, and reporting |
| NOx | BAAQMD 9-10-303 | Y | | NOx emission rate shall not exceed 0.2 lb/MMBtu, operating-day average (facility-wide) | BAAQMD 9-10-502, 9-10-504.1, 9-10-505, 1-522 and 1-523; Condition # 18265 <u>Parts 1, 2, 8, 10, 11, 13-15, 20</u> Parts 1, 2, 8, 10, 11, 13, 15, 17, 20-21 | C | CO and O ₂ CEM, monitoring, records, and reporting |
| <u>NOx</u> | <u>SIP 9-10-303</u> | <u>Y</u> | | <u>NOx emission rate shall not exceed 0.2 lb/MMBtu, operating-day average (facility-wide)</u> | <u>BAAQMD 9-10-502, 9-10-504.1, 9-10-505, 1-522 and 1-523; Condition # 18265</u> <u>Parts 1, 2, 8, 10, 11, 13-15, 20</u> | <u>C</u> | <u>CO and O₂ CEM, monitoring, records, and reporting</u> |
| CO | BAAQMD 9-10-305 | N | | CO emissions shall not exceed 400 ppmv dry at 3% O ₂ , operating-day average | BAAQMD 9-10-502, 9-10-504.1, 9-10-505, 1-522 and 1-523 | C | Monitoring, records, and reporting |

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – BB
Applicable Limits and Compliance Monitoring Requirements
S1514 – UTIL F-70 BOILER 4

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|----------------------------------|--------|-----------------------|---|--|--|---|
| SO ₂ | NSPS Subpart J 60.104(a)(1) | Y | | Fuel gas H ₂ S limited to 0.10 gr/dscf (463 162 ppm) | NSPS Subpart J 60.105(a)(4) and 60.105(e)(3) | C | H ₂ S analyzer |
| NO _x , SO ₂ , CO and PM | Condition #7618, Part A | Y | | Daily emission increases over baseline profile shall be offset by reductions below profile at a ratio of at least 2.0:1 | BAAQMD Condition 7618, Part B, F and G | P/D | Calculation, reporting and records |
| NO _x , SO ₂ , CO and PM | BAAQMD Condition #7618, Part C.d | Y | | If profile has more than 5 non-complying days, the fuel usage at sources under the cap shall not exceed 14,730 NLFE (net liquid fuel equivalent) barrels per stream day | BAAQMD Condition #7618, Part G | P/E | Records |
| NO _x | BAAQMD Condition # 17532 Part 3 | Y | | NO _x ≤ 0.050 0.045 lb/MMBTU (HHV) based on a rolling hourly 8760-hour average heat input. | BAAQMD Condition # 17532 Part 3 | P/D | Records containing data gathered by NO _x CEMS and fuel flow meters |
| NO _x | BAAQMD Condition # 17532 Part 4 | Y | | Annual NO _x emissions (Inclusive of startups, shutdowns, upsets and malfunctions) ≤ 80.61 TPY | BAAQMD Condition # 17532 Part 4 | P/M | Records |
| SO ₂ | Condition #7618, Part C.e | Y | | If profile has more than 5 non-complying days, the sulfur content of liquid fuel shall be limited to 1.0 ton/day (or 1.3 ton/day if flexicoker is down) | BAAQMD Condition 7618, Part G | P/E | Records |
| SO ₂ | BAAQMD Condition #7618, Part E.1 | Y | | Sulfur content of liquid fuel limited to 0.5% by weight | BAAQMD Condition # 18618 Part 4 | P/10 ⁶ gallon of fuel combusted | Sampling and Analysis |

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – BB
Applicable Limits and Compliance Monitoring Requirements
S1514 – UTIL F-70 BOILER 4

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|-----------------|----------------------------------|--------|-----------------------|---|---------------------------------|------------------------------|-----------------|
| SO ₂ | BAAQMD Condition #7618, Part E.2 | Y | | Flexigas H ₂ S shall not exceed 35 ppmv except when the refinery is processing more than 50% SJV crudes, flexigas H ₂ S shall not exceed 80 ppmv (daily average) and 60 ppmv (annual average) | BAAQMD Condition #7618, Part G | P/E | Records |
| Through-put | BAAQMD Condition #16688 | N | | Maximum firing rate (higher heating value) | BAAQMD Condition #18618, Part 2 | P/D and A | Records |

Table VII – BD
Applicable Limits and Compliance Monitoring Requirements
S1598 – MAINT 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 |
|---------------|---------------------------------|--------|-----------------------|---|--|------------------------------|---|
| HAP | BAAQMD Condition #7878, Part 1 | N | | Annual gasoline throughput shall not exceed 600,000 gallons in any 12-month period | BAAQMD Condition #7878, Part 1 #24298, Part 2 | P/M | Records |
| HAP | BAAQMD Condition #14098, Part 1 | N | | Annual gasoline throughput shall not exceed 940,000 gallons in any 12-month period | BAAQMD Condition #14098, Part 2 and Condition #18618, Part 2 | P/M | Records |
| POC | 8-7-301.6 | Y | | All Phase I vapor recovery equipment, except for components with an allowable leak rate, shall be maintained to be leak-free, vapor tight | 8-7-301.13 8-7-602 | P/A | Static Pressure Performance Test, ST-30 |

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – BD
Applicable Limits and Compliance Monitoring Requirements
S1598 – MAINT 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 |
|---------------|--|--------|-----------------------|---|--|------------------------------|--|
| POC | 8-7-302.5 | Y | | All Phase II vapor recovery equipment, except for components with an allowable leak rate, shall be maintained to be leak-free, vapor tight | 8-7-301.13 8-7-602 | P/A | Static Pressure Performance Test, ST-30 |
| POC | <u>BAAQMD Condition #21593 Part 2</u> | Y | | <u>Drop tube/drain valve leak rate not to exceed 0.17 CFH @ 2" H₂O; minimum 360° rotation with maximum 108 pound-inch torque</u> | <u>BAAQMD 8-7-503.2 and BAAQMD Condition #20666 Part 2</u> | P/3A | <u>Drop tube/drain valve leak test (CARB TP 201.1C or 201.1D) and torque test (CARB TP 201.1B)</u> |
| POC | <u>BAAQMD Condition #24298, Part 4</u> 8-7-302.14 | Y | | Back Pressure for Vapor Balance, per applicable Executive Order VR-203 or shall not exceed 0.35" WC @ 60 CFH and 0.62" WC @ 80 CFH measured using CARB TP201.4 (7/3/02) less than or equal to 0.15, 0.45, and 0.95 inches of water when measured at nitrogen flow rates of 20, 60, and 100 CFH respectively | 8-7-302.14 8-7-601 | P/A | Dynamic Back-pressure Test (ST-27) |
| POC | <u>BAAQMD Condition #24298, Part 4</u> | Y | | <u>Liquid Removal Test per CARB E.O. VR-203, Exhibit 5, Option 1</u> | <u>CARB E.O. VR-203</u> | P/A | <u>Liquid Removal Test</u> |
| POC | <u>BAAQMD Condition #24298, Part 4</u> | Y | | <u>Vapor Pressure Sensor Verification Test per E.O. VR-203, Exhibit 8,</u> | <u>CARB E.O. VR-203</u> | P/A | <u>Vapor Pressure Sensor Verification</u> |
| POC | <u>BAAQMD Condition #24298, Part 4</u> | Y | | <u>Veeder-Root Vapor Polisher Operability Test, E.O. VR-203, Exhibit 11</u> | <u>CARB E.O. VR-203</u> | P/A | <u>Vapor Pressure Operability Test</u> |
| POC | <u>BAAQMD Condition #24298, Part 4</u> | Y | | <u>Veeder-Root Vapor Polisher Emissions Test - E.O. VR-203, Exhibit 12</u> | <u>CARB E.O. VR-203</u> | P/A | <u>Vapor Polisher Emissions Test</u> |

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – BD
Applicable Limits and Compliance Monitoring Requirements
S1598 – MAINT 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 |
|---------------|---------------------------------|--------|-----------------------|--|--|------------------------------|---|
| POC | BAAQMD Condition # 21593 Part 2 | Y | | Drop tube/drain valve leak rate not to exceed 0.17 CFH @ 2" H ₂ O; minimum 360° rotation with maximum 108 pound-inch torque | BAAQMD 8-7-503.2 and BAAQMD Condition # 20666 Part 2 | P/3A | Drop tube/drain valve leak test (CARB TP 201.1C or 201.1D) and torque test (CARB TP 201.1B) |

Table VII – BE
Applicable Limits and Compliance Monitoring Requirements
S1650 – MAINT SANDBLASTING SAND HOPPER

| 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 6-1-301 | Y N | | Ringelmann No. 1 for no more than 3 minutes/hour | BAAQMD Condition #18618, Part 5 and 7 | PA | Visible emissions inspection and Records |
| Opacity | SIP 6-301 | Y | | Ringelmann No. 1 for no more than 3 minutes/hour | BAAQMD Condition #18618, Part 5 and 7 | PA | Visible emissions inspection and Records |
| FP | BAAQMD 6-1-311 | Y N | | 4.10 P ^{0.67} lb/hr particulate, where P is process weight rate in ton/hr | BAAQMD Condition #18618, Part 5 and 7 | P/A | Visible emissions inspection and Records |
| FP | SIP 6-311 | Y | | 4.10 P ^{0.67} lb/hr particulate, where P is process weight rate in ton/hr | BAAQMD Condition #18618, Part 5 and 7 | P/A | Visible emissions inspection and Records |

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – BF
Applicable Limits and Compliance Monitoring Requirements
S1759 – OPCEN FLEXICOKE (FXU)

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|-------------------------------------|--------|-----------------------|---|--|------------------------------|-----------------|
| See Table VII – AE & AF for additional requirements. | | | | | | | |
| NO _x , SO ₂ , CO and PM | BAAQMD Condition #7618, Part C.b | Y | | If profile has more than 5 non-complying days, the refinery shall not process more than 22,000 barrels of Flexicoker feed per stream day | BAAQMD Condition #7618, Part G | P/E | Records |
| SO ₂ | BAAQMD Condition #7618, Part C.e | Y | | If profile has more than 5 non-complying days, the sulfur content of liquid fuel shall be limited to 1.0 ton/day (or 1.3 ton/day if flexicoker is down) | BAAQMD Condition #7618, Part G | P/E | Records |
| Duration of startups and shutdowns | BAAQMD Condition #7618, Part E.2.a. | Y | | Duration of startup ≤ 48 hours/event; Duration of shutdown ≤ 96 hours/event | BAAQMD Condition #7618, Parts E.2.d. and G | P/E | Records |

Table VII – BG
Applicable Limits and Compliance Monitoring Requirements
S1767 – OPCENV 1019 COKE SILO, S1768 – OPCEN V1020 COKE SILO,
S1769 – OPCEN V 1021 DRY FINES SILO

| 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 6-1-301 | Y N | | Ringelmann No. 1 for no more than 3 minutes/hour | BAAQMD Condition # 18618 Part 5 and 7 | P/A | Visible emissions inspection & Records |
| Opacity | SIP 6-301 | Y | | Ringelmann No. 1 for no more than 3 minutes/hour | BAAQMD Condition # 18618 Part 5 and 7 | P/A | Visible emissions inspection & Records |
| FP | BAAQMD 6-1-310 | Y N | | 0.15 grain per dscf | BAAQMD Condition # 18618 Part 5 and 7 | P/A | Visible emissions inspection & Records |

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – BG
Applicable Limits and Compliance Monitoring Requirements
S1767 – OPCENV 1019 COKE SILO, S1768 – OPCEN V1020 COKE SILO,
S1769 – OPCEN V 1021 DRY FINES SILO

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---------------|---------------------------------------|----------------|-----------------------|---|--|------------------------------|---|
| FP | <u>SIP 6-310</u> | Y | | 0.15 grain per dscf | <u>BAAQMD Condition # 18618 Part 5 and 7</u> | P/A | <u>Visible emissions inspection & Records</u> |
| FP | BAAQMD 6-1-311 | Y N | | 4.10 P ^{0.67} lb/hr particulate, where P is process weight rate in ton/hr | BAAQMD Condition # 18618 Part 5 and 7 | P/A | Visible emissions inspection & Records |
| FP | <u>SIP 6-311</u> | Y | | <u>4.10 P^{0.67} lb/hr particulate, where P is process weight rate in ton/hr</u> | <u>BAAQMD Condition # 18618 Part 5 and 7</u> | P/A | <u>Visible emissions inspection & Records</u> |
| PM | BAAQMD Condition #7618 Part D.3 | Y | | 99% control efficiency of baghouse | BAAQMD Condition # 18618 Part 5 and 7 | P/A | Visible emissions inspection & Records |
| FP | <u>BAAQMD Condition #20755 Part 1</u> | Y N | | <u>Applies to S1769 Do not route coke fines from S1769 to the portable filter truck to (A771) more than 96 hours during any consecutive 12-month basis</u> | <u>BAAQMD Condition #20755 Part 2</u> | N | <u>Records</u> |

Table VII – BI
Applicable Limits and Compliance Monitoring Requirements
S1771 – OPCEN FLEXIGAS FLARE

| 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 6-1-301 | Y N | | Ringelmann No. 1 for no more than 3 minutes/hour | BAAQMD Condition # 18618 Part 16, 17, and 18 | P/E | Visible Emissions Check |
| <u>Opacity</u> | <u>SIP 6-301</u> | Y | | <u>Ringelmann No. 1 for no more than 3 minutes/hour</u> | <u>BAAQMD Condition # 18618 Part 16, 17, and 18</u> | P/E | <u>Visible Emissions Check</u> |

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – BI
Applicable Limits and Compliance Monitoring Requirements
S1771 – OPCEN FLEXIGAS FLARE

| 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 6-1-310 | Y N | | 0.15 grain per dscf at 6% O ₂ | BAAQMD Condition # 18618 Part 16, 17, and 18 | P/E | Visible Emissions Check |
| FP | SIP 6-310 | Y | | 0.15 grain per dscf at 6% O ₂ | BAAQMD Condition # 18618 Part 16, 17, and 18 | P/E | Visible Emissions Check |
| VOC, HAP | | N | 12/4/03 | | BAAQMD Regulation 12-11-501 & 12-11-505 | P/E | Flow Rate |
| | | N | 9/4/03 | | BAAQMD Regulation 12-11-502.1 & 12-11-505 | P/E | Composition |
| | | N | 3/4/04 | | BAAQMD Regulation 12-11-502.3 & 12-11-505 | P/E | Composition |
| | | N | | | BAAQMD Regulation 12-11-503 & 12-11-505 | P/C | Flame Detector |
| | | N | | | BAAQMD Regulation 12-11-504 & 12-11-505 | P/C | Purge Gas Flow Rate |
| | | N | 12/4/03 | | BAAQMD Regulation 12-11-507 | P/ | 1 frame per minute image video recording |
| Flare Design | 40 CFR 60.18(e)(3) | Y | | Heat content specification as per (e)(3)(ii) and maximum tip velocity specification per (4), or 60.18(e)(3)(i) flare specifications | 60.18(f)(3) 60.18(f)(4) 60.18(f)(5) | P/E | Records of heat content and maximum tip velocity |
| Presence of a Flame | 40 CFR 60.18(e)(2) | Y | | The flare shall be operated with a flame present at all times | 60.18(f)(2) | P/C | Flame Detector |

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – BI
Applicable Limits and Compliance Monitoring Requirements
S1771 – OPCEN FLEXIGAS FLARE

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|--|--------------------------------------|--------|-----------------------|--|--|------------------------------|------------------------------------|
| NOx, SO ₂ , CO and PM | BAAQMD Condition #7618, Part A | Y | | Daily emission increases over baseline profile shall be offset by reductions below profile at a ratio of at least 2.0:1 | BAAQMD Condition #7618, Part B, F and G | P/D | Calculation, reporting and records |
| NOx, SO ₂ , CO and PM | BAAQMD Condition #7618, Part C.d | Y | | If profile has more than 5 non-complying days, the fuel usage at sources under the cap shall not exceed 14,730 NLFE (net liquid fuel equivalent) barrels per stream day | BAAQMD Condition #7618, Part G | P/E | Records |
| SO ₂ | NSPS Subpart J 60.104(a)(1) | Y | | Fuel gas H ₂ S limited to 0.10 gr/dscf (463-162 ppm) except for gas burned as a result of process upset or gas burned at flares from relief valve leaks or other emergency malfunctions | NSPS Subpart J 60.105(a)(4) and 60.105(e)(3) | C | H ₂ S analyzer |
| Vent Gas Limit | BAAQMD Condition # 18618, Part 12 | Y | 12/01/04 | 750,000 lb/hr | BAAQMD Condition # 18618, Part 13 | P/E | Recordkeeping |
| Duration and SO ₂ mass emissions when flaring untreated flexigas during startups | BAAQMD Condition # 7618, Part E.2.b. | Y | | Duration of startup of less than or equal to 48 hours/event; SO ₂ emissions < 5 tons/event | BAAQMD Condition #7618, Parts E.2.d. and G | P/E | Records |
| Duration and SO ₂ mass emissions when flaring untreated flexigas during shutdowns | BAAQMD Condition # 7618, Part E.2.c. | Y | | Duration of shutdown of less than or equal to 96 hours/event; SO ₂ emissions < 8 tons/event | BAAQMD Condition #7618, Parts E.2.d. and G | P/E | Records |

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – BJ
Applicable Limits and Compliance Monitoring Requirements
S1772 – OPCEN HYDROCARBON FLARE

| 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 6-1-301 | Y N | | Ringelmann No. 1 for no more than 3 minutes/hour | BAAQMD Condition # 18618 Part 14, 15, 16, and 17 | P/E | Visible Emissions Check |
| <u>Opacity</u> | <u>SIP 6-301</u> | <u>Y</u> | | <u>Ringelmann No. 1 for no more than 3 minutes/hour</u> | <u>BAAQMD Condition # 18618 Part 14, 15, 16, and 17</u> | <u>P/E</u> | <u>Visible Emissions Check</u> |
| FP | BAAQMD 6-1-310 | Y N | | 0.15 grain per dscf at 6% O ₂ | BAAQMD Condition # 18618 Part 14, 15, 16, and 17 | P/E | Visible Emissions Check |
| <u>FP</u> | <u>SIP 6-310</u> | <u>Y</u> | | <u>0.15 grain per dscf at 6% O₂</u> | <u>BAAQMD Condition # 18618 Part 14, 15, 16, and 17</u> | <u>P/E</u> | <u>Visible Emissions Check</u> |
| VOC, HAP | | N | 12/4/03 | | BAAQMD Regulation 12-11-501 & 12-11-505 | P/E | Flow Rate |
| | | N | 9/4/03 | | BAAQMD Regulation 12-11-502.1 & 12-11-505 | P/E | Composition |
| | | N | 3/4/04 | | BAAQMD Regulation 12-11-502.3 & 12-11-505 | P/E | Composition |
| | | N | | | BAAQMD Regulation 12-11-503 & 12-11-505 | P/C | Flame Detector |
| | | N | | | BAAQMD Regulation 12-11-504 & 12-11-505 | P/C | Purge Gas Flow Rate |

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – BJ
Applicable Limits and Compliance Monitoring Requirements
S1772 – OPCEN HYDROCARBON FLARE

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---------------------|-----------------------------------|--------|-----------------------|--|--|------------------------------|--|
| | | N | 12/4/03 | | BAAQMD Regulation 12-11-507 | P/ | 1 frame per minute image video recording |
| Vent Gas Limit | BAAQMD Condition # 18618, Part 12 | Y | 12/01/04 | 510,000 lb/hr | BAAQMD Condition # 18618, Part 13 | P/E | Recordkeeping |
| Presence of a Flame | 40 CFR 60.18(c)(2) | Y | | The flare shall be operated with a flame present at all times | 60.18(f)(2) | P/C | Flame Detector |
| Flare Design | 40 CFR 60.18(c)(3) | Y | | Heat content specification as per (c)(3)(ii) and maximum tip velocity specification per (c)(4), or 60.18(c)(3)(i) flare specifications | 60.18(f)(3) 60.18(f)(4) 60.18(f)(5) | P/E | Records of heat content and maximum tip velocity |
| SO ₂ | NSPS Subpart J 60.104(a)(1) | Y | | Fuel gas H ₂ S limited to 0.10 gr/dscf (162 ppm) except for gas burned as a result of process upset or gas burned at flares from relief valve leaks or other emergency malfunctions | NSPS Subpart J 60.105(a)(4) and 60.105(e)(3) | C | H ₂ S analyzer |

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VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – BK
Applicable Limits and Compliance Monitoring Requirements
S1779 – OPCEN CPIOIL/WATER SEPARATOR,

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|--------------------------------|--------|-----------------------|--|---------------------------------|------------------------------|-----------------|
| See Table VII – AKI for additional requirements. | | | | | | | |
| Throughput | BAAQMD Condition #5077, Part 7 | Y | | Throughput shall not exceed 3000 gpm or the maximum allowable capacity of the unit | BAAQMD Condition # 18618 Part 2 | P/D and A | Records |

Table VII – BL
Applicable Limits and Compliance Monitoring Requirements
S1800 – UTIL F-88 BOILER 5

| 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 6-1-301 | Y N | | Ringelmann No. 1 for no more than 3 minutes/hour | None | N | None |
| <u>Opacity</u> | <u>SIP 6-301</u> | <u>Y</u> | | <u>Ringelmann No. 1 for no more than 3 minutes/hour</u> | <u>None</u> | <u>N</u> | <u>None</u> |
| Opacity | BAAQMD 6-1-304 | Y N | | Ringelmann No. 2 for no more than 3 minutes/hour during tube cleaning | BAAQMD Condition # 18618 Part 6 and Part 7 | P/E (during tube cleaning) | Visible emissions Inspection & Records |
| <u>Opacity</u> | <u>SIP 6-304</u> | <u>Y</u> | | <u>Ringelmann No. 2 for no more than 3 minutes/hour during tube cleaning</u> | <u>BAAQMD Condition # 18618 Part 6 and Part 7</u> | <u>P/E (during tube cleaning)</u> | <u>Visible emissions Inspection & Records</u> |
| FP | BAAQMD 6-1-310.3 | Y N | | 0.15 grain per dscf at 6% O ₂ | None | N | None |
| <u>FP</u> | <u>SIP 6-310.3</u> | <u>Y</u> | | <u>0.15 grain per dscf at 6% O₂</u> | <u>None</u> | <u>N</u> | <u>None</u> |

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – BL
Applicable Limits and Compliance Monitoring Requirements
S1800 – UTIL F-88 BOILER 5

| 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 NOx emission rate shall not exceed 0.033 lb/MMBtu, operating-day average | BAAQMD 9-10-502, 9-10-504.21, 9-10-505 and 1-523; Condition # 18265 <u>Parts 1, 2, 8, 10, 11, 13-16, 20</u> Parts 1, 2, 8, 10, 11, 13-16, 20 | C | Monitoring, records, and reporting |
| NOx | BAAQMD 9-10-303 | Y | | NOx emission rate shall not exceed 0.2 lb/MMBtu, operating-day average (facility-wide) | BAAQMD 9-10-502, 9-10-504.21, 9-10-505 and 1-523; Condition # 18265 <u>Parts 1, 2, 8, 10, 11, 13-16, 20</u> Parts 1, 2, 8, 10, 11, 13-16, 20 | C | Monitoring, records, and reporting |
| <u>NOx</u> | <u>SIP 9-10-303</u> | <u>Y</u> | | <u>NOx emission rate shall not exceed 0.2 lb/MMBtu, operating-day average (facility-wide)</u> | <u>BAAQMD 9-10-502, 9-10-504.1, 9-10-505 and 1-523; Condition # 18265</u> <u>Parts 1, 2, 8, 10, 11, 13-16, 20</u> | <u>C</u> | <u>Monitoring, records, and reporting</u> |
| CO | BAAQMD 9-10-305 | N | | CO emissions shall not exceed 400 ppmv dry at 3% O ₂ , operating-day average | BAAQMD 9-10-502, 9-10-504.21, 9-10-505 and 1-523 | P | Monitoring, records, and reporting |

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – BL
Applicable Limits and Compliance Monitoring Requirements
S1800 – UTIL F-88 BOILER 5

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|----------------------------------|--------|-----------------------|---|--|------------------------------|------------------------------------|
| SO ₂ | NSPS Subpart J 60.104(a)(1) | Y | | Fuel gas H ₂ S limited to 0.10 gr/dscf (463 162 ppm) | NSPS Subpart J 60.105(a)(4) and 60.105(e)(3) | C | H ₂ S analyzer |
| NO _x , SO ₂ , CO and PM | BAAQMD Condition #7618, Part A | Y | | Daily emission increases over baseline profile shall be offset by reductions below profile at a ratio of at least 2.0:1 | BAAQMD Condition 7618, Part B, F and G | P/D | Calculation, reporting and records |
| NO _x , SO ₂ , CO and PM | BAAQMD Condition #7618, Part C.d | Y | | If profile has more than 5 non-complying days, the fuel usage at sources under the cap shall not exceed 14,730 NLFE (net liquid fuel equivalent) barrels per stream day | BAAQMD Condition #7618, Part G | P/E | Records |
| SO ₂ | BAAQMD Condition #7618, Part E.2 | Y | | Flexigas H ₂ S shall not exceed 35 ppmv except when the refinery is processing more than 50% SJV crudes, flexigas H ₂ S shall not exceed 80 ppmv (daily average) and 60 ppmv (annual average) | BAAQMD Condition #7618, Part G | P/E | Records |
| Through-put | BAAQMD Condition #16688 | N | | 5376 MMBtu/day maximum firing rate (higher heating value) | BAAQMD Condition #18618, Part 2 | P/D and A | Records |

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – BM
Applicable Limits and Compliance Monitoring Requirements
S1803 – OPCEN COKE CORRAL

| 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 6-1-301 | Y N | | Ringelmann No. 1 for no more than 3 minutes/hour | BAAQMD Condition # 4041 Part 10 and 11 | P/Q | Visible emissions inspection |
| <u>Opacity</u> | <u>SIP 6-301</u> | <u>Y</u> | | <u>Ringelmann No. 1 for no more than 3 minutes/hour</u> | <u>BAAQMD Condition # 4041 Part 10 and 11</u> | <u>P/Q</u> | <u>Visible emissions inspection</u> |
| FP | BAAQMD 6-1-311 | Y N | | 4.10 P ^{0.67} lb/hr particulate, where P is process weight rate in ton/hr | BAAQMD Condition # 4041 Part 10 and 11 | P/Q | Visible emissions inspection |
| <u>FP</u> | <u>SIP 6-311</u> | <u>Y</u> | | <u>4.10 P^{0.67} lb/hr particulate, where P is process weight rate in ton/hr</u> | <u>BAAQMD Condition # 4041 Part 10 and 11</u> | <u>P/Q</u> | <u>Visible emissions inspection</u> |
| Opacity | BAAQMD Condition #4041, Part 3 | Y | | Ringelmann No. 0.5 and 10% opacity for no more than 3 minutes/hour | BAAQMD Condition # 4041 Part 10 and 11 | P/E | Visible emissions inspection |
| VOC | BAAQMD Condition #4041, Part 8 | Y | | RVP of oil content of coke-oil mixture in temporary storage shall not exceed 0.5 psig | BAAQMD Condition # 4041 Part 12 | P/E | Sampling & Analysis |

Table VII – BN
Applicable Limits and Compliance Monitoring Requirements
S1804 – MAINT PAINT SPRAY BOOTH AND FACILITY COATING

| 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 6-1-301 | Y N | | Ringelmann No. 1 for no more than 3 minutes/hour | None | N | None |
| <u>Opacity</u> | <u>SIP 6-301</u> | <u>Y</u> | | <u>Ringelmann No. 1 for no more than 3 minutes/hour</u> | <u>None</u> | <u>N</u> | <u>None</u> |

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – BN
Applicable Limits and Compliance Monitoring Requirements
S1804 – MAINT PAINT SPRAY BOOTH AND FACILITY COATING

| 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 6-1-310 | Y | | 0.15 grain per dscf | None | N | None |
| FP | SIP 6-310 | Y | | 0.15 grain per dscf | None | N | None |
| VOC | BAAQMD 8-4-302 | Y | | Emissions < 4,533 Kg (5 tons)/yr or 85% mass reduction of emissions with abatement device (90% if oxidized to CO ₂) or VOC content < 420 g/l (3.5 lb/gal) as applied, excluding water | BAAQMD 8-4-501 | P/E – maintain current list of coatings and P/A – record quantities; P/M for 8-4-302.3 compliance | Records |
| VOC | BAAQMD 8-19-302 | Y | | VOC content limits for coating of metal parts unless abatement device with 85% efficiency is used | BAAQMD 8-19-134 and 8-19-501 | P/W or D if abatement device is used or M if usage is less than 20 gal/yr; P/M for cleanup and surface preparation solvent usage | Records |
| VOC | BAAQMD 8-19-312 | Y | | VOC content limits of specialty coating of metal parts | BAAQMD 8-19-501 | P/W (or D if abatement device is used) | Records |
| VOC | BAAQMD 8-31-123 | Y | | Exemption from spray application equipment (8-31-310) provided coating of plastic parts ≤ 50 gal/yr | BAAQMD 8-4-501 | P/A | Records |

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – BN
Applicable Limits and Compliance Monitoring Requirements
S1804 – MAINT PAINT SPRAY BOOTH AND FACILITY COATING

| 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 8-31-302 | Y | | VOC content \leq 340 g/L (2.8 lb/gal) coating as applied to plastic parts excluding water, unless abatement device with 85% efficiency is used | BAAQMD 8-31-124 and 8-31-501 | P/W or D if abatement device is used or M if total coating usage is less than 50 gal/yr; P/M for cleanup and surface preparation solvent usage | Records |
| VOC | BAAQMD 8-31-306 | Y | | VOC content limits of flexible coating for plastic parts | BAAQMD 8-31-124 and 8-31-501 | P/W or D if abatement device is used or M if total coating usage is less than 50 gal/yr; P/M for <u>monthly</u> records of cleanup and surface preparation | Records |
| VOC | BAAQMD 8-31-309 | Y | | VOC content limits and usage limits for specialty coatings for plastic parts | BAAQMD 8-31-124 and 8-31-501 | P/W or D if abatement device is used or M if total coating usage is less than 50 gal/yr | Records |
| VOC | BAAQMD 8-32-111 | Y | | VOC content limits in coatings for wood products do not apply if facility coating usage \leq 20 gal/yr | BAAQMD 8-4-501 | P/A | Records |
| VOC | BAAQMD 8-49-301 | N | | VOC content limits in aerosol paint products | None | N | None |
| VOC | SIP 8-49-301 | Y | | VOC content limits in aerosol paint products | None | N | None |

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – BN
Applicable Limits and Compliance Monitoring Requirements
S1804 – MAINT PAINT SPRAY BOOTH AND FACILITY COATING

| 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 8-51-114 | Y | | VOC content limits in coatings for adhesive product substrate do not apply if facility adhesive usage \leq 20 gal/yr | BAAQMD 8-4-501 and 8-51-504 | P/A | Records |
| VOC | BAAQMD 8-51-115 | Y | | Requirements of 8-51 do not apply if VOC content of adhesive or sealant product is less than 20 grams/l VOC | BAAQMD 8-4-501 and 8-51-504 | P/A | Records |
| VOC | BAAQMD 8-51-125 | Y | | Requirements of 8-51-301.4 do not apply if facility contact bond adhesive usage \leq 55 gal/yr | BAAQMD 8-4-501 and 8-51-504 | P/A | Records |
| VOC | BAAQMD 8-51-126 | Y | | Requirements of 8-51-301.4 do not apply if 80% of facility's annual contact bond adhesive use meets definition in 8-21-249 | BAAQMD 8-4-501 and 8-51-504 | P/A | Records |
| VOC | BAAQMD Condition #4303, Part 1 | Y | | Annual cleanup solvent usage shall not exceed 40 gallons/yr | BAAQMD Condition #4303, Part 3 | P/M | Records |
| VOC | BAAQMD Condition #4303, Part 2 | Y | | Annual coating usage shall not exceed 150 gallons/yr | BAAQMD Condition #4303, Part 3 | P/M | Records |

Table VII – BO
Applicable Limits and Compliance Monitoring Requirements
CLOSED VENT SYSTEMS & CONTROL DEVICES
S1805 TANK 12038

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|--|--------------------------------|--------|-----------------------|---|---------------------------------|------------------------------|-----------------|
| See Table VII – Y for additional requirements. | | | | | | | |
| Through-put | BAAQMD Condition #4298, Part 4 | Y | | Annual throughput shall not exceed 563,000 bbl/yr | BAAQMD Condition #4298, Part 8 | P/A | Records |

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – BP
Applicable Limits and Compliance Monitoring Requirements
S1900 – MAINT MACHINE SHOP PARTS CLEANER, S1902 – MAINT SEAL ROOM PARTS CLEANER,
S1903 – MAINT PAINT SHOP SOLVENT TUB

| 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 8-16-303.4.1 | Y N | | Cold cleaner shall not operate without a freeboard ratio ≥ 0.75 | None | P/E | Visual Inspection |
| VOC | BAAQMD 8-16-303.5 | Y N | | VOC content ≤ 0.42 pounds per gallon | BAAQMD 8-16-501.2 and 8-16-.501.5 | P/A | Records |
| VOC | BAAQMD SIP 8-16-303.4.1 | Y | | Cold cleaner shall not operate without a freeboard ratio ≥ 0.75 | None | P/E | Visual Inspection |
| Through-put | BAAQMD Condition #18618, Part 1 | N | | Applies to S1900 and S1903 Annual throughput limits S1900 + S1903 ≤ 192 gal/vr solvent | BAAQMD Condition #18618, Part 2 | P/A | Records |

Table VII - BQ
Applicable Limits and Compliance Monitoring Requirements
S2000 – OPCEN CORROSION INHIBITOR INJECTION

| 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 #4364, Part 2 | Y | | Corrosion inhibitor injection into the flexigas header shall not exceed 90 gallons per day | BAAQMD Condition #4364, Part 4 | P/D | Records |

Table VII - BR
Applicable Limits and Compliance Monitoring Requirements
S2001, S2002, S2003 AND S2004 – LOG MARINE LOADING BERTHS 1, 2, 3 AND 4

| 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 - BR
Applicable Limits and Compliance Monitoring Requirements
S2001, S2002, S2003 AND S2004 – LOG MARINE LOADING BERTHS 1, 2, 3 AND 4

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---------------|---------------------------------|--------|-----------------------|---|--|------------------------------|----------------------|
| SO2 | NSPS Subpart J 60.104 (a)(1) | Y | | Fuel gas H2S limited to 0.10 gr/dscf (230 mg/dscm or 163 162 ppmvd or 163 ppmvd) | 40 CFR 60.13(i) BAAQMD Permit Condition #4288 Parts 12, 13 and 14 | P/E | Gastec #4LL H2S tube |
| VOC | BAAQMD 8-44-301 | Y | | VOC emission shall not exceed 2 lb/1000 barrels loaded or reduced by at least 95% by weight | BAAQMD 8-44-501 and Condition #4288 Part3a | P/E | Records |
| VOC | BAAQMD Condition #4288, Part 6 | Y | | Vapor recovery system exhaust temperature shall not drop below 1400 degrees F for more than 15 minutes per hour | BAAQMD Condition #4288, Part 7 | P/C | Monitoring |
| VOC | BAAQMD Condition #4288, Part 10 | Y | | Loading pressures shall not exceed 80% of the lowest relief valve set pressure of the vessel being loaded | BAAQMD Condition #4288, Part 3a | P/E | Monitoring |

Table VII – BSa
Applicable Limits and Compliance Monitoring Requirements
S5115 – LOG DISSOLVED NITROGEN FLOATATION UNIT NORTH ETP 2 (DNF),
S5116 – LOG DISSOLVED NITROGEN FLOATATION UNIT SOUTH ETP 2 (DNF)

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---------------|-------------------|--------|-----------------------|---|---------------------------------|------------------------------|--|
| VOC | 8-8-307.1 | Y | | Cover standards for air flotation units. No cracks or gaps greater than 0.125 inches occur in the roof or in the roof or walls. | BAAQMD 8-8-503 | P/S | Visual inspection and records of inspections and repairs |

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – BSa
Applicable Limits and Compliance Monitoring Requirements
S5115 – LOG DISSOLVED NITROGEN FLOATATION UNIT NORTH ETP 2 (DNF),
S5116 – LOG DISSOLVED NITROGEN FLOATATION UNIT SOUTH ETP 2 (DNF)

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---------------|--|--------|-----------------------|--|--|---|--|
| HAP | NESHAP Subpart FF 61.343(a)(1)(i)(A) and NESHAP Subpart CC 63.647(a) | Y | | VOC concentrations shall not exceed 500 ppmv above background | NESHAP Subpart FF 61.343(c), 61.350, 61.355(h), 61.356(d), 61.356(h) and 61.357(d)(8) and NESHAP Subpart CC 63.6545(i)(45) | P/Q-visual and A-measurements and reports | Visual inspections, portable HC detector (EPA Method 21) and records of detectable emissions, inspections and repairs |
| HAP | NESHAP Subpart FF 63.649(a)(2)(ii) | Y | | Abatement efficiency of at least 95% by weight | None | N | None |
| HAP | NESHAP Subpart FF 61.349(a)(1)(i) | Y | | Closed vent system leak tightness standards (< 500 ppmw - unless maintained under negative pressure) | NESHAP Subpart FF 61.355(h) and 61.356(h) | P/A | Visual inspections, portable HC detector (EPA Method 21) and records of detectable emissions, inspections and repairs) |

Table VII – BSb
Applicable Limits and Compliance Monitoring Requirements
S2007 LOG DISSOLVED NITROGEN FLOATATION UNIT NORTH ETP 1 (DNF),
S2008 LOG DISSOLVED NITROGEN FLOATATION UNIT SOUTH ETP 1 (DNF)

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---------------|-------------------|----------|-----------------------|---|---------------------------------|------------------------------|--|
| VOC | 8-8-307.1 | <u>Y</u> | | Cover standards for air flotation units. No cracks or gaps greater than 0.125 inches occur in the roof or in the roof or walls. | BAAQMD 8-8-503 | P/S | Visual inspection and records of inspections and repairs |

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – BU
Applicable Limits and Compliance Monitoring Requirements
S2012 – DH V-12378 PERCHLOROETHYLENE STORAGE SYSTEM

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|--|--------------------------------|--------|-----------------------|---|---------------------------------|------------------------------|-----------------|
| See Table VII – A for additional requirements. | | | | | | | |
| Through-put | BAAQMD Condition #6110, Part 1 | Y | | Throughput shall not exceed 18,000 gallons in any 12-month period | BAAQMD Condition #6110, Part 3 | P/M | Records |

Table VII – BV
Applicable Limits and Compliance Monitoring Requirements
EXTERNAL FLOATING ROOF TANKS
S2013 – TANK 12467

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|--------------------------------|--------|-----------------------|---|---------------------------------|------------------------------|-----------------|
| See Tables VII – R & S for additional requirements. | | | | | | | |
| Through-put | BAAQMD Condition #6503, Part 1 | Y | | Throughput shall not exceed 27,000,000 barrels in any 12-month period | BAAQMD Condition #6503, Part 3 | P/M | Records |

Table VII – BW
Applicable Limits and Compliance Monitoring Requirements
INTERNAL FLOATING ROOF TANKS
S2445 – TANK 12445, S2446 – TANK 12446

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|--|--------------------------------|--------|-----------------------|---|---------------------------------|------------------------------|-----------------|
| See Table VII – P for additional requirements. | | | | | | | |
| Through-put | BAAQMD Condition #6707, Part 1 | Y | | Combined throughput shall not exceed 73,000,000 barrels in any 12-month period and combined gasoline throughput shall not exceed 1,650,000 barrels in any 12-month period | BAAQMD Condition #6707, Part 4 | P/M | Records |

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – BW
Applicable Limits and Compliance Monitoring Requirements
INTERNAL FLOATING ROOF TANKS
S2445 – TANK 12445, S2446 – TANK 12446

| 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 #6707, Part 2a | | | For the months of November through February, Gasoline or Gasoline components not exceeding RVP 13.5; and for the remaining months only Gasoline or Gasoline components not exceeding RVP 8 | BAAQMD Condition #6707, Part 4 | P/M | Records |
| VOC | BAAQMD Condition #6707, Part 2bi | Y | | POC emissions, based on the maximum throughput in Condition 1, do not exceed 10,779 pounds per year, as calculated by the EPA Tanks Program version 4.08 (or subsequent version) | BAAQMD Condition #6707, Part 4 | P/M | Records |
| | BAAQMD Condition #6707, Part 2bii | N | | Toxic emissions in lb/yr, based on the maximum throughput in Condition 1, do not exceed any risk screening trigger level specified in Table 2-1-316, except for benzene \leq 27 lb/yr | BAAQMD Condition #6707, Part 4 | P/M | Records |

Table VII – BX
Applicable Limits and Compliance Monitoring Requirements
S3000 – PORTABLE VACUUM DISTILLATION UNIT (CCR TECHNOLOGIES INC.)

| 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 6-1-301 | Y N | | Ringelmann No. 1 for no more than 3 minutes/hour | None | N | None |
| Opacity | SIP 6-301 | Y | | Ringelmann No. 1 for no more than 3 minutes/hour | None | N | None |
| FP | BAAQMD 6-1-310.3 | Y N | | 0.15 grain per dscf at 6% O ₂ | None | N | None |
| FP | SIP 6-310.3 | Y | | 0.15 grain per dscf at 6% O ₂ | None | N | None |

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – BX
Applicable Limits and Compliance Monitoring Requirements
S3000 – PORTABLE VACUUM DISTILLATION UNIT (CCR TECHNOLOGIES INC.)

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---------------|--|--------|-----------------------|---|--|------------------------------|-----------------|
| Through-put | BAAQMD Condition #11806, Part 1 | Y | | No more than one unit shall be operated at a time and combined operating time for all units shall not exceed 8 weeks in any 12-month period | BAAQMD Condition #11806, Part 7 | P/E | Records |
| Through-put | <u>BAAQMD Condition #18618, Part 1</u> | N | | <u>Maximum firing rate < 168 MMBTU/day</u> <u>< 61,320 MMBTU/yr</u> <u>Annual throughput limits</u> | <u>BAAQMD Condition #18618, Part 2</u> | <u>P/A</u> | <u>Records</u> |

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – BY
Applicable Limits and Compliance Monitoring Requirements
S4002 – DC F 13425 A DCU,
S4003 – DC 13425 B DCU

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|--|---|--------|-----------------------|--|---|------------------------------|---|
| See Table VII – AXW for additional requirements: | | | | | | | |
| SO ₂ | NSPS Subpart J 60.104 (a)(1) | Y | | Fuel gas H ₂ S limited to 0.10 gr/dscf (163 ppm) for CR-2 vent gas | 40 CFR 60.13(i) | P | Monitoring, records, and reporting for CR-2 vent gas |
| SO ₂ | BAAQMD Condition #7618, Part E.2 | Y | | Flexigas H ₂ S shall not exceed 35 ppmv except when the refinery is processing more than 50% SJV crudes, flexigas H ₂ S shall not exceed 80 ppmv (daily average) and 60 ppmv (annual average) | BAAQMD Condition #7618, Part G | P/E | Records |
| NO _x , CO, SO ₂ , PM and VOC | BAAQMD Condition #12271, Part A | Y | | Emissions from Clean Fuels Project sources shall not exceed 199.4 tpy NO _x , 252.4 tpy CO, 139.7 tpy SO ₂ , 59.1 tpy PM, 132.0 tpy VOC, 20.8 ton/mon NO _x , 26.3 ton/mon CO, 14.6 ton/mon SO ₂ , 6.2 ton/mon PM and 13.7 ton/mon VOC | BAAQMD Condition #12271, Part A, B, C, L and M | P/M and A | Calculation, records and reporting |
| SO ₂ | BAAQMD Condition #12271, Part 15 and 18.a | Y | | Refinery fuel gas limited to 50 ppmv H ₂ S, 24 hour average; 0.1 grain/dscf (163 ppm) H ₂ S, 3 hour average; and 100 ppm TRS expressed as H ₂ S, 12 month average | BAAQMD Condition #12271 Part 16, 16A, 17, L and M | E | H ₂ S and TRS analyzer records and reporting |
| NO _x | BAAQMD Condition #12271, Part 35 | Y | | NO _x emissions shall not exceed 10 ppmv dry at 3% O ₂ , 3 hour average | BAAQMD Condition #12271 Part 38, L and M | E | NO _x and O ₂ CEM, records and reporting |
| CO | BAAQMD Condition #12271, Part 36 | Y | | CO emissions shall not exceed 50 ppmv dry at 3% O ₂ , 8 hour average | BAAQMD Condition #12271 Part 105 | P/A | Source Test |

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – BY
Applicable Limits and Compliance Monitoring Requirements
S4002 – DCF 13425 A DCU,
S4003 – DC 13425 B DCU

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|-----------------|----------------------------------|--------|-----------------------|---|-----------------------------------|------------------------------|-----------------|
| NH ₃ | BAAQMD Condition #12271, Part 37 | N | | NH ₃ emissions shall not exceed 20 ppmv dry at 3% O ₂ | BAAQMD Condition # 12271 Part 111 | P/A | Source Test |

Table VII – BZ
Applicable Limits and Compliance Monitoring Requirements
S4005 – DC COKE HANDLING FACILITY

| 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 6-1-301 | Y N | | Ringelmann No. 1 for no more than 3 minutes/hour | BAAQMD Condition # 12271 Part 77, L and M | P/D | Water content monitoring & Records |
| Opacity | <u>SIP 6-301</u> | <u>Y</u> | | <u>Ringelmann No. 1 for no more than 3 minutes/hour</u> | <u>BAAQMD Condition # 12271 Part 77, L and M</u> | <u>P/D</u> | <u>Water content monitoring & Records</u> |
| | BAAQMD Condition # 12271 Part 75 | Y | | Ringelmann No. 0.5 and 10% opacity for no more than 3 minutes/hour | BAAQMD Condition # 12271 Part 77, L and M | P/D | Water content monitoring & Records |
| FP | BAAQMD 6-1-310 | Y N | | 0.15 grain per dscf | BAAQMD Condition # 12271 Part 77, L and M | P/D | Water content monitoring & Records |
| <u>FP</u> | <u>SIP 6-310</u> | <u>Y</u> | | <u>0.15 grain per dscf</u> | <u>BAAQMD Condition # 12271 Part 77, L and M</u> | <u>P/D</u> | <u>Water content monitoring & Records</u> |

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – BZ
Applicable Limits and Compliance Monitoring Requirements
S4005 – DC COKE HANDLING FACILITY

| 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 6-1-311 | Y | | 4.10 P ^{0.67} lb/hr particulate, where P is process weight rate in ton/hr | BAAQMD Condition # 12271 Part 77, L and M | P/D | Water content monitoring & Records |
| FP | SIP 6-311 | Y | | 4.10 P ^{0.67} lb/hr particulate, where P is process weight rate in ton/hr | BAAQMD Condition # 12271 Part 77, L and M | P/D | Water content monitoring & Records |
| NOx, CO, SO ₂ , PM and VOC | BAAQMD Condition #12271, Part A | Y | | Emissions from Clean Fuels Project sources shall not exceed 199.4 tpy NOx, 252.4 tpy CO, 139.7 tpy SO ₂ , 59.1 tpy PM, 132.0 tpy VOC, 20.8 ton/mon NOx, 26.3 ton/mon CO, 14.6 ton/mon SO ₂ , 6.2 ton/mon PM and 13.7 ton/mon VOC | BAAQMD Condition #12271, Part A, B, C, L and M | P/M and A | Calculation, records and reporting |
| Opacity | BAAQMD Condition #12271, Part 77 | Y | | Moisture content of coke, upon discharge from the crusher, shall be maintained at 8% by weight or more | BAAQMD Condition # 12271, Part 77, L and M | P/D | Water content monitoring & Records |
| PM | BAAQMD Condition #12271, Part 79 and 81 | Y | | Coke Corral Barn and Truck/Railcar Loading Hopper PM emissions shall not exceed 0.01 grain/dscf | BAAQMD Condition #12271, Part 75, L and M | P/D | Sampling, records and reporting |
| Through-put | BAAQMD Condition #12271, Part 83 | Y | | Load out of coke into trucks and railcars shall be limited to 750,000 tons in any 12-month period | BAAQMD Condition #12271, Part 83, L and M | P/M | Records and reporting |

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – CA
Applicable Limits and Compliance Monitoring Requirements
S4001 – DC DELAYED COKING UNIT (DCU), S4020 – DC DISTILLATE HYDROTREATER (DHT),
S4050 – DC CATALYTIC GAS DEPENTANIZER (CGDP), S4080 – DC ISOMERIZATION UNIT (ISOM),
S4140 – DC HEAVY CRACKED GASOLINE HYDROTREATER (HGHT),
S4160 – DC HYDROGEN PLANT 3 (HP3),

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|--|---------------------------------|--------|-----------------------|--|--|------------------------------|------------------------------------|
| See Table VII – AE & AF for additional requirements. | | | | | | | |
| NO _x , CO, SO ₂ , PM and VOC | BAAQMD Condition #12271, Part A | Y | | Emissions from Clean Fuels Project sources shall not exceed 199.4 tpy NO _x , 252.4 tpy CO, 139.7 tpy SO ₂ , 59.1 tpy PM, 132.0 tpy VOC, 20.8 ton/mon NO _x , 26.3 ton/mon CO, 14.6 ton/mon SO ₂ , 6.2 ton/mon PM and 13.7 ton/mon VOC | BAAQMD Condition #12271, Part A, B, C, L and M | P/M and A | Calculation, records and reporting |
| VOC | BAAMQD Condition # 12271 Part N | Y | | Any process depressurization shall be vented to a control device with an overall capture and destruction efficiency of 95% capture on a mass basis | BAAQMD 8-10-401 | P/E | Records |
| VOC | BAAQMD Condition #12271, Part H | Y | | Fugitive emissions from Clean Fuels Project sources shall not exceed emission 193.5 tpy VOC and 14.7 NPOC | BAAQMD Condition #12271, Part H, L and M | P/A | Calculation, records and reporting |

Table VII – CB
Applicable Limits and Compliance Monitoring Requirements
S4021 – DC F-13909 DHT RECYCLE

| 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 6-1-301 | Y N | | Ringelmann No. 1 for no more than 3 minutes/hour | None | N | None |
| <u>Opacity</u> | <u>SIP 6-301</u> | <u>Y</u> | | <u>Ringelmann No. 1 for no more than 3 minutes/hour</u> | <u>None</u> | <u>N</u> | <u>None</u> |

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – CB
Applicable Limits and Compliance Monitoring Requirements
S4021 – DC F-13909 DHT RECYCLE

| 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 6-1-304 | Y N | | Ringelmann No. 2 for no more than 3 minutes/hour during tube cleaning | BAAQMD Condition # 18618 Part 6 and 7 | P/E (during tube cleaning) | Visible emissions monitoring & Records |
| <u>Opacity</u> | <u>SIP 6-304</u> | <u>Y</u> | | <u>Ringelmann No. 2 for no more than 3 minutes/hour during tube cleaning</u> | <u>BAAQMD Condition # 18618 Part 6 and 7</u> | <u>P/E (during tube cleaning)</u> | <u>Visible emissions monitoring & Records</u> |
| FP | BAAQMD 6-1-310.3 | Y N | | 0.15 grain per dscf at 6% O ₂ | None | N | None |
| <u>FP</u> | <u>SIP 6-310.3</u> | <u>Y</u> | | <u>0.15 grain per dscf at 6% O₂</u> | <u>None</u> | <u>N</u> | <u>None</u> |
| NOx | BAAQMD 9-10-301 | N | | Refinery-wide NOx emission rate shall not exceed 0.033 lb/MMBTU, operating-day average | BAAQMD 9-10-502, 9-10-504, 21 , 9-10-505, and 1-523; Condition # 18265 Parts <u>1-7, 9,10, 12-15,20</u> 1-7, 9-15, and 17-21,20 | C | Monitoring, records, and reporting |
| NOx | BAAQMD 9-10-303 | Y N | | NOx emission rate shall not exceed 0.2 lb/MMBtu, operating-day average (facility-wide) | BAAQMD 9-10-502, 9-10-504, <u>12</u> , 9-10-505 and 1-523; Condition # 18265 Parts <u>1-7, 9,10, 12-15,20</u> 1-7, 9-15, and 17-22011, 2, 8, 10, 11-13, 15, 17, 20-21 | C | Monitoring, records, and reporting |

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – CB
Applicable Limits and Compliance Monitoring Requirements
S4021 – DC F-13909 DHT RECYCLE

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---------------------------------------|--|--------|-----------------------|--|---|------------------------------|---|
| NOx | SIP 9-10-303 | Y | | NOx emission rate shall not exceed 0.2 lb/MMBtu, operating-day average (facility-wide) | BAAQMD 9-10-502, 9-10-504.1, 9-10-505 and 1-523; Condition # 18265 Parts 1-7, 9, 10, 12-15, 20 | C | Monitoring, records, and reporting |
| CO | BAAQMD 9-10-305 | N | | CO emissions shall not exceed 400 ppmv dry at 3% O ₂ , operating-day average | BAAQMD 9-10-502, 9-10-504.1, 9-10-505 and 1-523 | C Semi-A | Monitoring, records, and reporting |
| SO ₂ | NSPS Subpart J 60.104(a)(1) | Y | | Fuel gas H ₂ S limited to 0.10 gr/dscf (163-162 ppm) for refinery fuel gas (RFG) and/or flexigas (FXG) | NSPS Subpart J 60.105(a)(4) and 60.105(e)(3) | C | H ₂ S analyzer for refinery fuel gas (RFG) and/or flexigas (FXG) |
| NOx, CO, SO ₂ , PM and VOC | BAAQMD Condition #12271, Part A | Y | | Emissions from Clean Fuels Project sources shall not exceed 199.4 tpy NOx, 252.4 tpy CO, 139.7 tpy SO ₂ , 59.1 tpy PM, 132.0 tpy VOC, 20.8 ton/mon NOx, 26.3 ton/mon CO, 14.6 ton/mon SO ₂ , 6.2 ton/mon PM and 13.7 ton/mon VOC | BAAQMD Condition #12271, Part A, B, C, L and M | P/M and A | Calculation, records and reporting |
| SO ₂ | BAAQMD Condition #12271, Part 15 and 18 | Y | | Refinery fuel gas limited to 50 ppmv H ₂ S, 24-hour average; 0.1 grain/dscf (163-162 ppm) H ₂ S, 3-hour average; and 70 ppm TRS expressed as H ₂ S, 12-month average | BAAQMD Condition #12271 Part 16, 16A, 17, L and M | C | H ₂ S and TRS analyzer records and reporting |
| NOx | BAAQMD Condition #12271, Part 40 and 41 | Y | | NOx emissions shall not exceed 25 ppmv dry at 3% O ₂ , 3-hour average (for natural draft furnaces) and 20 ppmv dry at 3% O ₂ , 3-hour average (for forced draft furnaces) | BAAQMD Condition # 12271 Part 104 | P/Semi-A for S4021; | Source Test |

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – CB
Applicable Limits and Compliance Monitoring Requirements
S4021 – DC F-13909 DHT RECYCLE

| 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 #12271, Part 42 | Y | | CO emissions shall not exceed 50 ppmv dry at 3% O ₂ , 8-hour average | BAAQMD Condition # 12271 Part 106 | P/A | Source Test |
| Through-put | BAAQMD Condition #16688 | N | | Maximum firing rate (higher heating value) | BAAQMD Condition #18618, Part 2 | P/D and A | Records |

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII—CD
Applicable Limits and Compliance Monitoring Requirements
S4031—DCF 14012 HGHT REBOIL,
S4141—DCF 14011 HGHT FEED

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|--|---|--------|-----------------------|--|---|------------------------------|---|
| See Table VII—AU for additional requirements. | | | | | | | |
| SO ₂ | BAAQMD Condition #7618, Part E.2 | Y | | Flexigas H ₂ S shall not exceed 35 ppmv except when the refinery is processing more than 50% SJV crudes, flexigas H ₂ S shall not exceed 80 ppmv (daily average) and 60 ppmv (annual average) | BAAQMD Condition #7618, Part G | P/E | Records |
| NO _x , CO, SO ₂ , PM and VOC | BAAQMD Condition #12271, Part A | Y | | Emissions from Clean Fuels Project sources shall not exceed 199.4 tpy NO _x , 252.4 tpy CO, 139.7 tpy SO ₂ , 59.1 tpy PM, 132.0 tpy VOC, 20.8 ton/mon NO _x , 26.3 ton/mon CO, 14.6 ton/mon SO ₂ , 6.2 ton/mon PM and 13.7 ton/mon VOC | BAAQMD Condition #12271, Part A, B, C, L and M | P/M and A | Calculation, records and reporting |
| SO ₂ | BAAQMD Condition #12271, Part 15 and 18 | Y | | Refinery fuel gas limited to 50 ppmv H ₂ S, 24-hour average; 0.1 grain/dscf (163 ppm) H ₂ S, 3-hour average; and 70 ppm TRS expressed as H ₂ S, 12-month average | BAAQMD Condition #12271 Part 16, 16A, 17, L and M | C | H ₂ S and TRS analyzer records and reporting |
| NO _x | BAAQMD Condition #12271, Part 35 | Y | | NO _x emissions shall not exceed 10 ppmv dry at 3% O ₂ , 3-hour average | BAAQMD Condition #12271 Part 38, L and M | C | NO _x and O ₂ CEM, records and reporting |
| CO | BAAQMD Condition #12271, Part 36 | Y | | CO emissions shall not exceed 50 ppmv dry at 3% O ₂ , 8-hour average | BAAQMD Condition #12271 Part 105 | P/A | Source Test |
| NH ₃ | BAAQMD Condition #12271, Part 37 | N | | NH ₃ emissions shall not exceed 20 ppmv dry at 3% O ₂ | BAAQMD Condition #12271 Part 111 | P/A | Source Test |

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – CDa
Applicable Limits and Compliance Monitoring Requirements
S4141 – DCF 14011 HIGHT FEED

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|------------------------------|--------|-----------------------|--|---------------------------------|------------------------------|--|
| See Table VII – AU & CD for additional requirements. | | | | | | | |
| SO2 | NSPS Subpart J 60.104 (a)(1) | Y | | Fuel gas H2S limited to 0.10 gr/dscf (163 ppm) for CR 2 vent gas | 40 CFR 60.13(i) | P | Monitoring, records, and reporting for CR 2 vent gas |

Table VII – CE
Applicable Limits and Compliance Monitoring Requirements
S4161 - DC H-101 HP3 STEAM METHANE REFORMER

| 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 6-1-301 | Y N | | Ringelmann No. 1 for no more than 3 minutes/hour | None | N | None |
| <u>Opacity</u> | <u>SIP 6-301</u> | <u>Y</u> | | <u>Ringelmann No. 1 for no more than 3 minutes/hour</u> | <u>None</u> | <u>N</u> | <u>None</u> |
| Opacity | BAAQMD 6-1-304 | Y N | | Ringelmann No. 2 for no more than 3 minutes/hour during tube cleaning | BAAQMD Condition # 18618 Part 6 and 7 | P/E (during tube cleaning) | Visible emissions monitoring & Records |
| <u>Opacity</u> | <u>SIP 6-304</u> | <u>Y</u> | | <u>Ringelmann No. 2 for no more than 3 minutes/hour during tube cleaning</u> | <u>BAAQMD Condition # 18618 Part 6 and 7</u> | <u>P/E (during tube cleaning)</u> | <u>Visible emissions monitoring & Records</u> |
| FP | BAAQMD 6-1-310.3 | Y N | | 0.15 grain per dscf at 6% O ₂ | None | N | None |
| <u>FP</u> | <u>SIP 6-310.3</u> | <u>Y</u> | | <u>0.15 grain per dscf at 6% O₂</u> | <u>None</u> | <u>N</u> | <u>None</u> |

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – CE
Applicable Limits and Compliance Monitoring Requirements
S4161 - DC H-101 HP3 STEAM METHANE REFORMER

| 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 NOx emission rate shall not exceed 0.033 lb/MMBtu, operating-day average | BAAQMD 9-10-502, 9-10-504.1, 9-10-505, 1-522 and 1-523; Condition # 18265 Parts 1, 2, 8, 10, 11, 13-15, 20 | C | NOx and O ₂ CEM, monitoring, records, and reporting |
| NOx | BAAQMD 9-10-303 | Y N | | NOx emission rate shall not exceed 0.2 lb/MMBtu, operating-day average (facility-wide) | BAAQMD 9-10-502, 9-10-504.1, 9-10-505 and 1-523; Condition # 18265 Parts 1, 2, 8, 10, 11, 13-15, 20 | C | Monitoring, records, and reporting |
| <u>NOx</u> | <u>SIP 9-10-303</u> | <u>Y</u> | | <u>NOx emission rate shall not exceed 0.2 lb/MMBtu, operating-day average (facility-wide)</u> | <u>BAAQMD 9-10-502, 9-10-504.1, 9-10-505 and 1-523; Condition # 18265 Parts 1, 2, 8, 10, 11, 13-15, 20</u> | <u>C</u> | <u>Monitoring, records, and reporting</u> |
| CO | BAAQMD 9-10-305 | N | | CO emissions shall not exceed 400 ppmv dry at 3% O ₂ , operating-day average | BAAQMD 9-10-502, 9-10-504.1, 9-10-505, 1-522 and 1-523 | C | Monitoring, records, and reporting |

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – CE
Applicable Limits and Compliance Monitoring Requirements
S4161 - DC H-101 HP3 STEAM METHANE REFORMER

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---------------------------------------|----------------------------------|----------|-----------------------|--|---|------------------------------|---|
| SO ₂ | 40 CFR 60.104 (a)(1) | Y | | Fuel gas H ₂ S limited to 0.10 gr/dscf (163 -162 ppm) | 40 CFR 60.105(a)(4) & 60.105(e)(3) for refinery fuel gas and flexigas | C | H2S Analyzer |
| SO ₂ | 40 CFR 60.104 (a)(1) | Y | | Fuel gas H ₂ S limited to 0.10 gr/dscf (163 -162 ppm) | 40 CFR 60.13(i) for process swing absorption gas as discussed under PC 24339; Else, NSPS Subpart J 60.105(a)(4) and 60.105(e)(3) | P | Monitoring, records, and reporting |
| <u>SO₂</u> | <u>40 CFR 60.104 (a)(1)</u> | <u>Y</u> | | <u>Fuel gas H₂S limited to 0.10 gr/dscf (162 ppm)</u> | <u>BAAQMD AMP Condition#: 24339 Parts 1 and 2 for PSA gas</u> | <u>P/W</u> | <u>Monitor the outlet of V-104, V-105A, and V-105B for H2S using Dräger tubes</u> |
| SO ₂ | BAAQMD Condition #7618, Part E.2 | Y | | Flexigas H ₂ S shall not exceed 35 ppmv except when the refinery is processing more than 50% SJV crudes, flexigas H ₂ S shall not exceed 80 ppmv (daily average) and 60 ppmv (annual average) | BAAQMD Condition #7618, Part G | P/E | Records |
| NOx, CO, SO ₂ , PM and VOC | BAAQMD Condition #12271, Part A | Y | | Emissions from Clean Fuels Project sources shall not exceed 199.4 tpy NOx, 252.4 tpy CO, 139.7 tpy SO ₂ , 59.1 tpy PM, 132.0 tpy VOC, 20.8 ton/mon NOx, 26.3 ton/mon CO, 14.6 ton/mon SO ₂ , 6.2 ton/mon PM and 13.7 ton/mon VOC | BAAQMD Condition #12271, Part A, B, C, L and M | P/M and A | Calculation, records and reporting |

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – CE
Applicable Limits and Compliance Monitoring Requirements
S4161 - DC H-101 HP3 STEAM METHANE REFORMER

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|-----------------|---|--------|-----------------------|---|---|------------------------------|---|
| SO ₂ | BAAQMD Condition #12271, Part 15 and 18 | Y | | Refinery fuel gas limited to 50 ppmv H ₂ S, 24-hour average; 0.1 grain/dscf (463-162 ppm) H ₂ S, 3-hour average; and 70 ppm TRS expressed as H ₂ S, 12-month average | BAAQMD Condition #12271 Part 16, 16A, 17, L and M | C | H ₂ S and TRS analyzer records and reporting |
| NOx | BAAQMD Condition #12271, Part 29 | Y | | NOx emissions shall not exceed 10 ppmv dry at 3% O ₂ , 3-hour average | BAAQMD Condition #12271, Part 32, L and M | C | NOx and O ₂ CEM, records and reporting |
| CO | BAAQMD Condition #12271, Part 30 | Y | | CO emissions shall not exceed 25 ppmv dry at 3% O ₂ , 8-hour average | BAAQMD Condition # 12271 Part 107 | P/A | Source Test |
| NH ₃ | BAAQMD Condition # 12271, Part 31 | N | | Cogeneration Plant NH ₃ emissions shall not exceed 20 ppmv dry at 45.3% O ₂ | BAAQMD Condition # 12271 Part 112 | P/A | Source Test |
| Through-put | BAAQMD Condition #12271, Part 34 | Y | | Combined refinery fuel gas and flexigas heat input shall not exceed 57.6% of the design duty (524 MMBtu/Hr) | BAAQMD Condition #12271, Part 20, L and M | C | Fuel flow meter, records and reporting |
| Through-put | BAAQMD Condition #16688 | N | | Maximum firing rate (higher heating value) | BAAQMD Condition #18618, Part 2 | P/D and A | Records |

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – CF
Applicable Limits and Compliance Monitoring Requirements
S4180 – OPCEN SULFUR PLANT 4 (SRU4)

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|----------------------------------|--------|-----------------------|---|--|---|--|
| See Table VII – AHB & AHB for additional requirements. | | | | | | | |
| NO _x , CO, SO ₂ , PM and VOC | BAAQMD Condition #12271, Part A | Y | | Emissions from Clean Fuels Project sources shall not exceed 199.4 tpy NO _x , 252.4 tpy CO, 139.7 tpy SO ₂ , 59.1 tpy PM, 132.0 tpy VOC, 20.8 ton/mon NO _x , 26.3 ton/mon CO, 14.6 ton/mon SO ₂ , 6.2 ton/mon PM and 13.7 ton/mon VOC | BAAQMD Condition #12271, Part A, B, C, L and M | P/M and A | Calculation, records and reporting |
| SO ₂ | BAAQMD Condition #12271, Part 65 | Y | | Sulfur Plant 4 and SCOT unit shall achieve 99.9% weight conversion of reduced S compounds to elemental S | BAAQMD Condition #12271, Part 67, L and M | C | SO ₂ CEM & Records |
| SO ₂ | BAAQMD Condition #12271, Part 66 | Y | | Concentration of total reduced S in the SCOT unit exhaust prior to the SCOT thermal Oxidizer shall not exceed 100 ppmv dry at 0 % O ₂ , 8-hour average | BAAQMD Condition #12271, Part 67, L and M | P/D and M | Monitoring, records and reporting |
| SO ₂ | BAAQMD Condition #12271, Part 68 | Y | | (1) SCOT thermal oxidizer shall achieve a minimum conversion of 95% by weight of reduced S to SO ₂ ; (2) H ₂ S emissions in SCOT thermal oxidizer exhaust shall not exceed 2.5 ppmv dry at 0% O ₂ , 24-hour average; (3) SO ₂ emissions in SCOT thermal oxidizer exhaust shall not exceed 50 ppmv dry at 0% O ₂ , 24-hour average (excluding contribution from the sulfur pit) | BAAQMD Condition #12271, Part 69, L and M | C for SO ₂ , C for temperature monitoring at A4181, and P/A for H ₂ S | SO ₂ CEM, Continuous temperature monitor at A4181, annual H ₂ S source test, records and reporting |
| CO | BAAQMD Condition #12271, Part 70 | Y | | CO emissions in SCOT thermal oxidizer exhaust shall not exceed 100 ppmv dry at 0% O ₂ , 8-hour average; | BAAQMD Condition # 12271 Part 109 | P/A | Source Test |

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – CF
Applicable Limits and Compliance Monitoring Requirements
S4180 – OPCEN SULFUR PLANT 4 (SRU4)

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|------------------------------------|----------------------------------|--------|-----------------------|---|-----------------------------------|------------------------------|-----------------|
| NH ₃ , H ₂ S | BAAQMD Condition #12271, Part 64 | N | | Sour water strippers to remove and recover at least 95% (by weight) of ammonia from the sour water feed to the unit; or reduce the concentration of ammonia in the stripped water to no more than 50 ppm | None | N P/A | None |
| H ₂ S | BAAQMD Condition #12271, Part 72 | Y | | Loading of elemental sulfur or sulfuric acid shall be controlled by scrubber with overall capture/removal efficiency of at least 95% by weight and H ₂ S emissions from the scrubber shall not exceed 5 ppm. | BAAQMD Condition # 12271 Part 110 | P/A | Source Test |

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – CG
Applicable Limits and Compliance Monitoring Requirements
S4190 – UTIL BOILER 6 GAS TURBINE 1, S4192 – UTIL BOILER 6 GAS TURBINE 2

| 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 6-1-301 | Y N | | Ringelmann No. 1 for no more than 3 minutes/hour | BAAQMD Condition # 18618 Part 3 and Part 7 | P/10 ⁶ gallon of fuel combusted | Visible emissions inspection |
| Opacity | SIP 6-301 | Y | | Ringelmann No. 1 for no more than 3 minutes/hour | BAAQMD Condition # 18618 Part 3 and Part 7 | P/10 ⁶ gallon of fuel combusted | Visible emissions inspection |
| FP | BAAQMD 6-1-310 | Y N | | 0.15 grain/dscf | BAAQMD Condition # 18618 Part 3 and Part 7 | P/10 ⁶ gallon of fuel combusted | Visible emissions inspection |
| FP | SIP 6-310 | Y | | 0.15 grain/dscf | BAAQMD Condition # 18618 Part 3 and Part 7 | P/10 ⁶ gallon of fuel combusted | Visible emissions inspection |
| NOx | BAAQMD 9-9-301.1,3 & SIP 9-9-301.3 | Y | | 9 ppmv dry at 15% O ₂ for gaseous fuel firing 1-hour average | BAAQMD 9-9-501 and 1-522 | C | NOx and O ₂ CEM and records |
| NOx | BAAQMD 9-9-301.2 | N | 1/1/2010 | 95 ppmv dry at 15% O ₂ for gaseous fuel/natural gas firing 1-hour average | BAAQMD 9-9-501 and 1-522 | C | NOx and O ₂ CEM and records |
| NOx | BAAQMD 9-9-301.1,3 & SIP 9-9-301.3 | Y | | 25 ppmv dry at 15% O ₂ for non-gaseous fuel firing during natural gas curtailment or short testing periods 1-hour average | BAAQMD 9-9-501 and 1-522 | C | NOx and O ₂ CEM and records |
| SO ₂ | NSPS Subpart J 60.104(a)(1) | Y | | Fuel gas H ₂ S limited to 0.10 gr/dscf (163-162 ppm) | NSPS Subpart J 60.105(a)(4) or 60.105(a)(3) and 60.105(e)(3) | C | H ₂ S analyzer or SO ₂ CEM |
| SO ₂ | NSPS Subpart GG 60.333(b) | Y | | 0.8 % sulfur in fuel by weight | NSPS Subpart GG 60.334(h)(3)6 0.334(b) | P/E | Fuel analysis |

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – CG
Applicable Limits and Compliance Monitoring Requirements
S4190 – UTIL BOILER 6 GAS TURBINE 1, S4192 – UTIL BOILER 6 GAS TURBINE 2

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|--|---|--------|-----------------------|---|---|------------------------------|---|
| SO ₂ | BAAQMD Condition #7618, Part E.2 | Y | | Flexigas H ₂ S shall not exceed 35 ppmv except when the refinery is processing more than 50% SJV crudes, flexigas H ₂ S shall not exceed 80 ppmv (daily average) and 60 ppmv (annual average) | BAAQMD Condition #7618, Part G | P/E | Records |
| NO _x , CO, SO ₂ , PM and VOC | BAAQMD Condition #12271, Part A | Y | | Emissions from Clean Fuels Project sources shall not exceed 199.4 tpy NO _x , 252.4 tpy CO, 139.7 tpy SO ₂ , 59.1 tpy PM, 132.0 tpy VOC, 20.8 ton/mon NO _x , 26.3 ton/mon CO, 14.6 ton/mon SO ₂ , 6.2 ton/mon PM and 13.7 ton/mon VOC | BAAQMD Condition #12271, Part A, B, C, L and M | P/M and A | Calculation, records and reporting |
| SO ₂ | BAAQMD Condition #12271, Part 15 and 18 | Y | | Refinery fuel gas limited to 50 ppmv H ₂ S, 24-hour average; 0.1 grain/dscf (463-162 ppm) H ₂ S, 3-hour average; and 70 ppm TRS expressed as H ₂ S, 12-month average | BAAQMD Condition #12271 Part 16, 16A, 17, L and M | C | H ₂ S and TRS analyzer records and reporting |
| NO _x | BAAQMD Condition #12271, Part 24b | Y | | Cogeneration Plant emissions shall not exceed 610.0 lb/day NO _x , 500.0 lb/day VOC, 458.0 lb/day SO ₂ , and 365+ [(610-NO _x actual)/1.9]+[(458- SO ₂ actual)/2.5] lb/day PM ₁₀ , where NO _x and SO ₂ are in lb/day | BAAQMD Condition #12271, Part 24a, 24b, 27, L and M | P/D | NO _x , SO ₂ and O ₂ CEM, fuel usage, emission factors, records and reporting |
| NO _x | BAAQMD Condition #12271, Part 24c | Y | | Cogeneration Plant NO _x emissions shall not exceed 5 ppmv dry at 15% O ₂ , 3-hour average | BAAQMD Condition #12271, Part 27, L and M | C | NO _x and O ₂ CEM, records and reporting |
| CO | BAAQMD Condition #12271, Part 25a | Y | | Cogeneration Plant CO emissions shall not exceed 6.5 ppmv dry at 15% O ₂ , 8-hour average or 90% reduction on a mass basis | BAAQMD Condition # 12271 Part 108 | P/A | Source Test |

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – CG
Applicable Limits and Compliance Monitoring Requirements
S4190 – UTIL BOILER 6 GAS TURBINE 1, S4192 – UTIL BOILER 6 GAS TURBINE 2

| 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 #12271, Part 25b | Y | | Cogeneration Plant VOC emissions shall not exceed 0.013 lb/MMBtu | BAAQMD Condition # 12271 Part 114 | P/A | Source Test |
| NH ₃ | BAAQMD Condition #12271, Part 26 | N | | Cogeneration Plant NH ₃ emissions shall not exceed 20 ppmv dry at 15% O ₂ | BAAQMD Condition #12271, Part 113 | P/A | Source Test |
| Through-put | BAAQMD Condition #18618, Part 1 | N | | Applies to S4190 and S4192 <u>Annual throughput limits</u> <u>Maximum firing rate</u> < 13,152 MMBTU/dav/GT < 4,800,480 MMBTU/yr/GT | BAAQMD Condition #18618, Part 2 | P/A | Records |

Table VII – CH
Applicable Limits and Compliance Monitoring Requirements
S4191 – UTIL BOILER 6 SUPPLEMENTAL STEAM GENERATOR 1,
S4193 – UTIL BOILER 6 SUPPLEMENTAL STEAM GENERATOR 2

| 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 6-1-301 | Y N | | Ringelmann No. 1 for no more than 3 minutes/hour | BAAQMD Condition # 18618 Part 3 and 7 | P/10 ⁶ gallon of fuel combusted | Visible emissions inspection |
| Opacity | SIP 6-301 | Y | | Ringelmann No. 1 for no more than 3 minutes/hour | BAAQMD Condition # 18618 Part 3 and 7 | P/10 ⁶ gallon of fuel combusted | Visible emissions inspection |
| Opacity | BAAQMD 6-1-304 | Y N | | Ringelmann No. 2 for no more than 3 minutes/hour during tube cleaning | BAAQMD Condition # 18618 Part 6 and Part 7 | P/E (during tube cleaning) | Visible emission inspection & Records |
| Opacity | SIP 6-304 | Y | | Ringelmann No. 2 for no more than 3 minutes/hour during tube cleaning | BAAQMD Condition # 18618 Part 6 and Part 7 | P/E (during tube cleaning) | Visible emission inspection & Records |

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – CH
Applicable Limits and Compliance Monitoring Requirements
S4191 – UTIL BOILER 6 SUPPLEMENTAL STEAM GENERATOR 1,
S4193 – UTIL BOILER 6 SUPPLEMENTAL STEAM GENERATOR 2

| 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- 1 -310.3 | Y N | | 0.15 grain per dscf at 6% O ₂ | BAAQMD Condition # 18618 Part 3 and 7 | P/10 ⁶ gallon of fuel combusted | Visible emissions inspection |
| FP | SIP 6-310.3 | Y | | 0.15 grain per dscf at 6% O ₂ | <u>BAAQMD Condition # 18618 Part 3 and 7</u> | <u>P/10⁶ gallon of fuel combusted</u> | <u>Visible emissions inspection</u> |
| Opacity | NSPS Subpart Db 60.43b(f) | Y | | Oil-fired 20 percent opacity and 27 percent opacity for 6 minutes, except during start-up, shutdown or malfunction. | NSPS Subpart Db 60.48b Opacity CEM if firing on fuel oil and 60.49b(f), (h), (o) and (v) Records | C | CEM |
| NOx | NSPS Subpart Db 60.44b(a)(4) | Y | | Natural gas and distillate oil: 0.20 lb NOx/MMBtu and Residual oil: 0.40 lb NOx/MMBtu | BAAQMD 1-520.1 and NSPS Subpart Db 60.49b(d), (g), (o) (v) and (w) | C | CEM |
| SO ₂ | NSPS Subpart J 60.104(a)(1) | Y | | Fuel gas H ₂ S limited to 0.10 gr/dscf (463-162 ppm) | NSPS Subpart J 60.105(a)(4) or 60.105(a)(3) and 60.105(e)(3) | C | H ₂ S analyzer or SO ₂ CEM |
| SO ₂ | BAAQMD Condition #7618, Part E.2 | Y | | Flexigas H ₂ S shall not exceed 35 ppmv except when the refinery is processing more than 50% SJV crudes, flexigas H ₂ S shall not exceed 80 ppmv (daily average) and 60 ppmv (annual average) | BAAQMD Condition #7618, Part G | P/E | Records |

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – CH
Applicable Limits and Compliance Monitoring Requirements
S4191 – UTIL BOILER 6 SUPPLEMENTAL STEAM GENERATOR 1,
S4193 – UTIL BOILER 6 SUPPLEMENTAL STEAM GENERATOR 2

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---------------------------------------|---|--------|-----------------------|--|---|------------------------------|--|
| NOx, CO, SO ₂ , PM and VOC | BAAQMD Condition #12271, Part A | Y | | Emissions from Clean Fuels Project sources shall not exceed 199.4 tpy NOx, 252.4 tpy CO, 139.7 tpy SO ₂ , 59.1 tpy PM, 132.0 tpy VOC, 20.8 ton/mon NOx, 26.3 ton/mon CO, 14.6 ton/mon SO ₂ , 6.2 ton/mon PM and 13.7 ton/mon VOC | BAAQMD Condition #12271, Part A, B, C, L and M | P/M and A | Calculation, records and reporting |
| SO ₂ | BAAQMD Condition #12271, Part 15 and 18 | Y | | Refinery fuel gas limited to 50 ppmv H ₂ S, 24-hour average; 0.1 grain/dscf (463-162 ppm) H ₂ S, 3-hour average; and 70 ppm TRS expressed as H ₂ S, 12-month average | BAAQMD Condition #12271, Part 16, 16A, 17, L and M | C | H ₂ S and TRS analyzer records and reporting |
| NOx | BAAQMD Condition #12271, Part 24b | Y | | Cogeneration Plant emissions shall not exceed 610.0 lb/day NOx, 500.0 lb/day VOC, 458.0 lb/day SO ₂ , and 365+ [(610-NOx actual)/1.9]+[(458- SO ₂ actual)/2.5] lb/day PM10, where NOx and SO ₂ are in lb/day | BAAQMD Condition #12271, Part 24a, 24b, 27, L and M | P/D | NOx, SO ₂ and O ₂ CEM, fuel usage, emission factors, records and reporting |
| NOx | BAAQMD Condition #12271, Part 24c | Y | | Cogeneration Plant NOx emissions shall not exceed 5 ppmv dry at 15% O ₂ , 3-hour average | BAAQMD Condition #12271, Part 27, L and M | C | NOx and O ₂ CEM, records and reporting |
| CO | BAAQMD Condition #12271, Part 25a | Y | | Cogeneration Plant CO emissions shall not exceed 6.5 ppmv dry at 15% O ₂ , 8-hour average or 90% reduction on a mass basis | BAAQMD Condition # 12271 Part 108 | P/A | Source Test |
| VOC | BAAQMD Condition #12271, Part 25b | Y | | Cogeneration Plant VOC emissions shall not exceed 0.013 lb/MMBtu | BAAQMD Condition # 12271 Part 114 | P/A | Source Test |

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – CH
Applicable Limits and Compliance Monitoring Requirements
S4191 – UTIL BOILER 6 SUPPLEMENTAL STEAM GENERATOR 1,
S4193 – UTIL BOILER 6 SUPPLEMENTAL STEAM GENERATOR 2

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|-----------------|----------------------------------|--------|-----------------------|--|-----------------------------------|------------------------------|-----------------|
| NH ₃ | BAAQMD Condition #12271, Part 26 | N | | Cogeneration Plant NH ₃ emissions shall not exceed 20 ppmv dry at 15% O ₂ | BAAQMD Condition # 12271 Part 113 | P/A | Source Test |
| Through-put | BAAQMD Condition #18618, Part 1 | N | | Applies to S4191 and S4193 Annual throughput limits Maximum firing rate < 6.192 MMBTU/day/HRSG < 2,260,080 MMBTU/yr/HRSG | BAAQMD Condition #18618, Part 2 | P/A | Records |

Table VII – CI
Applicable Limits and Compliance Monitoring Requirements
S4201 – DC CLEAN FUELS FLARE

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|--|-------------------|----------------|-----------------------|--|---|------------------------------|------------------------------|
| See Table VII – AN for additional requirements. | | | | | | | |
| Opacity | BAAQMD 6-1-301 | Y N | | Ringelmann No. 1 for no more than 3 minutes/hour | BAAQMD Condition # 18618 Part 15 | P/E | Visible emissions inspection |
| Opacity | SIP 6-301 | Y | | Ringelmann No. 1 for no more than 3 minutes/hour | BAAQMD Condition # 18618 Part 15 | P/E | Visible emissions inspection |
| FP | BAAQMD 6-1-310 | Y N | | 0.15 grain per dscf at 6% O ₂ | BAAQMD Condition # 18618 Part 15 | P/E | Visible emissions inspection |
| FP | SIP 6-310 | Y | | 0.15 grain per dscf at 6% O ₂ | BAAQMD Condition # 18618 Part 15 | P/E | Visible emissions inspection |
| VOC, HAP | | N | 12/4/03 | | BAAQMD Regulation 12-11-501 & 12-11-505 | P/E | Flow Rate |

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – CI
Applicable Limits and Compliance Monitoring Requirements
S4201 – DC CLEAN FUELS FLARE

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---------------------------------------|-----------------------------------|--------|-----------------------|--|--|------------------------------|--|
| | | N | 9/4/03 | | BAAQMD Regulation 12-11-502.1 & 12-11-505 | P/E | Composition |
| | | N | 3/4/04 | | BAAQMD Regulation 12-11-502.3 & 12-11-505 | P/E | Composition |
| | | N | | | BAAQMD Regulation 12-11-503 & 12-11-505 | P/C | Flame Detector |
| | | N | | | BAAQMD Regulation 12-11-504 & 12-11-505 | P/C | Purge Gas Flow Rate |
| | | N | 12/4/03 | | BAAQMD Regulation 12-11-507 | P/ | 1 frame per minute image video recording |
| NOx, CO, SO ₂ , PM and VOC | BAAQMD Condition #12271, Part A | Y | | Emissions from Clean Fuels Project sources shall not exceed 199.4 tpy NOx, 252.4 tpy CO, 139.7 tpy SO ₂ , 59.1 tpy PM, 132.0 tpy VOC, 20.8 ton/mon NOx, 26.3 ton/mon CO, 14.6 ton/mon SO ₂ , 6.2 ton/mon PM and 13.7 ton/mon VOC | BAAQMD Condition #12271, Part A, B, C, L and M | P/M and A | Calculation, records and reporting |
| VOC | BAAQMD Condition #12271, Part 61 | Y | | Flare shall have a VOC destruction efficiency of at least 98.5% by weight | None | N | None |
| Vent Gas Limit | BAAQMD Condition # 18618, Part 12 | Y | 12/01/04 | 2,000,000 lb/hr | BAAQMD Condition # 18618, Part 13 | P/E | Recordkeeping |
| SO ₂ | NSPS Subpart J 60.104(a)(1) | Y | | Fuel gas H ₂ S limited to 0.10 gr/dscf (162 ppm) except for gas burned as a result of process upset or gas burned at flares from relief valve leaks or other emergency malfunctions | NSPS Subpart J 60.105(a)(4) and 60.105(e)(3) | C | H ₂ S analyzer |

Facility Name: Shell Martinez Refinery, Shell Oil Products US
Permit for Facility #: A0011

VII. Applicable Limits and Compliance Monitoring Requirements

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – CJ
Applicable Limits and Compliance Monitoring Requirements
S4210 – COOLING WATER TOWER (CWT-13278)

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|---------------------------------|--------|-----------------------|--|--|------------------------------|--|
| See Table VII-A.I for additional requirements. | | | | | | | |
| NO _x , CO, SO ₂ , PM and VOC | BAAQMD Condition #12271, Part A | Y | | Emissions from Clean Fuels Project sources shall not exceed 199.4 tpy NO _x , 252.4 tpy CO, 139.7 tpy SO ₂ , 59.1 tpy PM, 132.0 tpy VOC, 20.8 ton/mon NO _x , 26.3 ton/mon CO, 14.6 ton/mon SO ₂ , 6.2 ton/mon PM and 13.7 ton/mon VOC | BAAQMD Condition #12271, Part A, B, C, L and M | P/M and A | Calculation, records and reporting |
| VOC | BAAQMD Condition 12271, Part 55 | Y | | Hydrocarbon reading above defined Action Level will trigger an alarm. | BAAQMD Condition # 12271 Part L, M and 55 | P/C | District-approved continuous hydrocarbon analyzer/recorder to determine hydrocarbon vapor concentration from cooling water |

TABLE VII – CK
APPLICABLE LIMITS AND COMPLIANCE MONITORING REQUIREMENTS
S4211 – DC V-13222 ISOM MAINTENANCE DROP OUT VESSEL,
S4212 – DC V-13441 ISOM MAINTENANCE DROP OUT VESSEL

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---------------|-------------------|--------|-----------------------|---|--|------------------------------|-----------------|
| VOC | BAAMQ 8-10-301 | Y | | Abatement of emissions from process vessel depressurization is required until pressure is reduced to less than 1000 mm Hg | BAAQMD 8-10-401.2 (SIP) and 8-10-501 & 502 (SIP) | P/E | Records |

VII. Applicable Limits and Compliance Monitoring Requirements

TABLE VII – CK
APPLICABLE LIMITS AND COMPLIANCE MONITORING REQUIREMENTS
S4211 – DC V-13222 ISOM MAINTENANCE DROP OUT VESSEL,
S4212 – DC V-13441 ISOM MAINTENANCE DROP OUT VESSEL

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---------------------------------------|--|--------|-----------------------|--|---|---|---|
| HAP | NESHAP Subpart FF 61.343(a)(1)(i)(A) and NESHAP Subpart CC 63.647(a) | Y | | VOC concentration shall not exceed 500 ppmv above background | NESHAP Subpart FF 61.343(c), 61.350, 61.355(h), 61.356(d), 61.356(h) and 61.357(d)(8) NESHAP Subpart CC 63.642(e), 63.642(f) and 63.642(i)(4) | P/Q-visual and A-measurements and reports | Visual inspections, portable HC detector (EPA Method 21) and records of detectable emissions, inspections and repairs |
| NOx, CO, SO ₂ , PM and VOC | BAAQMD Condition #12271, Part A | Y | | Emissions from Clean Fuels Project sources shall not exceed 199.4 tpy NOx, 252.4 tpy CO, 139.7 tpy SO ₂ , 59.1 tpy PM, 132.0 tpy VOC, 20.8 ton/mon NOx, 26.3 ton/mon CO, 14.6 ton/mon SO ₂ , 6.2 ton/mon PM and 13.7 ton/mon VOC | BAAQMD Condition #12271, Part A, B, C, L and M | P/M and A | Calculation, records and reporting |
| VOC | BAAMQD Condition # 12271 Part N | Y | | Any process depressurization shall be vented to a control device with an overall capture and destruction efficiency of 95% capture on a mass basis | BAAQMD 8-10-401 | P/E | Records |
| VOC | BAAQMD Condition #12271, Part 52 | Y | | MDO vessels shall be vapor tight (100 ppm, as methane) and vented to FGR or an incinerator with at least 98.5 % destruction efficiency by weight | None | N | None |

TABLE VII – CL
APPLICABLE LIMITS AND COMPLIANCE MONITORING REQUIREMENTS
S1802 - LOGV-1533 ODORANT STORAGE TANK
S4311 – DC V-12555 ISOM PERCHLOROETHYLENE VESSEL ,
S4329 – TANK 13260 PENTANE, S4330 – TANK 13261 PENTANE, S4349 - TANK 13262 PENTANE

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VII. Applicable Limits and Compliance Monitoring 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 8-10-301 | Y | | Abatement of emissions from process vessel depressurization is required until pressure is reduced to less than 1000 mm Hg | BAAQMD 8-10-401.2 (SIP) and 8-10-501 & 502 (SIP) | P/E | Records |
| VOC | BAAMQD Condition # 12271 Part N | Y | | Applies to S4311, S4329, and S4330 Any process depressurization shall be vented to a control device with an overall capture and destruction efficiency of 95% capture on a mass basis | BAAQMD 8-10-401 | P/E | Records |
| VOC | BAAQMD Condition #12271 Part 51 | Y | | Applies to S4311, S4329, and S4330 Tank cleaning VOC emissions shall be vented to a control device with 95% capture and destruction efficiency on a mass basis until concentration of organic compounds in tank is less than 10,000 ppm as methane | BAAQMD Regulation 8-5-404, 8-5-502.2 and 8-5-603 | P/A | Source Test |

Table VII – CM
Applicable Limits and Compliance Monitoring Requirements
~~S4311 – DC V 12555 ISOM PERCHLOROETHYLENE VESSEL, S4329 – TANK 13260 PENTANE, S4330 – TANK 13261 PENTANE, S4349 – TANK 13262 PENTANE~~

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|--|---------------------------------|--------|-----------------------|--|---------------------------------|------------------------------|-----------------|
| See Table VII-CL for additional requirements. | | | | | | | |
| VOC | BAAMQD Condition # 12271 Part N | Y | | Any process depressurization shall be vented to a control device with an overall capture and destruction efficiency of 95% capture on a mass basis | BAAQMD 8-10-401 | P/E | Records |

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII—CM
Applicable Limits and Compliance Monitoring Requirements
~~S4311—DC V 12555 ISOM PERCHLOROETHYLENE VESSEL,~~
~~S4329—TANK 13260 PENTANE, S4330—TANK 13261 PENTANE, S4349—TANK 13262 PENTANE~~

| 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 #12271, Part 51 | Y | | Tank cleaning VOC emissions shall be vented to a control device with 95% capture and destruction efficiency on a mass basis until concentration of organic compounds in tank is less than 10,000 ppm as methane | BAAQMD Regulation 8-5-404, 8-5-502.2 and 8-5-603.2 | P/A | Source Test |

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – CO
Applicable Limits and Compliance Monitoring Requirements
CLOSED VENT SYSTEMS & CONTROL DEVICES
S4319 – TANK 15096 RECOVERED OIL, S4350 – LOG TANK 13187 PROCESS WASTEWATER,
S4356 – LOG TANK 13188 PROCESS WASTEWATER

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---------------------------------------|------------------------------------|--------------|-----------------------|--|---|---|---|
| VOC | BAAQMD 8-5-328.1 | Y | | Tank cleaning control by liquid balancing in which the resulting organic liquid has a TVP is less than 0.5 psia | BAAQMD 8-5-501 | P/E | Records |
| VOC | BAAQMD 8-5-328.1 | Y | | Tank cleaning control device standards; includes 90% efficiency requirement | BAAQMD 8-5-331 , 8-5-502.2 and 8-5-603.2 | P/A | Annual source test using MOP, Vol. IV, ST-7 |
| VOC | NSPS Subpart Kb 60.112b (a)(3)(i) | Y | | Closed vent system leak tightness standards, VOC concentrations shall not exceed 500 ppmv above background. | 40 CFR 63.640(d)(5)) | N | None |
| VOC | NSPS Subpart Kb 60.112b (a)(3)(ii) | Y | | Control device standards; includes 95% efficiency requirement | 40 CFR 63.640(d)(5) | N | None |
| NOx, CO, SO ₂ , PM and VOC | BAAQMD Condition #12271, Part A | Y | | Emissions from Clean Fuels Project sources shall not exceed 199.4 tpy NOx, 252.4 tpy CO, 139.7 tpy SO ₂ , 59.1 tpy PM, 132.0 tpy VOC, 20.8 ton/mon NOx, 26.3 ton/mon CO, 14.6 ton/mon SO ₂ , 6.2 ton/mon PM and 13.7 ton/mon VOC | BAAQMD Condition #12271, Part A, B, C, L and M | P/M and A | Calculation, records and reporting |
| VOC | BAAQMD Condition #12271, Part 45 | Y | | Tank shall be kept leak free, less than 500 ppm above background as methane | NESHAP Subpart FF 61.350, 61.356(k) and 61.357(d)(8) and NESHAP Subpart CC 63.642(e), 63.642(f) and 63.654655(i)(45) | P/Q-visual and A-measurements and reports | Visual inspections, portable HC detector (EPA Method 21) and records of detectable emissions, inspections and repairs |

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – CO
Applicable Limits and Compliance Monitoring Requirements
CLOSED VENT SYSTEMS & CONTROL DEVICES
S4319 – TANK 15096 RECOVERED OIL, S4350 – LOG TANK 13187 PROCESS WASTEWATER,
S4356 – LOG TANK 13188 PROCESS WASTEWATER

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---------------|--|--------|-----------------------|---|--|---|--|
| VOC | BAAQMD Condition #12271, Part 51 | Y | | Tank cleaning VOC emissions shall be vented to a control device with 95% capture and destruction efficiency on a mass basis until concentration of organic compounds in tank is less than 10,000 ppm as methane | BAAQMD Regulation 8-5-404, 8-5-502, and 8-5-603-2 | P/A | Source Test |
| HAP | NESHAP Subpart FF 61.343(a)(1)(i)(A) and NESHAP Subpart CC 63.647(a) | Y | | VOC concentrations shall not exceed 500 ppmv above background | NESHAP Subpart FF 61.343(c), 61.350, 61.355(h), 61.356(d), 61.356(h) and 61.357(d)(8) and NESHAP Subpart CC 63.654655(i)(45) | P/Q-visual and A-measurements and reports | Visual inspections, portable HC detector (EPA Method 21) and records of detectable emissions, inspections and repairs |
| HAP | NESHAP Subpart FF 61.349(a)(1)(i) | Y | | Closed vent system leak tightness standards (< 500 ppmw - unless maintained under negative pressure) | NESHAP Subpart FF 61.355(h) and 61.356(h) and Subpart CC 63.640(d)(5) | P/A | Visual inspections, portable HC detector (EPA Method 21) and records of detectable emissions, inspections and repairs) |
| HAP | NESHAP Subpart FF 63.649(a)(2)(ii) | Y | | Abatement efficiency of at least 95% by weight | None | N | None |

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII—CQ
Applicable Limits and Compliance Monitoring Requirements
INTERNAL FLOATING ROOF TANKS
S4322—TANK 14571 SOUR WATER

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|--|----------------------------------|--------|-----------------------|--|---|------------------------------|------------------------------------|
| See Table VII—P for additional requirements. | | | | | | | |
| NO _x , CO, SO ₂ , PM and VOC | BAAQMD Condition #12271, Part A | Y | | Emissions from Clean Fuels Project sources shall not exceed 199.4 tpy NO _x , 252.4 tpy CO, 139.7 tpy SO ₂ , 59.1 tpy PM, 132.0 tpy VOC, 20.8 ton/mon NO _x , 26.3 ton/mon CO, 14.6 ton/mon SO ₂ , 6.2 ton/mon PM and 13.7 ton/mon VOC | BAAQMD Condition #12271, Part A, B, C, L and M | P/M and A | Calculation, records and reporting |
| VOC | BAAQMD Condition #12271, Part 51 | Y | | Tank cleaning VOC emissions shall be vented to a control device with 95% capture and destruction efficiency on a mass basis until concentration of organic compounds in tank is less than 10,000 ppm as methane | BAAQMD Regulation 8-5-404, 8-5-502.2, and 8-5-603.2 | P/A | Source Test |

Table VII—CR
Applicable Limits and Compliance Monitoring Requirements
CLOSED VENT SYSTEMS & CONTROL DEVICES
S4334—TANK 13276 ALKYLATE

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|--|---------------------------------|--------|-----------------------|--|--|------------------------------|------------------------------------|
| See Table VII—X for additional requirements. | | | | | | | |
| NO _x , CO, SO ₂ , PM and VOC | BAAQMD Condition #12271, Part A | Y | | Emissions from Clean Fuels Project sources shall not exceed 199.4 tpy NO _x , 252.4 tpy CO, 139.7 tpy SO ₂ , 59.1 tpy PM, 132.0 tpy VOC, 20.8 ton/mon NO _x , 26.3 ton/mon CO, 14.6 ton/mon SO ₂ , 6.2 ton/mon PM and 13.7 ton/mon VOC | BAAQMD Condition #12271, Part A, B, C, L and M | P/M and A | Calculation, records and reporting |

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – CR
Applicable Limits and Compliance Monitoring Requirements
CLOSED VENT SYSTEMS & CONTROL DEVICES
S4334 – TANK 13276 ALKYLATE

| 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 #12271, Part 45 | Y | | Tank shall be kept leak free, less than 500 ppm above background as methane | NESHAP Subpart FF 61.350, 61.356(k) and 61.357(d)(8) and NESHAP Subpart CC 63.642(e), 63.642(f) and 63.654(i)(4) | P/Q visual and A-measurements and reports | Visual inspections; portable HC detector (EPA Method 21) and records of detectable emissions, inspections and repairs |
| VOC | BAAQMD Condition #12271, Part 51 | Y | | Tank cleaning VOC emissions shall be vented to a control device with 95% capture and destruction efficiency on a mass basis until concentration of organic compounds in tank is less than 10,000 ppm as methane | BAAQMD Regulation 8.5.404, 8.5.502.2, and 8.5.603.2 | P/A | Source Test |

Table VII – CS
Applicable Limits and Compliance Monitoring Requirements
S4338- LOG PENTANE LOADING FACILITY

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---------------------------------------|---------------------------------|--------|-----------------------|--|--|------------------------------|------------------------------------|
| NOx, CO, SO ₂ , PM and VOC | BAAQMD Condition #12271, Part A | Y | | Emissions from Clean Fuels Project sources shall not exceed 199.4 tpy NOx, 252.4 tpy CO, 139.7 tpy SO ₂ , 59.1 tpy PM, 132.0 tpy VOC, 20.8 ton/mon NOx, 26.3 ton/mon CO, 14.6 ton/mon SO ₂ , 6.2 ton/mon PM and 13.7 ton/mon VOC | BAAQMD Condition #12271, Part A, B, C, L and M | P/M and A | Calculation, records and reporting |

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – CS
Applicable Limits and Compliance Monitoring Requirements
S4338- LOG PENTANE LOADING 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 Condition #12271, Part 74 | Y | | Emissions from loading operation shall be controlled by S1470 | None | N | None |

Table VII – CT
Applicable Limits and Compliance Monitoring Requirements
S5112 – LOG V-15112 MAIN PROTO VESSEL WITH NITROGEN BANKET,
S5113 – LOG V-15113 MAIN PROTO VESSEL WITH NITROGEN BLANKET,
S5114 – LOG V-15114 MAIN PROTO VESSEL WITH NITROGEN BLANKET,
S5125 – LOG V-15117 STANDBY PROTO VESSEL

| 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 8-5-328.1 | Y | | Tank cleaning control by liquid balancing in which the resulting organic liquid has a TVP is less than 0.5 psia | BAAQMD 8-5-501 | P/E | Records |
| VOC | BAAQMD 8-5-328.1 | Y N | | Tank cleaning control device standards; includes 90% efficiency requirement | BAAQMD 8-5-331 , 8-5-502, and 8-5-603,2 | P/A | Annual source test using MOP, Vol. IV, ST-7 |

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII - CTa
~~S5140~~ Diesel Engine, S6051 through ~~S6057, S6059, S6060~~S6060 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 | <u>BAAQMD</u> <u>6-1-303.1</u> | N | | > Ringelmann No. 2 for no more than 3 minutes in any hour | | N | |
| Opacity | <u>SIP</u> <u>6-303.1</u> | Y | | > Ringelmann No. 2 for no more than 3 minutes in any hour | | N | |
| FP | <u>BAAQMD</u> <u>6-1-310</u> | N | | 0.15 grain/dscf | | N | |
| FP | <u>SIP</u> <u>6-310</u> | Y | | 0.15 grain/dscf | | N | |
| Fuel Sulfur Content | <u>BAAQMD</u> <u>9-1-304</u> | Y | | 0.5% sulfur by weight | None | N | |
| Hours of Operation | <u>BAAQMD</u> <u>9-8-330</u> | N | | 20 hours/yr for maintenance and testing | <u>BAAQMD</u> <u>9-8-530</u> | C | Totalizing Counter |
| Hours of Operation | <u>BAAQMD</u> <u>9-8-330</u> | N | | 20 hours/yr for maintenance and testing | <u>BAAQMD</u> <u>9-8-520.1 & 9-8-530</u> | M | Records |
| Hours of Operation | <u>CCR, Title 17, Section 93115.6(b)(3)(A)(1)(a)</u> | N | | 20 hours/yr for maintenance and testing | <u>CCR, Title 17, Section 93115.10(e)(1)</u> | C | Totalizing Counter |
| Hours of Operation | <u>CCR, Title 17, Section 93115.6(b)(3)(A)(1)(a)</u> | N | | 20 hours/yr for maintenance and testing | <u>CCR, Title 17, Section 93115.10(g)</u> | M | Records |
| Hours of Operation | <u>BAAQMD</u> <u>Condition #22820, part 1</u> | N | | 20 hours/yr for maintenance and testing | <u>BAAQMD</u> <u>Condition #22820, part 3</u> | C | Totalizing Counter |

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII - CTa
~~S5140~~ Diesel Engine, S6051 through ~~S6057, S6059, S6060~~ S6060 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 |
|--------------------------------|---|--------|-----------------------|---|---|------------------------------|-------------------------|
| Hours of Operation | BAAQMD Condition #22820, part 1 | N | | 20 hours/yr for maintenance and testing | BAAQMD Condition #22820, part 4 | M | Records |
| Opacity | BAAQMD 6-1-301 | Y | | Ringelmann 1.0 for ≤ 3 minutes in any hour | Condition # 19097 Part 7 | P/1000 gal fuel oil | Visible Emissions Check |
| FP | BAAQMD 6-1-310 | Y | | 0.15 gr/dscf | Condition # 19097 Part 7 | P/1000 gal fuel oil | Visible Emissions Check |
| SO ₂ | BAAQMD 9-1-301 | Y | | GLC ⁺ of 0.5 ppm for 3 min or 0.25 ppm for 60 min or 0.05 ppm for 24 hours | | N | |
| | BAAQMD 9-1-304 | Y | | Sulfur Content of Fuel Oil ≤ 0.5 wt% | Condition # 19097 Part 6 | P/E | Fuel Oil Certification |
| Emergency | BAAQMD 9-8-330.1 & Condition # 19097 Part 1 | N | | | BAAMQD 9-8-530 & Condition # 19097 Part 5 | P/M | Records |
| Reliability Related Activities | BAAQMD 9-8-330.2 & Condition # 19097 Part 1 | N | | Hours of Reliability Related Activities ≤ 100/yr | BAAMQD 9-8-530 & Condition # 19097 Part 5 | P/M | Records |
| Reliability Related Activities | BAAQMD 9-8-330.3 | N | 1/1/2012 | Hours of Reliability Related Activities < 50/yr | BAAMQD 9-8-530 | P/M | Records |

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – CTb
Applicable Limits and Compliance Monitoring Requirements
S17095 – TANK 17095

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|--------------------------------|--------|-----------------------|-------------------------------------|---------------------------------|------------------------------|-----------------|
| See Table VII – R for additional requirements. | | | | | | | |
| VOC | BAAQMD Condition #20042 Part 1 | Y | | Throughput \leq 27,000,000 bbl/yr | BAAQMD Condition # 20042 Part 3 | P/M | Records |

Table VII – CU
Applicable Limits and Compliance Monitoring Requirements
SUBPART GGG EQUIPMENT AND COMPONENTS

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---------------|---|--------|-----------------------|--|---|------------------------------|--|
| VOC | NSPS Subpart VV 60.482-2 (b)(1) | Y | | Light liquid service pump leak \leq 10,000 ppm | NSPS Subpart VV 60.482-2 (a)(1), (c), 60.482-9(a), (b), (d) 60.485(a), (b) 60.486(a), (b), (c), (e) and 60.487(a) and (c) | P/M | Measure for leaks and repair |
| VOC | NSPS Subpart VV 60.482-3 (e)(2) and (f) | Y | | Compressor sensor shall detect failure of seal system, barrier fluid system, or both based on criterion established in 60.482-3(e)(2). | NSPS Subpart VV 60.482-3 (e)(1), (g), 60.482-9(a), (b), 60.486(a), (b), (c), (e) (h), and 60.487(a) and (c) | P/C or P/D | Sensor with audible alarm or checked daily. Repair system. |

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – CU
Applicable Limits and Compliance Monitoring Requirements
SUBPART GGG EQUIPMENT AND COMPONENTS

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---------------|---------------------------------|--------|-----------------------|--|--|------------------------------|---|
| VOC | NSPS Subpart VV 60.482-4(a) | Y | | Except during pressure release, pressure relief device (gas/vapor service) must operate at no detectable emissions (≤ 500 ppm) | NSPS Subpart VV 60.482-4 (b)(2), 60.482-9(a), (b), 60.485(a), (b), 60.486(a), (e) and 60.487(a) and (c) | P/E | Measure for leaks within 5 days after release using Method 21 |
| VOC | NSPS Subpart VV 60.482-4 (b)(1) | Y | | After each pressure release, pressure release device shall be returned to a condition of no detectable emissions (≤ 500 ppm) within 5 calendar days after pressure release | NSPS Subpart VV 60.482-4 (b)(2), 60.482-9(a), (b), 60.485(a), (b), 60.486(a), (e) and 60.487(a) and (c) | P/E | Measure for leaks within 5 days after release using Method 21 |
| VOC | NSPS Subpart VV 60.482-7(b) | Y | | Valve leak > 10,000 ppm | NSPS Subpart VV 60.482-7(a), (c), (d), (e), 60.482-9(a), (b), (c), (e), 60.483-2, 60.485 (a),(b), 60.486 (a), (b), (c), (e), (f) and 60.487(a) and (c) | P/M or Q | Measure for leaks and repair |

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – CU
Applicable Limits and Compliance Monitoring Requirements
SUBPART GGG EQUIPMENT AND COMPONENTS

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---------------|-----------------------------|--------|-----------------------|---|--|--|--|
| VOC | NSPS Subpart VV 60.482-8(b) | Y | | Pump and valves in heavy liquid service, pressure relief devices, flanges and other connector leak > 10,000 ppm | NSPS Subpart VV 60.482-8(a), (c), (d), 60.482-9(a), (b), (c), (d), (e), 60.483-2, 60.485(a), (b), 60.486(a), (b), (c), (e) and 60.487(a) and (c) | P/5 days if evidence of potential leak | Visual, audible, olfactory Inspection; Measure for leaks |
| VOC | NSPS Subpart VV 60.483-2(a) | Y | | Alternate standards for valves - allowable percentage of valves leaking is <2% or revert to standards in 60.482-7. After 2 consecutive quarterly leak detection periods within limits, allowed to skip 1 of quarterly detection period monitoring. After 5 consecutive quarters with <2% valves leaking may monitor annually. | NSPS Subpart VV 60.483-2(b), 60.485(a), (b), (d), (e), (f), 60.486 (a), (b), (c), (g), (j) and 60.487(a) and (c) | P/Q and A | Measure for leaks |

Table VII – CV
Applicable Limits and Compliance Monitoring Requirements
SUBPART CC MISCELLANEOUS PROCESS VENTS

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---------------|------------------------------|--------|-----------------------|---|---------------------------------|------------------------------|-----------------|
| HAP | MACT Subpart CC 63.643(a)(2) | Y | | 98% destruction efficiency of control device or 20ppmv at 3% O ₂ | MACT Subpart CC 63.640(d)(5) | N | None |

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – CW
Applicable Limits and Compliance Monitoring Requirements
SUBPART CC EQUIPMENT LEAKS FOR EQUIPMENT IN ORGANIC HAP SERVICE

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---------------|---------------------------------|--------|-----------------------|--|---|------------------------------|---|
| VOC | NSPS Subpart VV 60.482-2 (b)(1) | Y | | Light liquid service pump leak \leq 10,000 ppm | NSPS Subpart VV 60.482-2 (a)(1), (c), 60.482-9(a), (b), (d) 60.485(a), (b) 60.486(a), (b), (c), (e) and 60.487(a) and (c) MACT Subpart CC 63.648(h), 63.654655(d)(1), (i), 63.654655(e)(3), 63.654655(h)(1) and 63.654655(i)(4) | P/M | Measure for leaks and repair |
| VOC | NSPS Subpart VV 60.482-4(a) | Y | | Except during pressure release, pressure relief device (gas/vapor service) must operate at no detectable emissions (\leq 500 ppm) | NSPS Subpart VV 60.482-4 (b)(2), 60.482-9(a), (b), 60.485(a), (b), 60.486(a), (e) and 60.487(a) and (c) MACT Subpart CC 63.648(h), 63.654655(d)(1), (i), 63.654655(e)(3), 63.654655(h)(1) and 63.654655(i)(4) | P/E | Measure for leaks within 5 days after release using Method 21 |

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – CW
Applicable Limits and Compliance Monitoring Requirements
SUBPART CC EQUIPMENT LEAKS FOR EQUIPMENT IN ORGANIC HAP SERVICE

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---------------|---------------------------------|--------|-----------------------|--|--|------------------------------|---|
| VOC | NSPS Subpart VV 60.482-4 (b)(1) | Y | | After each pressure release, pressure release device shall be returned to a condition of no detectable emissions (≤ 500 ppm) within 5 calendar days after pressure release | NSPS Subpart VV 60.482-4 (b)(2), 60.482-9(a), (b), 60.485(a), (b), 60.486(a), (e) and 60.487(a) and (c) MACT Subpart CC 63.648(h), 63.654655(d)(1), (i), 63.654655(e)(3), 63.654655(h)(1) and 63.654655(i)(45) | P/E | Measure for leaks within 5 days after release using Method 21 |

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – CW
Applicable Limits and Compliance Monitoring Requirements
SUBPART CC EQUIPMENT LEAKS FOR EQUIPMENT IN ORGANIC HAP SERVICE

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---------------|-----------------------------|--------|-----------------------|-------------------------|---|------------------------------|------------------------------|
| VOC | NSPS Subpart VV 60.482-7(b) | Y | | Valve leak > 10,000 ppm | NSPS Subpart VV 60.482-7(a), (c), (d), (e), 60.482-9(a), (b), (c), (e), 60.483-2, 60.485 (a), (b), 60.486 (a), (b), (c), (e), (f) and 60.487(a) and (c) MACT Subpart CC 63.648(h), 63.654 655(d)(1), (i), 63.654 655(e)(3), 63.654 655(h)(1) and 63.654 655(i)(45) | P/M or Q | Measure for leaks and repair |

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – CW
Applicable Limits and Compliance Monitoring Requirements
SUBPART CC EQUIPMENT LEAKS FOR EQUIPMENT IN ORGANIC HAP SERVICE

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---------------|-----------------------------|--------|-----------------------|---|--|--|--|
| VOC | NSPS Subpart VV 60.482-8(b) | Y | | Pump and valves in heavy liquid service, pressure relief devices, flanges and other connector leak > 10,000 ppm | NSPS Subpart VV 60.482-8(a), (c), (d), 60.482-9(a), (b), (c), (d), (e), 60.483-2, 60.485(a), (b), 60.486(a), (b), (c), (e) and 60.487(a) and (c) MACT Subpart CC 63.648(h), 63.654655(d) (1) (i), 63.654655(e) (3), 63.654655(h) (1) and 63.654655(i)(45) | P/5 days if evidence of potential leak | Visual, audible, olfactory Inspection; Measure for leaks |

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – CW
Applicable Limits and Compliance Monitoring Requirements
SUBPART CC EQUIPMENT LEAKS FOR EQUIPMENT IN ORGANIC HAP SERVICE

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---------------|-----------------------------|--------|-----------------------|---|--|------------------------------|-------------------|
| VOC | NSPS Subpart VV 60.483-2(a) | Y | | Alternate standards for valves - allowable percentage of valves leaking is <2% or revert to standards in 60.482-7. After 2 consecutive quarterly leak detection periods within limits, allowed to skip 1 of quarterly detection period monitoring. After 5 consecutive quarters with <2% valves leaking may monitor annually. | NSPS Subpart VV 60.483-2(b), 60.485(a), (b), (d), (e), (f), 60.486(a), (b), (c), (g), (j) and 60.487(a) and (c) MACT Subpart CC 63.654655(d)(1), (i), 63.654655(e)(3), 63.654655(h)(1) and 63.654655(i)(45) | P/Q and A | Measure for leaks |

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – CX
Applicable Limits and Compliance Monitoring Requirements
SUBPART FF CONTAINERS

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---------------|---|--------|-----------------------|--|---|------------------------------|---|
| HAP | NESHAP Subpart FF 61.345(a)(1)(i) and MACT Subpart CC 63.647(a) | Y | | VOC concentrations shall not exceed 500 ppmv above background from containers used to handle, transfer or store waste. | NESHAP Subpart FF 61.345(a)(1)(i), 61.345(c), 61.350, 61.355(h), 61.356(a), (h), and 61.357(d)(6) and (8) and MACT Subpart CC 63.654(45)(a) and (i)(45) | P/A-measurements and reports | Visual inspections, portable HC detector (EPA Method 21) and records of detectable emissions, inspections and repairs |

Table VII – CY
Applicable Limits and Compliance Monitoring Requirements
FACILITY

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|------------------|-------------------|--------|-----------------------|--|---|------------------------------|-----------------|
| SO ₂ | BAAQMD 9-1-301 | Y | | Ground level concentrations < 0.5 ppm continuously for 3 consecutive minutes or < 0.25 ppm averaged over 60 minutes or < 0.05 ppm averaged over 24 hours | BAAQMD 9-1-501, 1-510, 1-530, 1-540, 1-542, 1-543 and 1-544 | C | Area Monitoring |
| H ₂ S | 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 – CY
Applicable Limits and Compliance Monitoring Requirements
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 8-15-305 | Y | | Manufacture and sale of liquid asphalt or emulsified asphalt that meet standard specifications | BAAQMD 8-15-501 | P/E | ASTM distillation methods D402 (liquid) or D244 (emulsified) and records |
| VOC | BAAQMD 8-16-118 | Y | | Limited exemption for solvent cleaners using compounds with low volatility (IBP>128 C and storage temperature and operating T ≥ IBP + 100C) | BAAQMD 8-16-501.2 and 8-16-501.5 | P/A | Records |
| VOC | BAAQMD 8-16-303.4.1 | Y | | Freeboard ratio ≥ 0.75 | None | P/E | Visual Inspection |
| VOC | BAAQMD 8-16-303.5 | Y | | VOC content ≤ <u>0.42 pounds per gallon</u> | BAAQMD 8-16-501.2 and 8-16-501.5 | P/A | Records |
| VOC | BAAQMD SIP 8-16-303.4.1 | Y | | Freeboard ratio ≥ 0.75 | None | P/E | Visual Inspection |
| VOC | BAAQMD 8-40-116.1 | Y | | Exempt from requirements of 8-40 if total volume of contaminated soil (50 ppmv) < 1 cubic yard | BAAQMD 8-40-604 | P/E | Sampling and analysis with EPA Method 21, Section 3 |
| VOC | BAAQMD 8-40-116.2 | Y | | Exempt from requirements of 8-40 if total volume of contaminated soil (50 ppmv) < 8 cubic yards and < 500 ppmw (provided exemption is not used more than once per 3 months) | BAAQMD 8-40-601.2 and 8-40-604 | P/E | Sampling and analysis with EPA Method 21, Section 3 |
| VOC | BAAQMD 8-40-306.4 | Y | | Within 45 days of excavation or within 90 days for organic content < 500 ppmw, cover, remove or treat soil | BAAQMD 8-40-601.3 or 8-40-601.4 and 8-40-604 | P/E | Sampling and analysis with EPA Method 21, Section 3 |
| Through-put | BAAQMD Condition #12271, Part 50 | Y | | Total volume of isom feed in all Clean Fuels Project storage tanks shall not exceed 100,000 barrels at any given time | BAAQMD Condition #12271, Part 50, L and M | P/D and M | Records and reporting |

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – CY
Applicable Limits and Compliance Monitoring Requirements
FACILITY

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---------------------|---|--------|-----------------------|---|--|------------------------------|--|
| HAP | NESHAP Subpart FF 61.342(e)(2) and MACT Subpart CC 63.654655(a) | Y | | National Emission Standard for Benzene Waste Operations, Manage and treat “aqueous” wastes such the “aqueous” wastes managed in uncontrolled systems do not exceed 6 Mg/hr (6.6 tons/yr) of benzene | NESHAP Subpart FF 61.355(a), (b), (c), (k), 61.356(a), and (b), 61.357(a), (d)(2), 61.357(d)(5), 61.357(d)(6), 61.357(d)(7), and 61.357(d)(8) and MACT Subpart CC 63.654655(i)(42) | P/A | Records and results from tests and inspections using methods and procedures specified in 61.355(k) |
| True Vapor Pressure | | | | | BAAQMD Condition # 20762 Part 1 | P/E | Sampling and analysis with EPA Method 28 or Table 1 of of Regulation 8-5 |

Table VII – CZ
Applicable Limits and Compliance Monitoring Requirements
S6061 – FLEXICOKER UNIT (FXU) TRANSLOADING

| 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 – CZ
Applicable Limits and Compliance Monitoring Requirements
S6061 – FLEXICOKER UNIT (FXU) TRANSLOADING

| 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 6-1-301 | Y N | | Ringelmann No. 1 for no more than 3 minutes/hour | BAAQMD Condition # 21671 Part 1 | P/A | Visible emissions inspection & Records. <u>Ensure that rail cars are equipped with the required filters.</u> |
| Opacity | <u>SIP 6-301</u> | Y | | <u>Ringelmann No. 1 for no more than 3 minutes/hour</u> | <u>BAAQMD Condition # 21671 Part 1</u> | <u>P/A</u> | <u>Visible emissions inspection & Records.</u> |
| FP | BAAQMD 6-1-310 | Y N | | 0.15 grain per dscf | BAAQMD Condition # 21671 Part 1 | P/A | Visible emissions inspection & Records. <u>Ensure that rail cars are equipped with the required filters.</u> |
| FP | <u>SIP 6-310</u> | Y | | <u>0.15 grain per dscf</u> | <u>BAAQMD Condition # 21671 Part 1</u> | <u>P/A</u> | <u>Visible emissions inspection & Records.</u> |
| FP | BAAQMD 6-1-311 | Y N | | 4.10 P ^{0.67} lb/hr particulate, where P is process weight rate in ton/hr | BAAQMD Condition # 21671 Part 1 | P/A | Visible emissions inspection & Records. <u>Ensure that rail cars are equipped with the required filters.</u> |

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – CZ
Applicable Limits and Compliance Monitoring Requirements
S6061 – FLEXICOKER UNIT (FXU) TRANSLOADING

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---------------|---------------------------------|--------|-----------------------|---|---------------------------------|------------------------------|---|
| FP | SIP 6-311 | Y | | 4.10 P ^{0.67} lb/hr particulate, where P is process weight rate in ton/hr | BAAQMD Condition # 21671 Part 1 | P/A | Visible emissions inspection & Records. |
| FP | BAAQMD Condition # 21671 Part 2 | Y | | transloading of flexicoker bed coke from hopper trucks into rail cars does not exceed 164,250 tons in any consecutive twelve-month period | BAAQMD Condition # 21671 Part 3 | NP/D | Records |

Table VII – DA
Applicable Limits and Compliance Monitoring Requirements
S2010 - LOG 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 |
|---------------|-------------------|--------|-----------------------|---|---------------------------------|------------------------------|-----------------------------------|
| VOC | BAAQMD 8-8-312 | N | | Vapor tight requirements for controlled wastewater collection system components | BAAQMD 8-8-505 8-8-603 | P/E | Records and Inspection Procedures |

Table VII - DB
Applicable Limits and Compliance Monitoring Requirements
S6068, ASPHALT TANK

| 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 - DB
Applicable Limits and Compliance Monitoring Requirements
S6068, ASPHALT TANK

| <u>Type of Limit</u> | <u>Citation of Limit</u> | <u>FE Y/N</u> | <u>Future Effective Date</u> | <u>Limit</u> | <u>Monitoring Requirement Citation</u> | <u>Monitoring Frequency (P/C/N)</u> | <u>Monitoring Type</u> |
|----------------------|---------------------------------|---------------|------------------------------|--|--|-------------------------------------|------------------------|
| Opacity | BAAQMD 6-1-301 | N | | Ringelmann No. 1 for no more than 3 minutes/hour | None | N | None |
| Opacity | SIP 6-301 | Y | | Ringelmann No. 1 for no more than 3 minutes/hour | None | N | None |
| Opacity | BAAQMD Condition #23605, Part 5 | Y | | Opacity < 0 percent, except for one consecutive 15-minute period in any 24-hour period when the transfer lines at S6068 are being blown for clearing. | BAAQMD Condition #23605, Part 7 | P/Q | Method 22 |
| Throughput | BAAQMD Condition #18618, Part 1 | N | | Daily throughput S21+S23+S24+S26+S497+S560+S561+S572+S573+S598+S815+S985+S1043+S1044+S1045+S1160+S6068 < 42,000 BPD Annual throughput < 15,330,000 BPY | BAAQMD Condition #18618, Part 2 | P/A | Records |
| Annual Throughput | BAAQMD Condition #23605, Part 1 | Y | | < 1,983,600 bbl in any consecutive 12-month period | BAAQMD Condition #23605, Part 8 | P/M | Records |
| Daily Throughput | BAAQMD Condition #23605, Part 2 | Y | | < 26,400 bpd @ 300F < 20,000 bpd @ 310F < 15,200 bpd @ 320F | BAAQMD Condition #23605, Part 8 | P/E | Records |

Table VII - DC
Applicable Limits and Compliance Monitoring Requirements
FIXED ROOF TANK
S568 – TANK 568

| <u>Type of Limit</u> | <u>Citation of Limit</u> | <u>FE Y/N</u> | <u>Future Effective Date</u> | <u>Limit</u> | <u>Monitoring Requirement Citation</u> | <u>Monitoring Frequency (P/C/N)</u> | <u>Monitoring Type</u> |
|----------------------|--------------------------|---------------|------------------------------|--------------|--|-------------------------------------|------------------------|
|----------------------|--------------------------|---------------|------------------------------|--------------|--|-------------------------------------|------------------------|

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII - DC
Applicable Limits and Compliance Monitoring Requirements
FIXED ROOF TANK
S568 – TANK 568

| <u>Type of Limit</u> | <u>Citation of Limit</u> | <u>FE Y/N</u> | <u>Future Effective Date</u> | <u>Limit</u> | <u>Monitoring Requirement Citation</u> | <u>Monitoring Frequency (P/C/N)</u> | <u>Monitoring Type</u> |
|----------------------|---------------------------------|---------------|------------------------------|---|--|-------------------------------------|------------------------|
| Through-put | BAAQMD Condition #18618, Part 1 | N | | Daily throughput S552+S553+S554+S555+S556+S557+S558+S559 +S567 + S568 < 10,650 BPD Annual throughput < 3,887,250 BPY | BAAQMD Condition #18618, Part 2 | P/A | Records |

Table VII – DD
Applicable Limits and Compliance Monitoring Requirements
Individual Drain Systems Subject 40 CFR Part 60, Subpart QQQ

| <u>Type of Limit</u> | <u>Citation of Limit</u> | <u>FE Y/N</u> | <u>Future Effective Date</u> | <u>Limit</u> | <u>Monitoring Requirement Citation</u> | <u>Monitoring Frequency (P/C/N)</u> | <u>Monitoring Type</u> |
|----------------------|--------------------------|---------------|------------------------------|--|--|-------------------------------------|-------------------------------|
| VOC | 60.692-2(a)(1) | Y | | Active drains: Maintain water seal | 60.692-2(a)(2) | P/M | Visual or Physical Inspection |
| VOC | 60.692-2(a)(1) | Y | | Inactive drains with water seals: Maintain water seal | 60.692-2(a)(3) | P/W | Visual or Physical Inspection |
| VOC | 60.692-2(a)(4) | Y | | Inactive drains with cap or plug: Cap or seal properly installed | 60.692-2(a)(4) | P/SA | Visual or Physical Inspection |
| VOC | 60.692-2(b)(2) | Y | | Junction boxes: Maintain sealed covers | 60.692-2(b)(3) | P/SA | Visual Inspection |
| VOC | 60.692-2(c)(1) | Y | | Unburied sewer lines: No visible gaps or cracks | 60.692-2(c)(2) | P/SA | Visual Inspection |

Table VII - DE
Applicable Limits and Compliance Monitoring Requirements
BIOTREATERS & BIOCLARIFIERS
S1467 (ETP 1), AND S5117 THROUGH S5119 (ETP 2)

VII. Applicable Limits and Compliance Monitoring Requirements

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---------------|--|--------|-----------------------|-------|---------------------------------|------------------------------|-----------------|
| None | BAAQMD Regulation 8-8 Organic Compounds—Wastewater Collection and Separation Systems (9/15/2004) Exempt per BAAQMD Regulation 8-8-113 | | | | | | |
| None | SIP Regulation 8-8 Organic Compounds—Wastewater (Oil-Water Separators) (8/29/1994) Exempt per SIP Regulation 8-8-113 | | | | | | |

Table VII – DF
Applicable Limits and Compliance Monitoring Requirements
S1466: LOG Wastewater Pond 8
S1468: LOG Wastewater Pond 6
S2014: Final ETP 1 & 2 Wastewater Equalization Ponds

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| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---------------|--|--------|-----------------------|---|--|------------------------------|--------------------------------|
| Benzene | 40 CFR Part 61.342(e)(2)(ii) | Y | | Total Benzene Quantity (TBO) Quantification for uncontrolled emissions during diversion | 40 CFR Part 61.355(k)(1) 61.356(b)(4) | P/E | Sampling / Records |
| None | BAAQMD Regulation 8-8 Organic Compounds—Wastewater Collection and Separation Systems (9/15/2004) Exempt per BAAQMD Regulation 8-8-113 | | | | | | |
| None | SIP Regulation 8-8 Organic Compounds—Wastewater (Oil-Water Separators) (8/29/1994) Exempt per SIP Regulation 8-8-113 | | | | | | |
| Bypasses | BAAQMD 8-8-114 | Y | | Amount, Duration, Date, Causes, Organic Compound Concentration | BAAQMD 8-8-601 & SIP 8-8-601 | P/E | MOP, Volume III, Lab Method 33 |

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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 |
|---------------------------|---|---|
| 6-1-301 | Ringelmann No. 1 Limitation | Manual of Procedures, Volume I, Evaluation of Visible Emissions; EPA Method 9 |
| 6-1-304 | Tube Cleaning | Manual of Procedures, Volume I, Evaluation of Visible Emissions |
| 6-1-310 | Particulate Weight Limitation | Manual of Procedures, Volume IV, ST-15 Particulate Sampling; or USEPA Method 5, Determination of Particulate Matter Emissions from Stationary Sources |
| 6-1-311 | General Operations | <u>Manual of Procedures, Volume IV, ST-15, Particulates Sampling U.S. EPA Method 5</u> |
| 8-2-301 | VOC Emission Limit for Miscellaneous Operations | <u>Manual of Procedures, Volume IV, ST-7 or EPA Method 25 or 25A</u> |
| BAAQMD Regulation 8-3-302 | VOC Limits | <u>Manual of Procedures, Volume III, Method 21, Determination of Compliance of Volatile Organic Compounds for Water Reducible Coatings or Manual of Procedures, Volume III, Method 22, Determination of Compliance of Volatile Organic Compounds for Solvent Based Coatings</u> |
| BAAQMD Regulation 8-3-304 | VOC Limits | <u>Manual of Procedures, Volume III, Method 21, Determination of Compliance of Volatile Organic Compounds for Water Reducible Coatings or</u> <u>Manual of Procedures, Volume III, Method 22, Determination of Compliance of Volatile Organic Compounds for Solvent Based Coatings</u> |
| BAAQMD 8-4-302 | Solvent and Surface Coating Requirements, VOC Emissions | <u>Manual of Procedures, Volume IV, ST-7, Organic Compounds; or EPA Method 25, Determination of Total Gaseous Nonmethane Organic Emissions as Carbon; or</u> <u>EPA Method 25A, Determination of Total Gaseous Nonmethane Organic Emissions Using a Flame Ionization Analyzer</u> |

VIII. Test Methods

Table VIII
Test Methods

| Applicable Requirement | Description of Requirement | Acceptable Test Methods |
|---|--|--|
| <u>BAAQMD 8-4-302.3</u> | <u>Surface Coating, VOC Content</u> | <u>Manual of Procedures, Volume III; Method 21, Determination of Compliance of Volatile Organic Compounds for Water Reducible Coatings; or</u> <u>Method 22, Determination of Compliance of Volatile Organic Compounds for Solvent Based Coatings</u> |
| <u>SIP 8-4-302</u> | <u>Solvent and Surface Coating Requirements, VOC Emissions</u> | <u>Manual of Procedures, Volume IV, ST-7, Organic Compounds; or</u> <u>EPA Method 25, Determination of Total Gaseous Nonmethane Organic Emissions as Carbon; or</u> <u>EPA Method 25A, Determination of Total Gaseous Nonmethane Organic Emissions Using a Flame Ionization Analyzer</u> |
| <u>8-5-301</u> | <u>Tank Emission Control System Requirements, 95% Abatement Efficiency</u> | <u>Manual of Procedures, Volume IV, ST-4</u> |
| <u>8-5-303.2</u> <u>8-5-306, and</u> <u>8-5-307</u> | <u>Gas Tight Requirements for Organic Liquid Storage Tanks</u> | <u>Organic compounds shall be measured using a portable gas detector as prescribed in EPA Reference Method 21 (60, Appendix A)</u> |
| <u>8-5-320</u> | <u>Floating Roof Tank (internal and external) tank fitting gap measurement</u> | <u>Physical measurements as described in BAAQMD 8-5-320 when required in BAAQMD 8-5-401 or BAAQMD 8-5-402.</u> |
| <u>8-5-321</u> | <u>Floating Roof Tank (internal and external) primary rim seal gap measurement</u> | <u>Physical measurements as described in BAAQMD 8-5-321 when required in BAAQMD 8-5-401 or BAAQMD 8-5-402.</u> |
| <u>8-5-322</u> | <u>Floating Roof Tank (internal and external) secondary rim seal gap measurement</u> | <u>Physical measurements as described in BAAQMD 8-5-322 when required in BAAQMD 8-5-401 or BAAQMD 8-5-402.</u> |
| <u>8-5-328.1.2</u> | <u>Tank Degassing Emission Control System Requirements</u> | <u>Manual of Procedures, Volume IV, ST-7</u> |
| <u>BAAQMD 8-5-601</u> | <u>Reid Vapor Pressure</u> | <u>Manual of Procedures, Volume III, Lab Method 13, Determination of the Reid Vapor Pressure of Petroleum Products</u> |
| <u>BAAQMD 8-5-602</u> | <u>True Vapor Pressure</u> | <u>Manual of Procedures, Volume III, Lab Method 28, Determination of Vapor Pressure of Organic Liquids from Storage Tanks</u> |
| <u>BAAQMD/SIP 8-5-601</u> | <u>Reid Vapor Pressure</u> | <u>Manual of Procedures, Volume III, Lab Method 13, Determination of the Reid Vapor Pressure of Petroleum Products</u> |

VIII. Test Methods

**Table VIII
 Test Methods**

| Applicable Requirement | Description of Requirement | Acceptable Test Methods |
|--------------------------------------|---|---|
| BAAQMD/SIP 8-5-602 | True Vapor Pressure | Manual of Procedures, Volume III, Lab Method 28, Determination of Vapor Pressure of Organic Liquids from Storage Tanks |
| BAAQMD 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 |
| BAAQMD 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 |
| BAAQMD Regulation 8-3-302 | VOC Limits | Manual of Procedures, Volume III, Method 21, Determination of Compliance of Volatile Organic Compounds for Water Reducible Coatings or Manual of Procedures, Volume III, Method 22, Determination of Compliance of Volatile Organic Compounds for Solvent Based Coatings |
| BAAQMD Regulation 8-3-304 | VOC Limits | Manual of Procedures, Volume III, Method 21, Determination of Compliance of Volatile Organic Compounds for Water Reducible Coatings or Manual of Procedures, Volume III, Method 22, Determination of Compliance of Volatile Organic Compounds for Solvent Based Coatings |
| BAAQMD 8-4-302 | Solvent and Surface Coating Requirements, VOC Emissions | Manual of Procedures, Volume IV, ST 7, Organic Compounds; or EPA Method 25, Determination of Total Gaseous Nonmethane Organic Emissions as Carbon; or EPA Method 25A, Determination of Total Gaseous Nonmethane Organic Emissions Using a Flame Ionization Analyzer |
| BAAQMD 8-4-302.3 | Surface Coating, VOC Content | Manual of Procedures, Volume III; Method 21, Determination of Compliance of Volatile Organic Compounds for Water Reducible Coatings; or Method 22, Determination of Compliance of Volatile Organic Compounds for Solvent Based Coatings |
| SIP 8-4-302 | Solvent and Surface Coating Requirements, VOC Emissions | Manual of Procedures, Volume IV, ST 7, Organic Compounds; or EPA Method 25, Determination of Total Gaseous Nonmethane Organic Emissions as Carbon; or EPA Method 25A, Determination of Total Gaseous Nonmethane Organic Emissions Using a Flame Ionization Analyzer |

VIII. Test Methods

**Table VIII
 Test Methods**

| Applicable Requirement | Description of Requirement | Acceptable Test Methods |
|--|---|---|
| <u>8-8-301.3, 8-8-302.3, 8-8-304, 8-8-305.2, 8-8-306.2, 8-8-307.2, and 8-8-602</u> | <u>Determination of Emissions</u> | <u>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).</u> |
| <u>8-8-301, 8-8-302, 8-8-303, 8-8-304, and 8-8-603</u> | <u>Inspection Procedures</u> | <u>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)</u> |
| <u>8-8-302.3</u> | <u>Oil-Water Separator Vapor Recovery System Requirements</u> | <u>Manual of Procedures, Volume IV, ST-7 or EPA Method 25 or 25A</u> |
| <u>8-8-307.2</u> | <u>Air Flotation Unit Vapor Recovery System Requirements</u> | <u>Manual of Procedures, Volume IV, ST-7 or EPA Method 25 or 25A</u> |
| 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 (40 CFR 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. |
| <u>8-8-602</u> | <u>Determination of Emissions</u> | <u>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).</u> |
| <u>8-8-603</u> | <u>Inspection Procedures</u> | <u>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 (40 CFR 60, Appendix A)</u> |
| <u>8-18</u> | <u>Fugitive Emission Monitoring Requirements</u> | <u>EPA Method 21</u> |

VIII. Test Methods

Table VIII
Test Methods

| Applicable Requirement | Description of Requirement | Acceptable Test Methods |
|--------------------------------------|--------------------------------|---|
| BAAQMD 8-19-302, 312 | Surface Coating, VOC Content | Manual of Procedures, Volume III; Method 21, Determination of Compliance of Volatile Organic Compounds for Water Reducible Coatings; or Method 22, Determination of Compliance of Volatile Organic Compounds for Solvent Based Coatings |
| BAAQMD 8-19-302, 312, 313 | Determination of VOC Emissions | Manual of Procedures, Volume IV, ST-7, Organic Compounds; or EPA Method 25, Determination of Total Gaseous Nonmethane Organic Emissions as Carbon; or EPA Method 25A, Determination of Total Gaseous Nonmethane Organic Emissions Using a Flame Ionization Analyzer |
| BAAQMD 8-31-302, 306, 309 | Surface Coating, VOC Content | Manual of Procedures, Volume III; Method 21, Determination of Compliance of Volatile Organic Compounds for Water Reducible Coatings; or Method 22, Determination of Compliance of Volatile Organic Compounds for Solvent Based Coatings |
| BAAQMD 8-31-302, 306, 309, 310 | Determination of VOC Emissions | Manual of Procedures, Volume IV, ST-7, Organic Compounds; or EPA Method 25, Determination of Total Gaseous Nonmethane Organic Emissions as Carbon; or EPA Method 25A, Determination of Total Gaseous Nonmethane Organic Emissions Using a Flame Ionization Analyzer |
| BAAQMD 8-32-302 | Surface Coating, VOC Content | Manual of Procedures, Volume III; Method 21, Determination of Compliance of Volatile Organic Compounds for Water Reducible Coatings; or Method 22, Determination of Compliance of Volatile Organic Compounds for Solvent Based Coatings |
| BAAQMD 8-32-302 | Determination of VOC Emissions | Manual of Procedures, Volume IV, ST-7, Organic Compounds; or EPA Method 25, Determination of Total Gaseous Nonmethane Organic Emissions as Carbon; or EPA Method 25A, Determination of Total Gaseous Nonmethane Organic Emissions Using a Flame Ionization Analyzer |

VIII. Test Methods

**Table VIII
 Test Methods**

| Applicable Requirement | Description of Requirement | Acceptable Test Methods |
|--------------------------------------|--|---|
| <u>8-44-304.1</u> | <u>POC emission rate limitation during marine tank vessel loading</u> | <u>Manual of Procedures, ST-34, Bulk Marine Loading Terminals, Vapor Recovery Units or EPA Method 25, Determination of Total Gaseous Nonmethane Organic Emissions , or EPA Method 25A, Determination of Total Gaseous Organic Concentration Using a Flame Ionization Analyzer, or alternate method approved in writing by the APCO and U.S. EPA</u> |
| <u>8-44-305</u> | <u>Tank vessel is leak free and gas tight</u> | <u>EPA Method 21, Determination of Volatile Organic Compounds Leaks</u> |
| <u>8-44-603</u> | <u>Leak Tests and Gas Tight Determinations</u> | <u>EPA Method 21, Determination of Volatile Organic Compounds Leaks</u> |
| <u>8-44-604</u> | <u>Flash Point Determinations</u> | <u>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.</u> |
| BAAQMD 8-44-304 | POC emission rate limitation during vessel loading | ST 34, Bulk and Marine Loading Terminals, Vapor Recovery Units |
| BAAQMD 8-44-304.1 | Tank vessel is leak free and gas tight | EPA Method 21 |
| 9-1-304 | Fuel Burning (Liquid and Solid Fuels) | Manual of Procedures, Volume III, Method 10, Determination of Sulfur in Fuel Oils. |
| 9-1-301, 9-2-301, 9-1-604 | Ground Level Monitoring | Manual of Procedures, Volume VI, Section 1, Area Monitoring |
| 9-1-304 | Fuel Burning (Liquid and Solid Fuels) | Manual of Procedures, Volume III, Method 10, Determination of Sulfur in Fuel Oils. |
| 9-1-313 | NH3 and H2S abatement efficiency | Manual of Procedures, Volume III, Lab 32, Determination of H2S in Process Water Streams Manual of Procedures, Volume III, Lab 1, Determination of NH3 in Effluents |
| 9-1-501, 9-1-502, 9-2-501 | Continuous Monitoring | Manual of Procedures, Volume 5, Continuous Monitoring |
| BAAQMD 9-8-301.1 | NOx Limits for Rich Burn Engines Burning Exclusively Fossil Fuel Derived Fuel Gas | Manual of Procedures, Volume IV, ST 13A, Oxides of Nitrogen, Continuous Sampling and ST 14, Oxygen, Continuous Sampling |

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**Table VIII
 Test Methods**

| Applicable Requirement | Description of Requirement | Acceptable Test Methods |
|-------------------------------|---|---|
| BAAQMD 9-8-301.2 | NO_x Limits for Lean Burn Engines Burning Exclusively Fossil Fuel Derived Fuel Gas | Manual of Procedures, Volume IV, ST-13A, Oxides of Nitrogen, Continuous Sampling and ST-14, Oxygen, Continuous Sampling |
| BAAQMD 9-8-301.3 | CO Limits for Engines Burning Exclusively Fossil Fuel Derived Fuel Gas | Manual of Procedures, Volume IV, ST-6, Carbon Monoxide, Continuous Sampling and ST-14, Oxygen, Continuous Sampling |
| BAAQMD 9-9-301.1.1 | Emission Limits- Turbines Rated < 10 MW | Manual of Procedures, Volume IV, ST-13A, Oxides of Nitrogen, Continuous Sampling and ST-14, Oxygen, Continuous Sampling |
| BAAQMD 9-9-301.1.2 | Emission Limits- Turbines Rated > 10 MW without SCR | Manual of Procedures, Volume IV, ST-13A, Oxides of Nitrogen, Continuous Sampling and ST-14, Oxygen, Continuous Sampling |
| BAAQMD 9-9-301.1.3 | Emission Limits- Turbines Rated > 10 MW with SCR | Manual of Procedures, Volume IV, ST-13A, Oxides of Nitrogen, Continuous Sampling and ST-14, Oxygen, Continuous Sampling |
| BAAQMD 9-9-503.2 | Deadline for Demonstration of Compliance with §9-9-301 | Manual of Procedures, Volume IV, ST-13A, Oxides of Nitrogen, Continuous Sampling and ST-14, Oxygen, Continuous Sampling |
| 9-10-301 | <u>Refinery-Wide NO_x Emission Limit</u> | <u>Manual of Procedures, Volume V and Manual of Procedures, Volume IV, ST-13A or B (nitrogen oxides) and ST-14 (oxygen)</u> |
| 9-10-303 | <u>NO_x Emission Limit</u> | <u>Manual of Procedures, Volume V and Manual of Procedures, Volume IV, ST-13A or B (nitrogen oxides) and ST-14 (oxygen)</u> |
| 9-10-305 | <u>CO Emission Limit</u> | <u>Manual of Procedures, Volume V and Manual of Procedures, Volume IV, ST-6 (carbon monoxide) for CEM verification by source test</u> |
| <u>SIP Regulations</u> | | |
| 6-301 | <u>Ringelmann No. 1 Limitation</u> | <u>Manual of Procedures, Volume I, Evaluation of Visible Emissions; EPA Method 9</u> |
| 6-304 | <u>Tube Cleaning</u> | <u>Manual of Procedures, Volume I, Evaluation of Visible Emissions</u> |
| 6-310 | <u>Particulate Weight Limitation</u> | <u>Manual of Procedures, Volume IV, ST-15, Particulates Sampling U.S. EPA Method 5</u> |

VIII. Test Methods

Table VIII
Test Methods

| Applicable Requirement | Description of Requirement | Acceptable Test Methods |
|--|---|---|
| 6-311 | <u>General Operations</u> | <u>Manual of Procedures, Volume IV, ST-15, Particulates Sampling</u> <u>U.S. EPA Method 5</u> |
| 8-5-601 | <u>Reid Vapor Pressure</u> | <u>Manual of Procedures, Volume III, Lab Method 13,</u> <u>Determination of the Reid Vapor Pressure of Petroleum Products</u> |
| 8-5-602 | <u>True Vapor Pressure</u> | <u>Manual of Procedures, Volume III, Lab Method 28,</u> <u>Determination of Vapor Pressure of Organic Liquids from Storage</u> <u>Tanks</u> |
| 8-44-301.1 8-44-301.2 | <u>POC emission rate limitation</u> <u>during marine tank vessel</u> <u>loading</u> | <u>Manual of Procedures, ST-34, Bulk Marine Loading Terminals,</u> <u>Vapor Recovery Units</u> |
| 8-44-303 | <u>Tank vessel is leak free and gas</u> <u>tight</u> | <u>EPA Method 21, Determination of Volatile Organic Compounds</u> <u>Leaks</u> |
| 8-44-603 | <u>Leak Tests and Gas Tight</u> <u>Determinations</u> | <u>EPA Method 21, Determination of Volatile Organic Compounds</u> <u>Leaks</u> |
| 40 CFR 60, Subpart A | <u>New Source Performance</u> <u>Standards – General Provisions</u> <u>(12/23/71)</u> | |
| 60.18(c)(1) | <u>Visible emission monitoring</u> | <u>EPA Method 22: Visible Emissions</u> |
| 40 CFR 60, Appendix A | <u>Inspection Procedures</u> | <u>EPA Reference Method 21</u> |
| 40 CFR 60, Subpart Db | <u>Standards of Performance for</u> <u>Industrial-Commercial-</u> <u>Institutional Steam Generating</u> <u>Units (3/13/00)</u> | |
| 60.44b(a) 60.44b(e) | <u>NO_x Emission Limit</u> | <u>40 CFR 60, Appendix B, Performance Specification 2</u> |
| 40 CFR 60, Subpart J | <u>Standards of Performance for</u> <u>Petroleum Refineries (7/1/00)</u> | |
| 60.104(a)(1) | <u>Fuel Gas H₂S Concentration</u> <u>Limit</u> | <u>40 CFR 60, Appendix B, Performance Specification 7 and</u> <u>Method 11 for Relative Accuracy</u> |

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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 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 Method 3A, Determination of Oxygen and Carbon Dioxide Concentrations in Emissions From Stationary Sources (Instrumental Analyzer Procedure), and 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(e) | H2S concentration monitoring | EPA Method 11: H2S |
| 60.106(f)(1) | SO2 concentration monitoring | EPA Method 6: SO2 |
| 60.106(f)(2) | TRS concentration monitoring | EPA Method 15: Total Reduced Sulfur |
| 60.106(f)(3) | H2S concentration monitoring | EPA Method 3: O2 |
| 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 |

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**Table VIII
 Test Methods**

| Applicable Requirement | Description of Requirement | Acceptable Test Methods |
|-------------------------------|---|--|
| 60.332 (a)(2) | Performance Standard, NO _x | <u>EPA Method 20, Determination of Nitrogen Oxides, Sulfur Dioxide, and Diluent Emissions from Stationary Gas Turbines</u> |
| 60.333 (a) | SO ₂ Volumetric Emission Limit | <u>EPA Method 20, Determination of Nitrogen Oxides, Sulfur Dioxide, and Diluent Emissions from Stationary Gas Turbines</u> |
| 60.333 (b) | Fuel Sulfur Limit (gaseous fuel) | <u>ASTM D 1072-80, Standard Method for Total Sulfur in Fuel Gases</u> <u>ASTM D 3031-81, Standard Test Method for Total Sulfur in Natural Gas by Hydrogenation</u> <u>ASTM D 4084-82, Standard Method for Analysis of Hydrogen Sulfide in Gaseous Fuels (Lead Acetate Reaction Rate Method)</u> <u>ASTM D 3246-81, Standard Method for Sulfur in Petroleum Gas by Oxidative Microcoulometry</u> |
| 60.333 (b) | Fuel Sulfur Limit (liquid fuel) | <u>ASTM D 2880-71, Standard Specification for Gas Turbine Fuel Oils</u> |
| 60, Appendix A | Inspection Procedures | <u>EPA Reference Method 21</u> |
| 40 CFR 60, Subpart VV | <u>Standards of Performance for Equipment Leaks of VOC in SOCFI</u> | |
| 60.482-2(b)(1) | <u>Pumps in light liquid service – leak detection</u> | <u>40 CFR 60, Appendix A, Method 21 as specified in 60 Subpart VV 60.485(b)</u> |
| 60.482-2(e) | <u>Pumps in light liquid service and designated for “no detectable emission” – leak detection</u> | <u>40 CFR 60, Appendix A, Method 21 as specified in 60 Subpart VV 60.485(c)</u> |
| 60.482-3 | <u>Compressors designated for “no detectable emission” – leak detection</u> | <u>40 CFR 60, Appendix A, Method 21 as specified in 60 Subpart VV 60.485(c)</u> |
| 60.482-4(b) | <u>Pressure relief valve (gas/vapor) no detectable emissions after a pressure release event.</u> | <u>40 CFR 60, Appendix A, Method 21 as specified in 60 Subpart VV 60.485(c)</u> |
| 60.482-7(b) | <u>Valves in gas/vapor service and in light liquid service – leak detection.</u> | <u>40 CFR 60, Appendix A, Method 21 as specified in 60 Subpart VV 60.485(b)</u> |
| 60.482-7(f) | <u>Valves in gas/vapor service and in light liquid service and designated for “no detectable emission” – leak detection</u> | <u>40 CFR 60, Appendix A, Method 21 as specified in 60 Subpart VV 60.485(c)</u> |

VIII. Test Methods

**Table VIII
 Test Methods**

| Applicable Requirement | Description of Requirement | Acceptable Test Methods |
|-------------------------------|--|---|
| <u>60.482-7(h)</u> | <u>Valves in gas/vapor service and in light liquid service and designated as difficult-to-monitor.</u> | <u>40 CFR 60, Appendix A, Method 21 once per year in accordance with written plan (60.482-7(h)(3))</u> |
| <u>60.482-8(b)</u> | <u>Pumps and valves in heavy liquid service, pressure relief devices (liquid), and flanges and other connectors – leak detection</u> | <u>40 CFR 60, Appendix A, Method 21 as specified in 60 Subpart VV 60.485(b)</u> |
| <u>60.483-2</u> | <u>Individual valves meeting criteria for skip period leak detection – leak detection</u> | <u>40 CFR 60, Appendix A, Method 21 as specified in 60 Subpart VV 60.485(b)</u> |
| 40 CFR 60, Subpart QQQ | <u>Standards of Performance For Petroleum Refinery Wastewater Systems</u> | |
| <u>60.696</u> | <u>Performance test methods and procedures and compliance provisions</u> | <u>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.</u> |
| <u>60.696</u> | <u>Leak inspection procedures</u> | <u>EPA reference method 21 (40 CFR 60, Appendix A), Determination of Volatile Organic Compound Leaks</u> |
| 40 CFR 61, Subpart FF | | |
| <u>61.343(a)(1)(i)(A)</u> | <u>No detectable emissions over 500 ppmv</u> | <u>40 CFR 60, Appendix A, Method 21 as specified in 40 CFR 61, Subpart FF 61.355(h)</u> |
| <u>61.349(a)(1)(i)</u> | <u>Leak inspection procedures</u> | <u>61 Subpart FF, 61.355(h); EPA reference method 21 (40 CFR 60, Appendix A), Determination of Volatile Organic Compound Leaks</u> |
| <u>61.354 (f)</u> | <u>Visual Inspection</u> | <u>61 Subpart FF, 61.354(f)</u> |

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**Table VIII
 Test Methods**

| Applicable Requirement | Description of Requirement | Acceptable Test Methods |
|---|--|--|
| <u>40 CFR 63, Subpart A, Section 63.11 (b) 40 CFR 63, Subpart UUU, Table 18</u> | <u>Opacity Limit</u> | <u>EPA Method 22, Visible Emissions</u> |
| <u>40 CFR 63, Subpart CC</u> | <u>National Emissions Standards for Hazardous Air Pollutants from Petroleum Refineries – General Standards</u> | |
| <u>63.646(a) 63.120(b)(3) 63.120(b)(5)</u> | <u>Refinery MACT (63 Subpart CC) Group 1 external floating roof tanks primary rim-seal gap measurement</u> | <u>40 CFR 63, Subpart G 60.120(b)(1) and 60.120(b)(2) Procedures to Determine Compliance</u> |
| <u>63.646(a) 63.120(b)(4) 63.120(b)(6)</u> | <u>Refinery MACT (63 Subpart CC) Group 1 external floating roof tanks secondary rim-seal gap measurement</u> | <u>40 CFR 63, Subpart G 60.120(b)(1) and 60.120(b)(2) Procedures to Determine Compliance</u> |
| <u>40 CFR 63, Subpart VV</u> | <u>National Emissions Standards for Oil-Water Separators and Organic-Water Separators</u> | |
| <u>63.1046</u> | <u>Test methods, procedures</u> | <u>Method 21 of 40 CFR part 60, appendix A. Acceptable floating roof seal gap criteria included.</u> |
| <u>California Air Resources Board (CARB)</u> | | |
| <u>BAAQMD Condition 21593, Part 2</u> | <u>Gasoline dispensing facility leak test</u> | <u>CARB Test Procedure TP201.1B: “Rotatable Adaptor Torque Test”</u> |

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VIII. Test Methods

**Table VIII
Test Methods**

| Applicable Requirement | Description of Requirement | Acceptable Test Methods |
|---------------------------------------|---|---|
| <u>BAAQMD Condition 21593, Part 2</u> | <u>Gasoline dispensing facility leak test</u> | <u>CARB Test Procedure TP201.1C: "Drop Tube/Drain Valve Assembly"</u> |
| <u>BAAQMD Condition 21593, Part 2</u> | <u>Gasoline dispensing facility leak test</u> | <u>CARB Test Procedure TP201.1D: "Drop Tube Overfill Prevention Device and Spill Container Drain Valve Leak Test"</u> |

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
S1431 – CP SULFUR PLANT 1 (SRU1)
S1432 – CP SULFUR PLANT 2 (SRU2)
S1765 – OPCEN SULFUR PLANT 3 (SRU3)
S4180 – OPCEN SULFUR PLANT 4 (SRU4)

| Citation | Title or Description (Reason not applicable) |
|-------------------|--|
| BAAQMD 9-1-304 | Inorganic Gaseous Pollutants – Sulfur Dioxide, Fuel Burning (Liquid and Solid Fuel) (Sulfur plants – SRU 1 through SRU 4 are exempt from the fuel burning sulfur standard per BAAQMD Regulation 9-1-304.1, because they manufacture sulfur compounds.) |

Table IX A —1a
Permit Shield for Non-applicable Requirements
S1765 – OPCEN SULFUR PLANT 3 (SRU3)
S4180 – OPCEN SULFUR PLANT 4 (SRU4)

| Citation | Title or Description (Reason not applicable) |
|--|---|
| 40 CFR 63 Subpart UUU 63.1568(b)(2) and 63.1571 | Initial performance test for Subpart UUU initial compliance demonstration (40 CFR 63 Subpart UUU 63.1568(b)(2) and 63.1571 do not apply to sulfur plants —SRU 3 and SRU 4, because initial performance source tests have already been completed for these sources.) |

IX. Permit Shield

Table IX A - 2
Permit Shield for Non-applicable Requirements
S1470 – LOP LPG LOADING FLARE
A101 – FLARE FOR VINE HILL VAPOR RECOVERY SYSTEM
A102 – FLARE FOR CRUDE STRING VAPOR RECOVERY SYSTEM
A103 – FLARE FOR INTERIM GASOLINE VAPOR RECOVERY SYSTEM

| Citation | Title or Description (Reason not applicable) |
|-------------------------------|---|
| BAAQMD Regulation 12, Rule 11 | Miscellaneous Standards of Performance – Flare Monitoring at Petroleum Refineries (Per BAAQMD Regulation 12-11-110, the provisions of BAAQMD Regulation 12, Rule 11 do not apply to flares or thermal oxidizers used to control emissions exclusively from organic liquid storage vessels subject to BAAQMD Regulation 8, Rule 5 or exclusively from loading racks subject to BAAQMD Regulation 8 Rules 6, 33, or 39. Flares A101, A102, and A103 serve organic liquid storage vessels subject to BAAQMD Regulation 8, Rule 5 and are therefore exempt from BAAQMD Regulation 12, Rule 11. <u>The LPG loading rack (S4338) abated by the LOG LPG Flare (S1470) is subject to Regulation 8, Rule 6. Therefore, S1470 is exempt from BAAQMD Regulation 12, Rule 11</u>) |

Table IX A - 4
Permit Shield for Non-applicable Requirements
A1501 – F-56 BACKUP THERMAL OXIDIZER FOR SULFUR PLANTS 1 AND 2
A1517 - F-77 PRIMARY THERMAL OXIDIZER FOR SULFUR PLANTS 1 AND 2
S3000 – PORTABLE VACUUM DISTILLATION UNIT (CCR TECHNOLOGIES INC.)

| Citation | Title or Description (Reason not applicable) |
|-----------------------------------|---|
| 40 CFR 60, Subpart J 60.104(a)(1) | Standards of Performance for Petroleum Refineries (40 CFR 60, Subpart J 60.104(a)(1) does not apply to A1501, A1517, and S3000 because <u>they only combust only natural gas, which is not combined in any proportion with a gas generated at the refinery. In other words, the natural gas combusted at the above sources does not meet the definition of fuel gas in 60.101(d) and not refinery fuel gas.</u>) |

IX. Permit Shield

**Table IX A - 5
 Permit Shield for Non-applicable Requirements
 S1759 – OPCENFLEXICOKER (FXU)
 S4001 – DC DELAYED COKING UNIT (DCU)**

| Citation | Title or Description (Reason not applicable) |
|-------------------|--|
| BAAQMD 1-520.6 | General Provisions and Definitions, Continuous Emission Monitoring for SO2 and opacity from fluid cokers (BAAQMD Regulation 1-520.6 does not apply to S1759 and S4001, because these sources are not fluid cokers.) |
| BAAQMD 1-522 | General Provisions and Definitions, Continuous Emission Monitoring and Recordkeeping Procedures (BAAQMD Regulation 1-522 does not apply to S1759 and S4001, because these sources are not fluid cokers.) |
| BAAQMD 9-1-310 | Inorganic Gaseous Pollutants – Sulfur Dioxide, Emission Limitations for Fluid Catalytic Cracking Units, Fluid Cokers, and Coke Calcining Kilns (BAAQMD Regulation 9-1-310 does not to S1759 and S4001, because these sources are not fluid catalytic cracking units, fluid cokers or coke calcining kilns.) |

**Table IX A – 6
 Permit Shield for Non-applicable Requirements
 S2001, 2002, 2003 AND 2004
 LOG MARINE LOADING BERTHS 1, 2, 3 AND 4**

| Citation | Title or Description (Reason not applicable) |
|------------------------------|---|
| BAAQMD Regulation 8-46 | Organic Compounds – Marine Tank Vessel to Marine Tank Vessel Loading (BAAQMD Regulation 8, Rule 46 does not apply to sources S2001 through S2004, because marine tank vessel to marine tank vessel loading is not performed) |

IX. Permit Shield

Table IX A - 7
Permit Shield for Non-applicable Requirements
S4191 – UTIL BOILER 6 SUPPLEMENTAL STEAM GENERATOR 1
S4193 – UTIL BOILER 6 SUPPLEMENTAL STEAM GENERATOR 2

| Citation | Title or Description (Reason not applicable) |
|---------------------|---|
| BAAQMD 9, Rule 9 | Inorganic Gaseous Pollutants – Nitrogen Oxides from Stationary Gas Turbines (BAAQMD Regulation 9, Rule 9 does not apply to sources S4191 and S4193, because steam generators are not gas turbines. <u>Though not explicitly subject to the requirements in Regulation 9, Rule 9, the combined emissions emanating from each cogen pair, consisting of a gas turbine & steam generator, would have to demonstrate ongoing compliance with the emission limitations and requirements that are applicable to the gas turbines in the above rule per Regulation 1-107.</u>) |

Table IX A - 8
Permit Shield for Non-applicable Requirements
SECONDARY WASTEWATER TREATMENT PROCESSES AND STORMWATER
SEWER SYSTEMS CITED UNDER TABLE'S IV-DZ & EA EXEMPT PER
REGULATION 8-8-113

| Citation | Title or Description (Reason not applicable) |
|-------------------|--|
| BAAQMD 8-8-301 | Organic Compounds - Wastewater (Oil-Water) Separators, Wastewater Separators Greater than 760 Liters per Day and Smaller than 18.9 Liters per Second (BAAQMD Regulation 8-8-301 does not apply to the secondary wastewater treatment processes and stormwater sewer systems per BAAQMD Regulation 8-8-113, because the secondary wastewater treatment processes or stormwater sewer systems, as defined in Sections 8-8-208 and 8-8-216, are used as a wastewater polishing step or for collection of storm water that is segregated from the process wastewater collection system.) |
| BAAQMD 8-8-302 | Organic Compounds - Wastewater (Oil-Water) Separators, Wastewater Separators Larger than or Equal to 18.9 Liters per Second (BAAQMD Regulation 8-8-302 does not apply to the secondary wastewater treatment processes and stormwater sewer systems per BAAQMD Regulation 8-8-113, because the secondary wastewater treatment processes or stormwater sewer systems, as defined in Sections 8-8-208 and 8-8-216, are used as a wastewater polishing step or for collection of storm water that is segregated from the process wastewater collection system.) |

IX. Permit Shield

Table IX A - 8
Permit Shield for Non-applicable Requirements
SECONDARY WASTEWATER TREATMENT PROCESSES AND STORMWATER
SEWER SYSTEMS CITED UNDER TABLE'S IV-DZ & EA EXEMPT PER
REGULATION 8-8-113

| Citation | Title or Description (Reason not applicable) |
|-------------------|--|
| BAAQMD 8-8-306 | Organic Compounds - Wastewater (Oil-Water) Separators, Oil-Water Separator Effluent Channel, Pond, Trench, or Basin (BAAQMD Regulation 8-8-306 does not apply to the secondary wastewater treatment processes and stormwater sewer systems per BAAQMD Regulation 8-8-113, because the secondary wastewater treatment processes or stormwater sewer systems, as defined in Sections 8-8-208 and 8-8-216, are used as a wastewater polishing step or for collection of storm water that is segregated from the process wastewater collection system.) |
| BAAQMD 8-8-308 | Organic Compounds - Wastewater (Oil-Water) Separators, Junction Boxes (BAAQMD Regulation 8-8-308 does not apply to the secondary wastewater treatment processes and stormwater sewer systems per BAAQMD Regulation 8-8-113, because the secondary wastewater treatment processes or stormwater sewer systems, as defined in Sections 8-8-208 and 8-8-216, are used as a wastewater polishing step or for collection of storm water that is segregated from the process wastewater collection system.) |

Table IX A - 9
Permit Shield for Non-applicable Requirements
PROCESS DRAINS

| Citation | Title or Description (Reason not applicable) |
|-----------------------------------|--|
| BAAQMD Regulation 8, Rule 8 | Organic Compounds - Wastewater (Oil-Water) Separators (BAAQMD Regulation 8, Rule 8 does not apply to the process drains because the rule does not contain any for process drains) |

Table IX A - 10
Permit Shield for Non-applicable Requirements
FACILITY

| Citation | Title or Description (Reason not applicable) |
|----------|---|
|----------|---|

IX. Permit Shield

**Table IX A - 10
 Permit Shield for Non-applicable Requirements
 FACILITY**

| Citation | Title or Description (Reason not applicable) |
|----------------------|---|
| BAAQMD 9-1-302 | Inorganic Gaseous Pollutants – Sulfur Dioxide, General Emission Limitation (The refinery is conditionally exempt from the area monitoring requirements for the 300 ppm sulfur dioxide limitation in Section 9-1-302 “General Emission Limitation” per subsections 9-1-110.1 and 110.2. Specifically, Table IV-DV “Facility” in the permit contains the monitoring, records and reporting requirements contained in Regulation 1, including Sections 1-510, 530, 540, 542, 543, and 544 and hence meets the requirements outlined in subsection 9-1-110.1.) |
| BAAQMD 9-1-303 | Inorganic Gaseous Pollutants – Sulfur Dioxide, Emissions from Ships (The refinery is not subject to the 2000 ppm sulfur dioxide standard in Regulation 9-1-303 “Emissions from Ships”, since all ships coming to the refinery come from outside the District. Therefore, the facility is not subject to 9-1-303) |
| BAAQMD 11, Rule 7 | Hazardous Pollutants –Benzene (“In Benzene Service” is defined in Section 11-7-207 as any equipment, which either contains or contacts a fluid (liquid or gas) that is at least 10 percent benzene by weight. The refinery does not have any stream that contains at least 10% <u>by wt.</u> benzene. Therefore, the facility is exempt from Regulation 11, Rule 7.) |

**Table IX A - 11
 Permit Shield for Non-applicable Requirements
 S4161 – DC H-101 HP3 STEAM METHANE REFORMER**

| Citation | Title or Description (Reason not applicable) |
|----------------------------------|--|
| 40 CFR 60 Subpart J 60.105 | Standards of Performance for Petroleum Refineries for Monitoring of Emissions and Operations (NSPS 40 CFR 60 Subpart J 60.105 is not applicable because the source uses alternative monitoring in accordance with 60.13(i) for process swing absorption gas. <u>Specifically, the District in concert with EPA approved Shell’s AMP, discussed under permit condition 24339, on September 27, 1995)</u> |

IX. Permit Shield

Table IX A - 12
Permit Shield for Non-applicable Requirements
~~S1471 — LOP AUXILIARY FLARE~~
~~S1472 — LOP MAIN FLARE~~
~~S1772 — OPCEN HC FLARE~~
~~S4201 — DC CLEAN FUELS FLARE~~
~~A101 — FLARE FOR VINE HILL VAPOR RECOVERY SYSTEM~~
~~A102 — FLARE FOR CRUDE STRING VAPOR RECOVERY SYSTEM~~
~~A103 — FLARE FOR INTERIM GASOLINE VAPOR RECOVERY SYSTEM~~

| Citation | Title or Description (Reason not applicable) |
|--|---|
| 40 CFR 60 Subpart J 60.104(a)(1) | Standards of Performance for Petroleum Refineries for Standards for Sulfur Oxides (Flares S1471, S1472, S1772, S4201, A101, A102, and A103 are not subject to the sulfur oxides standard in 40 CFR 60 Subpart J 60.104(a)(1), because the flares combust only process upset gases or fuel gas that is released to them as a result of relief valve leakage or other emergency malfunction.) |
| 40 CFR 60 Subpart J 60.105 | Standards of Performance for Petroleum Refineries for Monitoring of Emissions and Operations (40 CFR 60 Subpart J 60.105 applies to flares that are subject to the sulfur oxides standard in 40 CFR 60 Subpart J 60.104(a)(1). Flares S1471, S1472, S1772, S4201, A101, A102, and A103 are not subject to the sulfur oxides standard in 40 CFR 60 Subpart J 60.104(a)(1), because the flares combust only process upset gases or fuel gas that is released to them as a result of relief valve leakage or other emergency malfunction. Therefore, 40 CFR 60 Subpart J 60.105 does not apply to flares S1471, S1472, S1772, S4201, A101, A102, and A103.) |

IX. Permit Shield

**Table IX A - 13
 Permit Shield for Non-applicable Requirements
 S1771 – FLEXIGAS FLARE**

| Citation | Title or Description (Reason not applicable) |
|-----------------------|--|
| BAAQMD 12-11-401.2 | Flare S1771 exclusively burns flexicoker gas with or without supplemental natural gas. Therefore, the flare is exempt from the total hydrocarbon and methane composition monitoring and reporting requirements contained in BAAQMD Regulation 12-11-401.2 per BAAQMD Regulation 12-11-114. |
| BAAQMD 12-11-401.3 | Flare S1771 exclusively burns flexicoker gas with or without supplemental natural gas. Therefore, the flare is exempt from the total hydrocarbon and methane composition monitoring and reporting requirements contained in BAAQMD Regulation 12-11-401.3 per BAAQMD Regulation 12-11-114. |
| BAAQMD 12-11-401.5 | Flare S1771 exclusively burns flexicoker gas with or without supplemental natural gas. Therefore, the flare is exempt from the total hydrocarbon and methane composition monitoring and reporting requirements contained in BAAQMD Regulation 12-11-401.5 per BAAQMD Regulation 12-11-114. |
| BAAQMD 12-11-502.2 | Flare S1771 exclusively burns flexicoker gas with or without supplemental natural gas. Therefore, the flare is exempt from the total hydrocarbon and methane composition monitoring and reporting requirements contained in BAAQMD Regulation 12-11-502.2 per BAAQMD Regulation 12-11-114. |
| BAAQMD 12-11-502.3 | Flare S1771 exclusively burns flexicoker gas with or without supplemental natural gas. Therefore, the flare is exempt from the total hydrocarbon and methane composition monitoring and reporting requirements contained in BAAQMD Regulation 12-11-502.3 per BAAQMD Regulation 12-11-114. |

IX. Permit Shield

Table IX A – 13
Permit Shield for Non-applicable Requirements
~~S1771 – OPCEN FLEXIGAS FLARE~~
~~S1772 – OPCEN HYDROCARBON FLARE~~

| Citation | Title or Description (Reason not applicable) |
|--|---|
| 40 CFR 60 Subpart J 60.104(a)(1) | Standards of Performance for Petroleum Refineries for Standards for Sulfur Oxides (Flares S1771 and S1772 are not subject to the sulfur oxides standard in 40 CFR 60 Subpart J 60.104(a)(1), because the flares combust only process upset gases or fuel gas that is released to them as a result of relief valve leakage or other emergency malfunction.) |
| 40 CFR 60 Subpart J 60.105 | Standards of Performance for Petroleum Refineries for Monitoring of Emissions and Operations (40 CFR 60 Subpart J 60.105 applies to flares that are subject to the sulfur oxides standard in 40 CFR 60 Subpart J 60.104(a)(1). Flares S1771 and S1772 are not subject to the sulfur oxides standard in 40 CFR 60 Subpart J 60.104(a)(1), because the flares combust only process upset gases or fuel gas that is released to them as a result of relief valve leakage or other emergency malfunction. Therefore, 40 CFR 60 Subpart J 60.105 does not apply to flares S1771 and S1772.) |

Table IX A – 14
Permit Shield for Non-applicable Requirements
 S1425 – DH Catalytic Reformer Unit (CRU)

| Citation | Title or Description (Reason not applicable) |
|-------------------------------------|--|
| 40 CFR 63 Subpart UUU 63.1566 | Organic HAP emission limitations from Catalytic Reforming Units (The CRU (S1425) is not subject to 40 CFR 63 Subpart UUU 63.1566 per 40 CFR 63.1562(f)(5) because organic HAP emissions from gaseous streams from S1425 are routed to a fuel gas system.) |

IX. Permit Shield

**Table IX A - 15
 Permit Shield for Non-applicable Requirements
 S1507 – UTIL CO Boiler 1, S1509 – UTIL CO Boiler 2,
 S1512 – UTIL CO Boiler 3, S1514 – UTIL F-70 Boiler 4,
 S4190 – UTIL Boiler 6 Gas Turbine 1,
 S4191 – UTIL Boiler 6 Supplemental Steam Generator 1,
 S4192 UTIL Boiler 6 Gas Turbine 2,
 S4193 – UTIL Boiler 6 Supplemental Steam Generator 2**

| Citation | Title or Description (Reason not applicable) |
|-------------------------|---|
| 40 CFR 60 Subpart D | Standards of Performance for Fossil-Fuel-Fired Steam Generators for Which Construction is Commenced after August 17, 1971 (Sources S1507, S1509, S1512, and S1514 were constructed in 1966. Therefore, the above steam generators are not subject to NSPS D. 40 CFR 60.41(a) defines a fossil-fuel fired steam generating unit as “a furnace or boiler used in the process of burning fossil fuel for the purpose of producing steam by heat transfer. The gas turbines (S4190 and S4192) and duct burners (S4191 and S4193) located at the refinery’s cogeneration plant are neither furnaces nor boilers as defined under 40 CFR 60.41(a). Therefore, the gas turbines and duct burners are not subject to NSPS D.) |
| 40 CFR 60 Subpart Da | Standards of Performance for Electric Utility Steam Generating Units for Which Construction is Commenced After September 18, 1978 (Sources S1507, S1509, S1512, and S1514 do not generate electricity. Therefore, the above steam generators are not subject to NSPS Da. 40 CFR 60.41a defines an electric utility steam generating unit as “any steam electric generating unit that is constructed for the purpose of supplying more than one-third of its potential electric output capacity and more than 25 MW electrical output to any utility power distribution system for sale. Any steam supplied to a steam distribution system for the purpose of providing steam to a steam-electric generator that would produce electrical energy for sale is also considered in determining the electrical energy output capacity of the affected facility.” The gas turbines (S4190 and S4192) and duct burners (S4191 and S4193) located at the refinery’s cogeneration plant were not constructed with the intent of supplying more than one-third of their potential electric output capacity or for selling more than 25 MW of their electrical output to any utility power distribution system. Therefore, the gas turbines and duct burners are not subject to NSPS Da.) |

IX. Permit Shield

Table IX A - 15
Permit Shield for Non-applicable Requirements
S1507 – UTIL CO Boiler 1, S1509 – UTIL CO Boiler 2,
S1512 – UTIL CO Boiler 3, S1514 – UTIL F-70 Boiler 4,
S4190 – UTIL Boiler 6 Gas Turbine 1,
S4191 – UTIL Boiler 6 Supplemental Steam Generator 1,
S4192 UTIL Boiler 6 Gas Turbine 2,
S4193 – UTIL Boiler 6 Supplemental Steam Generator 2

| Citation | Title or Description (Reason not applicable) |
|----------------------|---|
| 40 CFR 60 Subpart Dc | Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units (Sources S1507, S1509, S1512, and S1514 were constructed in 1966. Therefore, the above steam generators are not subject to NSPS Dc. 40 CFR 60.40c(a) regulates steam generating units that have a maximum design heat input capacity greater than 2.9 MW (10 million BTU/hr) and less than 29 MW (100 million BTU/hr). 40 CFR 60.41c defines a steam generating unit as “a device that combusts any fuel and produces steam or heats water or any other heat transfer medium. This term includes any duct burner that combusts fuel and is part of a combined cycle system. This term does not include process heaters as defined in this subpart.” The maximum design heat input capacity of the cogenerating units – gas turbine & duct burner combination, sources (S4190 and S4191) and sources (S4192 and S4193) is 49MW per cogeneration unit. Therefore, the gas turbines and duct burners are not subject to NSPS Dc.) |

Table IX A – 16
Permit Shield for Non-applicable Requirements
S1507 – UTIL CO Boiler 1,
S1509 – UTIL CO Boiler 2,
S1512 – UTIL CO Boiler 3

| Citation | Title or Description (Reason not applicable) |
|-----------------------|---|
| 40 CFR 63 Subpart EEE | National Emission Standards for Hazardous Air Pollutants for Hazardous Waste Incinerators (MACT EEE regulates three source categories: light weight aggregate kilns, cement kilns and hazardous waste incinerators. The CO boilers (S1507, S1509, and S1512) at the refinery do not meet the definition of either of the above three source categories. The definition for incinerator in MACT EEE (40 CFR 63.1201) refers to the definition in 40 CFR 260.10 which excludes boilers from the definition.) |

IX. Permit Shield

B. Subsumed Requirements

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

**Table IX B – 1
 Permit Shield for Subsumed Requirements
 S540 - TANK 540, S541 – TANK 541, S544 - TANK 544,
 S545 - TANK 545, S992 – TANK 992, S1031 - TANK 1031,
 S1046 - TANK 1046, S1051 - TANK 1051, S1063 - TANK 1063 ETP 1, S1067 -
 TANK 1067 ETP 1, S1072 - TANK 1072, S1076 – TANK 1076, S1129 - TANK
 1129,
 S1146 - TANK 1146, S1147 - TANK 1147, S1161 - TANK 1161,
 S1159 - TANK 1159, S1755 - TANK 1334 GASOLINE,
 S1756 - TANK 1335 GASOLINE**

| Subsumed Requirement Citation | Title or Description | Streamlined Requirements | Title or Description |
|-------------------------------|--|-------------------------------|--|
| BAAQMD Reg 8 Rule 5 | Organic Compounds – Storage of Organic Liquids | | |
| 8-5-501 | Records: Subsumed into the Refinery MACT recordkeeping requirements. | Section 63.654 655 | Notification of Compliance Status report |

IX. Permit Shield

**Table IX B – 2
 Permit Shield for Subsumed Requirements
 S952 – TANK 952,
 S2445 - TANK 12445, S2446 – TANK 12446,
 S4322 - TANK 14571 SOUR WATER
 S6062 – ETHANOL TANK**

| Subsumed Requirement Citation | Title or Description | Streamlined Requirements | Title or Description |
|----------------------------------|--|--------------------------|--|
| BAAQMD Reg 8 Rule 5 | Organic Compounds – Storage of Organic Liquids | | |
| 8-5-501 | Records: Subsumed into the Refinery MACT recordkeeping requirements. | Section 63.654655 | Notification of Compliance Status report |
| 40 CFR Part 60 Subpart Kb | Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced After July 23, 1984 | | |
| 60.115b(a) | Reporting and Recordkeeping for IFRTs. Subsumed into the Refinery MACT requirements. | Section 63.654655 | Notification of Compliance Status report |
| 60.116b (a)-(c) | Additional Recordkeeping. Subsumed into the Refinery MACT requirements. | Section 63.654655 | Notification of Compliance Status report |

IX. Permit Shield

**Table IX B – 3
 Permit Shield for Subsumed Requirements
 S1006 - TANK 1006, S1077 - TANK 1411, S1130 - TANK 1130,
 S1131 - TANK 1131, S1191 - TANK -1256 CRUDE OIL STORAGE,
 S1192 - TANK -1257 CRUDE OIL STORAGE, S2013 - TANK 12467,
 S4310 - TANK 13285 SOUR WATER,
 S12490 - LOG TANK 12519 WASTEWATER ETP 1&2,
 S12491 - LOG TANK 12520 WASTEWATER ETP 1&2,
 S17095 – TANK 17095**

| Subsumed Requirement Citation | Title or Description | Streamlined Requirements | Title or Description |
|------------------------------------|--|--------------------------|--|
| BAAQMD Regulation 8, Rule 5 | Organic Compounds – Storage of Organic Liquids | | |
| 8-5-501 | Records: Subsumed into the Refinery MACT recordkeeping requirements. | Section 63.654655 | Notification of Compliance Status report |
| 40 CFR Part 60 Subpart Kb | Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced After July 23, 1984 | | |
| 60.115b(b) | Reporting and Recordkeeping for EFRTs. Subsumed into the Refinery MACT requirements. | Section 63.654655 | Notification of Compliance Status report |
| 60.116b (a)-(c) | Additional Recordkeeping. Subsumed into the Refinery MACT requirements. | Section 63.654655 | Notification of Compliance Status report |

X. REVISION HISTORY

| | |
|--|------------------------------|
| Initial Major Facility Review Permit Issuance (Application 16467): | December 1, 2003 |
| Administrative Amendment (no application): | May 27, 2004 |
| Administrative Amendment (no application): | July 28, 2004 |
| Reopening (Application 9293): | December 16, 2004 |
| Reopening (Application 12430): | May 17, 2007 |
| Minor Revision (Application 15599) (Consent Decree) | April 4, 2008 |
| <u>Major Facility Review Permit Renewal</u> <u>(Application 18239):</u> <u>(Also includes changes to the permit resulting</u> <u>from Applications 15482, 15774, 18034, 18062,</u> <u>19373, 19465, and 20070)</u> | <u>[enter approval date]</u> |

XI. GLOSSARY

ACT

Federal Clean Air Act

APCO

Air Pollution Control Officer

API

American Petroleum Institute

ARB

Air Resources Board

BAAQMD

Bay Area Air Quality Management District

BACT

Best Available Control Technology

BARCT

Best Available Retrofit Control Technology

Basis

The underlying authority that allows the District to impose requirements.

C5

An Organic chemical compound with five carbon atoms

C6

An Organic chemical compound with six carbon atoms

CAA

The federal Clean Air Act

CAAQS

California Ambient Air Quality Standards

CCR-2

Canadian Chemical Reclaimer heater.

CEC

California Energy Commission

CEM

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

XI. Glossary

CEQA

California Environmental Quality Act

CFP

Clean Fuels Project

CFR

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

CO

Carbon Monoxide

CO₂

Carbon Dioxide

Cumulative Increase

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

DAF

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

DWT

Dead Weight Ton

District

The Bay Area Air Quality Management District

DNF

Dissolved Nitrogen Flotation (See DAF)

dscf

Dry Standard Cubic Feet

dscm

Dry Standard Cubic Meter

E 6, E 9, E 12

Very large or very small number values are commonly expressed in a form called scientific notation, which consists of a decimal part multiplied by 10 raised to some power. For example, 4.53 E 6 equals $(4.53) \times (10^6) = (4.53) \times (10 \times 10 \times 10 \times 10 \times 10 \times 10) = 4,530,000$.

XI. Glossary

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

EPA

The federal Environmental Protection Agency.

ESP

Electrostatic Precipitator

ETP

Effluent Treatment Plant

Excluded

Not subject to any District Regulations.

CCU

(Fluidized) Catalytic Cracking Unit

Federally Enforceable, FE

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

FP

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

Furfural Raff/Furfural Extr

These sources are heaters that contain furnaces within them. The heater is the overall unit and the combustion box is the furnace.

FRT

Floating Roof Tank (See EFRT and IFRT)

GDF

Gasoline Dispensing Facility

XI. Glossary

GLM

Ground Level Monitor

grains

1/7000 of a pound

Graphitic

Made of graphite.

GRU

Gas Recovery Unit

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 40 CFR Part 63.

H₂S

Hydrogen Sulfide

H₂SO₄

Sulfuric Acid

HC

Hydrocarbon

Hg

Mercury

HHV

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

IERC

Interchangeable Emission Reduction Credits.

IFRT

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

ISOM

Isomerization plant

LHV

Lower Heating Value. Similar to the higher heating value (see HHV) except that the water

XI. Glossary

produced by the combustion is not condensed but retained as vapor at 60F.

Lighter

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

Long ton

2200 pounds

LPG

Liquid Petroleum Gas

LFSO

Low sulfur fuel oil

Major Facility

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

MDEA

Methyl Diethanolamine

MFR

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

MM

Million

Mo Gas

Motor gasoline

MOP

The District's Manual of Procedures

MOSC

Mobil Oil Sludge Conversion (licensed technology)

MSDS

Material Safety Data Sheet

MTBE

methyl tertiary-butyl ether

NA

XI. Glossary

Not Applicable

NAAQS

National Ambient Air Quality Standards

NESHAPS

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

NMHC

Non-methane Hydrocarbons

NMOC

Non-methane Organic Compounds (Same as NMHC)

NO_x

Oxides of nitrogen.

NSPS

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

NSR

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

O₂

The chemical name for naturally-occurring oxygen gas.

Offset Requirement

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

Phase II Acid Rain Facility

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

POC

Precursor Organic Compounds

PM

Total Particulate Matter

XI. Glossary

PM10

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

PSD

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

Process Unit

For the purpose of start-up and shutdown a unit is defined as found in 40 CFR Part 60 Subpart GGG, which states:

Process Unit means components assembled to produce intermediate or final products from petroleum, unfinished petroleum derivatives, or other intermediates; a process unit can operate independently if supplied with sufficient feed or raw materials and sufficient storage facilities for the product.

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.

RFG

Refinery Fuel Gas

RICE

Reciprocating Internal Combustion Engine

Formatted

RMG

Refinery Make Gas

SCR

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

SIP

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

SO2

XI. Glossary

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

Start-up

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

Shutdown

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

THC

Total Hydrocarbons (NMHC + Methane)

therm

100,000 British Thermal Unit

Title V

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

TOC

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

TPH

Total Petroleum Hydrocarbons

TRMP

Toxic Risk Management Plan

TRS

XI. Glossary

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

TSP

Total Suspended Particulate

TVP

True Vapor Pressure

VGO

Vacuum Gas Oil

VR

Vapor Recovery

VOC

Volatile Organic Compounds

Units of Measure:

| | | |
|----------------|---|-------------------------------------|
| bbl | = | barrel of liquid (42 gallons) |
| bhp | = | brake-horsepower |
| btu | = | British Thermal Unit |
| C | = | degrees Celsius |
| F | = | degrees Fahrenheit |
| f ³ | = | cubic feet |
| g | = | grams |
| gal | = | gallon |
| gpm | = | gallons per minute |
| hp | = | horsepower |
| hr | = | hour |
| lb | = | pound |
| in | = | inches |
| M | = | thousand |
| m ² | = | square meter |
| max | = | maximum |
| min | = | minute |
| Mg | = | mega-gram, one thousand grams |
| mm | = | millimeter |
| µg | = | micro-gram, one millionth of a gram |
| MM | = | million |
| mm | = | millimeter |
| MMbtu | = | million btu |
| mm Hg | = | millimeters of Mercury (pressure) |

XI. Glossary

| | | |
|------|---|----------------------------------|
| MW | = | megawatts |
| ppmv | = | parts per million, by volume |
| ppmw | = | parts per million, by weight |
| psia | = | pounds per square inch, absolute |
| psig | = | pounds per square inch, gauge |
| scfm | = | standard cubic feet per minute |
| yr | = | year |

Symbols:

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

Facility Name: Shell Martinez Refinery, Shell Oil Products US
Permit for Facility #: A0011

XII. APPLICABLE STATE IMPLEMENTATION PLAN

The Bay Area Air Quality Management District's portion of the State Implementation Plan can be found at EPA Region 9's website. The address is:

<http://yosemite1.epa.gov/r9/r9sips.nsf/California?ReadForm&Start=1&Count=30&Expand=3.1>