Bay Area Air Quality Management District

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

Final

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	**Facility Contact**
Aamir Farid,	T. K. Makarewicz,
General Manager	Manager, Environmental Affairs Department
925-313-3333	925-313-3705

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

ISSUED BY THE BAY AREA AIR QUALITY MANAGEMENT DISTRICT

Signed by Jack P. Broadbent _____ December , 2004_____
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
(as amended by the District Board on 5/2/01);
SIP Regulation 1 - General Provisions and Definitions
(as approved by EPA through 6/28/99);
BAAQMD Regulation 2, Rule 1 - Permits, General Requirements
(as amended by the District Board on 8/1/01);
SIP Regulation 2, Rule 1 - Permits, General Requirements
(as approved by EPA through 1/26/99);
BAAQMD Regulation 2, Rule 2 - Permits, New Source Review
(as amended by the District Board on 5/17/00);
SIP Regulation 2, Rule 2 - Permits, New Source Review and Prevention of Significant Deterioration
(as approved by EPA through 1/26/99);
BAAQMD Regulation 2, Rule 4 - Permits, Emissions Banking
(as amended by the District Board on 5/17/00);
SIP Regulation 2, Rule 4 - Permits, Emissions Banking
(as approved by EPA through 1/26/99); and
BAAQMD Regulation 2, Rule 6 - Permits, Major Facility Review
(as amended by the District Board on 4/16/03).

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

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

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

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

I. Standard Conditions

4. This permit may be modified, revoked, reopened and reissued, or terminated for cause. (Regulation 2-6-307, 409.8, 415; MOP Volume II, Part 3, §4.11)
5. The filing of a request by the facility for a permit modification, revocation and re-issuance, or termination, or 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.

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. The first reporting period for this permit shall be December 1, 2003, to May 31, 2004. The second reporting period for this permit shall be June 1, 2004, to June 30, 2004. Subsequent reports shall be for the following periods: July 1st through December 31st and January 1st through June 30th. All reports are due on the last day of the month after the end of the reporting period. All instances of non-compliance shall be clearly identified in these reports. The reports shall be certified by the responsible official as true, accurate, and complete. In addition, all instances of non-compliance with the permit shall be reported in writing to the District's Compliance and Enforcement Division within 10 calendar days of the discovery of the incident. Within 30 calendar days of the discovery of any incident of non-compliance, the facility shall submit a written report including the probable cause of non-compliance and any corrective or preventative actions. The reports shall be sent to the following address:

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

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

G. Compliance Certification

Compliance certifications shall be submitted annually by the responsible official of this facility to the Bay Area Air Quality Management District and to the Environmental Protection Agency. The first certification period shall be December 1, 2003, to November 30, 2004. The second certification period shall be December 1, 2004, to December 31, 2004. Subsequent certification periods will be January 1st to December 31st. All compliance certifications are due on the last day of the month after the end of the certification period. The certification must list each applicable requirement, the compliance status, whether compliance was continuous or intermittent, the method used

I. Standard Conditions

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 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. The facility

I. Standard Conditions

must report any exceedance of these limits following the procedures in Section I.F. This reporting requirement is intended to facilitate a determination of whether a modification has occurred as defined in Regulation 2-1-234.3. The throughput limits for grandfathered sources are for reporting purposes only. Exceedance of this limit does not establish a presumption that a modification has occurred, nor does compliance with the limit establish a presumption that a modification has not occurred.

3. Reserved.
4. Where an applicable requirement allows multiple compliance options and where more than one such option is incorporated into the permit, the permit holder must maintain records indicating the selected compliance option. Such records at a minimum shall indicate when any change in options has occurred. In addition, the annual compliance certification must specifically indicate which option or options were selected during the certification period. This is in addition to any recordkeeping and reporting contained in the requirement itself.
5. The District intends to make a determination regarding the applicability of 40 CFR Part 63, Subpart CC to certain flares on or before February 15, 2005. Any information the permit holder believes should be considered by the District regarding this determination must be submitted by January 5, 2005. This permit condition is not intended to limit the District's authority to request information.
6. The District intends to make a determination regarding the applicability of Regulation 8, Rule 2 to certain cooling towers on or before February 15, 2005. Any information the permit holder believes should be considered by the District regarding this determination must be submitted by January 5, 2005. This permit condition is not intended to limit the District's authority to request information.
7. The District intends to make a determination regarding the applicability of 40 CFR Part 61, Subpart QQQ to certain wastewater treatment sources on or before February 15, 2005. Any information the permit holder believes should be considered by the District regarding this determination must be submitted by January 5, 2005. This permit condition is not intended to limit the District's authority to request information.
8. The District intends to make a determination regarding the applicability of 40 CFR Part 63, Subpart FF to certain waste streams on or before February 15, 2005. Any information the permit holder believes should be considered by the District regarding this determination must be submitted by January 5, 2005. This permit condition is not intended to limit the District's authority to request information.
9. The District intends to make a determination regarding monitoring to assure compliance with SIP particulate standards for ESPs on or before February 15, 2005. Any information the permit holder believes should be considered by the District regarding this determination must be submitted by January 5, 2005. This permit condition is not intended to limit the District's authority to request information.

I. Standard Conditions

K. Accidental Release

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

II. EQUIPMENT

Table II A - Permitted Sources

Each of the following sources has been issued a permit to operate pursuant to the requirements of BAAQMD Regulation 2, Permits. The capacities in this table are the maximum allowable capacities for each source, pursuant to Standard Condition I.J and Regulation 2-1-301. For sources that burn fuel, only gaseous fuels are used except for the following that also burn fuel oil: S1476, S1477, 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, Waste Biosolids, and Sulfinol 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 Gallon
4	Tank 4	Custom Made, Fixed Roof	NA	2,335,830 Gallon
13	Tank 13	Custom Made, Fixed Roof	NA	2,335,830 Gallon
14	Tank 14	Custom Made, Fixed Roof	NA	2,335,830 Gallon
19	Tank 19	Custom Made, Fixed Roof	NA	2,335,830 Gallon
20	Tank 20	Custom Made, Fixed Roof	NA	2,335,830 Gallon
21	Tank 21 Asphalt Storage	Custom Made, Fixed Roof	NA	2,314,200 Gallon
22	Tank 22 Asphalt Storage	Custom Made, Fixed Roof	NA	2,314,200 Gallon
23	Tank 23 Asphalt Storage	Custom Made, Fixed Roof	NA	2,335,830 Gallon
24	Tank 24 Asphalt Storage	Custom Made, Fixed Roof	NA	2,310,000 Gallon
26	Tank 26 Asphalt Storage	Custom Made, Fixed Roof	NA	1,050,000 Gallon
34	Tank 34	Custom Made, Floating Roof	NA	336,000 Gallon
63	Tank 63	Custom Made, Fixed Roof	NA	19,740 Gallon
129	Tank 129	Custom Made, External Floating Roof	NA	634,477 Gallon

II. Equipment

Table II A - Permitted Sources

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S#	Description	Make or Type	Model	Capacity
224	Tank 224	Custom Made, Fixed Roof	NA	23,100 Gallon
257	Tank 257	Custom Made, Fixed Roof	NA	2,335,830 Gallon
355	Tank 355	Custom Made, Fixed Roof	NA	19,740 Gallon
396	Tank 396	Custom Made, Fixed Roof	NA	362,040 Gallon
397	Tank 397	Custom Made, Fixed Roof	NA	362,040 Gallon
432	Tank 432	Custom Made, Fixed Roof	NA	19,740 Gallon
483	Tank 483	Custom Made, Fixed Roof	NA	3,380,160 Gallon
484	Tank 484	Custom Made, Fixed Roof	NA	3,380,160 Gallon
497	Tank 497 Asphalt Storage	Custom Made, Fixed Roof	NA	1,611,960 Gallon
530	Tank 530	Custom Made, Fixed Roof	NA	3,452,232 Gallon
532	Tank 532	Custom Made, Fixed Roof	NA	3,452,190 Gallon
534	Tank 534	Custom Made, Fixed Roof	NA	3,452,190 Gallon
540	Tank 540	Custom Made, External Floating Roof	NA	3,435,180 Gallon
541	Tank 541	Custom Made, External Floating Roof	NA	3,435,180 Gallon
544	Tank 544	Custom Made, External	NA	4,923,576 Gallon

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: S1476, S1477, 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, Waste Biosolids, and Sulfinol Reclaimer Bottoms in accordance with Shell's Part B RCRA Hazardous Waste Permit.

S#	Description	Make or Type	Model	Capacity
		Floating Roof		
545	Tank 545	Custom Made, External Floating Roof	NA	4,923,576 Gallon
548	Tank 548	Custom Made, Fixed Roof	NA	19,950 Gallon
549	Tank 549	Custom Made, Fixed Roof	NA	19,100 Gallon
552	Tank 552 Asphalt Storage	Custom Made, Fixed Roof	NA	69,300 Gallon
553	Tank 553 Asphalt Storage	Custom Made, Fixed Roof	NA	69,300 Gallon
554	Tank 554 Asphalt Storage	Custom Made, Fixed Roof	NA	69,300 Gallon
555	Tank 555 Asphalt Storage	Custom Made, Fixed Roof	NA	69,300 Gallon
556	Tank 556 Asphalt Storage	Custom Made, Fixed Roof	NA	69,300 Gallon
557	Tank 557 Asphalt Storage	Custom Made, Fixed Roof	NA	69,300 Gallon
558	Tank 558 Asphalt Storage	Custom Made, Fixed Roof	NA	69,300 Gallon
559	Tank 559 Asphalt Storage	Custom Made, Fixed Roof	NA	71,400 Gallon
560	Tank 560 Asphalt Storage	Custom Made, Fixed Roof	NA	625,380 Gallon
561	Tank 561 Asphalt Storage	Custom Made, Fixed Roof	NA	625,380 Gallon
567	Tank 567 Asphalt Storage	Custom Made, Fixed Roof	NA	22,680 Gallon

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: S1476, S1477, 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, Waste Biosolids, and Sulfinol Reclaimer Bottoms in accordance with Shell's Part B RCRA Hazardous Waste Permit.

S#	Description	Make or Type	Model	Capacity
568	Tank 568	Custom Made, Fixed Roof	NA	14,280 Gallon
571	Tank 571 Asphalt Storage	Custom Made, Fixed Roof	NA	155,820 Gallon
572	Tank 572 Asphalt Storage	Custom Made, Fixed Roof	NA	93,660 Gallon
573	Tank 573 Asphalt Storage	Custom Made, Fixed Roof	NA	93,660 Gallon
598	Tank 598 Asphalt Storage	Custom Made, Fixed Roof	NA	33,600 Gallon
610	Tank 610	Custom Made, Fixed Roof	NA	5,615,400 Gallon
611	Tank 611	Custom Made, Fixed Roof	NA	5,615,400 Gallon
612	Tank 612	Custom Made, Fixed Roof	NA	5,615,400 Gallon
613	Tank 613	Custom Made, Fixed Roof	NA	5,615,400 Gallon
815	Tank 815 Asphalt Storage	Custom Made, Fixed Roof	NA	863,058 Gallon
856	Tank 856	Custom Made, Fixed Roof	NA	22,890 Gallon
858	Tank 858	Custom Made, Internal Floating Roof	NA	45,360 Gallon
860	Tank 860	Custom Made	NA	24,000 Gallons
861	Tank 861	Custom Made	NA	24,000 Gallons
867	Tank 867 Asphalt Storage	Custom Made, Fixed Roof	NA	93,156 Gallon
868	Tank 868 Asphalt Storage	Custom Made, Fixed	NA	93,156 Gallon

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: S1476, S1477, 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, Waste Biosolids, and Sulfinol Reclaimer Bottoms in accordance with Shell's Part B RCRA Hazardous Waste Permit.

S#	Description	Make or Type	Model	Capacity
		Roof		
876	Tank 876 Asphalt Storage	Custom Made, Fixed Roof	NA	121,296 Gallon
952	Tank 952	Custom Made, Internal Floating Roof	NA	75,600 Gallons
961	Tank 961 Asphalt Storage	Custom Made, Fixed Roof	NA	130,200 Gallon
967	Tank 967	Custom Made, Fixed Roof	NA	3,399,648 Gallon
985	Tank 985 Asphalt Storage	Custom Made, Fixed Roof	NA	841,512 Gallon
992	Tank 992	Custom Made, External Floating Roof	NA	395,808 Gallon
1004	Tank 1004	Custom Made	NA	22,700 Gallon
1005	Tank 1005	Custom Made, Fixed Roof	NA	10,080 Gallon
1006	Tank 1006	Custom Made, External Floating Roof	NA	82,908 Gallon
1017	Tank 1017 Asphalt Storage	Custom Made, Fixed Roof	NA	210,210 Gallon
1018	Tank 1018 Asphalt Storage	Custom Made, Fixed Roof	NA	210,210 Gallon
1023	Tank 1023	Custom Made, Internal Floating Roof	NA	45,700 Gallon
1031	Tank 1031	Custom Made, External Floating Roof	NA	2,274,720 Gallon
1041	Tank 1041 Asphalt Storage	Custom Made, Fixed Roof	NA	339,360 Gallon
1043	Tank 1043 Asphalt Storage	Custom Made, Fixed	NA	189,000 Gallon

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: S1476, S1477, 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, Waste Biosolids, and Sulfinol Reclaimer Bottoms in accordance with Shell's Part B RCRA Hazardous Waste Permit.

S#	Description	Make or Type	Model	Capacity
		Roof		
1044	Tank 1044 Asphalt Storage	Custom Made, Fixed Roof	NA	189,000 Gallon
1045	Tank 1045 Asphalt Storage	Custom Made, Fixed Roof	NA	189,000 Gallon
1046	Tank 1046	Custom Made, External Floating Roof	NA	2,961,000 Gallon
1048	Tank 1048 Asphalt Storage	Custom Made, Fixed Roof	NA	210,000 Gallon
1050	Tank 1050	Custom Made, Internal Floating Roof	NA	34,000 Gallon
1051	Tank 1051	Custom Made, External Floating Roof	NA	3,486,000 Gallon
1063	Tank 1063 ETP 1	Custom Made, External Floating Roof	NA	211,493 Gallon
1067	Tank 1067 ETP 1	Custom Made, External Floating Roof	NA	3,486,000 Gallon
1070	Tank 1070	Custom Made, Fixed Roof	NA	2,335,830 Gallon
1072	Tank 1072	Custom Made, External Floating Roof	NA	6,344,775 Gallon
1075	Tank 1075 Asphalt Storage	Custom Made, Fixed Roof	NA	39,480 Gallon
1076	Tank 1076	Custom Made, External Floating Roof	NA	4,060,656 Gallon
1077	Tank 1411	Custom Made, External Floating Roof	NA	497,242 Gallon
1114	Tank 1114 Spent Acid	Custom Made, Fixed Roof	NA	51,660 Gallon

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: S1476, S1477, 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, Waste Biosolids, and Sulfinol Reclaimer Bottoms in accordance with Shell's Part B RCRA Hazardous Waste Permit.

S#	Description	Make or Type	Model	Capacity
1115	Tank 1115 Spent Acid	Custom Made, Fixed Roof	NA	51,660 Gallon
1116	Tank 1116 Fresh Acid	Custom Made, Fixed Roof	NA	51,660 Gallon
1117	Tank 1117 Skim	Custom Made, Fixed Roof	NA	4,512 Gallon
1129	Tank 1129	Custom Made, External Floating Roof	NA	6,344,775 Gallon
1130	Tank 1130	Custom Made, External Floating Roof	NA	6,344,775 Gallon
1131	Tank 1131	Custom Made, External Floating Roof	NA	6,344,775 Gallon
1133	Tank 1133	Custom Made, Fixed Roof	NA	7,224,000 Gallon
1134	Tank 1134	Custom Made, Fixed Roof	NA	7,224,000 Gallon
1139	Tank 1139	Custom Made, Fixed Roof	NA	3,399,648 Gallon
1140	Tank 1140	Custom Made, Fixed Roof	NA	4,219,511 Gallon
1141	Tank 1141	Custom Made	NA	2,310,000 Gallon
1146	Tank 1146	Custom Made, Internal Floating Roof	NA	210,976 Gallon
1147	Tank 1147	Custom Made, Internal Floating Roof	NA	210,976 Gallon
1159	Tank 1159	Custom Made, External Floating Roof	NA	2,274,720 Gallon
1160	Tank 1160 Asphalt Storage	Custom Made, Fixed Roof	NA	2,349,900 Gallon

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: S1476, S1477, 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, Waste Biosolids, and Sulfinol Reclaimer Bottoms in accordance with Shell's Part B RCRA Hazardous Waste Permit.

S#	Description	Make or Type	Model	Capacity
1161	Tank 1161	Custom Made, External Floating Roof	NA	11,279,601 Gallon
1186	Tank 1186	Custom Made, Fixed Roof	NA	7,056 Gallon
1191	Tank 1256 Crude Oil Storage	Custom Made, External Floating Roof	NA	15,572,899 Gallon
1192	Tank 1257 Crude Oil Storage	Custom Made, External Floating Roof	NA	15,572,899 Gallon
1235	Tank 739 Chem Storage	Custom Made, Fixed Roof	NA	32,130 Gallon
1236	Tank 740 Chem Storage	Custom Made, Fixed Roof	NA	32,130 Gallon
1408	LUBS Asphalt Blending and Shipping	Custom Made	NA	NA
1409	LUBS Sulfonation Plant (SULF)	Custom Made	NA	NA
1411	LUBS Atmospheric Distillation LDU	Custom Made	NA	NA
1412	LUBS Vacuum Distillation LDU	Custom Made	NA	NA
1415	LUBS Furfural Plant (SEP3)	Custom Made	NA	NA
1416	LUBS -Lube Hydrotreater 1 (LHT1)	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

II. Equipment

Table II A - Permitted Sources

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S#	Description	Make or Type	Model	Capacity
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
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

II. Equipment

Table II A - Permitted Sources

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S#	Description	Make or Type	Model	Capacity
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
1476	LUBS F-24 Atmospheric Feed	Peabody	MU-24, 6	See Condition # 16688
1477	LUBS F-25 Vacuum Feed	COEN	B-18, 3; JZ, HP-14, 1	See Condition # 16688
1478	LUBS F-26 Furfural Raff	Nat. Gas Co., 24	24	See Condition # 16688
1479	LUBS F-27 Furfural Extr	Nat. Gas Co., 48	48	See Condition # 16688
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
1484	LUBS F-34 LHT Charge	NAO	No. 25, 3	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
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

II. Equipment

Table II A - Permitted Sources

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S#	Description	Make or Type	Model	Capacity
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 T/T	Custom Made	NA	NA
1539	LUBS LR-25 Loading Rack Acid Sludge and Sulfonation T/T	Custom Made	NA	NA

II. Equipment

Table II A - Permitted Sources

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S#	Description	Make or Type	Model	Capacity
1540	LUBS LR-26 Oleum Unloading	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 Barrel
1751	Tank 1330	Custom Made, Fixed Roof	NA	6,344,775 Gallon
1752	Tank 1331	Custom Made, Fixed Roof	NA	6,344,775 Gallon
1753	Tank 1332 Gasoline	Custom Made, Fixed Roof	NA	9,136,477 Gallon
1754	Tank 1333 Gasoline	Custom Made, Fixed Roof	NA	9,136,477 Gallon
1755	Tank 1334 Gasoline	Custom Made, External Floating Roof	NA	4,314,447 Gallon
1756	Tank 1335 Gasoline	Custom Made, External Floating Roof	NA	4,314,447 Gallon
1757	Tank 1336	Custom Made, Fixed Roof	NA	4,060,656 Gallon
1758	Tank 1337	Custom Made, Fixed Roof	NA	4,060,656 Gallon
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
1763	DH F-126 CU Feed Heater	Custom Made	NA	See Condition # 16688
1764	OPCEN Dimersol Plant (DIMER)	Custom Made	NA	NA

II. Equipment

Table II A - Permitted Sources

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S#	Description	Make or Type	Model	Capacity
1765	OPCEN Sulfur Plant 3 (SRU3)	Custom Made	NA	See Condition # 18618, Part 1
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 Gallon
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
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

II. Equipment

Table II A - Permitted Sources

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S#	Description	Make or Type	Model	Capacity
2008	LOG Dissolved Nitrogen Floatation Unit South ETP 1 (DNF)	Custom Made	NA	NA
2009	LUBS Wastewater Separator Dubbs Box	Custom Made	NA	NA
2010	LOG Wastewater Junction Boxes	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 Gallon
2013	Tank 12467	Custom Made, External Floating Roof	NA	6,299,393 Gallon
2014	LOG Final ETP 1&2 Holding Ponds 5C and 5D	Custom Made	NA	8,000,000 Gallon
2445	Tank 12445	Custom Made, Internal Floating Roof	NA	8,590,994 Gallon
2446	Tank 12446	Custom Made, Internal Floating Roof	NA	8,590,994 Gallon
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
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

II. Equipment

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S#	Description	Make or Type	Model	Capacity
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
4170	LUBS Lube Hydrotreater 2 (LHT2)	Custom Made	NA	NA
4171	LUBS F-13000 LHT2 Feed	Custom Made	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	6200 Gallon
4309	Tank 14517 DEA	Custom Made, Fixed Roof	NA	17000 Gallon
4310	Tank –13285 Sour Water	Custom Made, External Floating Roof	NA	4,200,000 Gallon
4311	DC V-12555 ISOM	Custom Made, Pressure	NA	1,785 Gallon

II. Equipment

Table II A - Permitted Sources

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S#	Description	Make or Type	Model	Capacity
	Perchloroethylene Vessel	Vessel		
4319	Tank15096 Recovered Oil	Custom Made, Fixed Roof	NA	1054878 Gallon
4322	Tank14571 Sour Water	Custom Made, Internal Floating Roof	NA	710,896 Gallon
4329	Tank13260 Pentane	Custom Made, Pressure Vessel	NA	2,146,308 Gallon
4330	Tank13261 Pentane	Custom Made, Pressure Vessel	NA	2,146,308 Gallon
4334	Tank13276 Alkylate	Custom Made, Fixed Roof	NA	4,231,613 Gallon
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 Gallon
4350	LOG Tank 13187 Process Wastewater	Custom Made, Fixed Roof	NA	1,096,377 Gallon
4356	LOG Tank 13188 Process Wastewater	Custom Made, Fixed Roof	NA	1,096,377 Gallon
5112	LOG V-15112 Main Proto Vessel with Nitrogen Blanket	Custom Made, Fixed Roof	NA	1,300 Gallon
5113	LOG V-15113 Main Proto Vessel with Nitrogen Blanket	Custom Made, Fixed Roof	NA	1,300 Gallon
5114	LOG V-15114 Main Proto Vessel with Nitrogen Blanket	Custom Made, Fixed Roof	NA	1,300 Gallon
5115	LOG Dissolved Nitrogen Flotation Unit North ETP 2 (DNF)	Custom Made	NA	NA
5116	LOG Dissolved Nitrogen Flotation Unit South ETP 2 (DNF)	Custom Made	NA	NA

II. Equipment

Table II A - Permitted Sources

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S#	Description	Make or Type	Model	Capacity
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	NA
5121	LOG SPM-14111 DNF Float Tank ETP 2	Custom Made, Fixed Roof	NA	12,000 Gallon
5125	LOG V-15117 Standby Proto Vessel	Custom Made, Fixed Roof	NA	217 Gallon
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
12490	LOG Tank 12519 Wastewater ETP 1&2	Custom Made, External Floating Roof	NA	7,402,238 Gallon
12491	LOG Tank 12520 Wastewater ETP 1&2	Custom Made, External Floating Roof	NA	7,402,238 Gallon
17095	Tank 17095	Custom Made, External Floating Roof	NA	90,648 bbl

II. Equipment

Table II B – Abatement Devices

Abatement Device	Description	Source(s) Controlled	Applicable Requirement	Operating Parameters	Limit or Efficiency
A1	Mist Eliminator	S24	Regulation 6-301	None	Ringelmann No. 1 for < 3 minutes in any hour
A2	Mist Eliminator	S860, S861, S1004	Regulation 6-301	None	Ringelmann No. 1 for < 3 minutes in any hour
A3	Mist Eliminator	S552, S553, S554, S555, S556, S557, S558, S559, S1523	Regulation 6-301	None	Ringelmann No. 1 for < 3 minutes in any hour
A4	Mist Eliminator	S560, S561, S815, S985	Regulation 6-301	None	Ringelmann No. 1 for < 3 minutes in any hour
A5	Mist Eliminator –	S567	Regulation 6-301	None	Ringelmann No. 1 for < 3 minutes in any hour
A6	Mist Eliminator	S1043, S1044, S1045	Regulation 6-301	None	Ringelmann No. 1 for < 3 minutes in any hour
A7	Mist Eliminator	S1048, S1525	Regulation 6-301	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
A10	Mist Eliminator –	S1160	Regulation 6-301	None	Ringelmann No. 1 for < 3 minutes in any hour
A11	Mist Eliminator	S1411	None	None	None
A12	Electrostatic Precipitator 1	S1426, S1507	Regulation 6-301	None	Ringelmann No. 1 for < 3 minutes in any hour
A13	Electrostatic Precipitator 2	S1426, S1509	Regulation 6-301	None	Ringelmann No. 1 for < 3 minutes in any hour
A14	Electrostatic Precipitator 3	S1426, S1512	Regulation 6-301	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
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); 40CFR60.112b (a)(3)(i); and 40 CFR 60.112(b)(3) (ii)	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
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
A27	–SO_2 Absorber for Sulfonation Plant	S1409, S1539,	None	None	None

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, S1416, S1417, S1420, S1421, S1423, S1424, S1425, S1426, S1427, S1428, S1429, S1430 S1433, S1434, S1435, S1436, S1445, S1446, S1447, S1448, S1449, S2012, S4170	Regulation 8-5-306, 8-28-303, 40CFR60.112b (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 SO2 dry, at 0% oxygen
A53	Mist Eliminator	S571, S572, S573, S1524	Regulation 6-301	None	Ringelmann No. 1 for 3 minutes in any hour
A54	Mist Eliminator	S867, S868	Regulation 6-301	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
A56	Vapor Recovery System for Crude String Storage Tanks	S483, S484, S530, S532, S4319, S4350, S4356	Regulation 8-5-306, 40CFR60.112b (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	Regulation 6-301	None	Ringelmann No. 1 for < 3 minutes in any hour
A75	Stretford Unit	S1759	Condition # 7618 Part E2	None	H2S limits in Flexigas
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	Regulation 6-301	None	Ringelmann No. 1 for < 3 minutes in any hour
A100	ThermalOxidizer for Marine Vapor Recovery System	S2001, S2002, S2003, S2004	Regulation 8-44-301 and Condtion 4288 Part 6	Temperature > 1400 ^{o}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
A1114	Caustic Scrubber for Alky Spent Acid Tanks	S1114, S1115	None	None	None
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

II. Equipment

Table II B – Abatement Devices

Abatement Device	Description	Source(s) Controlled	Applicable Requirement	Operating Parameters	Limit or Efficiency
A1426	Baghouse for CCU Spent Catalyst Hopper (Portable)	S1426	Regulation 6-301	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
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	Condition 12271 Part 74	None	Overall capture and destruction efficiency of 98.5% by weight.
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, S1416, S1417, S1420, S1421, S1423, S1424, S1425, S1426, S1427, S1428, S1429, S1430, S1431, S1432 S1433, S1434, S1435, S1436, S1445, S1446, S1447, S1448, S1449, S2012, S4170	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, S1416, S1417, S1420, S1421, S1423, S1424, S1425, S1426, S1427, S1428, S1429, S1430, S1433, S1434, S1435, S1436, S1445, S1446, S1447, S1448, S1449, S2012, S4170	None	None	None
A1473	Carbon Adsorption Vessel for wwastewater 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

II. Equipment

Table II B – Abatement Devices

Abatement Device	Description	Source(s) Controlled	Applicable Requirement	Operating Parameters	Limit or Efficiency
A1476	Carbon Adsorption Vessel for Wastewater Scrubber 4 (ETP 1)	S1469	None	None	None
A1501	F-56 Backup Thermal Oxidizer for Sulfur Plants 1 and 2	S1431, S1432	Regulation 9-1-307	None	250 ppmv SO2 dry, at 0% oxygen
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	Regulation 9-1-307	None	250 ppmv SO2 dry, at 0% oxygen
A1518	F-109 Catalytic Oxidizer for SCOT No. 3	S1765	Regulation 9-1-307	None	250 ppmv SO2 dry, at 0% oxygen
A1541	Mist Eliminator	S1540, S860, S861, S1004	Regulation 6-301	None	Ringelmann No. 1 for < 3 minutes in any hour
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

II. Equipment

Table II B – Abatement Devices

Abatement Device	Description	Source(s) Controlled	Applicable Requirement	Operating Parameters	Limit or Efficiency
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	Regulation 6-301&Condition # 4041 Parts 3 and 4	None	Ringelmann No. 0.5
A1805	Carbon Adsorption (2 Canisters)	S1805	Condition # 4298 Parts 5 and 6 and 40CFR61.354 (d) and 40CFR61.349 (a)(2)(ii)		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

II. Equipment

Table II B – Abatement Devices

Abatement Device	Description	Source(s) Controlled	Applicable Requirement	Operating Parameters	Limit or Efficiency
2017	DNF Outlet Sump Water Scrubber (ETP 1)	S2007, S2008	None		
A2020	DNF Outlet Sump Carbon Adsorption for Water Scrubber (ETP 1)	S2007, S2008	None		None
A4002	SCR No. 1 for Delayed Coking Unit	S4002	Condition # 12271 Part 35	None	NOx < 10 ppmv, dry @ 15% O_2, averaged over 3 hr
A4003	SCR No. 2 for Delayed Coking Unit	S4003	Condition # 12271 Part 35	None	NOx < 10 ppmv, dry @ 15% O_2, averaged over 3 hr
A4005	Particulate Collection Device for Delayed Coking Unit for Coke Corral	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	NOx < 10 ppmv, dry @ 15% O_2, averaged over 3 hr
A4161	SCR for Hydrogen Plant 3 Steam Methane Reformer	S4161	Condition # 12271 Part 29	None	NOx < 10ppmv, 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
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 ≥ 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	< 250 ppmvd SO2 at 0% oxygen, 12-hour rolling average
A4190	SCR No. 1 for Boiler 6	S4191, S4190	Condition # 12271 Part 24c	None	NOx < 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	NOx < 5 ppmv, dry @ 15% O_2, averaged over 3 hr
A4192	SCR No. 2 for Boiler 6	S4193, S4192	Condition # 12271 Part 24c	None	NOx < 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

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
30	Tank 30	2-1-123.3.2 2-1-123.3.3

II. Equipment

Source Number	Source Description	Permit Exemption
31	Tank 31	2-1-123.3.2 2-1-123.3.3
32	Tank 32	2-1-123.3.2 2-1-123.3.3
33	Tank 33	2-1-123.3.2 2-1-123.3.3
35	Tank 35	2-1-123.3.2 2-1-123.3.3
36	Tank 36	2-1-123.3.2 2-1-123.3.3
38	Tank 38	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
56	Tank 56	2-1-103
84	Tank 84	2-1-123.3.2 2-1-123.3.3
90	Tank 90	2-1-123.3.2 2-1-123.3.3
109	Tank 109	2-1-123.3.2 2-1-123.3.3

II. Equipment

Source Number	Source Description	Permit Exemption
130	Tank 130	2-1-123.3.2
145	Tank 145	2-1-123.3.2 2-1-123.3.3
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
259	Tank 259	2-1-123.3.2 2-1-123.3.3
260	Tank 260	2-1-123.3.2 2-1-123.3.3
261	Tank 261	2-1-123.3.2 2-1-123.3.3
262	Tank 262	2-1-123.3.2 2-1-123.3.3
263	Tank 263	2-1-123.3.2 2-1-123.3.3

II. Equipment

Source Number	Source Description	Permit Exemption
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
343	Tank 343	2-1-123.3.2 2-1-123.3.3
344	Tank 344	2-1-123.3.2 2-1-123.3.3
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
368	Tank 368	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

II. Equipment

Source Number	Source Description	Permit Exemption
398	Tank 398	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
422	Tank 422	2-1-123.3.2 2-1-123.3.3
423	Tank 423	2-1-123.3.2 2-1-123.3.3
424	Tank 424	2-1-123.3.2 2-1-123.3.3
426	Tank 426	2-1-123.3.2 2-1-123.3.3
427	Tank 427	2-1-123.3.2 2-1-123.3.3
428	Tank 428	2-1-123.3.2 2-1-123.3.3
467	Tank 467	2-1-123.3.3
468	Tank 468	2-1-123.3.3

II. Equipment

Source Number	Source Description	Permit Exemption
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
478	Tank 478	2-1-123.3.2 2-1-123.3.3
485	Tank 485	2-1-123.3.2
514	Tank 514	2-1-123.3.2 2-1-123.3.3
523	Tank 523	2-1-123.3.2 2-1-123.3.3
524	Tank 524	2-1-123.3.2 2-1-123.3.3
525	Tank 525	2-1-123.3.2
526	Tank 526	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

II. Equipment

Source Number	Source Description	Permit Exemption
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
786	Tank 786	2-1-123.3.2 2-1-123.3.3
787	Tank 787	2-1-123.3.2 2-1-123.3.3
804	Tank 804	2-1-123.3.2 2-1-123.3.3
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
822	Tank 822	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
835	Tank 835	2-1-123.3.2

II. Equipment

Source Number	Source Description	Permit Exemption
837	Tank 837	2-1-123.3.2 2-1-123.3.3
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
877	Tank 877	2-1-123.3.2 2-1-123.3.3
879	Tank 879	2-1-123.3.2 2-1-123.3.3
880	Tank 880	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
926	Tank 926	2-1-123.3.2 2-1-123.3.3

II. Equipment

Source Number	Source Description	Permit Exemption
927	Tank 927	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
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
942	Tank 942	2-1-123.3.2 2-1-123.3.3
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
957	Tank 957	2-1-123.3.2 2-1-123.3.3

II. Equipment

Source Number	Source Description	Permit Exemption
958	Tank 958	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
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
993	Tank 993	2-1-123.3.2 2-1-123.3.3
1000	Tank 1000	2-1-123.3.2 2-1-123.3.3
1001	Tank 1001	2-1-123.3.3

II. Equipment

Source Number	Source Description	Permit Exemption
1003	Tank 1003	2-1-123.3.3
1009	Tank 1009	2-1-123.3.2 2-1-123.3.3
1012	Tank 1012	2-1-123.3.2 2-1-123.3.3
1013	Tank 1013	2-1-123.3.2 2-1-123.3.3
1020	Tank 1020	2-1-123.2
1024	Tank 1024	2-1-123.3.3
1026	Tank 1026	2-1-123.3.2
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

II. Equipment

Source Number	Source Description	Permit Exemption
1052	Tank 1052	2-1-123.3.2 2-1-123.3.3
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

II. Equipment

Source Number	Source Description	Permit Exemption
1069	Tank 1069	2-1-123.3.2 2-1-123.3.3
1071	Tank 1071	2-1-123.3.2 2-1-123.3.3
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

II. Equipment

Source Number	Source Description	Permit Exemption
1149	V 1049 Butane Sphere	2-1-123.3.1
1150	V 1150 Butane Sphere	2-1-123.3.1
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
1185	Tank 1185	2-1-103
1190	Tank 1190	2-1-123.3.3
1231	Tank 1231 Fresh DEA	2-1-123.3.2 2-1-123.3.3

II. Equipment

Source Number	Source Description	Permit Exemption
1347	Tank 1347	2-1-123.3.2
1348	Tank 1348	2-1-123.3.2
1564	Tank 1564	2-1-123.3.2
1780	Tank 1338 Butane Sphere	2-1-123.3.1
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.

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 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 (5/2/01)	N
SIP Regulation 1	General Provisions and Definitions (6/28/99)	Y
BAAQMD Regulation 2, Rule 1	General Requirements (8/1/01)	N
BAAQMD 2-1-429	Federal Emissions Statement (6/7/95)	Y
SIP Regulation 2, Rule 1	General Requirements (6/7/95)	Y
BAAQMD Regulation 4	Air Pollution Episode Plan (3/20/91)	N
SIP Regulation 4	Air Pollution Episode Plan (8/06/90)	Y
BAAQMD Regulation 5	Open Burning (3/6/02)	N
SIP Regulation 5	Open Burning (9/4/98)	Y
BAAQMD Regulation 6	Particulate Matter and Visible Emissions (09/04/98)	Y

III. Generally Applicable Requirements

Table III
Generally Applicable Requirements

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)
BAAQMD Regulation 7	Odorous Substances (3/17/82)	N
BAAQMD Regulation 8, Rule 1	Organic Compounds - General Provisions (6/15/94)	Y
BAAQMD Regulation 8, Rule 2	Organic Compounds – Miscellaneous Operations (06/15/94)	Y
BAAQMD Regulation 8, Rule 3	Organic Compounds - Architectural Coatings (11/21/01)	N
SIP Regulation 8, Rule 3	Organic Compounds - Architectural Coatings (2/18/98)	Y
BAAQMD Regulation 8, Rule 4	Organic compounds - General Solvent and Surface Coating Operations (10/16/02)	N
SIP Regulation 8, Rule 4	Organic compounds - General Solvent and Surface Coating Operations (12/23/97)	Y
BAAQMD Regulation 8, Rule 15	Organic Compounds – Emulsified and Liquid Asphalts (6/1/94)	Y
BAAQMD Regulation 8, Rule 16, Section 302.1	Organic Compounds – Solvent Cleaning Operations, Conveyorized Solvent Cleaner Requirements, General Requirements (10/16/2002)	Y
BAAQMD Regulation 8, Rule 16, Section 302.2	Organic Compounds – Solvent Cleaning Operations, Conveyorized Solvent Cleaner Requirements, General Equipment Requirements (10/16/2002)	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)	Y
BAAQMD Regulation 8, Rule 19, Section 307	Organic Compounds – Surface Coating of Miscellaneous Metal Parts and Products, Prohibition of Specification (10/16/2002)	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)	Y
BAAQMD Regulation 8, Rule 40	Organic Compounds – Aeration of Contaminated Soil and Removal of Underground Storage Tanks (04/19/2001)	Y
BAAQMD Regulation 8, Rule 47	Organic Compounds - Air Stripping and Soil Vapor Extraction Operations (6/15/94)	Y
BAAQMD Regulation 8, Rule 49	Organic Compounds - Aerosol Paint Products (12/20/95)	N
SIP Regulation 8, Rule 49	Organic Compounds - Aerosol Paint Products (3/22/95)	Y

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 51	Organic Compounds - Adhesive and Sealant Products (7/17/02)	N
SIP Regulation 8, Rule 51	Organic Compounds - Adhesive and Sealant Products (2/26/02)	Y
BAAQMD Regulation 9, Rule 1-110	Conditional Exemption for facilities performing SO2 Area Monitoring (GLM). (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)	Y
BAAQMD Regulation 11, Rule 10	Hazardous Pollutants – Hexavalent Chromium Emissions from Cooling Towers (11/15/99)	Y
BAAQMD Regulation 12, Rule 4	Miscellaneous Standards of Performance - Sandblasting (7/11/90)	N
SIP Regulation 12, Rule 4	Miscellaneous Standards of Performance - Sandblasting (9/2/81)	N
EPA Regulation 40 CFR 82	Protection of Stratospheric Ozone (2/21/95)	Y
Subpart F, 40 CFR 82.156	Leak Repair	Y
Subpart F, 40 CFR 82.161	Certification of Technicians	Y
Subpart F, 40 CFR 82.166	Records of Refrigerant	Y
Subpart 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 (6/19/95)	Y

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

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

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

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

The full text of each permit condition cited is included in Section VI, Permit Conditions, of this permit. The full language of SIP requirements is on EPA Region 9's website. The address is 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 (06/05/03)**		
8-5-117	Exemption, Low Vapor Pressure	Y	
Refinery MACT	**NESHAP for Petroleum Refineries** **REQUIREMENTS FOR RECORDKEEPING ONLY – GROUP 2 TANKS**		

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
63.642(e)	**General recordkeeping requirements:** Time period for keeping records, unless specified otherwise.	63.642(e) & 63.654(i)(4) **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) & 63.654(i)(4) **required**	Y	
63.654(i)	**Applicability records:** Time period for keeping records of applicability determination, unless specified otherwise.	63.654(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?	63.654(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.	63.654(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 – B
SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

S3 - TANK 3, S4 - TANK 4, S13 - TANK 13, S14 - TANK 14, S20 - TANK 20, S21 - TANK 21 ASPHALT STORAGE,S22 - TANK 22 ASPHALT STORAGE, S23 - TANK 23 ASPHALT STORAGE, S24 - TANK 24 ASPHALT STORAGE,S26 - TANK 26 ASPHALT STORAGE, S129 - TANK 129, S257 - TANK 257, S483 - TANK 483, S484 - TANK 484, S497 - TANK 497 ASPHALT STORAGE, S530 - TANK 530, S532 - TANK 532, S541 - TANK 541, S545 - TANK 545, S548 - TANK 548, S552 - TANK 552 ASPHALT STORAGE, S553 - TANK 553 ASPHALT STORAGE, S554 - TANK 554 ASPHALT STORAGE, S555 - TANK 555 ASPHALT STORAGE, S556 - TANK 556 ASPHALT STORAGE, S557 - TANK 557 ASPHALT STORAGE, S558 - TANK 558 ASPHALT STORAGE, S559 - TANK 559 ASPHALT STORAGE, S560 - TANK 560 ASPHALT STORAGE, S561 - TANK 561 ASPHALT STORAGE, S567 - TANK 567 ASPHALT STORAGE, S568 - TANK 568, S572 - TANK 572 ASPHALT STORAGE, S573 - TANK 573 ASPHALT STORAGE, S598 - TANK 598 ASPHALT STORAGE, S610 - TANK 610, S611 - TANK 611, S612 - TANK 612, S613 - TANK 613, S815 - TANK 815 ASPHALT STORAGE, S860 - TANK 860, S861 - TANK 861, S967 - TANK 967, S985 - TANK 985 ASPHALT STORAGE, S1004 - TANK 1004, S1006 - TANK 1006, S1031 - TANK 1031, S1043 - TANK 1043 ASPHALT STORAGE, S1044 - TANK 1044 ASPHALT STORAGE, S1045 - TANK 1045 ASPHALT STORAGE, S1046 - TANK 1046, S1051 - TANK 1051, S1076 - TANK 1076, S1129 - TANK 1129, S1130 - TANK 1130, S1131 - TANK 1131, S1134 - TANK 1134, S1140 - TANK 1140, , S1146 - TANK 1146, S1147 - TANK 1147, S1159 - TANK 1159, S1160 - TANK 1160 ASPHALT STORAGE, S1161 - TANK 1161, S1235 - TANK 739 CHEM STORAGE, S1236 - TANK 740 CHEM STORAGE, S1133 - TANK 1133, S1409 - LUBS SULFONATION PLANT (SULF), S1411 - LUBS ATMOSPHERIC DISTILLATION LDU, S1415 - LUBS FURFURAL PLANT (SEP3), S1416 - LUBS LUBE HYDROTREATER 1 (LHT1),, S1417 - OPCEN DISTILLATE SATURATION UNIT (DSU), S1420 - DH CRUDE UNIT (CU), S1423 - DH GAS OIL STRAIGHTRUN HYDROTREATER (GOHT), S1424 - DH NAPHTHA STRAIGHTRUN HYDROTREATER (NHT), S1425 - DH CATALYTIC REFORMER UNIT (CRU), S1426 - CP CATALYTIC CRACKING UNIT (CCU), S1428 - CP CATALYTIC FEED HYDROTREATER (CFH), S1429 - CP CATALYTIC GASOLINE HYDROTREATER (CGH), S1430 - CP ALKYLATION PLANT (ALKY), S1431 - CP SULFUR PLANT 1 (SRU1), S1432 - CP SULFUR PLANT 2 (SRU2), S1445 - DH HYDROGEN PLANT 1 (HP1), S1449 - DH HYDROCRACKING UNIT (HCU), S1507 - UTIL CO BOILER 1, S1509 - UTIL CO BOILER 2, S1512 - UTIL CO BOILER 3, S1751 - TANK 1330, S1752 - TANK 1331, S1753 - TANK 1332 GASOLINE, S1754 - TANK 1333 GASOLINE, S1755 - TANK 1334 GASOLINE, S1756 - TANK 1335 GASOLINE, S1757 - TANK 1336, S1758 - TANK 1337, S1759 - OPCEN FLEXICOKER (FXU), S1764 - OPCEN DIMERSOL PLANT (DIMER), S1765 - OPCEN SULFUR PLANT 3 (SRU3), S1774 - OPCEN HYDROGEN PLANT 2 (HP2), S1900 - MAINT_MACHINE SHOP PARTS CLEANER, S1903 - MAINT PAINT SHOP SOLVENT TUB , S3000 - PORTABLE VACUUM DISTILLATION UNIT (CCR TECHNOLOGIES INC.), S4001 - DC DELAYED COKING UNIT (DCU), S4020 - DC DISTILLATE HYDROTREATER (DHT), S4080 - DC ISOMERIZATION UNIT (ISOM), S4140 - DC HEAVY CRACKED GASOLINE HYDROTREATER (HGHT), S4160 - DC HYDROGEN PLANT –3 (HP3), S4170 - LUBS LUBE HYDROTREATER 2 (LHT2), S4180 - OPCEN SULFUR PLANT 4 (SRU4), SS4334 - TANK13276 ALKYLATE 4190 - UTIL BOILER 6 GAS TURBINE 1, 4191 - UTIL BOILER 6 SUPPLEMENTAL STEAM GENERATOR 1, 4192 - UTIL BOILER 6 GAS TURBINE 2, 4193 UTIL BOILER 6 SUPPLEMENTAL STEAM GENERATOR 2

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

IV. Source Specific Applicable Requirements

TABLE IV – B
SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

S3 - TANK 3, S4 - TANK 4, S13 - TANK 13, S14 - TANK 14, S20 - TANK 20, S21 - TANK 21 ASPHALT STORAGE,S22 - TANK 22 ASPHALT STORAGE, S23 - TANK 23 ASPHALT STORAGE, S24 - TANK 24 ASPHALT STORAGE,S26 - TANK 26 ASPHALT STORAGE, S129 - TANK 129, S257 - TANK 257, S483 - TANK 483, S484 - TANK 484, S497 - TANK 497 ASPHALT STORAGE, S530 - TANK 530, S532 - TANK 532, S541 - TANK 541, S545 - TANK 545, S548 - TANK 548, S552 - TANK 552 ASPHALT STORAGE, S553 - TANK 553 ASPHALT STORAGE, S554 - TANK 554 ASPHALT STORAGE, S555 - TANK 555 ASPHALT STORAGE, S556 - TANK 556 ASPHALT STORAGE, S557 - TANK 557 ASPHALT STORAGE, S558 - TANK 558 ASPHALT STORAGE, S559 - TANK 559 ASPHALT STORAGE, S560 - TANK 560 ASPHALT STORAGE, S561 - TANK 561 ASPHALT STORAGE, S567 - TANK 567 ASPHALT STORAGE, S568 - TANK 568, S572 - TANK 572 ASPHALT STORAGE, S573 - TANK 573 ASPHALT STORAGE, S598 - TANK 598 ASPHALT STORAGE, S610 - TANK 610, S611 - TANK 611, S612 - TANK 612, S613 - TANK 613, S815 - TANK 815 ASPHALT STORAGE, S860 - TANK 860, S861 - TANK 861, S967 - TANK 967, S985 - TANK 985 ASPHALT STORAGE, S1004 - TANK 1004, S1006 - TANK 1006, S1031 - TANK 1031, S1043 - TANK 1043 ASPHALT STORAGE, S1044 - TANK 1044 ASPHALT STORAGE, S1045 - TANK 1045 ASPHALT STORAGE, S1046 - TANK 1046, S1051 - TANK 1051, S1076 - TANK 1076, S1129 - TANK 1129, S1130 - TANK 1130, S1131 - TANK 1131, S1134 - TANK 1134, S1140 - TANK 1140, , S1146 - TANK 1146, S1147 - TANK 1147, S1159 - TANK 1159, S1160 - TANK 1160 ASPHALT STORAGE, S1161 - TANK 1161, S1235 - TANK 739 CHEM STORAGE, S1236 - TANK 740 CHEM STORAGE, S1133 - TANK 1133, S1409 - LUBS SULFONATION PLANT (SULF), S1411 - LUBS ATMOSPHERIC DISTILLATION LDU, S1415 - LUBS FURFURAL PLANT (SEP3), S1416 - LUBS LUBE HYDROTREATER 1 (LHT1),, S1417 - OPCEN DISTILLATE SATURATION UNIT (DSU), S1420 - DH CRUDE UNIT (CU), S1423 - DH GAS OIL STRAIGHTRUN HYDROTREATER (GOHT), S1424 - DH NAPHTHA STRAIGHTRUN HYDROTREATER (NHT), S1425 - DH CATALYTIC REFORMER UNIT (CRU), S1426 - CP CATALYTIC CRACKING UNIT (CCU), S1428 - CP CATALYTIC FEED HYDROTREATER (CFH), S1429 - CP CATALYTIC GASOLINE HYDROTREATER (CGH), S1430 - CP ALKYLATION PLANT (ALKY), S1431 - CP SULFUR PLANT 1 (SRU1), S1432 - CP SULFUR PLANT 2 (SRU2), S1445 - DH HYDROGEN PLANT 1 (HP1), S1449 - DH HYDROCRACKING UNIT (HCU), S1507 - UTIL CO BOILER 1, S1509 - UTIL CO BOILER 2, S1512 - UTIL CO BOILER 3, S1751 - TANK 1330, S1752 - TANK 1331, S1753 - TANK 1332 GASOLINE, S1754 - TANK 1333 GASOLINE, S1755 - TANK 1334 GASOLINE, S1756 - TANK 1335 GASOLINE, S1757 - TANK 1336, S1758 - TANK 1337, S1759 - OPCEN FLEXICOKER (FXU), S1764 - OPCEN DIMERSOL PLANT (DIMER), S1765 - OPCEN SULFUR PLANT 3 (SRU3), S1774 - OPCEN HYDROGEN PLANT 2 (HP2), S1900 - MAINT_MACHINE SHOP PARTS CLEANER, S1903 - MAINT PAINT SHOP SOLVENT TUB , S3000 - PORTABLE VACUUM DISTILLATION UNIT (CCR TECHNOLOGIES INC.), S4001 - DC DELAYED COKING UNIT (DCU), S4020 - DC DISTILLATE HYDROTREATER (DHT), S4080 - DC ISOMERIZATION UNIT (ISOM), S4140 - DC HEAVY CRACKED GASOLINE HYDROTREATER (HGHT), S4160 - DC HYDROGEN PLANT –3 (HP3), S4170 - LUBS LUBE HYDROTREATER 2 (LHT2), S4180 - OPCEN SULFUR PLANT 4 (SRU4), SS4334 - TANK13276 ALKYLATE 4190 - UTIL BOILER 6 GAS TURBINE 1, 4191 - UTIL BOILER 6 SUPPLEMENTAL STEAM GENERATOR 1, 4192 - UTIL BOILER 6 GAS TURBINE 2, 4193 UTIL BOILER 6 SUPPLEMENTAL STEAM GENERATOR 2

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Condition # 18618			

IV. Source Specific Applicable Requirements

TABLE IV – B
SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

S3 - TANK 3, S4 - TANK 4, S13 - TANK 13, S14 - TANK 14, S20 - TANK 20, S21 - TANK 21 ASPHALT STORAGE,S22 - TANK 22 ASPHALT STORAGE, S23 - TANK 23 ASPHALT STORAGE, S24 - TANK 24 ASPHALT STORAGE,S26 - TANK 26 ASPHALT STORAGE, S129 - TANK 129, S257 - TANK 257, S483 - TANK 483, S484 - TANK 484, S497 - TANK 497 ASPHALT STORAGE, S530 - TANK 530, S532 - TANK 532, S541 - TANK 541, S545 - TANK 545, S548 - TANK 548, S552 - TANK 552 ASPHALT STORAGE, S553 - TANK 553 ASPHALT STORAGE, S554 - TANK 554 ASPHALT STORAGE, S555 - TANK 555 ASPHALT STORAGE, S556 - TANK 556 ASPHALT STORAGE, S557 - TANK 557 ASPHALT STORAGE, S558 - TANK 558 ASPHALT STORAGE, S559 - TANK 559 ASPHALT STORAGE, S560 - TANK 560 ASPHALT STORAGE, S561 - TANK 561 ASPHALT STORAGE, S567 - TANK 567 ASPHALT STORAGE, S568 - TANK 568, S572 - TANK 572 ASPHALT STORAGE, S573 - TANK 573 ASPHALT STORAGE, S598 - TANK 598 ASPHALT STORAGE, S610 - TANK 610, S611 - TANK 611, S612 - TANK 612, S613 - TANK 613, S815 - TANK 815 ASPHALT STORAGE, S860 - TANK 860, S861 - TANK 861, S967 - TANK 967, S985 - TANK 985 ASPHALT STORAGE, S1004 - TANK 1004, S1006 - TANK 1006, S1031 - TANK 1031, S1043 - TANK 1043 ASPHALT STORAGE, S1044 - TANK 1044 ASPHALT STORAGE, S1045 - TANK 1045 ASPHALT STORAGE, S1046 - TANK 1046, S1051 - TANK 1051, S1076 - TANK 1076, S1129 - TANK 1129, S1130 - TANK 1130, S1131 - TANK 1131, S1134 - TANK 1134, S1140 - TANK 1140, , S1146 - TANK 1146, S1147 - TANK 1147, S1159 - TANK 1159, S1160 - TANK 1160 ASPHALT STORAGE, S1161 - TANK 1161, S1235 - TANK 739 CHEM STORAGE, S1236 - TANK 740 CHEM STORAGE, S1133 - TANK 1133, S1409 - LUBS SULFONATION PLANT (SULF), S1411 - LUBS ATMOSPHERIC DISTILLATION LDU, S1415 - LUBS FURFURAL PLANT (SEP3), S1416 - LUBS LUBE HYDROTREATER 1 (LHT1),, S1417 - OPCEN DISTILLATE SATURATION UNIT (DSU), S1420 - DH CRUDE UNIT (CU), S1423 - DH GAS OIL STRAIGHTRUN HYDROTREATER (GOHT), S1424 - DH NAPHTHA STRAIGHTRUN HYDROTREATER (NHT), S1425 - DH CATALYTIC REFORMER UNIT (CRU), S1426 - CP CATALYTIC CRACKING UNIT (CCU), S1428 - CP CATALYTIC FEED HYDROTREATER (CFH), S1429 - CP CATALYTIC GASOLINE HYDROTREATER (CGH), S1430 - CP ALKYLATION PLANT (ALKY), S1431 - CP SULFUR PLANT 1 (SRU1), S1432 - CP SULFUR PLANT 2 (SRU2), S1445 - DH HYDROGEN PLANT 1 (HP1), S1449 - DH HYDROCRACKING UNIT (HCU), S1507 - UTIL CO BOILER 1, S1509 - UTIL CO BOILER 2, S1512 - UTIL CO BOILER 3, S1751 - TANK 1330, S1752 - TANK 1331, S1753 - TANK 1332 GASOLINE, S1754 - TANK 1333 GASOLINE, S1755 - TANK 1334 GASOLINE, S1756 - TANK 1335 GASOLINE, S1757 - TANK 1336, S1758 - TANK 1337, S1759 - OPCEN FLEXICOKER (FXU), S1764 - OPCEN DIMERSOL PLANT (DIMER), S1765 - OPCEN SULFUR PLANT 3 (SRU3), S1774 - OPCEN HYDROGEN PLANT 2 (HP2), S1900 - MAINT_MACHINE SHOP PARTS CLEANER, S1903 - MAINT PAINT SHOP SOLVENT TUB , S3000 - PORTABLE VACUUM DISTILLATION UNIT (CCR TECHNOLOGIES INC.), S4001 - DC DELAYED COKING UNIT (DCU), S4020 - DC DISTILLATE HYDROTREATER (DHT), S4080 - DC ISOMERIZATION UNIT (ISOM), S4140 - DC HEAVY CRACKED GASOLINE HYDROTREATER (HGHT), S4160 - DC HYDROGEN PLANT –3 (HP3), S4170 - LUBS LUBE HYDROTREATER 2 (LHT2), S4180 - OPCEN SULFUR PLANT 4 (SRU4), SS4334 - TANK13276 ALKYLATE 4190 - UTIL BOILER 6 GAS TURBINE 1, 4191 - UTIL BOILER 6 SUPPLEMENTAL STEAM GENERATOR 1, 4192 - UTIL BOILER 6 GAS TURBINE 2, 4193 UTIL BOILER 6 SUPPLEMENTAL STEAM GENERATOR 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	

IV. Source Specific Applicable Requirements

TABLE IV – B
SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

S3 - TANK 3, S4 - TANK 4, S13 - TANK 13, S14 - TANK 14, S20 - TANK 20, S21 - TANK 21 ASPHALT STORAGE,S22 - TANK 22 ASPHALT STORAGE, S23 - TANK 23 ASPHALT STORAGE, S24 - TANK 24 ASPHALT STORAGE,S26 - TANK 26 ASPHALT STORAGE, S129 - TANK 129, S257 - TANK 257, S483 - TANK 483, S484 - TANK 484, S497 - TANK 497 ASPHALT STORAGE, S530 - TANK 530, S532 - TANK 532, S541 - TANK 541, S545 - TANK 545, S548 - TANK 548, S552 - TANK 552 ASPHALT STORAGE, S553 - TANK 553 ASPHALT STORAGE, S554 - TANK 554 ASPHALT STORAGE, S555 - TANK 555 ASPHALT STORAGE, S556 - TANK 556 ASPHALT STORAGE, S557 - TANK 557 ASPHALT STORAGE, S558 - TANK 558 ASPHALT STORAGE, S559 - TANK 559 ASPHALT STORAGE, S560 - TANK 560 ASPHALT STORAGE, S561 - TANK 561 ASPHALT STORAGE, S567 - TANK 567 ASPHALT STORAGE, S568 - TANK 568, S572 - TANK 572 ASPHALT STORAGE, S573 - TANK 573 ASPHALT STORAGE, S598 - TANK 598 ASPHALT STORAGE, S610 - TANK 610, S611 - TANK 611, S612 - TANK 612, S613 - TANK 613, S815 - TANK 815 ASPHALT STORAGE, S860 - TANK 860, S861 - TANK 861, S967 - TANK 967, S985 - TANK 985 ASPHALT STORAGE, S1004 - TANK 1004, S1006 - TANK 1006, S1031 - TANK 1031, S1043 - TANK 1043 ASPHALT STORAGE, S1044 - TANK 1044 ASPHALT STORAGE, S1045 - TANK 1045 ASPHALT STORAGE, S1046 - TANK 1046, S1051 - TANK 1051, S1076 - TANK 1076, S1129 - TANK 1129, S1130 - TANK 1130, S1131 - TANK 1131, S1134 - TANK 1134, S1140 - TANK 1140, , S1146 - TANK 1146, S1147 - TANK 1147, S1159 - TANK 1159, S1160 - TANK 1160 ASPHALT STORAGE, S1161 - TANK 1161, S1235 - TANK 739 CHEM STORAGE, S1236 - TANK 740 CHEM STORAGE, S1133 - TANK 1133, S1409 - LUBS SULFONATION PLANT (SULF), S1411 - LUBS ATMOSPHERIC DISTILLATION LDU, S1415 - LUBS FURFURAL PLANT (SEP3), S1416 - LUBS LUBE HYDROTREATER 1 (LHT1),, S1417 - OPCEN DISTILLATE SATURATION UNIT (DSU), S1420 - DH CRUDE UNIT (CU), S1423 - DH GAS OIL STRAIGHTRUN HYDROTREATER (GOHT), S1424 - DH NAPHTHA STRAIGHTRUN HYDROTREATER (NHT), S1425 - DH CATALYTIC REFORMER UNIT (CRU), S1426 - CP CATALYTIC CRACKING UNIT (CCU), S1428 - CP CATALYTIC FEED HYDROTREATER (CFH), S1429 - CP CATALYTIC GASOLINE HYDROTREATER (CGH), S1430 - CP ALKYLATION PLANT (ALKY), S1431 - CP SULFUR PLANT 1 (SRU1), S1432 - CP SULFUR PLANT 2 (SRU2), S1445 - DH HYDROGEN PLANT 1 (HP1), S1449 - DH HYDROCRACKING UNIT (HCU), S1507 - UTIL CO BOILER 1, S1509 - UTIL CO BOILER 2, S1512 - UTIL CO BOILER 3, S1751 - TANK 1330, S1752 - TANK 1331, S1753 - TANK 1332 GASOLINE, S1754 - TANK 1333 GASOLINE, S1755 - TANK 1334 GASOLINE, S1756 - TANK 1335 GASOLINE, S1757 - TANK 1336, S1758 - TANK 1337, S1759 - OPCEN FLEXICOKER (FXU), S1764 - OPCEN DIMERSOL PLANT (DIMER), S1765 - OPCEN SULFUR PLANT 3 (SRU3), S1774 - OPCEN HYDROGEN PLANT 2 (HP2), S1900 - MAINT_MACHINE SHOP PARTS CLEANER, S1903 - MAINT PAINT SHOP SOLVENT TUB , S3000 - PORTABLE VACUUM DISTILLATION UNIT (CCR TECHNOLOGIES INC.), S4001 - DC DELAYED COKING UNIT (DCU), S4020 - DC DISTILLATE HYDROTREATER (DHT), S4080 - DC ISOMERIZATION UNIT (ISOM), S4140 - DC HEAVY CRACKED GASOLINE HYDROTREATER (HGHT), S4160 - DC HYDROGEN PLANT –3 (HP3), S4170 - LUBS LUBE HYDROTREATER 2 (LHT2), S4180 - OPCEN SULFUR PLANT 4 (SRU4), SS4334 - TANK13276 ALKYLATE 4190 - UTIL BOILER 6 GAS TURBINE 1, 4191 - UTIL BOILER 6 SUPPLEMENTAL STEAM GENERATOR 1, 4192 - UTIL BOILER 6 GAS TURBINE 2, 4193 UTIL BOILER 6 SUPPLEMENTAL STEAM GENERATOR 2

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 – Ca
Source-specific Applicable Requirements
S4307 TANK 14687 MDEA MAKE-UP

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 (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	
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	

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
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 TANKS ALSO SUBJECT TO NSPS Kb** **REQUIREMENTS FOR RECORDKEEPING ONLY**		
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	
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 51	Degassing abatement requirements [basis: BACT]	Y	

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
	See Table IV – AEc for additional requirements.		
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, S-534 – 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
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	

IV. Source Specific Applicable Requirements

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)	Y	
Part 2	RVP limit (basis: Cumulative Increase)	Y	
Part 3	Abatement requirement (basis: BACT, Cumulative Increase)	Y	
Part 4	Recordkeeping (basis: Cumulative Increase)	Y	

IV. Source Specific Applicable Requirements

Table IV – Ec
Source-specific Applicable Requirements
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
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 Ka; BAAQMD 10-16	**Storage Vessels for Petrolum Liquid REQUIREMENTS FOR FIXED ROOF TANK-CONTROL DEVICE**		
60.112a(a)	**Control device** Performance requirements: 60.112a(a)(3) **at least 95% efficient**	Y	

IV. Source Specific Applicable Requirements

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

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 6	**Particulate Matter and Visible Emissions (09/04/98)**		
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	
Refinery MACT	**NESHAP for Petroleum Refineries** **REQUIREMENTS FOR RECORDKEEPING ONLY – GROUP 2 TANKS**		
63.642(e)	**General recordkeeping requirements:** 63.642(e) & 63.654(i)(4) Time period for keeping records, unless specified otherwise. **keep all other records 5 years, retrievable within 24 hr**	Y	

IV. Source Specific Applicable Requirements

Table IV - Ha
Source-specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement		Federally Enforceable (Y/N)	Future Effective Date
	General recordkeeping requirements: Keep all reports and notification for the specified period of time.	63.642(e) & 63.654(i)(4) **required**	Y	
63.654(i)	**Applicability records:** Time period for keeping records of applicability determination, unless specified otherwise.	63.654(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?	63.654(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.	63.654(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 - 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
S1539 – LUBS LR-25 LOADING RACK ACID SLUDGE AND SULFONATION T/T

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 6	**Particulate Matter and Visible Emissions (09/04/98)**		
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	

TABLE IV – I
SOURCE-SPECIFIC APPLICABLE REQUIREMENTS
S63 – TANK 63
S355 – TANK 355
S432 – TANK 432
S568 – STORAGE 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 (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	

IV. Source Specific Applicable Requirements

TABLE IV – I
SOURCE-SPECIFIC APPLICABLE REQUIREMENTS
S63 – TANK 63
S355 – TANK 355
S432 – TANK 432
S568 – STORAGE TANK 568

Applicable Requirement	Regulation Title or Description of Requirement		Federally Enforceable (Y/N)	Future Effective Date
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	
Refinery MACT	**NESHAP for Petroleum Refineries** **REQUIREMENTS FOR RECORDKEEPING ONLY – GROUP 2 TANKS**			
63.642(e)	**General recordkeeping requirements:** Time period for keeping records, unless specified otherwise.	63.642(e) & 63.654(i)(4) **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) & 63.654(i)(4) **required**	Y	
63.654(i)	**Applicability records:** Time period for keeping records of applicability determination, unless specified otherwise.	63.654(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?	63.654(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.	63.654(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 – Ja
Source-specific Applicable Requirements
S129 - TANK 129, 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	**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	
Refinery MACT	**NESHAP for Petroleum Refineries REQUIREMENTS FOR EXTERNAL FLOATING ROOF TANKS – GROUP 1 TANKS**		
63.642(e)	**General recordkeeping requirements:** Time period for keeping records, unless specified otherwise. 63.642(e) & 63.654(i)(4) **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) & 63.654(i)(4) **required**	Y	

IV. Source Specific Applicable Requirements

Table IV – Ja
Source-specific Applicable Requirements
S129 - TANK 129, 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(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	
	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	

IV. Source Specific Applicable Requirements

Table IV – Ja
Source-specific Applicable Requirements
S129 - TANK 129, 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: 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	
	Seal Gap Measurements: For affected EFRTs with a mechanical-shoe or liquid-mounted primary-only rim seal, prior to installing a secondary seal; PRIOR TO COMPLIANCE: UPON COMPLIANCE:	63.646(a) 63.120(b)(1)(ii) **annual** **primary seal** **gap measurements** * 63.646(a) 63.120(b)(1)(ii) **measure gaps of both seals within 90 days**	Y	
	Seal Gap Measurements: FREQUENCY AFTER INITIAL COMPLIANCE, For the EFR Secondary Seal:	63.646(a) 63.120(b)(1)(iii) **annually**	Y	
	Seal Gap Measurements: For EFRTs returned to affected service after 1 year or more of exempt service:	63.646(a) 63.120(b)(1)(iv) **measure gaps of both seals within 90 days**	Y	
	MEASUREMENT COND'S: Are EFR seal gap measurements to be made with the roof floating?	63.646(a) 63.120(b)(2)(i) **YES**	Y	
	DETERMINATION OF EFR RIM-SEAL GAP AREAS: Presence of a gap determined by inserting a 1/8 in. probe?	63.646(a) 63.120(b)(2)(ii) **YES**	Y	

IV. Source Specific Applicable Requirements

Table IV – Ja
Source-specific Applicable Requirements
S129 - TANK 129, 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
	DETERMINATION OF EFR RIM-SEAL GAP AREAS: Use probes of various widths to determine the gap area?	63.646(a) 63.120(b)(2)(iii) **YES**	Y	
	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	

IV. Source Specific Applicable Requirements

Table IV – Ja
Source-specific Applicable Requirements
S129 - TANK 129, 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
	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?	63.646(a) 63.120(b)(8) **make repairs within 45 days** 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	
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) 63.654(h)(2)(I)(C)&(ii) **YES**	Y	
63.654(g)	Report of periodic inspections, etc. AFTER documenting initial compliance?	63.654(g) **begin Sept 13, 1999 then semiannual**	Y	

IV. Source Specific Applicable Requirements

Table IV – Ja
Source-specific Applicable Requirements
S129 - TANK 129, 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
	Periodic Reports: Report of EFR inspection failures to include:	63.654(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?	63.654(g)(2) - (4) **prior request is not required**	Y	
	Periodic Reports: Additional information to be included if an extension is utilized for an EFR:	63.654(g)(2)(i) 63.654(g)(3)(ii) **document the reason for the extension**	Y	
	Periodic Reports: Report EFR seal gap inspections if there was no out-of-compliance?	63.654(g)(3)(i) **Not required**	Y	
	Periodic Reports: Report EFR seal gap inspections when there is out-of-compliance?	63.654(g)(3)(i) **Required within 60 days after each semiannual period**	Y	
63.654(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?	63.654(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?	63.654(h)(2)(ii) 63.646(a) 63.120(b)(9) **REQUIRED**	Y	
63.654(i)	**Applicability records:** Time period for keeping records of applicability determination, unless specified otherwise.	63.654(I)(1) 63.123(a) **Keep record readily accessible for the service life of the tank**	Y	

IV. Source Specific Applicable Requirements

Table IV – Ja
Source-specific Applicable Requirements
S129 - TANK 129, 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
	Applicability records: Records of dimensions & capacity required for nonexempt tanks?	63.654(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.	63.654(I)(1) 63.123(c) - (e) **all inspections**	Y	
	Records of EFR inspection reports:	63.654(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.	63.654(I)(1) 63.123 (g) **required**	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	

Table IV – Jb
Source-specific Applicable Requirements
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

IV. Source Specific Applicable Requirements

Table IV – Jb
Source-specific Applicable Requirements
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	**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	
Refinery MACT	**NESHAP for Petroleum Refineries REQUIREMENTS FOR RECORDKEEPING ONLY – GROUP 2 TANKS**			
63.642(e)	**General recordkeeping requirements:** Time period for keeping records, unless specified otherwise.	63.642(e) & 63.654(i)(4) **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) & 63.654(i)(4) **required**	Y	
63.654(i)	**Applicability records:** Time period for keeping records of applicability determination, unless specified otherwise.	63.654(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?	63.654(i)(1) 63.123(a) **Required Keep record readily accessible for service life of the tank ***	Y	

IV. Source Specific Applicable Requirements

Table IV – Jb
Source-specific Applicable Requirements
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
	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	

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

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 (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 – Jc
Source-specific Applicable Requirements
S1755 – TANK 1334 GASOLINE, S1756 – TANK 1335 GASOLINE
S1191 - TANK -1256 CRUDE OIL STORAGE,
S1192 - TANK –1257 CRUDE OIL STORAGE,

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
NSPS Subpart Ka; BAAQMD 10-16	**Storage Vessels for Petrolum 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	
Refinery MACT	**NESHAP for Petroleum Refineries** **REQUIREMENTS FOR EXTERNAL FLOATING ROOF TANKS – GROUP 1 TANKS**		
63.642(e)	**General recordkeeping requirements:** Time period for keeping records, unless specified otherwise. 63.642(e) & 63.654(i)(4) **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) & 63.654(i)(4) **required**	Y	
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	

IV. Source Specific Applicable Requirements

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

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	
	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	
	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 – Jc
Source-specific Applicable Requirements
S1755 – TANK 1334 GASOLINE, S1756 – TANK 1335 GASOLINE
S1191 - TANK -1256 CRUDE OIL STORAGE,
S1192 - TANK –1257 CRUDE OIL STORAGE,

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

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement		Federally Enforceable (Y/N)	Future Effective Date
	EFR Secondary Seal Gap Inspection Criteria: maximum area: maximum gap width:	63.646(a) 63.120(b)(4) **1 in 2 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? If unable to make safe to measure, must the EFRT be emptied?	63.646(a) 63.120(b)(7)(i) **up to 30 additional days** 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: If unable to repair, empty the EFRT & remove from service?	63.646(a) 63.120(b)(8) **make repairs within 45 days** 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 – Jc
Source-specific Applicable Requirements
S1755 – TANK 1334 GASOLINE, S1756 – TANK 1335 GASOLINE
S1191 - TANK -1256 CRUDE OIL STORAGE,
S1192 - TANK –1257 CRUDE OIL STORAGE,

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) 63.654(h)(2)(i)(C)&(ii) **YES**	Y	
63.654(g)	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:	63.654(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?	63.654(g)(2) - (4) **prior request is not required**	Y	
	Periodic Reports: Additional information to be included if an extension is utilized for an EFR:	63.654(g)(2)(i) 63.654(g)(3)(ii) **document the reason for the extension**	Y	
	Periodic Reports: Report EFR seal gap inspections if there was no out-of-compliance?	63.654(g)(3)(i) **Not required**	Y	
	Periodic Reports: Report EFR seal gap inspections when there is out-of-compliance?	63.654(g)(3)(i) **Required within 60 days after each semiannual period**	Y	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement		Federally Enforceable (Y/N)	Future Effective Date
63.654(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?	63.654(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?	63.654(h)(2)(ii) 63.646(a) 63.120(b)(9) **REQUIRED**	Y	
63.654(i)	**Applicability records:** Time period for keeping records of applicability determination, unless specified otherwise.	63.654(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?	63.654(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.	63.654(i)(1) 63.123(c) - (e) **all inspections**	Y	
	Records of EFR inspection reports:	63.654(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.	63.654(i)(1) 63.123 (g) **required**	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 – 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
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 (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	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
MACT 40 CFR 63 Subpart CC	**National Emissions Standards for Hazardous Air Pollutants from Petroleum Refineries (8/18/95)**		
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 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	Reporting and recordkeeping requirements	Y	
63.654(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(i)(4)	All information required to be reported under 63.654(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	

IV. Source Specific Applicable Requirements

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

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)**		
61.340	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	
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 – M
Source-specific Applicable Requirements
S532 - TANK 532

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	
61.349	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 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	

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
S858 - TANK 858, S952 - TANK 952, S1023 - TANK 1023, S1050 TANK 1050, 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
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	
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	

IV. Source Specific Applicable Requirements

Table IV – R
Source-specific Applicable Requirements
S858 - TANK 858, S952 - TANK 952, S1023 - TANK 1023, S1050 TANK 1050, 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
	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	
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 annualar 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	

IV. Source Specific Applicable Requirements

Table IV – R
Source-specific Applicable Requirements
S858 - TANK 858, S952 - TANK 952, S1023 - TANK 1023, S1050 TANK 1050, 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
	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	
	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	

IV. Source Specific Applicable Requirements

Table IV – R
Source-specific Applicable Requirements
S858 - TANK 858, S952 - TANK 952, S1023 - TANK 1023, S1050 TANK 1050, 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
	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	
	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 both 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	

IV. Source Specific Applicable Requirements

Table IV – R
Source-specific Applicable Requirements
S858 - TANK 858, S952 - TANK 952, S1023 - TANK 1023, S1050 TANK 1050, 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
	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	
60.115b	**Recordkeeping for inspections:** Keep inspection reports as specified.	60.115b **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: Report of IFR/CFR inspections that find out-of-compliance?	60.115b(a)(3) & (4) **Required within 30 days for in-service inspections * (not required for out-of-service inspections)**	Y	
	Periodic Reports: Report of IFR/CFR inspection failures to include:	60.115b(a)(3) & (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	

IV. Source Specific Applicable Requirements

Table IV – R
Source-specific Applicable Requirements
S858 - TANK 858, S952 - TANK 952, S1023 - TANK 1023, S1050 TANK 1050, 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
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	
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	

IV. Source Specific Applicable Requirements

Table IV – R
Source-specific Applicable Requirements
S858 - TANK 858, S952 - TANK 952, S1023 - TANK 1023, S1050 TANK 1050, 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
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	

Table IV – S
Source-specific Applicable Requirements
S858 - TANK 858

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	See Table IV – R and T for additional requirements.		
BAAQMD Condition # 4977			
Part 2	Annual throughput limit [basis: Cumulative Increase]	Y	
Part 3	Records [basis: Cumulative Increase]	Y	

IV. Source Specific Applicable Requirements

Table IV – U
Source-specific Applicable Requirements
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 (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	
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	

IV. Source Specific Applicable Requirements

Table IV – U
Source-specific Applicable Requirements
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 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	
	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: 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 – U
Source-specific Applicable Requirements
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
	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 – U
Source-specific Applicable Requirements
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
	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 – U
Source-specific Applicable Requirements
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
	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: 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**	Y	
	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.**	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: maximum area: maximum gap width:	60.113b(b)(4)(ii)(B) **1 in2 per foot of vessel diameter.** **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 – U
Source-specific Applicable Requirements
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
	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 – U
Source-specific Applicable Requirements
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	**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 – U
Source-specific Applicable Requirements
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
60.116b(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**			
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 d. after modifications (otherwise prior to fill)**	Y	

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 – X
Source-specific Applicable Requirements
S1023 - TANK 1023
S1050 - TANK 1050

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	See Table IV – R & T for additional requirements.		
BAAQMD Condition # 7133			
Part 2	Annual throughput limit [basis: Cumulative Increase]	Y	
Part 3	Recordkeeping [basis: Cumulative Increase]	Y	

IV. Source Specific Applicable Requirements

TABLE IV – Y
SOURCE-SPECIFIC APPLICABLE REQUIREMENTS
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 (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	
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	

IV. Source Specific Applicable Requirements

TABLE IV – Y
SOURCE-SPECIFIC APPLICABLE REQUIREMENTS
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 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 (8/18/95)**	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	
63.654	Reporting and recordkeeping requirements	Y	
63.654(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(i)(4)	All information required to be reported under 63.654(a) through (h) shall be retained for 5 years.	Y	

IV. Source Specific Applicable Requirements

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 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	

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 – J & K 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
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	**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:**	60.112b(a)(2)(i)		
	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 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
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
	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
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
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: 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**	Y	
	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.**	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: Maximum area: Maximum gap width:	60.113b(b)(4)(ii)(B) **1 in2 per foot of vessel diameter.** **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
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	
60.115b	**Recordkeeping for inspections:** Keep inspection reports as specified.	60.115b **Keep for 2 years**	Y	

IV. Source Specific Applicable Requirements

Table IV – AC
Source-specific Applicable Requirements
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(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
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: 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	
NESHAP 40 CFR 61 Subpart FF; BAAQMD	**National Emission Standard for Benzene Waste Operations (3/7/90)**		Y	

IV. Source Specific Applicable Requirements

Table IV – AC
Source-specific Applicable Requirements
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
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 (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	Reporting and recordkeeping requirements	Y	
63.654(a)	Owner/operators subject to the wastewater provisions of 63.647 shall comply with the recordkeeping and reporting requirements in 61.356 and 61.357 of 40 CFR 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(i)(4)	All information required to be reported under 63.654 (a) through (h) shall be retained for 5 years.	Y	

IV. Source Specific Applicable Requirements

Table IV – AEa
Source-specific Applicable Requirements
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 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	
Refinery MACT	**NESHAP for Petroleum Refineries REQUIREMENTS FOR FIX ROOF TANKS-CONTROL DEVICE 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	
NSPS Subpart Kb	**Volatile Organic Liquid Storage Vessels REQUIREMENTS FOR FIXED ROOF TANK-CONTROL DEVICE**	Y	
60.112b(a)	**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	

IV. Source Specific Applicable Requirements

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

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 (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	
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	Reporting and recordkeeping requirements	Y	
63.654(a)	Owner/operators subject to the wastewater provisions of 63.647 shall comply with the recordkeeping and reporting requirements in 61.356 and 61.357 of 40 CFR 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(i)	Recordkeeping	Y	
63.654(i)(4)	All information required to be reported under 63.654(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**		

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement		Federally Enforceable (Y/N)	Future Effective Date
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	
	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 d. after modifications (otherwise prior to fill)**	Y	

IV. Source Specific Applicable Requirements

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

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(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	
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	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
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	
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 – AEc
Source-specific Applicable Requirements
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 (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 – AEc
Source-specific Applicable Requirements
S13 - TANK 13, S4334 – TANK 13276 ALKYLATE

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

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement		Federally Enforceable (Y/N)	Future Effective Date
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: New Tanks (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				
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 – AF
Source-specific Applicable Requirements
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
	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	

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	**Particulate Matter and Visible Emissions (09/04/98)**		
6-301	Ringelmann No. 1 Limitation	Y	
6-305	Visible Particles	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
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	**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	

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 # 12190			
Part 1	Annual throughput limit and recordkeeping [basis: Cumulative Increase]	Y	

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
	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.**		
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
S1146 - TANK 1146, S1147 - TANK 1147

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 (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	

IV. Source Specific Applicable Requirements

Table IV – AK
Source-specific Applicable Requirements
S1146 - TANK 1146, S1147 - TANK 1147

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
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	
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 (8/18/95)**		
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	Reporting and recordkeeping requirements	Y	

IV. Source Specific Applicable Requirements

Table IV – AK
Source-specific Applicable Requirements
S1146 - TANK 1146, S1147 - TANK 1147

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.654(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(i)(4)	All information required to be reported under 63.654(a) through (h) shall be retained for 5 years.	Y	

IV. Source Specific Applicable Requirements

Table IV - AL
Source-specific Applicable Requirements
S1409 - LUBS SULFONATION PLANT (SULF), S1411 - LUBS ATMOSPHERIC DISTILLATION LDU,
S1412 - LUBS VACUUM DISTILLATION LDU, S1415 - LUBS FURFURAL PLANT (SEP3), S1416 – LUBS LUBE HYDROTREATER 1 (LHT1), 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), S4170 – LUBS LUBE HYDROTREATER –2 (LHT2)

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 (06/15/94)**		
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	

IV. Source Specific Applicable Requirements

Table IV - AL
Source-specific Applicable Requirements
S1409 - LUBS SULFONATION PLANT (SULF), S1411 - LUBS ATMOSPHERIC DISTILLATION LDU,
S1412 - LUBS VACUUM DISTILLATION LDU, S1415 - LUBS FURFURAL PLANT (SEP3), S1416 – LUBS LUBE HYDROTREATER 1 (LHT1), 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), S4170 – LUBS LUBE HYDROTREATER –2 (LHT2)

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	

IV. Source Specific Applicable Requirements

Table IV - AL
Source-specific Applicable Requirements
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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), S4170 – LUBS LUBE HYDROTREATER –2 (LHT2)

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	

IV. Source Specific Applicable Requirements

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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), S4170 – LUBS LUBE HYDROTREATER –2 (LHT2)

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

IV. Source Specific Applicable Requirements

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S1770 – OPCEN C3/C4 SPLITTER, S1774 – OPCEN HYDROGEN PLANT 2 (HP2), S4001 – DC DELAYED COKING UNIT (DCU) ,
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S4080 - DC ISOMERIZATION UNIT (ISOM), S4140 – DC HEAVY CRACKED GASOLINE HYDROTREATER (HGHT),
S4160 – DC HYDROGEN PLANT 3 (HP3), S4170 – LUBS LUBE HYDROTREATER –2 (LHT2)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-10-401.1	date of depressurization event	Y	
8-10-401.2	approximate vessel hydrocarbon concentration when emissions to atmosphere begin	Y	
8-10-401.3	approximate quantity of POC emissions to atmosphere	Y	
BAAQMD Regulation 8, Rule 18	**Organic Compounds – Equipment Leaks (06/05/03)**		
8-18-301	General	Y	
8-18-302	Valves	Y	

IV. Source Specific Applicable Requirements

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
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	Indentification	Y	
8-18-403	Visual Inspection Schedule	Y	

IV. Source Specific Applicable Requirements

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

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

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
SIP Regulation 8, Rule 28	**Organic Compounds – Episodic Releases from Pressure Relief Devices at Petroleum Refineries and Chemical Plants (12/9/94)**		
8-28-401	Reporting at Petroleum Refineries and Chemical Plants	Y	
8-28-402	Inspection	Y	
8-28-403	Records	Y	
8-28-404	Identification	Y	

IV. Source Specific Applicable Requirements

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Condition # 21896	For sources S1445 & S1774		
Part 1	Annual source test to demonstrate compliance with Regulation 8-2-301 (Basis: Regulation 2-6-409.2)	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 (HGHT):

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	

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.		

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
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	
Part G	Records [basis: Cumulative Increase]	Y	

IV. Source Specific Applicable Requirements

Table IV - AOa
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
	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
63.10(e)(3)	Excess Emissions and Continuous Monitoring System Performance Report and Summary Report	Y	4/11/05

IV. Source Specific Applicable Requirements

Table IV - AOa
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
40 CFR 63 Subpart UUU	**NESHAP for Petroleum Refineries: Catalytic Reforming Units**		
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
63.1567(a)(2)	Operating limits for daily average pH of water and average liquid-to-gas ratio exiting wet scrubber during coke burn-off and catalyst rejuvenation: daily average pH 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
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

IV. Source Specific Applicable Requirements

Table IV - AOa
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(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 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	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	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	4/11/05

IV. Source Specific Applicable Requirements

Table IV - AOa
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(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 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)	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
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

IV. Source Specific Applicable Requirements

Table IV - AOa
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
63.1573(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)(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.	Y	5/11/05
63.1574(f)(2)	Minimum contents of Operation, Maintenance, and Monitoring Plan	Y	5/11/05
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

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Table IV - AOa
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
63.1575(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

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 (5/02/01)**		
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		
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	

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
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	**Particulate Matter and Visible Emissions (09/04/98)**		
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	

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
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	
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	

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
8-18-401	Inspection	Y	
8-18-402	Indentification	Y	
BAAQMD Regulation 9, Rule 1	**Inorganic Gaseous Pollutants – Sulfur Dioxide (3/15/95; SIP approved 6/8/99)**		
9-1-310	Emission Limitations for Fluid Catalytic Cracking Units, Fluid Cokers, and Coke Calcining Kilns	Y	
9-1-310.1	Sulfur dioxide limit	Y	
9-1-310.3	Compliance with 9-1-110.1 and 110.2	Y	
9-1-502	Emission Monitoring Requirements (Regulations 1-520, 1-522)	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	
60.12	Circumvention.	Y	
60.13	Monitoring requirements.	Y	
60.19	General notification and reporting requirements.	Y	
40 CFR 60 Subpart J	**Standards of Performance for Petroleum Refineries (8/17/89)**		
60.102	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	

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
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	
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

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
63.9	Notifications		
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
63.10(e)(4)	Reporting COMS data produced during performance test	Y	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)	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
63.1564(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	Y	4/11/05
63.1564(b)(1)	Install Continuous Opacity Monitoring System (Table 3, Item 2)	Y	4/11/05
63.1564(b)(2)	Performance Test (Table 4, Items 1.a through 1.e, 2.a through 2.c)	Y	9/8/05
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)(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 2)	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)(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.i)	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) 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

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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
63.1569(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	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		
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

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
63.1571(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)	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
63.1572	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
63.1573(d)	Monitoring for alternative parameters (optional)	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
63.1573(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.	Y	5/11/05
63.1574(f)(2)	Minimum contents of Operation, Maintenance, and Monitoring Plan	Y	5/11/05
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)(1)	Requirement to submit performance test reports	Y	1/31/06

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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(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	4/11/05
63.1576	Recordkeeping	Y	4/11/05
63.1576(a)	Required Records – General	Y	4/11/05
63.1576(b)	Records for CEMS and COMS	Y	4/11/05
63.1576(c)	Records of visible emissions observations	Y	4/11/05
63.1576(d)	Records required by Tables 6, 7, 13, and 14 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
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	
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 6-301]	Y	

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
Part 5	Monitoring and recordkeeping of water seal [basis: Regulation 6-301]	Y	
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	

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 PLANT3 (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 (5/2/01)**		
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		
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	**Particulate Matter and Visible Emissions (09/04/98)**		
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 (SO3, H2SO4 emission limitations)	Y	
6-401	Appearance of Emissions	Y	

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 PLANT3 (SRU3)
S4180 – OPCEN SULFUR PLANT 4 (SRU4)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 9, Rule 1	**Inorganic Gaseous Pollutants – Sulfur Dioxide (3/15/95)**		
9-1-307	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_2S from refinery fuel gas, and 95% of H_2S 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_2S from refinery fuel gas, 95% of H_2S 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	
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	

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 PLANT3 (SRU3)
S4180 – OPCEN SULFUR PLANT 4 (SRU4)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
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 toperformance 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 SO2 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 SO2 emissions; a continuousO2 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**	
BAAQMD Condition # 18618			
Part 8	Source test to verify compliance with Regulation 6-330 (basis: Regulation 2-6-409.2)	Y	
Part 10	Analysis and recordkeeping to verify compliance with Regulation 9-1-313.2 (basis: Regulation 2-6-409.2)	N	

IV. Source Specific Applicable Requirements

Table IV - AQa
Source-specific Applicable Requirements
S1431 – CP SULFUR PLANT 1 (SRU1)
S1432 – CP SULFUR PLANT 2 (SRU2)

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
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

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Table IV - AQa
Source-specific Applicable Requirements
S1431 – CP SULFUR PLANT 1 (SRU1)
S1432 – CP SULFUR PLANT 2 (SRU2)

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: 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)	Emission Limitations	Y	4/11/05
63.1568(a)(1)(i)	Sulfur Emission Limitation from Claus sulfur recovery units electing to meet NSPS Limits: 250 ppmvd SO_2 at 0% excess air. (Table 29, Item 2.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 2.a)	Y	4/11/05
63.1568(b)(2)	Performance Test: measure SO_2 concentration using CEMS every 15 minutes for 24 hours and reduce the data to 1-hr averages (Table 32, Item1)	Y	4/11/05
63.1568(b)(5)	Demonstrate Initial Compliance with Emission Limitation: Average SO_2 emissions measured by CEMS in initial performance test not greater than 250 ppmvd at 0% excess O_2, 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;	Y	4/11/05

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Table IV - AQa
Source-specific Applicable Requirements
S1431 – CP SULFUR PLANT 1 (SRU1)
S1432 – CP SULFUR PLANT 2 (SRU2)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	report 12-hour concentration greater than applicable limitation (Table 34, Item 2.a)		
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
63.1569(a)(1)(i)	Work Practice Standard: Option 3 – Install solid blind between flanges (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	Y	4/11/05

IV. Source Specific Applicable Requirements

Table IV - AQa
Source-specific Applicable Requirements
S1431 – CP SULFUR PLANT 1 (SRU1)
S1432 – CP SULFUR PLANT 2 (SRU2)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	(SSMP) in accordance with 63.6(e)(3)		
63.1570(e)	Operate in accordance with SSMPP 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	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
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

IV. Source Specific Applicable Requirements

Table IV - AQa
Source-specific Applicable Requirements
S1431 – CP SULFUR PLANT 1 (SRU1)
S1432 – CP SULFUR PLANT 2 (SRU2)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
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	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.	Y	5/11/05
63.1574(f)(2)	Minimum contents of Operation, Maintenance, and Monitoring Plan	Y	5/11/05
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

IV. Source Specific Applicable Requirements

Table IV - AQa
Source-specific Applicable Requirements
S1431 – CP SULFUR PLANT 1 (SRU1)
S1432 – CP SULFUR PLANT 2 (SRU2)

Applicable Requirement	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	4/11/05
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

Table IV – AQb
Source-specific Applicable Requirements
S1765– OPCEN SULFUR PLANT3 (SRU3)
S4180 – OPCEN SULFUR PLANT4 (SRU4)

	See Table IV – AQ for additional requirements.		
40 CFR Part 63 Subpart A	**MACT General Provisions**		

IV. Source Specific Applicable Requirements

Table IV – AQb
Source-specific Applicable Requirements
S1765– OPCEN SULFUR PLANT3 (SRU3)
S4180 – OPCEN SULFUR PLANT4 (SRU4)

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(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)	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
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 1.a)	Y	4/11/05

IV. Source Specific Applicable Requirements

Table IV – AQb
Source-specific Applicable Requirements
S1765– OPCEN SULFUR PLANT3 (SRU3)
S4180 – OPCEN SULFUR PLANT4 (SRU4)

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
63.1570	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	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
63.1572	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)(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, 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.	Y	5/11/05

IV. Source Specific Applicable Requirements

Table IV – AQb
Source-specific Applicable Requirements
S1765– OPCEN SULFUR PLANT3 (SRU3)
S4180 – OPCEN SULFUR PLANT4 (SRU4)

63.1574(f)(2)	Minimum contents of Operation, Maintenance, and Monitoring Plan	Y	5/11/05
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 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

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 for additional requirements.		
BAAQMD Condition # 7618			
Part A	Emissions limitations [basis: Regulation 2-2-302]	Y	

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
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	

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	**Particulate Matter and Visible Emissions (09/04/98)**		
6-301	Ringelmann No. 1 Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particle Weight Limitation	Y	
6-311	General Operations (process weight rate limitation)	Y	
6-401	Appearance of Emissions	Y	
BAAQMD Regulation 8 Rule 2	**Organic Compounds – Miscellaneous Operations (03/22/95)**		
8-2-301	Miscellaneous Operations	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
S2009 - LUBS WASTEWATER SEPARATOR DUBBS BOX

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)**		
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	Y	
8-8-503	Inspection and Repair Records	Y	

Table IV – AU
Source-specific Applicable Requirements
S1465 – LOG LIGHT OIL PRODUCTS GROSS 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 (08/29/94)**		
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	Y	
8-8-503	Inspection and Repair 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	

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 and Visible Emissions (09/04/98)**		
6-301	Ringelmann No. 1 Limitation	Y	
6-305	Visible Particles	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
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	
40 CFR Part 60 Subpart A	**General Provisions**		
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 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	
BAAQMD Condition # 12271			
Part 74	Vapors from S4338 shall be collected and controlled by S1470, LOG LPG Loading Flare, with an overall capture and destruction of 98.5% by weight. [basis: BACT]	Y	

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
BAAQMD Regulation 6	**Particulate Matter and Visible Emissions (09/04/98)**		
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	
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	Y	
BAAQMD Condition # 18618			
Part 19	Upset gas limitation (basis: 60.104(a)(1); Regulation 2-1-403)	Y	12/01/04

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
BAAQMD Regulation 6	**Particulate Matter and Visible Emissions (09/04/98)**		
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	
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	Y	
BAAQMD Condition # 18618			
Part 19	Upset gas limitation (basis: 60.104(a)(1); Regulation 2-1-403)	Y	12/01/04

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	**Particulate Matter and Visible Emissions (09/04/98)**		
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
BAAQMD Condition # 18618			
Part 12	Flare throughput limit (basis: Regulations 8-1-110.3; 2-1-403)	Y	12/01/04
Part 13	Flaring recordkeeping requirements (basis: Regulations 8-1-110.3; 2-6-409.2; 2-6-501)	Y	12/01/04
Part 14	Inspection of flaring requirements (basis: Regulation 2-6-4092.)	Y	12/01/04
Part 15	Inspection procedures (basis: Regulation 6-301; 2-1-403)	Y	12/01/04

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	12/01/04
Part 17	Recordkeeping requirements for flaring events (basis: Regulation 2-6-501; 2-6-409.2)	Y	12/01/04

Table IV - AY
Source-specific Applicable Requirements
S1476 – LUBS F-24 ATMOSPHRIC FEED
S1477 – LUBS F-25 VACUUM FEED

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 1	**General Provisions and Definitions (05/02/2001)**		
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 2, Rule 9	**Interchangeable Emission Reduction Credits (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	

IV. Source Specific Applicable Requirements

Table IV - AY
Source-specific Applicable Requirements
S1476 – LUBS F-24 ATMOSPHRIC FEED
S1477 – LUBS F-25 VACUUM FEED

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
2-9-501	Monitoring and Record Keeping	N	
2-9-502	Alternative Compliance Plan Record Keeping and Reporting	N	
BAAQMD Regulation 6	**Particulate Matter and Visible Emissions (09/04/98)**		
6-301	Ringelmann No. 1 Limitation	Y	
6-304	Tube Cleaning	Y	
6-305	Visible Particles	Y	
6-310	Particle Weight Limitation	Y	
6-310.3	0.15 grain per dscf at 6% O_2	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 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	
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	
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 - AY
Source-specific Applicable Requirements
S1476 – LUBS F-24 ATMOSPHRIC FEED
S1477 – LUBS F-25 VACUUM FEED

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)**		
9-10-502	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 - AY
Source-specific Applicable Requirements
S1476 – LUBS F-24 ATMOSPHRIC FEED
S1477 – LUBS F-25 VACUUM FEED

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	Fuel usage limit resulting from non-compliance [basis: Regulation 2-2-302]		
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 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	12/01/04
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	12/01/04
Part 4	NOx box establishment requirements (basis: Regulation 9-10-502)	N	12/01/04
Part 5	NOx box ranges (basis: Regulation 9-10-502)	N	12/01/04
Part 6	NOx Box Deviations (basis: Regulation 9-10-502)	N	12/01/04
Part 7	Source test requirements (basis: Regulation 9-10-502)	N	12/01/04
Part 9	CO results requires CEM (basis: Regulation 9-10-502, 1-522)	N	12/01/04
Part 10	Source test records (basis: recordkeeping; Regulation 9-10-504)	N	12/01/04
Part 11	CEM for NOx and O2 monitoring [basis: Regulation 9-10-502]	N	
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 - AY
Source-specific Applicable Requirements
S1476 – LUBS F-24 ATMOSPHRIC FEED
S1477 – LUBS F-25 VACUUM 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-1476, S-1477, S-1478, S-1479, S-1508, S-1760 and S-4021 [basis: Regulation 9-10-502]	N	
Part 19	Allowable operating ranges for S-1476, S-1477, 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	
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	

IV. Source Specific Applicable Requirements

Table IV - AZ
Source-specific Applicable Requirements
S1478 - LUBS F-26 FURFURAL RAFF, S1479 - LUBS F-27 FURFURAL EXTR, S1480 - LUBS F-69 ASPHALT CIRCULATION, S1481 - OPCEN F-30 DSU, S1483 - LUBS F-32 ASPHALT CIRCULATION, S1484 – LUBS F-34 LHT CHARGE, S1506 - CP F-61 CGP FEED, 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 (05/02/2001)**		
1-522	Continuous Emission Monitoring and Recordkeeping Procedures		
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	

IV. Source Specific Applicable Requirements

Table IV - AZ
Source-specific Applicable Requirements
S1478 - LUBS F-26 FURFURAL RAFF, S1479 - LUBS F-27 FURFURAL EXTR, S1480 - LUBS F-69 ASPHALT CIRCULATION, S1481 - OPCEN F-30 DSU, S1483 - LUBS F-32 ASPHALT CIRCULATION, S1484 – LUBS F-34 LHT CHARGE, S1506 - CP F-61 CGP FEED, S1760 - OPCEN F-102 FXU STEAM SUPERHEATER

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 2, Rule 9	**Interchangeable Emission Reduction Credits (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	**Particulate Matter and Visible Emissions (09/04/98)**		
6-301	Ringelmann No. 1 Limitation	Y	
6-304	Tube Cleaning	Y	
6-305	Visible Particles	Y	
6-310	Particle 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 O2	N	
9-10-502.2	Fuel flowmeters	N	
9-10-504	Recordkeeping	N	

IV. Source Specific Applicable Requirements

Table IV - AZ
Source-specific Applicable Requirements
S1478 - LUBS F-26 FURFURAL RAFF, S1479 - LUBS F-27 FURFURAL EXTR, S1480 - LUBS F-69 ASPHALT CIRCULATION, S1481 - OPCEN F-30 DSU, S1483 - LUBS F-32 ASPHALT CIRCULATION, S1484 – LUBS F-34 LHT CHARGE, S1506 - CP F-61 CGP FEED, S1760 - OPCEN F-102 FXU STEAM SUPERHEATER

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

IV. Source Specific Applicable Requirements

Table IV - AZ
Source-specific Applicable Requirements
S1478 - LUBS F-26 FURFURAL RAFF, S1479 - LUBS F-27 FURFURAL EXTR, S1480 - LUBS F-69 ASPHALT CIRCULATION, S1481 - OPCEN F-30 DSU, S1483 - LUBS F-32 ASPHALT CIRCULATION, S1484 – LUBS F-34 LHT CHARGE, S1506 - CP F-61 CGP FEED, S1760 - OPCEN F-102 FXU STEAM SUPERHEATER

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	
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	
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	12/01/04
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	12/01/04
Part 4	NOx box establishment requirements (basis: Regulation 9-10-502)	N	12/01/04
Part 5	NOx box ranges (basis: Regulation 9-10-502)	N	12/01/04
Part 6	NOx Box Deviations (basis: Regulation 9-10-502)	N	12/01/04

IV. Source Specific Applicable Requirements

Table IV - AZ
Source-specific Applicable Requirements
S1478 - LUBS F-26 FURFURAL RAFF, S1479 - LUBS F-27 FURFURAL EXTR, S1480 - LUBS F-69 ASPHALT CIRCULATION, S1481 - OPCEN F-30 DSU, S1483 - LUBS F-32 ASPHALT CIRCULATION, S1484 – LUBS F-34 LHT CHARGE, S1506 - CP F-61 CGP FEED, S1760 - OPCEN F-102 FXU STEAM SUPERHEATER

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	12/01/04
Part 9	CO results requires CEM (basis: Regulation 9-10-502, 1-522)	N	12/01/04
Part 10	Source test records (basis: recordkeeping; Regulation 9-10-504)	N	12/01/04
Part 11	CEM for NOx and O2 monitoring [basis: Regulation 9-10-502]	N	
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-1476, S-1477, S-1478, S-1479, S-1508, S-1760 and S-4021 [basis: Regulation 9-10-502]	N	
Part 19	Allowable operating ranges for S-1476, S-1477, 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	

IV. Source Specific Applicable Requirements

Table IV - AZa
Source-specific Applicable Requirements
S1480 - LUBS F-69 ASPHALT CIRCULATION, S1484 – LUBS F-34 LHT CHARGE, 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	

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, 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, S1510 - CP F-66 CCU PREHEAT, S1511 - CP F-67 CCU LGO REBOIL

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 1	**General Provisions and Definitions (5/02/01)**		
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	

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, 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, S1510 - CP F-66 CCU PREHEAT, S1511 - CP F-67 CCU LGO REBOIL

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, Cause, and Corrective Action)	Y	
BAAQMD Regulation 2, Rule 9	**Interchangeable Emission Reduction Credits (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	**Particulate Matter and Visible Emissions (09/04/98)**		
6-301	Ringelmann No. 1 Limitation	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, 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, S1510 - CP F-66 CCU PREHEAT, S1511 - CP F-67 CCU LGO REBOIL

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
6-304	Tube Cleaning	Y	
6-305	Visible Particles	Y	
6-310	Particle Weight Limitation	Y	
6-310.3	0.15 grain per dscf at 6% O_2	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 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	
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	
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, 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, S1510 - CP F-66 CCU PREHEAT, S1511 - CP F-67 CCU LGO REBOIL

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Rule 10	**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)**	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	
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	

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, 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, S1510 - CP F-66 CCU PREHEAT, S1511 - CP F-67 CCU LGO REBOIL

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
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 [basis: Regulation 2-2-302]	Y	
Part E.1	Sulfur limit of liquid fuel [Regulation 9-1-304]	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	12/01/04
Part 2	O2 monitor and recorder requirement (basis: Regulation 9-10-502)	N	09/01/04
Part 8	CO source test (basis: Regulation 9-10-502, 1-522)	N	12/01/04
Part 10	Source test records (basis: recordkeeping; Regulation 9-10-504)	N	12/01/04
Part 11	CEM for NOx and O2 monitoring [basis: Regulation 9-10-502]	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, 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, S1510 - CP F-66 CCU PREHEAT, S1511 - CP F-67 CCU LGO REBOIL

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 # 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 - BB
Source-specific Applicable 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 - CP F-63 CFH FEED

IV. Source Specific Applicable Requirements

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 – DH F-43 GOHT 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
BAAQMD Regulation 1	**General Provisions and Definitions (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	

IV. Source Specific Applicable Requirements

Table IV - BC
Source-specific Applicable Requirements
S1490 – DH F-43 GOHT 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
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 (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	**Particulate Matter and Visible Emissions (09/04/98)**		
6-301	Ringelmann No. 1 Limitation	Y	
6-304	Tube Cleaning	Y	
6-305	Visible Particles	Y	
6-310	Particle 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	

IV. Source Specific Applicable Requirements

Table IV - BC
Source-specific Applicable Requirements
S1490 – DH F-43 GOHT 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
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	
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)**		
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	Y	

IV. Source Specific Applicable Requirements

Table IV - BC
Source-specific Applicable Requirements
S1490 – DH F-43 GOHT 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
	combustion (in lieu of separate combustion device exhaust SO2 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, 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	
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	12/01/04
Part 2	O2 monitor and recorder requirement (basis: Regulation 9-10-502)	N	09/01/04
Part 8	CO source test (basis: Regulation 9-10-502, 1-522)	N	12/01/04
Part 10	Source test records (basis: recordkeeping; Regulation 9-10-504)	N	12/01/04
Part 11	CEM for NOx and O2 monitoring [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,	N	

IV. Source Specific Applicable Requirements

Table IV - BC
Source-specific Applicable Requirements
S1490 – DH F-43 GOHT 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
	and actual NOx emission rate (lb/MM BTU) [basis: Regulation 9-10-504]		
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	

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 (5/02/01)**		
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	

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
1-522.4	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, and Cause)	Y	
BAAQMD Regulation 2, Rule 9	**Interchangeable Emission Reduction Credits (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	

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
2-9-502	Alternative Compliance Plan Record Keeping and Reporting	N	
BAAQMD Regulation 6	**Particulate Matter and Visible Emissions (09/04/98)**		
6-301	Ringelmann No. 1 Limitation	Y	
6-304	Tube Cleaning	Y	
6-305	Visible Particles	Y	
6-310	Particle 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 O2	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 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)**		

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
9-10-502	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 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	

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
BAAQMD Condition # 18265			
Part 1	Sources subject to Regulation 9-10 (basis: Regulation 9-10-301 & 305)	N	12/01/04
Part 2	O2 monitor and recorder requirement (basis: Regulation 9-10-502)	N	09/01/04
Part 8	CO source test (basis: Regulation 9-10-502, 1-522)	N	12/01/04
Part 10	Source test records (basis: recordkeeping; Regulation 9-10-504)	N	12/01/04
Part 11	CEM for NOx and O2 monitoring [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 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	

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	

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.		
BAAQMD Condition # 7618			
Part E.2	Processing limit of San Joaquin Valley Crude [basis: Regulation 2-2-302]	Y	

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 (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	

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
1-522.8	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 (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	**Particulate Matter and Visible Emissions (09/04/98)**		
6-301	Ringelmann No. 1 Limitation	Y	
6-304	Tube Cleaning	Y	
6-305	Visible Particles	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
6-310	Particle Weight Limitation	Y	
6-310.3	0.15 grain per dscf at 6% O_2	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 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	
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	
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	**Standards of Performance for New Stationary Sources (12/23/71)**	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
Subpart A			
60.7	Notification and record keeping	Y	
60.8	Performance tests	Y	
60.105	Monitoring of Emissions and Operations	Y	
60.105(e)(3)	Excess SO_2 emission definitions for 60.7(c)	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	
60.106	Test methods and procedures	Y	
60.106(e)	Method 11 shall be used to verify compliance with 60.104(a)(1)	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	

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
60.106(e)	Method 11 shall be used to verify compliance with 60.104(a)(1)	Y	
BAAQMD Condition # 18265			
Part 1	Sources subject to Regulation 9-10 (basis: Regulation 9-10-301 & 305)	N	12/01/04
Part 2	O2 monitor and recorder requirement (basis: Regulation 9-10-502)	N	09/01/04
Part 8	CO source test (basis: Regulation 9-10-502, 1-522)	N	12/01/04
Part 10	Source test records (basis: recordkeeping; Regulation 9-10-504)	N	12/01/04
Part 11	CEM for NOx and O2 monitoring [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 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 # 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	

IV. Source Specific Applicable Requirements

Table IV - BH
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

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, 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	

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

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	

IV. Source Specific Applicable Requirements

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	

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 (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	

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
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 (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	**Particulate Matter and Visible Emissions (09/04/98)**		
6-301	Ringelmann No. 1 Limitation	Y	
6-304	Tube Cleaning	Y	
6-305	Visible Particles	Y	
6-310	Particle Weight Limitation	Y	
6-310.3	0.15 grain per dscf at 6% O_2	Y	
6-401	Appearance of Emissions	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 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)**		
9-10-303.1	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	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 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	

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
60.12	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, 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	

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 F	Reporting [basis: Cumulative Increase]	Y	
Part G	Records [basis: Cumulative Increase]	Y	
BAAQMD Condition # 12271			
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	Continuos 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			

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 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	
Part 10	Temperature indicator and recorder [basis: Offsets]	Y	
Part 11	Curtailment if excess opacity [basis: Regulation 6-301]	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 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	

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 (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 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)**		
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	**Particulate Matter and Visible Emissions (09/04/98)**		
6-301	Ringelmann No. 1 Limitation	Y	
6-304	Tube Cleaning	Y	
6-305	Visible Particles	Y	
6-310	Particle Weight Limitation	Y	
6-310.3	0.15 grain per dscf at 6% O_2	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	
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	
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)**		

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
9-10-502	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 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	

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 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 # 18265			
Part 1	Sources subject to Regulation 9-10 (basis: Regulation 9-10-301 & 305)	N	12/01/04
Part 2	O2 monitor and recorder requirement (basis: Regulation 9-10-502)	N	09/01/04
Part 8	CO source test (basis: Regulation 9-10-502, 1-522)	N	12/01/04
Part 10	Source test records (basis: recordkeeping; Regulation 9-10-504)	N	12/01/04
Part 11	CEM for NOx and O2 monitoring [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 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			

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 1	Gaseous fuel only. [basis: Regulation 1-520.1]	Y	
Part 3	Emissions limit [basis: Shell-EPA Consent Decree]	Y	
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	

IV. Source Specific Applicable Requirements

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

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 - BN
SOURCE-SPECIFIC APPLICABLE REQUIREMENTS
S1540 – LUBS LR-26 OLEUM UNLOADING

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 6	**Particulate Matter and Visible Emissions (09/04/98)**		
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 12, Rule 10	**Oleum Transfer Operations**		
12-10-301	Operating Requirements	N	
12-10-302	Secondary Container Requirements	N	
12-10-401	Oleum Transfer Procedure Requirements	N	
12-10-501	Records	N	

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
BAAQMD Regulation 8, Rule 7	**Organic Compounds - Gasoline Dispensing Facilities (3/24/03)**		
8-7-113	Tank Gauging and Inspection Exemption	Y	
8-7-301	Phase I Requirements	Y	
8-7-301.1	Requirement for CARB Phase I System	Y	
8-7-301.2	Installation of Phase I Equipment per CARB Requirements	Y	
8-7-301.3	Submerged Fill Pipes	Y	
8-7-301.5	Maintenance of Phase I Equipment per Manufacturers Guidelines or CARB Executive Order	Y	
8-7-301.6	Leak-Free, Vapor-Tight	Y	
8-7-301.7	Poppetted Drybreaks	Y	
8-7-301.8	No Coaxial Phase 1 Systems on New and Modified Tanks	Y	
8-7-301.9	CARB-Certified Anti-Rotational Coupler or Swivel Adapter	Y	
8-7-301.10	System Vapor Recovery Rate	Y	
8-7-301.11	CARB-Certified Spill Box	Y	
8-7-301.12	Drain Valve Permanently Plugged	Y	
8-7-301.13	Vapor Tightness and Testing	Y	
8-7-302	Phase II Requirements	Y	
8-7-302.1	Requirement for CARB Certified Phase II System	Y	
8-7-302.2	Maintenance of Phase II System per CARB Requirements	Y	
8-7-302.3	Maintenance of All Equipment as Specified by Manufacturer	Y	
8-7-302.4	Repair of Defective Parts Within 7 Days	Y	
8-7-302.5	Leak-Free, Vapor-Tight	Y	
8-7-302.6	Insertion Interlocks	Y	
8-7-302.7	Built-In Vapor Check Valve	Y	
8-7-302.8	Minimum Liquid Removal Rate	Y	
8-7-302.9	Coaxial Hose	Y	
8-7-302.10	Galvanized Piping or Flexible Tubing	Y	
8-7-302.12	Liquid Retainment Limit	Y	
8-7-302.13	Spitting Limit	Y	
8-7-302.14	Back Pressure for Vapor Balance		

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
8-7-303	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	
8-7-503.3	Dispensing Records Retention	Y	
BAAQMD Condition # 14098			
Part 1	Annual gasoline throughput limit [basis: Cumulative Increase, Toxics]	N	
Part 2	Recordkeeping [basis: Toxics, Cumulative Increase, Toxics]	N	

IV. Source Specific Applicable Requirements

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	**Particulate Matter and Visible Emissions (09/04/98)**		
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	

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	

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	**Particulate Matter and Visible Emissions (09/04/98)**		
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	

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	**Particulate Matter and Visible Emissions (09/04/98)**		
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	

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 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	
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
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	

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 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	
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)	Standard for SO_2	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 SO2monitors 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	

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 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	
BAAQMD Condition # 18618			
Part 12	Flare throughput limit (basis: Regulations 8-1-110.3; 2-1-403)	Y	12/01/04
Part 13	Flaring recordkeeping requirements (basis: Regulations 8-1-110.3; 2-6-409.2; 2-6-501)	Y	12/01/04
Part 14	Inspection of flaring requirements (basis: Regulation 2-6-4092.)	Y	12/01/04
Part 15	Inspection procedures (basis: Regulation 6-301; 2-1-403)	Y	12/01/04
Part 16	Visual inspection requirements (basis: Regulation 2-6-403)	Y	12/01/04
Part 17	Recordkeeping requirements for flaring events (basis: Regulation 2-6-501; 2-6-409.2)	Y	12/01/04
Part 18	Flexigas flare requirements (basis: Regulation 2-6-501; 2-6-409.2)	Y	12/01/04

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	**Particulate Matter and Visible Emissions (09/04/98)**		
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	**General Provisions**		
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	

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
60.11(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 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	
BAAQMD Condition # 18618			
Part 12	Flare throughput limit (basis: Regulations 8-1-110.3; 2-1-403)	Y	12/01/04
Part 13	Flaring recordkeeping requirements (basis: Regulations 8-1-110.3; 2-6-409.2; 2-6-501)	Y	12/01/04
Part 14	Inspection of flaring requirements (basis: Regulation 2-6-4092.)	Y	12/01/04
Part 15	Inspection procedures (basis: Regulation 6-301; 2-1-403)	Y	12/01/04
Part 16	Visual inspection requirements (basis: Regulation 2-6-403)	Y	12/01/04
Part 17	Recordkeeping requirements for flaring events (basis: Regulation 2-6-501; 2-6-409.2)	Y	12/01/04

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

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

IV. Source Specific Applicable Requirements

Table IV – BY
Source-specific Applicable Requirements
S1779 - OPCEN CPI OIL/WATER 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 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 (5/02/01)**		
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 (04/07/99)**		
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	**Particulate Matter and Visible Emissions (09/04/98)**		
6-301	Ringelmann No. 1 Limitation	Y	
6-304	Tube Cleaning	Y	
6-305	Visible Particles	Y	
6-310	Particle 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 O2	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 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)**	Y	
60.7	Notification and record keeping	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
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	
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	

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 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	12/01/04
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	12/01/04
Part 4	NOx box establishment requirements (basis: Regulation 9-10-502)	N	12/01/04
Part 5	NOx box ranges (basis: Regulation 9-10-502)	N	12/01/04
Part 6	NOx Box Deviations (basis: Regulation 9-10-502)	N	12/01/04
Part 7	Source test requirements (basis: Regulation 9-10-502)	N	12/01/04
Part 8	CO source test (basis: Regulation 9-10-502, 1-522)	N	12/01/04
Part 9	CO results requires CEM (basis: Regulation 9-10-502, 1-522)	N	12/01/04
Part 10	Source test records (basis: recordkeeping; Regulation 9-10-504)	N	12/01/04
Part 11	CEM for NOx and O2 monitoring [basis: Regulation 9-10-502]	N	
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 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 18	operating range limits for S-1476, S-1477, S-1478, S-1479, S-1508, S-1760 and S-4021 [basis: Regulation 9-10-502]	N	
Part 19	Allowable operating ranges for S-1476, S-1477, S-1478, S-1479, S-1508, S-1760 and S-4021 [basis: Regulation 9-10-502]	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 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	**Particulate Matter and Visible Emissions (09/04/98)**		
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	
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	**Particulate Matter and Visible Emissions (09/04/98)**		
6-301	Ringelmann No. 1 Limitation	Y	
6-310	Particle Weight Limitation	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	N	
8-4-312	Solvent Evaporation Loss Minimization	N	
8-4-312.1	Storage and Disposal of Solvent Impregnated Cloth or Paper	N	
8-4-312.2	No Organic Compounds for Cleanup of Spray Equipment Unless Controls are Used	N	
8-4-312.3	Closed Containers for Spent or Fresh Organic Solvents	N	
8-4-313	Surface Preparation Standards	N	
8-4-501	Recordkeeping	N	
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	N	
8-4-501.5	Records Retention	N	
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	Y	
8-4-312	Solvent Evaporation Loss Minimization	Y	
8-4-501	Recordkeeping	Y	
8-4-501.4	Records Retention	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 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	N	
8-19-312	Specialty Coating Limitations	Y	
8-19-313	Spray Application Equipment Limitations	Y	
8-19-320	Solvent Evaporative Loss Minimization	N	
8-19-321	Surface Preparation Solvent < 0.42 lb/gal	N	
8-19-501	Records	N	
SIP Regulation 8, Rule 19	**Organic Compounds – Surface Coating of Miscellaneous Metal Parts and Products (12/20/95)**		
8-19-307	Prohibition of Specification	Y	
8-19-320	Solvent Evaporative Loss Minimization	Y	
8-19-501	Records	Y	
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	N	
8-31-309	Specialty Coating Limitations	Y	
8-31-310	Spray Application Equipment Limitations	Y	
8-31-320	Solvent Evaporative Loss Minimization	N	
8-31-321	Surface Preparation Solvent < 0.42 lb/gal	N	
8-31-501	Records	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	

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	
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	Prohibitation 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 Primaily for Special Substrates	Y	
8-51-306	Prohibition of Specification	Y	
8-51-320	Solvent Evaporative Loss Minimization	Y	
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	

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
Part 4	Operational requirements [basis: Cumulative Increase, Regulation 6-301]	Y	

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 – AE 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	N	
8-16-303.1	General Operating Requirements	N	
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	N	
8-16-303.1.4	Waste Solvent Disposal	N	
8-16-303.1.4(a)	Covered Containers for Waste Solvent Awaiting Pick-up	N	
8-16-303.1.4(b)	On-site Waste Treatment	N	
8-16-303.1.5	Solvent Evaporation Minimization Devices shall not be Removed	N	
8-16-303.1.6	Solvent Spray Requirements	N	
8-16-303.2	Cold Cleaner Operating Requirements	Y	
8-16-303.2.1	Solvent shall be Drained from Cleaned Parts	Y	
8-16-303.2.2	Solvent Agitation	Y	
8-16-303.2.3	Solvent Cleaning of Porous or Absorbent Materials is Prohibited	Y	
8-16-303.3	Cold Cleaner General Equipment Requirements	N	
8-16-303.3.1	Container	Y	
8-16-303.3.2	Solvent Evaporation Reduction for Idle Equipment	N	
8-16-303.3.3	Used Solvent Returned to Container	N	
8-16-303.3.4	Label Stating Operating Requirements	N	
8-16-303.4	Control Device (one of the following)	N	
8-16-303.4.1	Freeboard Ratio $\geq$ 0.75	N	

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
8-16-303.5	VOC content < 0.42 pounds per gallon or comply with 8-16-303.4.1 and other options	N	
8-16-501	Solvent Records	N	
8-16-501.2	Facility-wide Monthly Solvent Usage Records	N	
8-16-501.3	Monthly Records of Type and Amount of Solvent Used for Wipe Cleaning	N	
8-16-501.5	Records Retained	N	
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	

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, 2002, 2003 AND 2004 -
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 (05/02/2001)**		
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 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, 2002, 2003 AND 2004 -
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	
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	

IV. Source Specific Applicable Requirements

Table IV – CF
Source-specific Applicable Requirements
S2001, 2002, 2003 AND 2004 -
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 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	
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.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	

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
BAAQMD Regulation 8, Rule 8	**Wastewater (Oil-Water) Separator (08/29/94)**		
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 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	
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	

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
61.343(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	
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	**National Emissions Standards for Hazardous Air Pollutants from Petroleum Refineries (8/18/95)**		

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
Subpart CC			
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	Reporting and recordkeeping requirements	Y	
63.654(a)	Owner/operators subject to the wastewater provisions of 63.647 shall comply with the recordkeeping and reporting requirements in 61.356 and 61.357 of 40 CFR 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(i)	Recordkeeping	Y	
63.654(i)(4)	All information required to be reported under 63.654(a) through (h) shall be retained for 5 years.	Y	

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 (08/29/94)**		
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:		
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/vaccum 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	
Condition # 5077			
Part 1	Design Rated Capacity Limit [basis: Cumulative Increase]	Y	

Table IV – CI
Source-specific Applicable Requirements
S2009 - LUBS WASTEWATER SEPARATOR DUBBS BOX

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	See Table IV – AT for additional requirements.		
Condition # 5077			

IV. Source Specific Applicable Requirements

Table IV – CI
Source-specific Applicable Requirements
S2009 - LUBS WASTEWATER SEPARATOR DUBBS BOX

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 10	Design Rated Capacity Limit [basis: Cumulative Increase]	Y	
Part 12	Reporting of Emission Leaks [basis: Regulation 8-8-302.1]	Y	

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**		
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	

IV. Source Specific Applicable Requirements

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]		

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	

IV. Source Specific Applicable Requirements

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	

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	**Particulate Matter and Visible Emissions (12/19/90)**		
6-301	Ringelmann No. 1 Limitation	Y	
6-310	Particle 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	

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
Part 4	Only lean amine solution distilled [basis: Cumulative Increase]	Y	
Part 5	Neutralize acid gases and react residual H2S [basis: Cumulative Increase]	Y	
Part 6	Natural gas fired only [basis: Cumulative Increase]	Y	
Part 7	Recordkeeping [basis: Cumulative Increase]	Y	

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	

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
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	Continuos 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 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			
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	**Particulate Matter and Visible Emissions (09/04/98)**		
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 [basis: BACT]	Y	
Part 80	Enclosing and washing of Coke Corral [basis: BACT]	Y	
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	

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)
S4170 – LUBS LUBE HYDROTREATER –2 (LHT2)

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	
Part 1	Fugitive requirements for new pumps in light liquid or toxic service [basis: BACT]	Y	
Part 3	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	

IV. Source Specific Applicable Requirements

Table IV - CS
Source-specific Applicable Requirements
S4021 – DC F-13909 DHT RECYCLE
S4171 – LUBS F-13000 LHT2 FEED

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 1	**General Provisions and Definitions (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	
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 (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	**Particulate Matter and Visible Emissions (09/04/98)**		
6-301	Ringelmann No. 1 Limitation	Y	
6-304	Tube Cleaning	Y	
6-305	Visible Particles	Y	
6-310	Particle 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)**		

IV. Source Specific Applicable Requirements

Table IV - CS
Source-specific Applicable Requirements
S4021 – DC F-13909 DHT RECYCLE
S4171 – LUBS F-13000 LHT2 FEED

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
9-10-301	Emission Limit for Facility, NOx: 0.033 lb NOx/MMBTU	N	
9-10-301.1	...Start-up/Shutdown Contribution	N	
9-10-301.2	...Out-of-Service Units Contribution	N	
9-10-303	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 O2	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 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)**	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	

IV. Source Specific Applicable Requirements

Table IV - CS
Source-specific Applicable Requirements
S4021 – DC F-13909 DHT RECYCLE
S4171 – LUBS F-13000 LHT2 FEED

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

IV. Source Specific Applicable Requirements

Table IV - CS
Source-specific Applicable Requirements
S4021 – DC F-13909 DHT RECYCLE
S4171 – LUBS F-13000 LHT2 FEED

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
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	12/01/04
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	12/01/04
Part 4	NOx box establishment requirements (basis: Regulation 9-10-502)	N	12/01/04
Part 5	NOx box ranges (basis: Regulation 9-10-502)	N	12/01/04
Part 6	NOx Box Deviations (basis: Regulation 9-10-502)	N	12/01/04
Part 7	Source test requirements (basis: Regulation 9-10-502)	N	12/01/04
Part 9	CO results requires CEM (basis: Regulation 9-10-502, 1-522)	N	12/01/04
Part 10	Source test records (basis: recordkeeping; Regulation 9-10-504)	N	12/01/04
Part 11	CEM for NOx and O2 monitoring [basis: Regulation 9-10-502]	N	
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 - CS
Source-specific Applicable Requirements
S4021 – DC F-13909 DHT RECYCLE
S4171 – LUBS F-13000 LHT2 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-1476, S-1477, S-1478, S-1479, S-1508, S-1760 and S-4021 [basis: Regulation 9-10-502]	N	
Part 19	Allowable operating ranges for S-1476, S-1477, 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 – DC F-13909 DHT RECYCLE
S4171 – LUBS F-13000 LHT2 FEED

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	
60.13(i)	Alternatives to any monitoring procedures or requirements	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
	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	
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	Continuos 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	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
	Increase]		
Part 22	Startup and shutdown limits [basis: BACT]	Y	
Part 23	HHV basis [basis: Cumulative Emissions]	Y	
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			
Part 1	Maximum firing rate [basis: Regulation 2-1-234]	N	

Table IV - CTa
Source-specific Applicable Requirements
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 & 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	

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 1	**General Provisions and Definitions (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 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)**		
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 – 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
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	**Particulate Matter and Visible Emissions (09/04/98)**		
6-301	Ringelmann No. 1 Limitation	Y	
6-304	Tube Cleaning	Y	
6-305	Visible Particles	Y	
6-310	Particle Weight Limitation	Y	
6-310.3	0.15 grain per dscf at 6% O_2	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	
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 O2	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 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	

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
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), ofPart 60	Y	
60.13(b)	Continuous monitoring systems and devices operational prior toperformance 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 rquirements	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	

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 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 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 #			

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
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	12/01/04
Part 2	O2 monitor and recorder requirement (basis: Regulation 9-10-502)	N	09/01/04
Part 8	CO source test (basis: Regulation 9-10-502, 1-522)	N	12/01/04
Part 10	Source test records (basis: recordkeeping; Regulation 9-10-504)	N	12/01/04
Part 11	CEM for NOx and O2 monitoring [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 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 - 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 (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 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	**Particulate Matter and Visible Emissions (09/04/98)**		
6-301	Ringelmann No. 1 Limitation	Y	
6-305	Visible Particles	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
6-310	Particle Weight Limitation	Y	
6-401	Appearance of Emissions	Y	
BAAQMD Regulation 9, Rule 9	**Inorganic Gaseous Pollutants - Nitrogen Oxides from Stationary Gas Turbines (9/21/94)**		
9-9-113	Exemption - Inspection/Maintenance	Y	
9-9-114	Exemption - Startup/Shutdown	Y	
9-9-301	Emission Limits - General	Y	
9-9-301.3	Emission Limits	Y	
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	
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	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
	combustion (in lieu of separate combustion device exhaust SO2 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	
NSPS 40 CFR 60 Subpart GG; BAAQMD 10-40	**Standards of Performance for Stationary Gas Turbines (1/27/82)**		
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	
60.335	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	

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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 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	Continuos 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	

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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 114	Source Test for VOC emissions [basis: Regulation 2-6-409.2]	Y	
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 7	Recordkeeping (basis: Regulation 2-6-409.2)	Y	

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 (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	

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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
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	**Particulate Matter and Visible Emissions (09/04/98)**		
6-301	Ringelmann No. 1 Limitation	Y	
6-304	Tube Cleaning	Y	
6-305	Visible Particles	Y	
6-310	Particle Weight Limitation	Y	
6-310.3	0.15 grain per dscf at 6% O_2	Y	
6-401	Appearance of Emissions	Y	
BAAQMD Regulation 9, Rule 9	**Inorganic Gaseous Pollutants - Nitrogen Oxides from Stationary Gas Turbines (9/21/94)**		
9-9-113	Exemption - Inspection/Maintenance	Y	
9-9-114	Exemption - Startup/Shutdown	Y	
9-9-301	Emission Limits - General	Y	
9-9-301.3	Emission Limits	Y	
9-9-401	Efficiency Certification	Y	
9-9-501	Continuous Emission Monitoring (CEM)	Y	
NSPS 40 CFR 60	**Standards of Performance for New Stationary Sources (12/23/71)**	Y	

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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
Subpart A			
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 Db; BAAQMD 10-4	**Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units (3/13/00)**		
60.43b	**PM Standard**	Y	
60.43b(e)	Capacity Calculation	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	

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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
60.49b(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	
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	Y	

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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
	Increase]		
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	Continuos 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	

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
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			
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	

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
BAAQMD Regulation 6	**Particulate Matter and Visible Emissions (09/04/98)**		
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
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	

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
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	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 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)	Y	12/01/04
Part 13	Flaring recordkeeping requirements (basis: Regulations 8-1-110.3; 2-6-409.2; 2-6-501)	Y	12/01/04
Part 14	Inspection of flaring requirements (basis: Regulation 2-6-4092.)	Y	12/01/04
Part 15	Inspection procedures (basis: Regulation 6-301; 2-1-403)	Y	12/01/04
Part 16	Visual inspection requirements (basis: Regulation 2-6-403)	Y	12/01/04
Part 17	Recordkeeping requirements for flaring events (basis: Regulation 2-6-501; 2-6-409.2)	Y	12/01/04
Part 18	Flexigas flare requirements (basis: Regulation 2-6-501; 2-6-409.2)	Y	12/01/04
Part 19	Upset gas limitation (basis: 60.104(a)(1); Regulation 2-1-403)	Y	12/01/04

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
BAAQMD Regulation 1	**General Provisions and Definitions (05/02/2001)**		
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	**Particulate Matter and Visible Emissions (09/04/98)**		
6-301	Ringelmann No. 1 Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particle Weight Limitation	Y	
6-311	General Operations (process weight rate limitation)	Y	
6-401	Appearance of Emissions	Y	
BAAQMD Regulation 8 Rule 2	**Organic Compounds – Miscellaneous Operations (03/22/95)**		
8-2-301	Miscellaneous Operations	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	

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
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	
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 – 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(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)**		
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	Reporting and recordkeeping requirements	Y	
63.654(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	
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	

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 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	
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 – 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
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	

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	

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
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	
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	

IV. Source Specific Applicable Requirements

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
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	

IV. Source Specific Applicable Requirements

Table IV - DE
Source-specific Applicable Requirements
S4347 – OPCEN PIT FOR SULFUR PLANT 4

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 6	**Particulate Matter and Visible Emissions (09/04/98)**		
6-301	Ringelmann Number 1 Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particulate Weight Limitation	Y	
6-311	General Operations (process weight rate limitation)	Y	
6-330	Sulfur Recovery Units (SO3, H2SO4 emission limitations)	Y	
6-401	Appearance of Emissions	Y	
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 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 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	

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 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 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 continuos 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	

Table IV – DG
Source-specific Applicable Requirements
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 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	

IV. Source Specific Applicable Requirements

Table IV – DG
Source-specific Applicable Requirements
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
8-5-301	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	
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	

IV. Source Specific Applicable Requirements

Table IV – DG
Source-specific Applicable Requirements
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
60.116b(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	
	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	

IV. Source Specific Applicable Requirements

Table IV – DG
Source-specific Applicable Requirements
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
60.7(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	
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:		Y	

IV. Source Specific Applicable Requirements

Table IV – DG
Source-specific Applicable Requirements
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
	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.		
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 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)(8)	Reporting requirements	Y	
MACT	**National Emissions Standards for Hazardous Air Pollutants**	**Y**	

IV. Source Specific Applicable Requirements

Table IV – DG
Source-specific Applicable Requirements
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
40 CFR 63 Subpart CC	**from Petroleum Refineries (8/18/95)**		
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	Reporting and recordkeeping requirements	Y	
63.654(a)	Owner/operators subject to the wastewater provisions of 63.647 shall comply with the recordkeeping and reporting requirements in 61.356 and 61.357 of 40 CFR 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(i)(4)	All information required to be reported under 63.654(a) through (h) shall be retained for 5 years.	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 45	Vapor Recovery System [basis: BACT]	Y	

IV. Source Specific Applicable Requirements

Table IV – DG
Source-specific Applicable Requirements
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 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 – AE 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	
Part 51	Degassing abatement requirements [basis: BACT]	Y	

IV. Source Specific Applicable Requirements

TABLE IV – DJ
SOURCE-SPECIFIC APPLICABLE REQUIREMENTS
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
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	

IV. Source Specific Applicable Requirements

TABLE IV – DK
SOURCE-SPECIFIC APPLICABLE REQUIREMENTS
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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	See Table IV – DJ for additional requirements		
Condition # 11504			
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 (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
	See Table IV - CG for additional requirements.		
Condition # 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	

IV. Source Specific Applicable Requirements

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**		
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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	See Table IV – AC for additional requirements.		
Condition # 8502			
Part 1	Level indicating device [basis: Cumulative Increase]	Y	

Table IV – DNa
Source-specific Applicable Requirements
S5140 – DIESEL ENGINE, S6051 THROUGH S6060 DIESEL ENGINES

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 6	**Particulate Matter and Visible Emissions (09/04/98)**		
6-301	Ringelmann No. 1 Limitation	Y	
6-305	Visible Particles		
6-310	Particulate Weight Limitation	Y	

IV. Source Specific Applicable Requirements

Table IV – DNa
Source-specific Applicable Requirements
S5140 – DIESEL ENGINE, S6051 THROUGH S6060 DIESEL ENGINES

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)**		
9-1-301	Limitations on Ground Level Concentrations	Y	
9-1-304	Fuel Burning (Liquid and Solid Fuels)	Y	
BAAQMD Regulation 9, Rule 8	**Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon Monoxide from Stationary Internal Combustion Engines (1/20/93)**		
9-8-331	Essential Public Service, Hours of Operation	N	
9-8-530	Emergency Standby Engines, Monitoring and Recordkeeping	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]	Y	
Part 7	Visibile emission monitoring [basis: Regulation 2-6-409.2]	Y	

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			
Part 1	Throughput limit [basis: Cumulative Increase]	Y	

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 2	Design Requirements [basis: BACT, Cumulative Increase]	Y	
Part 3	Recordkeeping [basis: Cumulative Increase]	Y	

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 devise 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(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(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	
60.692-6	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	

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(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(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	
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	

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	

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
63.10	Recordkeeping and Reporting Requirements	Y	
MACT Part 63 Subpart CC	**National Emission Standards for Hazardous Air Pollutants from Petroleum Refineries**		
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	Reporting and Recordkeeping Requirements	Y	
63.654(e)(3)	Records include reports described in 63.654(h).	Y	
63.654(h)(1)	Reports of startup, shutdown and malfunction.	Y	
63.654(i)(4)	All information required to be reported under 63.654(a) through (h) shall be retained for 5 years.	Y	

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**		

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
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**		
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	
63.654	Reporting and Recordkeeping Requirements	Y	
63.654(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	
63.654(d)(3)	For compressors that qualify for the hydrogen service exemption keep records of the demonstration required by 63.648(g)	Y	
63.654(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	
63.654(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	
63.654(e)(3)	Records include reports described in 63.654(h).	Y	
63.654(h)(1)	Reports of startup, shutdown and malfunction.	Y	
63.654(i)(4)	All information required to be reported under 63.654(a) through (h) shall be retained for 5 years.	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)**		

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
60.480	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 devise 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	

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
60.482-5	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	
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	

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
60.485	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 (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 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	Reporting and Recordkeeping Requirements	Y	
63.654(a)	Owner/operators subject to the wastewater provisions of 63.647 shall comply with the recordkeeping and reporting requirements in 61.356 and 61.357 of 40 CFR 61, Subpart FF, unless they comply with those specified in paragraph (o)(2)(ii) of 63.640. Recordkeeping and reporting for wastewater streams included in emission averages are specified in 63.653 and in paragraphs (f)(5) and (g)(8) of this section.	Y	
63.654(i)(4)	All information required to be reported under 63.654(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 (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 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	Reporting and Recordkeeping Requirements	Y	
63.654(a)	Owner/operators subject to the wastewater provisions of 63.647 shall comply with the recordkeeping and reporting requirements in 61.356 and 61.357 of 40 CFR 61, Subpart FF, unless they comply with those specified in paragraph (o)(2)(ii) of 63.640. Recordkeeping and reporting for wastewater streams included in emission averages are specified in 63.653 and in paragraphs (f)(5) and (g)(8) of this section.	Y	
63.654(i)(4)	All information required to be reported under 63.654(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 (5/02/01)**		
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 (8/1/01)**		
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 (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	
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	

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
8-10-301.1	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)**		
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	N	
8-16-115	Limited Exemption, Small Unheated Solvent Cleaning Equipment	N	
8-16-118	Limited Exemption, Compounds with Low Volatility	N	
8-16-303	Cold Cleaner Requirements	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	N	
8-16-303.1.4(a)	Covered Containers for Waste Solvent Awaiting Pick-up	N	
8-16-303.1.4(b)	On-site Waste Treatment	N	
8-16-303.1.5	Solvent Evaporation Minimization Devices shall not be Removed	N	
8-16-303.1.6	Solvent Spray Requirements	N	
8-16-303.2	Cold Cleaner Operating Requirements	Y	
8-16-303.2.1	Solvent shall be Drained from Cleaned Parts	Y	
8-16-303.2.2	Solvent Agitation	Y	
8-16-303.2.3	Solvent Cleaning of Porous or Absorbent Materials is Prohibited	Y	
8-16-303.3	Cold Cleaner General Equipment Requirements	N	
8-16-303.3.1	Container	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
8-16-303.3.2	Solvent Evaporation Reduction for Idle Equipment	N	
8-16-303.3.3	Used Solvent Returned to Container	N	
8-16-303.3.4	Label Stating Operating Requirements	N	
8-16-303.4	Control Device (one of the following)	N	
8-16-303.4.1	Freeboard Ratio > 0.75	N	
8-16-303.5	VOC content < 0.42 pounds per gallon or comply with 8-16-303.4.1 and other options	N	
8-16-501	Solvent Records	N	
8-16-501.2	Facility-wide Monthly Solvent Usage Records	N	
8-16-501.3	Annual Records of Type and Amount of Solvent Used for Wipe Cleaning	N	
8-16-501.5	Records Retained	N	
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	
8-16-303.3	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 Regulation 8, Rule 40	**Aeration of Contaminated Soil and Removal of Underground Storage Tanks (**04/19/2001**)**		
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	

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
8-40-306	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_2S from refinery fuel gas, 95% of H_2S 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_2S from refinery fuel gas, 95% of H_2S and ammonia from process water streams	Y	
BAAQMD Regulation 9, Rule 2	**Inorganic Gaseous Pollutants- Hydrogen Sulfide (10/6/99)**		
9-2-301	Limitations on Ground Level Concentrations	N	
9-2-501	Area Monitoring Requirements	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	

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
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	
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)**		

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
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)	Uncontrolled aqueous wastes (with a flow-weighted annual average water content of 10% or more by volume)shall be limited to 6 Mg/yr	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	
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	

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
61.357(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	
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

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 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 (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.	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	Reporting and Recordkeeping Requirements	Y	
63.654(a)	Owner/operators subject to the wastewater provisions of 63.647 shall comply with the recordkeeping and reporting requirements in 61.356 and 61.357 of 40 CFR 61, Subpart FF, unless they comply with those specified in paragraph (o)(2)(ii) of 63.640. Recordkeeping and reporting for wastewater streams included in emission averages are specified in 63.653 and in paragraphs (f)(5) and (g)(8) of this section.	Y	
63.654(i)(4)	All information required to be reported under 63.654(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 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	

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, S30-Tank 30, S31-Tank 31, S32-Tank 32, S33-Tank 33, S35-Tank 35, S36-Tank 36, S38-Tank 38, S49-Tank 49, S50-Tank 50, S53-Tank 53, S56-Tank 56, S84-Tank 84, S90-Tank 90, S109-Tank 109, S130-Tank 130, S145-Tank 145, S146-Tank 146, S147-Tank 147, S148-Tank 148 S149-Tank 149, S222-Tank 222, S258-Tank 258, S259-Tank 259, S260-Tank 260, S261-Tank 261, S262-Tank 262, S263-Tank 263, S267-Tank 267, S332-Tank 332, S334-Tank 334, S335-Tank 335, S336-Tank 336, S337-Tank 337, S343-Tank 343, S344-Tank 344, S346-Tank 346, S356-Tank 356, S368-Tank 368 S393-Tank 393, S394-Tank 394, S398-Tank 398, S400-Tank 400, S401-Tank 401, S418-Tank 418, S419-Tank 419, S422-Tank 422, S423-Tank 423, S424-Tank 424, S426-Tank 426, S427-Tank 427, S428-Tank 428, S467-Tank 467, S468-Tank 468, S475-Tank 475 S476-Tank 476, S477-Tank 477, S478-Tank 478, S485-Tank 485, S514-Tank 514, S523-Tank 523, S524-Tank 524, S525-Tank 525, S526-Tank 526, S536-Tank 536 S537-Tank 537, S597-Tank 597, S608-Tank 608, S609-Tank 609, S713-Tank 713, S714-Tank 714, S786-Tank 786, S787-Tank 787, S804-Tank 804, S806-Tank 806, S814-Tank 814, S822-Tank 822, S833-Tank 833 S834-Tank 834, S835-Tank 835, S837-Tank 837, S839-Tank 839, S850-Tank 850, S851-Tank 851, S869-Tank 869, S877-Tank 877, S879-Tank 879, S880-Tank 880, S888-Tank 888, S890-Tank 890, S902-Tank 902, S903-Tank 903, S926-Tank 926, S927-Tank 927, S928-Tank 928, S929-Tank 929, S932-Tank 932, S933-Tank 933, S934-Tank 934, S935-Tank 935, S942-Tank 942, S953-Tank 953, S954-Tank 954, S955-Tank 955, S956-Tank 956 S957-Tank 957, S958-Tank 958, 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, S993-Tank 993, S1000-Tank 1000, S1001-Tank 1001, S1003-Tank 1003, S1009-Tank 1009, S1012-Tank 1012, S1013-Tank 1013, S1020-Tank 1020, S1024-Tank 1024, S1026-Tank 1026, 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, S1071-Tank 1071, 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, S1185-Tank 1185, S1190-Tank 1190, S1231-Tank 1231 Fresh DEA, S1347-Tank 1347, S1348-Tank 1348, S1564-Tank 1564, 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 (06/05/03)**		
8-5-117	Exemption, Low Vapor Pressure	Y	

V. SCHEDULE OF COMPLIANCE

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

VI. PERMIT CONDITIONS

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

Condition # 4041
For S1803, OPCEN Coke Corral:

1. The S1803 OPCEN Coke Corral shall only be used for material handling and storage of petroleum coke materials, refractory and Stretford sulfur. 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 and is secured adequately so as to minimize emissions to the atmosphere necessary to

VI. Permit Conditions

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 mixure 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 temperature data collected from the temperature recorder shall be maintained in a file

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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]

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,

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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 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 6-301]

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]

Condition # 4977
For S858, Tank 858:

1. Condition deleted.

2. The total material throughput at this tank shall not exceed 85,848 thousand gallons in any consecutive 12 month period. [basis: Cumulative Increase]

3. The owner/operator of S858 shall maintain records of all the material stored and throughput at this source to confirm compliance with condition #2. [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
S2009, LUBS Wasterwater Separator DubbsBox

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]

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]

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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For S2009:

10. The LUBS Wastewater Separator Dubbs Box (S2009) shall not be operated over the design rated capacity of 600 gpm or the maximum allowable capacity of the unit. [basis: Cumulative Increase]

11. Condition deleted.

12. 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]

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

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Roof leg	Fixed; or Adjustable, with vapor seal boot, or gasket 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)

4. 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)

5. 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)

Condition # 7133
For S1023, Tank 1023
S1050 – Tank 1050:

1. Condition deleted.
2. The total material throughput at S1023 and S1050 shall not exceed 128,772 thousand gallons in any 12 consecutive month period. [basis: Cumulative Increase]
3. The owner/operator of S1023 and S1050 shall maintain records of all the material stored and the throughput at these sources to confirm compliance with Condition #2. Records shall be maintained for a minimum of 5 years from the date of entry. [basis: Cumulative Increase]

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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 alog. These records shall be kept on site and be made available for District inspection for a period 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 alog. 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.

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
S1476, LUBS F-24 Atmosphric Feed

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S1477, LUBS F-25 Vacuum Feed
S1478, LUBS F-26 Furfural Raff,
S1479, LUBS F-27 Furfural Extr,
S1480, LUBS F-69 Asphalt Circulation,
S1481, OPCEN F-30 DSU,
S1483, LUBS F-32 Asphalt Circulation,
S1484, LUBS F-34 LHT Charge
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
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)

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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 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

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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 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).

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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 NOx emissions form sources S1500, S1502, S1503, S1504, S1505 and S1515. The owner/operator shall use P-23 CEM data and calculated stack flows to estimate NOx 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 NOx emissions from these two heaters. The owner/operator shall use the NOx emission factors in Table IX to calculate NOx emissions during any period for which NOx CEM data is not available for more than 24 hours. For periods less than 24 hours, the owner/operator shall use the average NOx 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 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, S02, 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

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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.

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.

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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 (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	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

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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.

a. The refinery shall not process more than 124,000 barrels of crude oil per stream day. [basis: Regulation 2-2-302]

b. The refinery shall not process more than 22,000 barrels of Flexicoker feed per stream day. [basis: Regulation 2-2-302]

c. The refinery shall not process more than 65,000 barrels of catalytic cracker feed per stream day. [basis: Regulation 2-2-302]

d. 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]

e. 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]

f. 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

1. 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:

   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]

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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. 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, the H2S concentration of the Flexigas shall not exceed 35 ppmv. If the owner/operator can demonstrate that the Stretford Unit 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. [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

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Crude Units
CCU
Sulfur Plants and Tail Gas Units
Wharf Operations
Lightering and Ballasting while within District boundaries

TABLE II.
FACILITY BASELINE PROFILE -- NOx EMISSIONS (LB/DAY)

NOx Baseline reduced 3089 lb/day per Condition ID# 12271 and 2 lb/day per Condition ID# 4364. (AN 1362, Feb. 2002)

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

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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
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

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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
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

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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
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

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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
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

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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
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

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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
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 to91	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

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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
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

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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
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)

No. of days	Pounds per day
1	23023
2	23011
3	22804.6
4	22737.4
5	22658.2
6	22487.8
7	22221.4
8	22199.8
9	22125.4
10	22111
11	22065.4
12	21854.2
13	21851.8
14	21763

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15	21686.2
16	21556.6
17	21472.6
18	21451
19	21424.6
20	21074.2
21	21021.4
22	20995
23	20867.8
24	20858.2
25	20723.8
26	20644.6
27	20577.4
28	20570.2
29	20512.6
30	20510.2
31	20491
32	20474.2
33	20452.6
34	20402.2
35	20327.8
36	20063.8
37	20027.8
38	19586.2
39	19571.8
40	19569.4
41	19418.2
42	19367.8
43	19137.4
44	19127.8
45	19123
46	19019.8
47	19017.4
48	18995.8
49	18902.2
50	18897.4
51	18890.2
52	18839.8
53	18681.4
54	18616.6
55	18523
56	18455.8
57	18391
58	18208.6
59	18201.4
60	18155.8

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61	18136.6
62	18119.8
63	18055
64	18045.4
65	18028.6
66	18023.8
67	18011.8
68	17987.8
69	17843.8
70	17800.6
71	17793.4
72	17791
73	17788.6
74	17762.2
75	17661.4
76	17647
77	17560.6
78	17524.6
79	17493.4
80	17443
81	17387.8
82	17385.4
83	17371
84	17313.4
85	17311
86 to 87	17301.4
88	17294.2
89	17291.8
90	17267.8
91	17265.4
92	17215
93	17176.6
94	17145.4
95	17128.6
96	17126.2
97	17104.6
98	17090.2
99	17080.6
100	17054.2
101	17042.2
102	17032.6
103	17023
104	17020.6
105	16979.8
106	16946.2
107	16939

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108	16929.4
109	16927
110	16883.8
111	16871.8
112	16869.4
113	16845.4
114	16831
115	16814.2
116	16797.4
117	16792.6
118	16790.2
119	16775.8
120	16749.4
121	16713.4
122	16711
123	16699
124	16689.4
125	16672.6
126	16667.8
127	16651
128	16648.6
129	16643.8
130	16615
131	16607.8
132	16595.8
133	16579
134	16567
135	16552.6
136	16538.2
137	16502.2
138	16497.4
139 to 140	16480.6
141	16468.6
142	16449.4
143	16444.6
144	16442.2
145	16437.4
146	16432.6
147	16430.2
148	16375
149	16312.6
150	16298.2
151	16271.8
152 to 153	16267
154	16264.6
155	16255

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156	16252.6
157	16243
158	16221.4
159 to 160	16219
161	16214.2
162	16185.4
163	16163.8
164	16147
165	16142.2
166	16135
167	16132.6
168	16123
169	16115.8
170	16051
171	16043.8
172	16034.2
173	16007.8
174	15993.4
175	15983.8
176	15976.6
177	15971.8
178	15945.4
179	15940.6
180	15926.2
181	15919
182 to 183	15902.2
184	15895
185	15861.4
186	15854.2
187	15820.6
188 to 189	15796.6
190	15782.2
191	15775
192	15765.4
193 to 194	15763
195	15743.8
196 to 197	15736.6
198 to 199	15717.4
200	15695.8
201	15655
202	15635.8
203	15609.4
204	15547
205 to 207	15527.8
208	15518.2
209	15513.4

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210	15506.2
211	15503.8
212	15501.4
213	15496.6
214	15494.2
215	15489.4
216	15484.6
217	15482.2
218	15479.8
219	15477.4
220 to 221	15475
222	15472.6
223	15467.8
224	15448.6
225	15446.2
226	15441.4
227 to 229	15439
230	15434.2
231	15429.4
232	15422.2
233 to 234	15419.8
235	15417.4
236	15410.2
237	15403
238	15395.8
239	15393.4
240	15388.6
241	15386.2
242	15367
243	15364.6
244	15362.2
245	15359.8
246	15357.4
247	15355
248 to 250	15352.6
251 to 252	15350.2
253 to 254	15345.4
255	15343
256 to 257	15340.6
258	15333.4
259	15314.2
260	15311.8
261	15307
262	15304.6
263	15302.2
264	15299.8

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265	15275.8
266	15273.4
267 to 268	15268.6
269 to 270	15266.2
271	15261.4
272	15256.6
273	15254.2
274	15251.8
275	15213.4
276	15199
277	15124.6
278	15081.4
279	15047.8
280	15045.4
281	15035.8
282	14971
283 to 287	14961.4
288 to 294	14949.4
295	14702.2
296	14690.2
297 to 307	14680.6
308 to 325	14668.6
326 to 365	14659

TABLE V (revised10/94,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 to17	1957.8
18 to19	1955.4

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20	1953.1
21	1948.2
22	1945.8
23	1941.1
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 to43	1833.1
44	1830.6
45	1821.1
46	1806.6
47	1801.8
48	1792.2
49	1780.2
50 to52	1777.8
53	1775.4
54 to55	1773.1
56 to57	1770.6
58	1761.1
59 to61	1758.6
62 to63	1756.2
64	1753.8
65	1749.1
66	1744.2
67 to 69	1737.1
70 to71	1722.6
72	1717.8
73	1715.4
74	1713.1
75	1710.6
76 to78	1708.2
79	1705.8

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80	1703.4
81	1698.2
82	1696.2
83 to86	1693.8
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

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200 to202	1576.2
203 to204	1573.8
205 to206	1571.4
207 to209	1569.1
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	

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Reformate	1.4
240/450 Cat Crk	1.4
Dist Heavy Naphtha	1.4
Cat Reformer Feed	1.4
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

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Shell Thin F.O. MV 380/11.4	.002
Miscellaneous Cutter Stock	.002
Shell Special Industrial Fuel Oil	.002
Shell UMF Grade C	.002
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

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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)

Ship Size	Fuel	Manuevering	Hoteling	Cargo Discharge Rates (1000 bbl/hr) 3	7.5	11	20	50	85
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)

CO BOILERS	HC	PART	NOx	CO	SOx	
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)

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Notes:
(1) S = sulfur content of Refinery Gas in ppm (60 in base case)
(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)

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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.]

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.]

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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 # 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 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)

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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 (OVAFID), 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 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

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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:

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.]

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)

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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 approve 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]

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

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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]

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

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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
S4170, LUBS Lube Hydrotreater 2 (LHT2)
S4171, LUBS F-13000 LHT2 Feed
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
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

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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/PM1	059.1 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 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
S4171	LUBES F-13000 LHT2 Feed
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

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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-S4170 LUBS Lube Hydrotreater –2 (LHT2)
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: cumulative emissions, offsets]

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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;

Storage tank emissions;

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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 or other "leakless" valve technology, as approved by the District, when commercially

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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 emission factors identified in the fugitive emission calculations in Appendix B of the

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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 (163 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 (except S4171 LUBS F-13000 LHT-2 Feed, which will be fired exclusively with natural gas). 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 burn a fuel with: (1) an H2S concentration exceeding 50 ppm, 24 hour average; or (2) a total reduced sulfur content exceeding 70 ppm, annual average. [basis: offsets, 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 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

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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 NOx, 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]

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

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Pollutant	Daily Limit (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 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,

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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 HP3Steam 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 startup, shutdowns and emergency upsets, the HP-3 deaerator vent must be vented to S4161, DC H-101 HP3 Steam Methane Reformer. During startups and shutdowns, the deaerator vent may be routed to atmosphere for no longer than 9 hours while feed gas is in the process. 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, 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]

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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 NOx and O2. [basis: BACT]

39. Start-up condition deleted.

Furnaces with Low NOx Burners (S4021and 4171)
(Conditions 40 through 44 amended per AN 14577; 3/95)

40. For all natural draft furnaces (S4021and 4171), 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 (S4021and 4171) is installed as a forced draft furnace, emissions of nitrogen oxides for that furnace, as NO2, shall not exceed 20 ppmv, dry, corrected to 3% oxygen, averaged over 3 hours, except during startup and shutdown, as defined by Condition 22. [basis: BACT]

42. For sources S4021 and 4171, 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 sources S4021and 4171, to comply with the limit in Condition No. 43. [basis: BACT]

44. Start-up condition deleted.

TANKAGE

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45. Tanks S13, 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, 4349shall 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
Gauge hatch / Sample well	Weighted mechanical actuation, gasketed
Vacuum breaker	Weighted mechanical actuation, gasketed
Roof drain	Roof drain does not drain water into product

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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 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

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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 S4170 LUBS Lube Hydrotreater 2 (LHT2), 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 S4170 and 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 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.

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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 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

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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 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

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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.

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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, with an overall capture and destruction of 98.5% by weight. [basis: BACT]

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.

a. The moisture content of the coke shall be analyzed at least once per day;
b. Compliance is achieved with a moisture content is greater than or equal to 8% by weight;
c. 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.
d. 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;
e. 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;
f. 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]

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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. The Coke Corral shall be enclosed and controlled by A4005, Particulate Collection Device for Delayed Coking Unit for Coke Corral , at all times during operation of the coke corral. 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 shall be kept closed except for ingress or egress. The Coke Corral shall be equipped with a vehicle wash off area, inside of the Coke Corral, to remove coke dust from the vehicle prior to exiting the Coke Corral.

    If particulate emissions from the Coke Corral 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

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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 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]

NOx OFFSETS

85. Total emissions of nitrogen oxides, as NO2, from the three existing CO Boilers (S1507, 1509, and 1512) shall not exceed 6770 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 NOx 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

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calculate NOx emissions on a daily basis. If a NOx CEM on a CO Boiler is not functioning for more than one day, then NOx emissions from that CO Boiler will be assumed to be 2257 lb/day (6770 / 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 NOx 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]
(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]

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94. Start-up condition deleted.

95. Start-up condition deleted.

RAIL EMISSIONS

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 and S4171, the owner/operator shall conduct a District approved source test annually for S4171 and 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 annully 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

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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 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 annully 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 and S4171, the owner/operator shall conduct a District approved source test annually for S4171 and 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 annully 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 annully 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

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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 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

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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 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

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three consecutive annual source tests document that emissions are less than 50 percent of the standard. [basis: Regulation 2-6-409.2]

115. Effective April 1, 2004, the owner/operator will demonstrate compliance with Regulation 9-1-313.2 by performing the following for S4180:
   a) Perform monitoring of the facility fuel gas for H2S using continuous online H2S analyzers. Refinery fuel gas will be monitored at both refinery fuel gas distribution systems (Clean Fuels and Main Refinery systems).
   b) Perform monitoring of the Sour Water Stripper Bottoms Water for NH3 concentration in facility's Sour Water Strippers twice per week.

   The owner/operator shall summarize the results of these analyses in a District approved log. The owner/operator shall include in the log an annual report summarizing the facility's compliance with the requirements of Regulation 9-1-313.2. The owner/operator shall retain each analysis, annual report, and District approved log on site and available for inspection upon District request for a minimum of 5 years from the date of record. (Basis: Regulation 9-1-313.2)

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 No.		Firing Rate (MMBTU/hr)	NOx (TPY)	POC (TPY)	CO (TPY)	PM/PM10 (TPY)	S02 (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
4171	LH Feed	15	1.91	0.20	2.30	0.33	0.04
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, except S-4171 which fires natural gas, 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% 02, 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)3% oxygen
(b) 10 ppmv, dry NOx a3% oxygen
(c) 5 ppmv, dry NOx o115% oxygen
(d) vendor spec. (w/oxidation catalyst controlfor 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 ppn at 15% 02 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 MM BTU/hr)(100 exp-6)(0.001scf/BTU)(1 mole/387 scf)*
(64lbS02/mole)(24hr/day)(365day/yr)/(2000 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	0.00008	0.00354	100 ppm, quarterly I&M
Accessible Valves (bellows)	0.00054	0.00083	0.00004	0.00027	100 ppm, quarterly I&M
Inaccessible Valves (graphite packing)	0.01255	0.00671	0.00008	0.00628	100 ppm, annual I&M
Inaccessible Valves (bellows)	0.00088	0.00127	0.00004	0.00044	(acc. bellows/acc. graphite)* (inacc. graphite)
Valves: Composite	0.00410	0.00265	0.00006	0.00205	composite using 10% inaccessible
Flanges (graphite gaskets)	0.00017	0.00017	0.00017	0.00008	graphite gaskets
Pump Seals (double seals)		0.00613	0.00613		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 (Ib/hr)	non-PM Subtotal (Ib/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 Hydrotreator (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	
Decyclohexanizar (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		
streams 1,2			0.80			3.50
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 Dopentanizer CS streams	0.10				0.43	
Alky Depentanizor feed and bottoms streams	0.29				1.26	

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Summary of Emissions						Page 2 of 4
Stream Description	non-POC Emissions Subtotal Emissions (lb/hr)	POC Subtotal (lb/hr)	POC Emmisions (lb/hr)	non-POC Subtotal (lb/hr)	POC Emissions (TPY)	non-POC Emissions (TPY)
Cracked Gasoline Dopentanizer (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	
Seloctiva 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	
stream 157	0.97				4.26	
stream 164, 360, 370,102	0.16				0.69	

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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	
hydrogen streams			0.46			2.00

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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 6quid 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 (Ib/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
eel 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	bbl/yr	1800000	800000	800000	25500000	9100000	1950000
Shell Clingage Factor	C	bbl/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

Desscription	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:

$$E = k(0.0032)\frac{(U/5)^{1.3}}{(M/2)^{1.4}} \quad \text{lbs/ton}$$

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 operations which result in a minimum 8% moisture content,

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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 T/yr)(0.00149 lb/ton)(1-0.95) = 82 lbs/yr
PM10 :(82 lbs PM/yr)(0.70 wt fraction PM10) = 57 lbs/yr

APPENDIX B-4 COKE HANDLING PARTICULATE EMISSIONS

COKE BARN LOAD OUT

PM:(1,095,000 T/yr)(0.00149 lb/ton)(1-0.7)(1-0.9)= 49 lbs/yr
PMl0 :(49 lbs PM/yr)(0.70 wt fraction PM10) = 34 lbs/yr

RAILCAR DROP LOADING

PM :(1,095,000 T/yr)(0.00149 lb/ton)(1-0.70) = 489 lbs/yr
PMl0 :(489 lbs PM/yr)(0.70 wt fraction PM10) = 342 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 T/yr)(0.023 lb/ton)(1-0.9)(1-0.9) = 252 lbs/yr
PMl0: (252 lbs PM/yr)(0.70 wt fraction PM10) = 176 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 conservative factor because it is based on 4% moisture content. Also used in the estimation of

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emissions is the maximum annual coke production rate of 1,095,000 ton/yr.
Fraction of PM_{10} 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
PMl0: (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 precipation evaporation index for the Bay Area is 44.

therefore,

$$E = \frac{(0.11)(1/1.5)5}{(44/100)90}$$

E = **0.021 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
PMl0: (230 lbs PM/yr)(0.70 wt fraction PM10) = 161 lbs/yr

Industrial Paved / Unpaved Roads

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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) x10^-6	PM10 (TPY) x10^-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) x10^-6	PM10 (g/sec) x10^-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
Nickel	700	30.90	9.563

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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
$Chromium_{+6}$	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, and
S = [(P*Ds/5280) + (N*W*Rs/5280)]*Fs/1000; 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

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• 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:

$$\frac{(3.3\ \text{MMgal})(0.7\ \text{lb/Mmgal})(24\ \text{hr/day})(365\ \text{day/yr})}{2000\ \text{1b/ton}}$$

= 10.1 ton/yr POC

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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 Ib-m/hr	Exhaust Flow lb-m/hr	Exhaust Conc. PPM
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, SO_2 emissions from the Tailgas Thermal Oxidizer are limited to 50 ppm (excluding the S02 emissions that result from controlling the sulfur pit). Based on the total exhaust flow of 1395.8 lb-m/hr, 50 ppm corresponds to:

$$(50 \times 10^{-6})\ (1395.81\text{b-m/hr}) = \underline{0.06981\text{b-m/hr}}$$

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:

$$(0.0698 + 0.0551\ \text{lb-m/hr}) = \underline{0.12491\text{b-m/hr}}$$

Based upon this sulfur loading, total S02 emissions are:

(0.1249 Ib-m/hr) (8760 hr/yr) (64 lb S02/lb-m) (ton/20001b) = **35.0 ton/yr S02**

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

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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 owner/operator shall conduct a visible emission inspection and initiate corrective action to restore the water seal. The BAAQMD shall be notified within 24 hours if breakthrough of the water seal is detected. [basis: Regulation 6-301]

5. A continuous level monitor shall be installed on the water seal compartment of the CCU (S-1426) dump stack. 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 6-301]

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]

Condition # 16688
For S1476, LUBS F-24 Atmospheric Feed
S1477, LUBS F-25 Vacuum Feed
S1478, LUBS F-26 Fufural Raff
S1479, LUBS F-27 Furfural Extr
S1480, LUBS F-69 Asphalt Circulation
S1481, OPCEN F-30 DSU
S1483, LUBS F-32 Asphalt Circulation
S1484, LUBS F-34 LHT Charge
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

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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
S4171, LUBS F-13000 LHT2 Feed:

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.

Source Description	Enforceable Limit MM BTU/day	Used for Fees MM BTU/hr
S1476 LUBS F-24 Atmospheric Feed	2040	85
S1477 LUBS F-25 Vacuum Feed	1152	48
S1478 LUBS F-26 Furfural Raff	312	13
S1479 LUBS F-27 Furfural Extr	720	30
S1480 LUBS F-69 Asphalt Circulation	600	25
S1481 OPCEN F-30 DSU	600	25

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S1483	LUBS F-32 Asphalt Circulation	480	20
S1484	LUBS F-34 LHT Charge	600	25
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	600	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
S4171	LUBS F-13000 LHT2 Feed	504	21

[basis: Regulation 2-1-234]

Condition # 17532
For S1514, UTIL F-70 Boiler 4

1. Only gaseous fuel shall be burned in S-1514. (Basis: Reg. 1-520.1)

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2. Startup Condition Deleted.

3. The owner/operator shall operate S1514 to not exceed 0.05 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. [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.

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

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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, 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 6-301

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: 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

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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:

   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.

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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 S1476, LUBS F-24 Atmospheric Feed
S1477, LUBS F-25 Vacuum Feed
S1478, LUBS F-26 Furfural Raff
S1479, LUBS F-27 Furfural Extr
S1480, LUBS F-69 Asphalt Circulation
S1481, OPCEN F-30 DSU
S1483, LUBS F-32 Asphalt Circulation
S1484, LUBS F-34 LHT Charge
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-55 SGP Heat Medium

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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
S4171, LUBS F-13000 LHT2 Feed

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)
S1476	LUBS F-24 Atmospheric Feed	N
S1477	LUBS F-25 Vacuum Feed	N
S1478	LUBS F-26 Furfural Raff	N
S1479	LUBS F-27 Furfural Extr	N
S1480	LUBS F-69 Asphalt Circulation	N
S1481	OPCEN F-30 DSU	N
S1483	LUBS F-32 Asphalt Circulation	N
S1484	LUBS F-34 LHT Charge	N
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

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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	N
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
S4171	LUBS F-13000 LHT2 Feed	N

*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)

A. The NOx Box for units with a maximum firing rate of 25 MMBH or more shall be established using the procedures in Part 4.

B. The NOx Box for units with a maximum firing rate less than 25MMBH 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

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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) 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)

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)
S1476	0.18	3.9, 35.7	12.7,35.7	3.9, 72.2	n/a	12.7, 72.2

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S1477	0.16	4.1, 10.6	14.2, 10.6	4.1, 26.6	n/a	14.2, 26.6
S1478	0.16	3.5, 2.3	12.4, 2.3	3.5, 11.5	n/a	12.4, 11.5
S1479	0.16	3.7, 10.3	12.0, 10.3	3.7, 19.3	n/a	12.0, 19.3
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
S1484	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
S1760	0.5	1.0, 17	7.5, 17	1.0, 100	n/a	7.5, 100
S4021	0.029	0.7, 11.9	5.6, 11.9	0.7, 33.7	n/a	5.6, 33.7
S4171	0.029	n/a	n/a	n/a	n/a	n/a

The limits listed above are based on a calendar day averaging period for both firing rate and O2%.

B. Part 5A. does not apply to low firing rate conditions (i.e., firing rate less than or equal to 20% of the unit's rated capacity), during startup or shutdown periods or periods of curtailed operation (ex. during heater idling, refractory dryout, etc.) lasting 5 days or less. During these conditions the means for determining compliance with the refinery wide limit shall be accomplished using the method described in 9-10-301.2 (i.e. units out of service & 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 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

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."

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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 45 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. 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 source tests shall not exceed 8 months and not be less than 5 months apart. The source test results shall be submitted to the district source test manager within 45 days of the test. (Reg.9-10-502)

3. If a source has been shutdown longer than the period allowed between source testing

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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.

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)

*11. Until 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, a single NOx and O2 CEM may be used to measure the combined concentrations from all sources that exhaust through the 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

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than would be require 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
S4171	LUBS F-13000 LHT2 Feed	0.029

Phase II (effective July 1, 2002)		lb/MM BTU
S1476	LUBS F-24 Atmospheric Feed	0.180
S1477	LUBS F-25 Vacuum Feed	0.160
S1478	LUBS F-26 Furfural Raff	0.160
S1479	LUBS F-27 Furfural Extr	0.160
S1480	LUBS F-69 Asphalt Circulation	0.20
S1481	OPCEN F-30 DSU	0.160
S1483	LUBS F-32 Asphalt Circulation	0.160
S1484	LUBS F-34 LHT Charge	0.160
S1506	CP F-61 CGP Feed	0.20
S1508	CP F-63 CFH Feed	0.20
S1760	OPCEN F-102 FXU Steam Superheater	0.18

*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 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

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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 S1476, S1477, S1478, S1479, S1508, S1760 and S4021, as indicated in Condition 19.

*19. Until January 1, 2005, except during startup and shutdown, the allowable operating ranges for S1476, S1477, S1478, S1479, S1508, S1760 and S4021 are as follows:

Source (F-#)	O2-min	O2-max	Firing-min	Firing-max
1476 (F-24)	3.9	12.7	35.7	72.2
1477 (F-25)	4.1	14.2	10.6	26.6
1478 (F-26)	3.5	12.4	2.3	11.5
1479 (F-27)	3.7	12.0	10.3	25.7
1508 (F-63)	2.1	8.5	32.2	94.0
1760 (F-102)	1.8	4.4	54.9	90.5
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.

*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 NOx, 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

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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, Baghousefor 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:

1. 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 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 ≤ 130,971 bbl/day x 365
4	Tank 4		S3+S4+S967+S1076 ≤ 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 ≤ 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+S1045+S1160 ≤ 42,000 bbl/day x 365
23	Tank 23 Asphalt Storage		S21+S22+S23+S24+S26+S497+S560+S561+S572+S573+S598+S815+S985+S1043+S1044+S1045+S1160 ≤ 42,000 bbl/day x 365
24	Tank 24 Asphalt Storage		S21+S22+S23+S24+S26+S497+S560+S561+S572+S573+S598+S815+S985+S1043+S1044+S10

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S-#	Description	Daily Limit	Annual Limit
			45+1160 ≤ 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 ≤ 42,000 bbl/day x 365
129	Tank 129		S129+S1031+S1046+S1051+S1134+S1159+S1753+S1754+S1755+S1756 < 508,114 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 ≤ 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+S557+S558+S559 +S567 + S568< 10,650 bbl/day x 365

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S-#	Description	Daily Limit	Annual Limit
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+S10 45+S1160 ≤ 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+S10 45+S1160 ≤ 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+S985+S1043+S1044+S10 45+S1160 ≤ 42,000 bbl/day x 365
573	Tank 573 Asphalt Storage		S21+S22+S23+S24+S26+S497+ S560+S561+S572+S573+S598+

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S-#	Description	Daily Limit	Annual Limit
			S815+S985+S1043+S1044+S1045+S1160 ≤ 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 ≤ 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 ≤ 42,000 bbl/day x 365
860	Tank 860		S860+S861+S1004 < 546 bbl/day x 365
861	Tank 861		S860+S861+S1004 < 546 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 ≤ 42,000 bbl/day x 365
1004	Tank 1004		S860+S861+S1004 < 546 bbl/day x 365
1006	Tank 1006		S548+S549+S1006+S1235+S1236 < 5,412 bbl/day x 365
1031	Tank 1031		S129+ S1031+S1046+S1051+S1134+S1159+S1753+S1754+S1755+S17

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S-#	Description	Daily Limit	Annual Limit
			56 < 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 ≤ 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 ≤ 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 ≤ 42,000 bbl/day x 365
1046	Tank 1046		S129+ S1031+S1046+S1051+S1134+S1159+S1753+S1754+S1755+S1756 < 508,114 bbl/day x 365
1051	Tank 1051		S129+ 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 x365
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		S129+ S1031+S1046+S1051+S1134+S1159+S1753+S1754+S1755+S1756 < 508,114 bbl/day x 365
1140	Tank 1140		27,840 bbl/day x365

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S-#	Description	Daily Limit	Annual Limit
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		S129+ 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 ≤ 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
1411	LUBS Atmospheric Distillation LDU	18,801 bbl/day	6,643,000 bbl/yr
1415	LUBS Furfural Plant (SEP3)	6,700 bbl/day	1,752,000 bbl/yr
1416	LUBS Lube Hydrotreater 1 (LHT1)	6,500 bbl/day	1,934,500 bbl/yr
1417	OPCEN Distillate Saturation Unit (DSU)	26,000 bbl/day	365 x Daily Limit
1420	DH Crude Unit (CU)	160,000 bbl/day	52,925,000 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

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S-#	Description	Daily Limit	Annual Limit
1431	CP Sulfur Plant 1 (SRU1)	S1431+S1432 < 331 Equivalent Long Tons/Day	365 x Daily 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	5568 MMBTU/day	365 x Daily Limit
1509	UTIL CO Boiler 2	5568 MMBTU/day	365 x Daily Limit
1512	UTIL CO Boiler 3	5568 MMBTU/day	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		S129+ S1031+S1046+S1051+S1134+S1159+S1753+S1754+S1755+S1756 < 508,114 bbl/day x 365
1754	Tank 1333 Gasoline		S129+ S1031+S1046+S1051+S1134+S1159+S1753+S1754+S1755+S1756 < 508,114 bbl/day x 365
1755	Tank 1334 Gasoline		S129+ S1031+S1046+S1051+S1134+S1159+S1753+S1754+S1755+S1756 < 508,114 bbl/day x 365
1756	Tank 1335 Gasoline		S129+ 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)	3,200 bbl/day dimate produced	365 x Daily Limit

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S-#	Description	Daily Limit	Annual Limit
1765	OPCEN Sulfur Plant 3 (SRU3)	73 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
4170	LUBS Lube Hydrotreater 2 (LHT2)	7,200 bbl/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 S1476, S1477, S1486, S1487, S1488, S1491, S1492, S1493, S1495, S1496, 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

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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 S1476, S1477, 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 ot 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 (S1476, S1477, S1478, S1479, S1480, S1481, S1483, S1484, 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, S4171, 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 anyvisible 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 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]

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8. Effective April 1, 2004, for the sources subject to Regulation 6-330 (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]

10. Effective April 1, 2004, the owner/operator will demonstrate compliance with Regulation 9-1-313.2 by performing the following:
    c) Perform monitoring of the facility fuel gas for H2S using continuous online H2S analyzers. Refinery fuel gas will be monitored at both refinery fuel gas distribution systems (Clean Fuels and Main Refinery systems).
    d) Perform monitoring of the Sour Water Stripper Bottoms Water for NH3 concentration in facility's Sour Water Strippers twice per week.

    The owner/operator shall summarize the results of these analyses in a District approved log. The owner/operator shall include in the log an annual report summarizing the facility's compliance with the requirements of Regulation 9-1-313.2. The owner/operator shall retain each analysis, annual report, and District approved log on site and available for inspection upon District request for a minimum of 5 years from the date of record. (Basis: Regulation 9-1-313.2)

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(Basis: Regulation 9-1-313.2)

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 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. 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 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 those sources listed in part 12.

    a. If the owner/operator can determine that there are no visible emissions using video monitoring, then no further monitoring is necessary for that particular

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inspection.

b. If the owner/operator cannot determine that there are no visible emissions using video monitoring, the owner/operator shall conduct a visual inspection outdoors using either:
   i. EPA Reference Method 9; or
   ii. Survey the flare by selecting a position that enables a clear view of the flare at least 15 feet, but not more than 0.25 miles, from the emission source, where the sun is not directly in the observer's eyes.

c. If a visible emission is observed, the owner/operator shall continue to monitor the flare for at least 3 minutes, or until there are no visible emissions, whichever is shorter.

d. The owner/operator shall repeat the inspection procedure for the duration of the flaring event, or until a violation is documented in accordance with Part 17. After a violation is documented, no further inspections are required until the beginning of a new calendar day.
(basis: Regulation 6-301, 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 6-301 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 6-301 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)

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19. Effective January 1, 2005, the owner/operator shall operate S4201, A101, A102, and A103 Flares 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 result of relief valve leakage or other emergency malfunctions. (basis: 60.104(a)(1); Regulation 2-1-403)

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.

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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)

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)

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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 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-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 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

VI. Permit Conditions

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.

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 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 # 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 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)

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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 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:Regulation2-6-409.2)

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.

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – A
Applicable Limits and Compliance Monitoring Requirements

S3 - TANK 3, S4 - TANK 4, S13 - TANK 13, S14 - TANK 14, S20 - TANK 20, S21 - TANK 21 ASPHALT STORAGE, S22 - TANK 22 ASPHALT STORAGE, S23 - TANK 23 ASPHALT STORAGE, S24 - TANK 24 ASPHALT STORAGE, S26 - TANK 26 ASPHALT STORAGE, S129 - TANK 129, S257 - TANK 257, S483 - TANK 483, S484 - TANK 484, S497 - TANK 497 ASPHALT STORAGE, S530 - TANK 530, S532 - TANK 532, S541 - TANK 541, S545 - TANK 545, S548 - TANK 548, S552 - TANK 552 ASPHALT STORAGE, S553 - TANK 553 ASPHALT STORAGE, S554 - TANK 554 ASPHALT STORAGE, S555 - TANK 555 ASPHALT STORAGE, S556 - TANK 556 ASPHALT STORAGE, S557 - TANK 557 ASPHALT STORAGE, S558 - TANK 558 ASPHALT STORAGE, S559 - TANK 559 ASPHALT STORAGE, S560 - TANK 560 ASPHALT STORAGE, S561 - TANK 561 ASPHALT STORAGE, S567 - TANK 567 ASPHALT STORAGE, S568 - TANK 568, S572 - TANK 572 ASPHALT STORAGE, S573 - TANK 573 ASPHALT STORAGE, S598 - TANK 598 ASPHALT STORAGE, S611 - TANK 611, S612 - TANK 612, S613 - TANK 613, S815 - TANK 815 ASPHALT STORAGE, S860 - TANK 860, S861 - TANK 861, S967 - TANK 967, S985 - TANK 985 ASPHALT STORAGE, S1004 - TANK 1004, S1006 - TANK 1006, S1031 - TANK 1031, S1043 - TANK 1043 ASPHALT STORAGE, S1044 - TANK 1044 ASPHALT STORAGE, S1045 - TANK 1045 ASPHALT STORAGE, S1046 - TANK 1046, S1051 - TANK 1051, S1076 - TANK 1076, S1129 - TANK 1129, S1130 - TANK 1130, S1131 - TANK 1131, S1134 - TANK 1134, S1140 - TANK 1140, S1146 - TANK 1146, S1147 - TANK 1147, S1159 - TANK 1159, S1160 - TANK 1160 ASPHALT STORAGE, S1161 - TANK 1161, S1235 - TANK 739 CHEM STORAGE, S1236 - TANK 740 CHEM STORAGE, S1409 - LUBS SULFONATION PLANT (SULF), S1411 - LUBS ATMOSPHERIC DISTILLATION LDU, S1415 - LUBS FURFURAL PLANT (SEP3), S1416 - LUBS LUBE HYDROTREATER 1 (LHT1),, S1420 - DH CRUDE UNIT (CU), S1423 - DH GAS OIL STRAIGHTRUN HYDROTREATER (GOHT), S1424 - DH NAPHTHA STRAIGHTRUN HYDROTREATER (NHT), S1428 - CP CATALYTIC FEED HYDROTREATER (CFH), S1431 - CP SULFUR PLANT 1 (SRU1), S1432 - CP SULFUR PLANT 2 (SRU2), S1445 - DH HYDROGEN PLANT 1 (HP1), S1509 - UTIL CO BOILER 2, S1512 - UTIL CO BOILER 3, S1751 - TANK 1330, S1752 - TANK 1331, S1753 - TANK 1332 GASOLINE, S1754 - TANK 1333 GASOLINE, S1755 - TANK 1334 GASOLINE, S1756 - TANK 1335 GASOLINE, S1759 - OPCEN FLEXICOKER (FXU), S1765 - OPCEN SULFUR PLANT 3 (SRU3), S1774 - OPCEN HYDROGEN PLANT 2 (HP2), S1900 - MAINT_MACHINE SHOP PARTS CLEANER, S1903 - MAINT PAINT SHOP SOLVENT TUB , S3000 - PORTABLE VACUUM DISTILLATION UNIT (CCR TECHNOLOGIES INC.), S4001 - DC DELAYED COKING UNIT (DCU), S4020 - DC DISTILLATE HYDROTREATER (DHT), S4160 - DC HYDROGEN PLANT –3 (HP3), S4170 - LUBS LUBE HYDROTREATER 2 (LHT2), S4180 - OPCEN SULFUR PLANT 4 (SRU4), 4190 - UTIL BOILER 6 GAS TURBINE 1, 4191 - UTIL BOILER 6 SUPPLEMENTAL STEAM GENERATOR 1, 4192 - UTIL BOILER 6 GAS TURBINE 2, 4193 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
Through-put	BAAQMD Condition #18618, Part 1	N		Annual throughput limits	BAAQMD Condition #18618, Part 2	P/A	Records

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
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 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

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, S534 – TANK 534, S530 – TANK 530, 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	BAAQMD 8-5-306	Y		Control device standards; includes 95% efficiency requirement	BAAQMD 8-5-502 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 balanceing in which the resulting organic liquid has a TVP is less than 0.5 psia	BAAQMD 8-5-501	P/E	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
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		Control device standards; includes 95% efficiency requirement	BAAQMD 8-5-502 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 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		Tank cleaning control device standards; includes 90% efficiency requirement	BAAQMD 8-5-502 and 8-5-603.2	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

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 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
Through-put	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

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII - G
Applicable Limits and Compliance Monitoring Requirements
S21 –TANK 21 ASPHALT STORAGE, S22 –TANK 22 ASPHALT STORAGE,
S23 –TANK 23 ASPHALT STORAGE, S24 –TANK 24 ASPHALT STORAGE,
S26 –TANK 26 ASPHALT STORAGE,
S497 –TANK 497 ASPHALT STORAGE,
S552 –TANK 552 ASPHALT STORAGE, S553 –TANK 553 ASPHALT STORAGE,
S554 –TANK 554 ASPHALT STORAGE, S555 –TANK 555 ASPHALT STORAGE,
S556 –TANK 556 ASPHALT STORAGE, S557 –TANK 557 ASPHALT STORAGE,
S558 –TANK 558 ASPHALT STORAGE, S559 –TANK 559 ASPHALT STORAGE,
S560 –TANK 560 ASPHALT STORAGE, S561 –TANK 561 ASPHALT STORAGE, S567 –TANK 567 ASPHALT STORAGE,
S571 –TANK 571 ASPHALT STORAGE, S572 –TANK 572 ASPHALT STORAGE,
S573 –TANK 573 ASPHALT STORAGE, S598 –TANK 598 ASPHALT STORAGE,
S815 –TANK 815 ASPHALT STORAGE, S867 –TANK 867 ASPHALT STORAGE,
S868 –TANK 868 ASPHALT STORAGE, S876 –TANK 876 ASPHALT STORAGE,
S961 –TANK 961 ASPHALT STORAGE, S985 –TANK 985 ASPHALT STORAGE,
S1017 –TANK 1017 ASPHALT STORAGE, S1018 –TANK 1018 ASPHALT STORAGE,
S1041 –TANK 1041 ASPHALT STORAGE, S1043 –TANK 1043 ASPHALT STORAGE,
S1044 –TANK 1044 ASPHALT STORAGE, S1045 –TANK 1045 ASPHALT STORAGE,
S1048 –TANK 1048 ASPHALT STORAGE, S1075 - TANK 1075 ASPHALT STORAGE, 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,
S1539 – LR-25 LOADING RACK ACID SLUDGE AND SULFONATION T/T

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Opacity	BAAQMD 6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour	None	N	None

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – H
Applicable Limits and Compliance Monitoring Requirements
EXTERNAL FLOATING-ROOF TANKS
S129 – TANK 129, 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 8-5-401.2 and 405	P/Semi-A	Inspections
VOC	BAAQMD 8-5-322	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		Tank cleaning control device standards; includes 90% efficiency requirement	BAAQMD 8-5-502 and 8-5-603.2	P/A	Annual source test using MOP, Vol. IV, ST-7
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 – 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 8-5-401.2 and 405	P/Semi-A	Inspections
VOC	BAAQMD 8-5-322	Y			BAAQMD 8-5-401.2 and 405	P/Semi-A	Inspections
VOC	BAAQMD 8-5-328.1.1	Y		Tank cleaning control by liquid balanceing in which the resulting organic liquid has a TVP is less than 0.5 psia	BAAQMD 8-5-501.1	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		Tank cleaning control device standards; includes 90% efficiency requirement	BAAQMD 8-5-502 and 8-5-603.2	P/A	Annual source test using MOP, Vol. IV, ST-7

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
VOC	BAAQMD 8-5-321	Y			BAAQMD 8-5-401.2 and 405	P/Semi-A	Inspections
VOC	BAAQMD 8-5-322	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 8-5-328.1	Y		Tank cleaning control by liquid balanceing in which the resulting organic liquid has a TVP is less than 0.5 psia	BAAQMD 8-5-501.1	P/E	Records
VOC	BAAQMD 8-5-328.1	Y		Tank cleaning control device standards; includes 90% efficiency requirement	BAAQMD 8-5-502 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

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.							

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
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

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
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		Tank cleaning control device standards; includes 90% efficiency requirement	BAAQMD 8-5-502 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), 61.357(2), 61.357(6), 61.357(7), and 61.357(d)(8) NESHAP Subpart CC 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
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 63.349(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 – 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

Table VII – P
Applicable Limits and Compliance Monitoring Requirements
INTERNAL FLOATING-ROOF TANKS, S858 – TANK 858, S952 – TANK 952, S1023 – TANK 1023, S1050 – TANK 1050, S2445 – TANK 12445,
S2446 – TANK 12446, 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
VOC	BAAQMD 8-5-328.1.1	Y		Tank cleaning control by liquid balanceing in which the resulting organic liquid has a TVP is less than 0.5 psia	BAAQMD 8-5-501.1	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		Tank cleaning control device standards; includes 90% efficiency requirement	BAAQMD 8-5-502 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

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – Q
Applicable Limits and Compliance Monitoring Requirements
INTERNAL FLOATING-ROOF TANKS
S858 – TANK 858

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 #4977, Part 2	Y		Throughput shall not exceed 85,848 thousand gallons in any 12-month period	BAAQMD Condition #4977, Part 3	P/M	Records

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 8-5-401.2 and 405	P/Semi-A	Inspections
VOC	BAAQMD 8-5-322	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	N		Tank cleaning control device standards; includes 90% efficiency requirement	BAAQMD 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 – 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	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

Table VII – S
Applicable Limits and Compliance Monitoring Requirements
INTERNAL FLOATING-ROOF TANKS
S1023 – TANK 1023, S1050 – TANK 1050

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 #7133, Part 2	Y		Combined throughput shall not exceed 128,772 thousand gallons in any 12-month period	BAAQMD Condition #7133, 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 8-5-401.2 and 405	P/Semi-A	Inspections
VOC	BAAQMD 8-5-322	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		Tank cleaning control device standards; includes 90% efficiency requirement	BAAQMD 8-5-502 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(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 – 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

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

VII. Applicable Limits and Compliance Monitoring Requirements

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 – 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
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 and 405	P/Semi-A	Inspections
VOC	BAAQMD 8-5-322	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		Tank cleaning control device standards; includes 90% efficiency requirement	BAAQMD 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 – 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	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
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 63.654(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 – 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

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 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		Tank cleaning control device standards; includes 90% efficiency requirement	BAAQMD 8-5-502 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

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	Y		Control device standards; includes 95% efficiency requirement	BAAQMD 8-5-501 and 8-5-603.1	P/E	Records of liquids stored. Emissions of organic compounds measured using MOP, Vol. IV, ST-34

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 8-5-328.1	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 8-5-328.2	Y		Tank cleaning control device standards; includes 90% efficiency requirement	BAAQMD 8-5-404, 8-5-502 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(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
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
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)

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
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 6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour	None	N	None
FP	BAAQMD 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.							
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 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 – 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

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 8-5-328.1	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		Tank cleaning control device standards; includes 90% efficiency requirement	BAAQMD 8-5-502 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 63.654(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

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – AE
Applicable Limits and Compliance Monitoring Requirements
S1409 – LUBS SULFONATION PLANT (SULF), S1411 – LUBS ATMOSPHERIC DISTILLATION LDU, S1412 – LUBS VACUUM DISTILLATION LDU, S1415 – LUBS FURFURAL PLANT (SEP3), S1416 – LUBS -LUBE HYDROTREATER 1 (LHT1), 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), S4170 – LUBS LUBE HYDROTREATER 2 (LHT2)

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 (non-SIP)	P/E	Records

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – AE
Applicable Limits and Compliance Monitoring Requirements
S1409 – LUBS SULFONATION PLANT (SULF), S1411 – LUBS ATMOSPHERIC DISTILLATION LDU, S1412 – LUBS VACUUM DISTILLATION LDU, S1415 – LUBS FURFURAL PLANT (SEP3), S1416 – LUBS -LUBE HYDROTREATER 1 (LHT1), 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), S4170 – LUBS LUBE HYDROTREATER 2 (LHT2)

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 8-18-301	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, 8-18-402, 8-18-501, 8-18-502 and 8-18-602	P/Q or A	Visual inspections, portable HC detector (EPA Method 21) and records of inspections and repairs
VOC	BAAQMD 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, 8-18-402, 8-18-404, 8-18-501, 8-18-502 and 8-18-602	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
S1409 – LUBS SULFONATION PLANT (SULF), S1411 – LUBS ATMOSPHERIC DISTILLATION LDU, S1412 – LUBS VACUUM DISTILLATION LDU, S1415 – LUBS FURFURAL PLANT (SEP3), S1416 – LUBS -LUBE HYDROTREATER 1 (LHT1), 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), S4170 – LUBS LUBE HYDROTREATER 2 (LHT2)

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	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, 8-18-402, 8-18-403, 8-18-501, 8-18-502 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
VOC	BAAQMD 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, 8-18-402, 8-18-501, 8-18-502 and 8-18-602	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
S1409 – LUBS SULFONATION PLANT (SULF), S1411 – LUBS ATMOSPHERIC DISTILLATION LDU, S1412 – LUBS VACUUM DISTILLATION LDU, S1415 – LUBS FURFURAL PLANT (SEP3), S1416 – LUBS -LUBE HYDROTREATER 1 (LHT1), 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), S4170 – LUBS LUBE HYDROTREATER 2 (LHT2)

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 8-18-305	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, 8-18-402, 8-18-501, 8-18-502 and 8-18-602	P/Q or A	Visual inspections, portable HC detector (EPA Method 21) and records of inspections and repairs
VOC	BAAQMD 8-18-306	Y		Limitations on non-repairable equipment	BAAQMD 8-18-501, 8-18-502 and 8-18-602	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
S1409 – LUBS SULFONATION PLANT (SULF), S1411 – LUBS ATMOSPHERIC DISTILLATION LDU, S1412 – LUBS VACUUM DISTILLATION LDU, S1415 – LUBS FURFURAL PLANT (SEP3), S1416 – LUBS -LUBE HYDROTREATER 1 (LHT1), 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), S4170 – LUBS LUBE HYDROTREATER 2 (LHT2)

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 8-18-307 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, 8-18-402, 8-18-501, 8-18-502, and 8-18-602	P/Q or A	Visual inspections, portable HC detector (EPA Method 21) and records of inspections and repairs
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	BAAQMD 8-28-403, 8-28-404, 8-28-405 and 8-28-602	C	Records and testing with approved methods

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – AE
Applicable Limits and Compliance Monitoring Requirements
S1409 – LUBS SULFONATION PLANT (SULF), S1411 – LUBS ATMOSPHERIC DISTILLATION LDU,
S1412 – LUBS VACUUM DISTILLATION LDU, S1415 – LUBS FURFURAL PLANT (SEP3),
S1416 – LUBS -LUBE HYDROTREATER 1 (LHT1), 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),
S4170 – LUBS LUBE HYDROTREATER 2 (LHT2)

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 8-28-304	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	P/E	Reporting and prescribed measures.

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
NOx, SO2, 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
See Table AE for additional requirements.							
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 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 6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour	NSPS Subpart J 60.105(a)(1), 60.105(e)(1) BAAQMD 6-501, 6-502 and 1-522	C	Opacity monitor and Records
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 6-302	Y		20% opacity for no more than 3 minutes/hour	NSPS Subpart J 60.105(a)(1), 60.105(e)(1) BAAQMD 6-501, 6-502 and 1-522	C	Opacity monitor and Records
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)(I) 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 6-310	Y		0.15 grain per dscf	BAAQMD Condition # 18618 Part 9 & Condition 12911 Part 3	P/A	Source Test
FP	BAAQMD 6-311	Y		$4.10\ P^{0.67}$ 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
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

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	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 downsteam boilers	Subpart UUU 63.1564(b)(2) 63.1564(b)(4)(i) 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
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
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 (non-SIP)	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 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, 8-18-402, 8-18-501, 8-18-502 and 8-18-602	P/A	Visual inspections, portable HC detector (EPA Method 21) and records of inspections and repairs
VOC	BAAQMD 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, 8-18-402, 8-18-404, 8-18-501, 8-18-502 and 8-18-602	P/Q or A	Visual inspections, portable HC detector (EPA Method 21) and records of inspections and repairs
VOC	BAAQMD 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, 8-18-402, 8-18-403, 8-18-501, 8-18-502 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
VOC	BAAQMD 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, 8-18-402, 8-18-501, 8-18-502 and 8-18-602	P/Q	Visual inspections, portable HC detector (EPA Method 21) and records of inspections and repairs
VOC	BAAQMD 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, 8-18-402, 8-18-501, 8-18-502 and 8-18-602	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 8-18-306	Y		Limitations on non-repairable equipment	BAAQMD 8-18-501, 8-18-502 and 8-18-602	P/5 years or next turnaround	Records And Sampling
VOC	BAAQMD 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, 8-18-401, 8-18-402, 8-18-501, 8-18-502 and 8-18-602	P/Q or A	Visual inspections, portable HC detector (EPA Method 21) and records of inspections and repairs
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	BAAQMD 8-28-403, 8-28-404, 8-28-405, and 8-28-602	C	Records and testing with approved methods
VOC	BAAQMD 8-28-304	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	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

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
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) 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

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
Opacity	BAAQMD 6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour	None	N	None
FP	BAAQMD 6-310	Y		0.15 grain per dscf	None	N	None
FP	BAAQMD 6-311	Y		$4.10\ P^{0.67}$ lb/hr particulate, where P is process weight rate in ton/hr	None	N	None
SO_3/ H_2SO_4	BAAQMD 6-330	Y		0.08 grain/dscf exhaust concentration of SO_3 and H_2SO_4, expressed as 100% H_2SO_4	BAAQMD Condition # 18618, Part 8	P/A	Source Test
H_2S/NH_3	BAAQMD 9-1-313.2	N		Operation of a sulfur removal and recovery system that removes and recovers: 95% of H_2S from refinery fuel gas, 95% of H_2S and ammonia from process water streams	BAAQMD Condition # 18618 Part 10	P/A	Analysis and Recordkeeping

Table VII – AHa
Applicable Limits and Compliance Monitoring Requirements
S1431 –CP SULFUR PLANT 1 (SRU1), S1432 – CP SULFUR PLANT 2 (SRU2)

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.							

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)

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	MACT Subpart UUU 63.1568(a)(1)(i)	Y	4/11/05	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

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.							

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
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(c)(2) 63.1570(c) 63.1572(a)(1) 63.1572(a)(3) 63.1572(a)(4) 63.1572(d) 63.1574(a) 63.1574(d) 63.1575(a) 63.1575(b) 63.1575(c) 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

Table VII – AI
Applicable Limits and Compliance Monitoring Requirements
S1765 – OPCEN SULFUR PLANT T3 (SRU3)

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 – AH for additional requirements.							
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 – AJ
Applicable Limits and Compliance Monitoring Requirements
S1457 – COOLING WATER TOWER (CWT-32),
S-1778 – 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 6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour	None	N	None
FP	BAAQMD 6-310	Y		0.15 grain per dscf	None	N	None
FP	BAAQMD 6-311	Y		$4.10\ P^{0.67}$ lb/hr particulate, where P is process weight rate in ton/hr	None	N	None
VOC	BAAQMD 8-2-301	Y		< 300 ppmv C1	None	N	None

Table VII – AK
Applicable Limits and Compliance Monitoring Requirements
S1465 – LOG LIGHT OIL PRODUCTS GROSS OIL SEPARATOR,
S1779 OPCEN CPI OIL/WATER SEPARATOR,
S2009 LUBSWASTEWATER SEPARATOR DUBBS BOX

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	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 6, 9, 12	P/S	Visual inspections, portable HC detector (EPA Method 21) and records of inspections and repairs

VII. Applicable Limits and Compliance Monitoring Requirements

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 8-8-302.4	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
Through-put	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 6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour	BAAQMD Condition # 18618 Part 15	P/E	Visible Emissions Check
FP	BAAQMD 6-310	Y		0.15 grain per dscf at 6% O_2	BAAQMD Condition # 18618 Part 15	P/E	Visible Emissions Check
Flare Design	40 CFR 60.18(c)(3)	Y		Heat content specification as per (c)(3)(ii) and maximum tip velocity specification per ©(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
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 – 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
SO_2	NSPS Subpart J 60.104(a)(1)	Y		Fuel gas H_2S limited to 0.10 gr/dscf (163 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)	P/E	Monitoring and records
VOC	BAAQMD Condition #12271, Part 74	Y		Emissions from loading operation shall be controlled with an overall capture and destruction efficiency at least 98.5% by weight	None	N	None

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
Opacity	BAAQMD 6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour	BAAQMD Condition # 18618 Part 15	P/E	Visible Emissions Check
FP	BAAQMD 6-310	Y		0.15 grain per dscf at 6% O_2	BAAQMD Condition # 18618 Part 15	P/E	Visible Emissions Check

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	FEY/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Opacity	BAAQMD 6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour	BAAQMD Condition # 18618 Part 15	P/E	Visible Emissions Check
FP	BAAQMD 6-310	Y		0.15 grain per dscf at 6% O_2	BAAQMD Condition # 18618 Part 15	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(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

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	FEY/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Presence of a Flame	40 CFR	Y		The flare shall be operated with a flame present at all times		P/C	Flame Detector

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – AP
Applicable Limits and Compliance Monitoring Requirements
S1476 – LUBS F-24 ATMOSPHERIC FEED, S1477 – LUBS F-25 VACUUM 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 6-301	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 Inspection
Opacity	BAAQMD 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 6-310.3	Y		0.15 grain per dscf at 6% O_2	BAAQMD Condition # 18618 Part 3 and Part 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	BAAQMD Condition # 18618 Part 4	P/10^6 gallon of fuel combusted	Sampling and Analysis
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 and 1-523; Condition # 18265 Parts 11 through 21	C	Monitoring, records, and reporting
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, 9-10-504.2, 9-10-505 and 1-523; Condition # 18265 Parts 1 through 11	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, 9-10-504.2, 9-10-505 and 1-523; Condition # 18265 Parts 1-7, 9-15, and 7-21	C	Monitoring, records, and reporting

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – AP
Applicable Limits and Compliance Monitoring Requirements
S1476 – LUBS F-24 ATMOSPHERIC FEED, S1477 – LUBS F-25 VACUUM 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		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 and 1-523; Condition # 18265 Parts 1, 2, 8, 10, 11-13, 15, 17, 20-21	C	Monitoring, records, and reporting
NOx	BAAQMD Condition # 18265 Part 5	Y		NOx emission rate shall not exceed 0.18 lb/MMBTU/hr for S1476 and 0.16 for S1477; unless monitored by a CEM	BAAQMD 9-10-502; Condition # 18265 Part 19	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, 9-10-504.2, 9-10-505 and 1-523	C	Monitoring, records, and reporting
SO_2	NSPS Subpart J 60.104(a)(1)	Y		Fuel gas H_2S limited to 0.10 gr/dscf (163 ppm)	NSPS Subpart J 60.105(a)(4) and 60.105(e)(3)	C	H_2S 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

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – AP
Applicable Limits and Compliance Monitoring Requirements
S1476 – LUBS F-24 ATMOSPHERIC FEED, S1477 – LUBS F-25 VACUUM 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.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
Through-put	BAAQMD Condition #16688	N		Maximum firing rate (higher heating value)	BAAQMD Condition #18618, Part 2	P/D and A	Records

Table VII – AQ
Applicable Limits and Compliance Monitoring Requirements
S1478 – LUBS F-26 FURFURAL RAFF, S1479 – LUBS F-27 FURFURAL EXTR,
S1480 – LUBS F-69 ASPHALT CIRCULATION, S1481 – OPCEN F-30 DSU,
S1483 – LUBS F-32 ASPHALT CIRCULATION,
S1484 – LUBS F-34 LHT CHARGE, S1506 – CP F-61 CGP FEED,
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 6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour	None	N	None
Opacity	BAAQMD 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 6-310.3	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, 9-10-504.2, 9-10-505 and 1-523; Condition # 18265 Parts 1-7, 9-15, and 7-21	C	Monitoring, records, and reporting

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – AQ
Applicable Limits and Compliance Monitoring Requirements
S1478 – LUBS F-26 FURFURAL RAFF, S1479 – LUBS F-27 FURFURAL EXTR,
S1480 – LUBS F-69 ASPHALT CIRCULATION, S1481 – OPCEN F-30 DSU,
S1483 – LUBS F-32 ASPHALT CIRCULATION,
S1484 – LUBS F-34 LHT CHARGE, S1506 – CP F-61 CGP FEED,
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	BAAQMD 9-10-303	Y		NOx emission rate shall not exceed 0.2 lb/MMBtu, operating-day average (facility-wide)	BAAQMD 9-10-502, 9-10-504.2, 9-10-505 and 1-523; Condition # 18265 Parts 1, 2, 8, 10, 11-13, 15, 17, 20-21	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, 9-10-504.2, 9-10-505 and 1-523	C	Monitoring, records, and reporting
SO_2	NSPS Subpart J 60.104(a)(1)	Y		Fuel gas H_2S limited to 0.10 gr/dscf (163 ppm) for refinery fuel gas and/or flexigas	NSPS Subpart J 60.105(a)(4) and 60.105(e)(3)	C	H_2S 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
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 – AQa
Applicable Limits and Compliance Monitoring Requirements
S1480 – LUBS F-69 ASPHALT CIRCULATION, S1481 – OPCEN F-30 DSU,
S1484 – LUBS F-34 LHT CHARGE, 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 H2S limited to 0.1 gr/dscf (163 ppm) for vent gases from Sulfonation Unit SO2 Adsorber and Lubricants Hydrotreater # 1 Vacuum Flash Dryer	40 CFR 60.13(i)	P	Monitoring, records, and reporting for vent gases from Sulfonation Unit SO2 Adsorber and Lubricants Hydrotreater # 1 Vacuum Flash Dryer

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 6-301	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 6-304	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 Inspection
FP	BAAQMD 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	BAAQMD Condition # 18618 Part 4	P/10^6 gallon of fuel combusted	Sampling and Analysis

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, 9-10-504.2, 9-10-505, 1-522 and 1-523; Condition # 18265 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, 9-10-504.2, 9-10-505, 1-522 and 1-523; Condition # 18265 Parts 1, 2, 8, 10, 11-13, 15, 17, 20-21	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, 9-10-504.2, 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_2S limited to 0.10 gr/dscf (163 ppm)	NSPS Subpart J 60.105(a)(4) and 60.105(e)(3)	C	H_2S 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

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, 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 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
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 – CP F-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 – AQ for additional requirements.							
SO_2	BAAQMD Condition #7618, Part E.2	Y		Flexigas H_2S shall not exceed 35 ppmv except when the refinery is processing more than 50% SJV crudes, flexigas H_2S 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 6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour	None	N	None
Opacity	BAAQMD 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 6-310.3	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, 9-10-504.2, 9-10-505, 1-522 and 1-523; Condition # 18265 Parts 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 – 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 9-10-303	Y		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 Parts 1, 2, 8, 10, 11-13, 15, 17, 20-21	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, 9-10-504.2, 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_2S limited to 0.10 gr/dscf (163 ppm)	NSPS Subpart J 60.105(a)(4) and 60.105(e)(3)	C	H_2S 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 S1762	BAAQMD Condition #7618, Part E.2	Y		Flexigas H_2S shall not exceed 35 ppmv except when the refinery is processing more than 50% SJV crudes, flexigas H_2S 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

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
Opacity	BAAQMD 6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour	None	N	None
Opacity	BAAQMD 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 6-310.3	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, 9-10-504.2, 9-10-505, 1-522 and 1-523; Condition # 18265 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, 9-10-504.2, 9-10-505, 1-522 and 1-523; Condition # 18265 Parts 1, 2, 8, 10, 11-13, 15, 17, 20-21	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, 9-10-504.2, 9-10-505, 1-522 and 1-523	C	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
SO_2	NSPS Subpart J 60.104(a)(1)	Y		Fuel gas H_2S limited to 0.10 gr/dscf (163 ppm) for refinery fuel gas and/or flexigas	NSPS Subpart J 60.105(a)(4) and 60.105(e)(3)	C	H_2S analyzer for refinery fuel gas and/or flexigas
Through-put	BAAQMD Condition #16688	N		Maximum firing rate (higher heating value)	BAAQMD Condition #18618, Part 2	P/D and A	Records

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.							
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 – 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.**							
SO_2	BAAQMD Condition #7618, Part E.2	Y		Flexigas H_2S shall not exceed 35 ppmv except when the refinery is processing more than 50% SJV crudes, flexigas H_2S 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 6-301	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 6-304	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 6-310.3	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	BAAQMD Condition # 18618 Part 4	P/10^6 gallon of fuel combusted P/M	Sampling and Analysis
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 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, 9-10-504.2, 9-10-505, 1-522 and 1-523; Condition # 18265 Parts 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 – 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
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, 9-10-504.2, 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_2S limited to 0.10 gr/dscf (163 ppm) for refinery fuel gas and/or flexigas	NSPS Subpart J 60.105(a)(4) and 60.105(e)(3)	C	H_2S analyzer for refinery fuel gas and/or flexigas
Through-put	BAAQMD Condition #16688	N		Maximum firing rate (higher heating value)	BAAQMD Condition #18618, Part 2	P/D and A	Records

Table VII – AY
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

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.							
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 – AY
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

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 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 – DH F-59 HCU SECOND STAGE REBOIL,
S1763 – DH F-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.							
SO_2	BAAQMD Condition #7618, Part E.2	Y		Flexigas H_2S shall not exceed 35 ppmv except when the refinery is processing more than 50% SJV crudes, flexigas H_2S 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 6-301	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) BAAQMD 6-501, 6-502 and 1-522	C	Opacity monitor and Records
Opacity	BAAQMD 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) BAAQMD 6-501, 6-502 and 1-522	C	Opacity monitor and Records
FP	BAAQMD 6-310.3	Y		0.15 grain per dscf at 6% O_2	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, 9-10-504.2, 9-10-505, 1-522 and 1-523	C	NOx and O_2 CEM, monitoring, records, and reporting
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, 9-10-504.2, 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, 9-10-504.2, 9-10-505, 1-522 and 1-523	C	CO 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
SO_2	NSPS Subpart J 60.104(a)(1)	Y		Fuel gas H_2S limited to 0.10 gr/dscf (163 ppm)	NSPS Subpart J 60.105(a)(4) and 60.105(e)(3)	C	H_2S 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
SO_2	BAAQMD Condition #7618, Part E.2	Y		Flexigas H_2S shall not exceed 35 ppmv except when the refinery is processing more than 50% SJV crudes, flexigas H_2S 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_2S, 24-hour average; 0.1 grain/dscf (163 ppm) H_2S, 3-hour average; and 70 ppm TRS expressed as H_2S, 12-month average	BAAQMD Condition #12271 Part 16, 16A, 17, L and M	C	H_2S and TRS analyzer 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 Condition #12271, Part 85	Y		Combined NOx 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	NOx 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 (NH_3 CEM)

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 6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour	None	N	None
Opacity	BAAQMD 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 emissions Inspection & Records
FP	BAAQMD 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 emissions Inspection & Records
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 9-10-301	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 Parts 11 through 21	C	NOx and O_2 CEM, monitoring, records, and reporting
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, 9-10-504,2, 9-10-505, 1-522 and 1-523; Condition # 18265 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, 9-10-504.2, 9-10-505, 1-522 and 1-523; Condition # 18265 Parts 1, 2, 8, 10, 11-13, 15, 17, 20-21	C	CO 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
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, 9-10-504.2, 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_2S limited to 0.10 gr/dscf (163 ppm)	NSPS Subpart J 60.105(a)(4) and 60.105(e)(3)	C	H_2S analyzer
NOx, 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
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
NOx	BAAQMD Condition # 17532 Part 3	Y		NOx $\leq$ 0.05 lb/MMBTU (HHV) based on a rolling hourly 8760-hour average heat input.	BAAQMD Condition # 17532 Part 3	P/D	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
SO_2	BAAQMD Condition #7618, Part E.2	Y		Flexigas H_2S shall not exceed 35 ppmv except when the refinery is processing more than 50% SJV crudes, flexigas H_2S 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 – 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
Through-put	BAAQMD Condition #16688	N		Maximum firing rate (higher heating value)	BAAQMD Condition #18618, Part 2	P/D and A	Records

Table VII - BC
Applicable Limits and Compliance Monitoring Requirements
S1540 – LUBS LR-26 OLEUM UNLOADING

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Opacity	BAAQMD 6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour	None	N	None
FP	BAAQMD 6-310	Y		0.15 grain per dscf	None	N	None

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
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	Tightness Test
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	Tightness Test
POC	8-7-302.14	Y		Back Pressure for Vapor Balance, per applicable Executive Order or 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	Back-pressure Test

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 6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour	BAAQMD Condition #18618, Part 5 and 7	PA	Visible emissions inspection and Records

VII. Applicable Limits and Compliance Monitoring Requirements

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
FP	BAAQMD 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

Table VII – BF
Applicable Limits and Compliance Monitoring Requirements
S1759 – OPCEN FLEXICOKER (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.							
NOx, 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

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
Opacity	BAAQMD 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 6-310	Y		0.15 grain per dscf	BAAQMD Condition # 18618 Part 5 and 7	P/A	Visible emissions inspection & Records
FP	BAAQMD 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 & Records
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

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 6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour	BAAQMD Condition # 18618 Part 18	P/E	Visible Emissions Check
FP	BAAQMD 6-310	Y		0.15 grain per dscf at 6% O_2	BAAQMD Condition # 18618 Part 18	P/E	Visible Emissions Check
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 – 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
		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(c)(3)	Y		Heat content specification as per (c)(3)(ii) and maximum tip velocity specification per ©(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
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
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 – 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
SO_2	NSPS Subpart J 60.104(a)(1)	Y		Fuel gas H_2S limited to 0.10 gr/dscf (163 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_2S 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

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 6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour	BAAQMD Condition # 18618 Part 15	P/E	Visible Emissions Check
FP	BAAQMD 6-310	Y		0.15 grain per dscf at 6% O_2	BAAQMD Condition # 18618 Part 15	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

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			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
Vent Gas Limit	BAAQMD Condition # 18618, Part 12	Y	12/01/04	510,000 lb/hr	BAAQMD Condition # 18618, Part 13	P/E	Recordkeeping

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – BK
Applicable Limits and Compliance Monitoring Requirements
S1779 – OPCEN CPI OIL/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 – AJ for additional requirements.							
Through-put	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 6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour	None	N	None
Opacity	BAAQMD 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 emissions Inspection & Records
FP	BAAQMD 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, 9-10-504.2, 9-10-505 and 1-523; Condition # 18265 Parts 1, 2, 8, 10, 11-13, 15, 16, 17, 20-21	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, 9-10-504.2, 9-10-505 and 1-523; Condition # 18265 Parts 1, 2, 8, 10, 11-13, 15, 16, 17, 20-21	C	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
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, 9-10-504.2, 9-10-505 and 1-523	P	Monitoring, records, and reporting
SO_2	NSPS Subpart J 60.104(a)(1)	Y		Fuel gas H_2S limited to 0.10 gr/dscf (163 ppm)	NSPS Subpart J 60.105(a)(4) and 60.105(e)(3)	C	H_2S 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 E.2	Y		Flexigas H_2S shall not exceed 35 ppmv except when the refinery is processing more than 50% SJV crudes, flexigas H_2S 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 6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour	BAAQMD Condition # 4041 Part 10 and 11	P/Q	Visible emissions inspection
FP	BAAQMD 6-311	Y		$4.10\ P^{0.67}$ lb/hr particulate, where P is process weight rate in ton/hr	BAAQMD Condition # 4041 Part 10 and 11	P/Q	Visible emissions inspection
Opacity	BAAQMD Condition #4041, Part 3	Y		Ringelmann No. 0.5 and 10% opacity	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 6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour	None	N	None
FP	BAAQMD 6-310	Y		0.15 grain per dscf	None	N	None
VOC	BAAQMD 8-4-302	N		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

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 8-19-302	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
VOC	BAAQMD 8-31-302	Y		VOC content ≤ 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

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 8-31-306	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; PM for 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 ≤ 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
VOC	BAAQMD 8-51-114	Y		VOC content limits in coatings for adhesive product substrate do not apply if facility adhesive usage ≤ 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 ≤ 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

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 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 1	Y		Annual throughput shall not exceed 563,000 bbl/yr	BAAQMD Condition #4298, Part 8	P/A	Records

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	N		Cold cleaner shall not operate without a freeboard ratio $\geq$ 0.75	None	P/E	Visual Inspection
VOC	BAAQMD 8-16-303.5	N		VOC content $\leq$ 0.42 pounds per gallon	BAAQMD 8-16-501.2 and 8-16-.501.5	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	SIP 8-16-303.4.1	Y		Cold cleaner shall not operate without a freeboard ratio $\geq$ 0.75	None	P/E	Visual Inspection

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, 2002, 2003 AND 2004 – 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
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

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
VOC	8-8-307.1			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
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(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
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)

VII. Applicable Limits and Compliance Monitoring Requirements

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			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

Table VII – BT
Applicable Limits and Compliance Monitoring Requirements
S2009 LUBS WASTEWATER SEPARATOR DUBBS BOX

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 – AJ for additional requirements.							
Through-put	BAAQMD Condition #5077, Part 10	Y		Throughput shall not exceed 600 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 – 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 ≤ 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 6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour	None	N	None
FP	BAAQMD 6-310.3	Y		0.15 grain per dscf at 6% O_2	None	N	None
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

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 – AW 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
SO_2	BAAQMD Condition #7618, Part E.2	Y		Flexigas H_2S shall not exceed 35 ppmv except when the refinery is processing more than 50% SJV crudes, flexigas H_2S 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
SO_2	BAAQMD Condition #12271, Part 15 and 18	Y		Refinery fuel gas limited to 50 ppmv H_2S, 24-hour average; 0.1 grain/dscf (163 ppm) H_2S, 3-hour average; and 70 ppm TRS expressed as H_2S, 12-month average	BAAQMD Condition #12271 Part 16, 16A, 17, L and M	C	H_2S and TRS analyzer records and reporting
NOx	BAAQMD Condition #12271, Part 35	Y		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
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 – 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
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 6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour	BAAQMD Condition # 12271 Part 77, L and M	P/D	Water content monitoring & Records
	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 6-310	Y		0.15 grain per dscf	BAAQMD Condition # 12271 Part 77, L and M	P/D	Water content monitoring & Records
FP	BAAQMD 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

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
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 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),
S4170 – LUBS LUBE HYDROTREATER 2 (LHT2)

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.							
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 11	Y		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

Table VII – CB
Applicable Limits and Compliance Monitoring Requirements
S4021 – DC F-13909 DHT RECYCLE, S4171 – LUBS F-13000 LHT2 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 6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour	None	N	None
Opacity	BAAQMD 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

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – CB
Applicable Limits and Compliance Monitoring Requirements
S4021 – DC F-13909 DHT RECYCLE, S4171 – LUBS F-13000 LHT2 FEED

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
FP	BAAQMD 6-310.3	Y		0.15 grain 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, 9-10-504.2, 9-10-505, and 1-523; Condition # 18265 Parts 1-7, 9-15, and 17-21	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, 9-10-504.2, 9-10-505 and 1-523; Condition # 18265 Parts 1, 2, 8, 10, 11-13, 15, 17, 20-21	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, 9-10-504.2, 9-10-505 and 1-523	C	Monitoring, records, and reporting
SO_2	NSPS Subpart J 60.104(a)(1)	Y		Fuel gas H_2S limited to 0.10 gr/dscf (163 ppm) for refinery fuel gas and/or flexigas	NSPS Subpart J 60.105(a)(4) and 60.105(e)(3)	C	H_2S analyzer for refinery fuel gas and/or flexigas
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 – CB
Applicable Limits and Compliance Monitoring Requirements
S4021 – DC F-13909 DHT RECYCLE, S4171 – LUBS F-13000 LHT2 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 #12271, Part 15 and 18	Y		Refinery fuel gas limited to 50 ppmv H_2S, 24-hour average; 0.1 grain/dscf (163 ppm) H_2S, 3-hour average; and 70 ppm TRS expressed as H_2S, 12-month average	BAAQMD Condition #12271 Part 16, 16A, 17, L and M	C	H_2S 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% O2, 3-hour average (for natural draft furnaces) and 20 ppmv dry at 3% O2, 3-hour average (for forced draft furnaces)	BAAQMD Condition # 12271 Part 104	P/Semi-A for S4021; P/A for S4171	Source Test
CO	BAAQMD Condition #12271, Part 42	Y		CO emissions shall not exceed 50 ppmv dry at 3% O2, 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

Table VII – CC
Applicable Limits and Compliance Monitoring Requirements
S4171 – LUBS F-13000 LHT2 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_2S limited to 0.10 gr/dscf (163 ppm) for vent gas from Lubricants Hydrotreater # 2 Vacuum Flash Dryer	40 CFR 60.13(i)	P	Monitoring, records, and reporting for vent gas from Lubricants Hydrotreater #2 Vacuum Flash Dryer

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – CD
Applicable Limits and Compliance Monitoring Requirements
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
See Table VII – AU for additional requirements.							
SO_2	BAAQMD Condition #7618, Part E.2	Y		Flexigas H_2S shall not exceed 35 ppmv except when the refinery is processing more than 50% SJV crudes, flexigas H_2S 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
SO_2	BAAQMD Condition #12271, Part 15 and 18	Y		Refinery fuel gas limited to 50 ppmv H_2S, 24-hour average; 0.1 grain/dscf (163 ppm) H_2S, 3-hour average; and 70 ppm TRS expressed as H_2S, 12-month average	BAAQMD Condition #12271 Part 16, 16A, 17, L and M	C	H_2S and TRS analyzer records and reporting
NOx	BAAQMD Condition #12271, Part 35	Y		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
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 – 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
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 6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour	None	N	None
Opacity	BAAQMD 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 6-310.3	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, 9-10-504.2, 9-10-505, 1-522 and 1-523; Condition # 18265 Parts 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 – 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 9-10-303	Y		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 and 1-523; Condition # 18265 Parts 1, 2, 8, 10, 11-13, 15, 17, 20-21	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, 9-10-504.2, 9-10-505, 1-522 and 1-523	C	Monitoring, records, and reporting
SO_2	40 CFR 60.104 (a)(1)	Y		Fuel gas H_2S limited to 0.10 gr/dscf (163 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_2S limited to 0.10 gr/dscf (163 ppm)	40 CFR 60.13(i) for process swing absorption gas	P	Monitoring, records, and reporting
SO_2	BAAQMD Condition #7618, Part E.2	Y		Flexigas H_2S shall not exceed 35 ppmv except when the refinery is processing more than 50% SJV crudes, flexigas H_2S 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_2S, 24-hour average; 0.1 grain/dscf (163 ppm) H_2S, 3-hour average; and 70 ppm TRS expressed as H_2S, 12-month average	BAAQMD Condition #12271 Part 16, 16A, 17, L and M	C	H_2S 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 15% O2	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 – AI for additional requirements.							
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 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	SO2 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_2S 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 monmitorng at A4181, and P/A for H_2S	SO_2 CEM, Continuos temperature monitor at A4181, annual H_2S 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
$NH_{3,\ H2S}$	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	BAAQMD Condition # 12271 Part 115	P/A	Records
H_2S	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_2S 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 6-301	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 6-310	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 9-9-301.3	Y		9 ppmv dry at 15% O_2 for gaseous fuel firing	BAAQMD 9-9-501 and 1-522	C	NOx and O_2 CEM and records
NOx	BAAQMD 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	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_2S limited to 0.10 gr/dscf (163 ppm)	NSPS Subpart J 60.105(a)(4) or 60.105(a)(3) and 60.105(e)(3)	C	H_2S 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(b)	P/E	Fuel analysis
SO_2	BAAQMD Condition #7618, Part E.2	Y		Flexigas H_2S shall not exceed 35 ppmv except when the refinery is processing more than 50% SJV crudes, flexigas H_2S 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 – 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 #12271, Part 15 and 18	Y		Refinery fuel gas limited to 50 ppmv H_2S, 24-hour average; 0.1 grain/dscf (163 ppm) H_2S, 3-hour average; and 70 ppm TRS expressed as H_2S, 12-month average	BAAQMD Condition #12271 Part 16, 16A, 17, L and M	C	H_2S 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
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

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
Opacity	BAAQMD 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 6-304	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 6-310.3	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 emissions inspection
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_2S limited to 0.10 gr/dscf (163 ppm)	NSPS Subpart J 60.105(a)(4) or 60.105(a)(3) and 60.105(e)(3)	C	H_2S analyzer or SO_2 CEM
SO_2	BAAQMD Condition #7618, Part E.2	Y		Flexigas H_2S shall not exceed 35 ppmv except when the refinery is processing more than 50% SJV crudes, flexigas H_2S 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_2S, 24-hour average; 0.1 grain/dscf (163 ppm) H_2S, 3-hour average; and 70 ppm TRS expressed as H_2S, 12-month average	BAAQMD Condition #12271 Part 16, 16A, 17, L and M	C	H_2S 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

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 6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour	BAAQMD Condition # 18618 Part 15	P/E	Visible emissions inspection
FP	BAAQMD 6-310	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
		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 – 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	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

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
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 55	Y		Hydrocarbon reading above defined Action Level will trigger an alarm.	BAAQMD Condition # 12271 Part L, M and55	P/C	District-approved continuous hydrocarbon analyzer /recorder to determine hydrocarbon vapor concentra-tion fromcooling 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 (non-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

VII. Applicable Limits and Compliance Monitoring Requirements

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

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 (non-SIP)	P/E	Records

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	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 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

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 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		Tank cleaning control device standards; includes 90% efficiency requirement	BAAQMD 8-5-502 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 63.654(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

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 63.654(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
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.							
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 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 – 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.							
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 – 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, 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 with an overall capture and destruction efficiency at least 98.5% by weight	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 VESSELWITH 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 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		Tank cleaning control device standards; includes 90% efficiency requirement	BAAQMD 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 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	BAAQMD 6-301	Y		Ringelmann 1.0 for < 3 minutes in any hour	Condition # 19097 Part 7	P/1000 gal fuel oil	Visible Emissions Check
FP	BAAQMD 6-310	Y		0.15 gr/dscf	Condition # 19097 Part 7	P/1000 gal fuel oil	Visible Emissions Check
SO2	BAAQMD 9-1-301	Y		GLC[1] 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
Emer-gency	BAAQMD 9-8-330.1 & Condition # 19097 Part 1	N			BAAMQD 9-8-530 & Condition # 19097 Part 5	P/M	Records
Reli-ability 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

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 ≤ 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 ≤ 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 ≤ 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), 63.654(d)(1)(i), 63.654(e)(3), 63.654(h)(1) and 63.654(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 (≤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), 63.654(d)(1)(i), 63.654(e)(3), 63.654(h)(1) and 63.654(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), 63.654(d)(1)(i), 63.654(e)(3), 63.654(h)(1) and 63.654(i)(4)	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) MACT Subpart CC 63.648(h), 63.654(d)(1)(i), 63.654(e)(3), 63.654(h)(1) and 63.654(i)(4)	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), 63.654(d)(1)(i), 63.654(e)(3), 63.654(h)(1) and 63.654(i)(4)	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) MACT Subpart CC 63.648(h), 63.654(d)(1)(i), 63.654(e)(3), 63.654(h)(1) and 63.654(i)(4)	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(a) and (i)(4)	P/A-measure-ments 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_2S/NH_3	BAAQMD 9-1-313.2	N		Operation of a sulfur removal and recovery system that removes and recovers: 95% of H_2S from refinery fuel gas, 95% of H_2S and ammonia from process water streams	BAAQMD Condition # 12271 Part 115	P/A	Analysis and Recordkeeping

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
H_2S	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
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	N		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	N		Freeboard ratio ≥ 0.75	None	P/E	Visual Inspection
VOC	BAAQMD 8-16-303.5	N		VOC content ≤ 0.42 pounds per gallon	BAAQMD 8-16-501.2 and 8-16-.501.5	P/A	Records
VOC	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

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 8-40-306.4	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
HAP	NESHAP Subpart FF 61.342(e)(2) and MACT Subpart CC 63.654(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 63.654(i)(4)	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

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
6-301	Ringelmann No. 1 Limitation	Manual of Procedures, Volume I, Evaluation of Visible Emissions; EPA Method 9
6-304	Tube Cleaning	Manual of Procedures, Volume I, Evaluation of Visible Emissions
6-310	Particulate Weight Limitation	Manual of Procedures, Volume IV, ST-15 Particulate Sampling; or USEPA Method 5, Determination of Particulate Matter Emissions from Stationary Sources
BAAQMD 8-5-601	Reid Vapor Pressure	Manual of Procedures, Volumne III, Lab Method 13, Determination of the Reid Vapor Pressure of Petroleum Products
BAAQMD 8-5-602	True Vapor Pressure	Manual of Procedures, Volumne 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

VIII. Test Methods

Table VIII
Test Methods

Applicable Requirement	Description of Requirement	Acceptable Test Methods
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
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.
8-8-602	Determination of Emissions	Emissions of POCs, as specified in Sections 8-8-301.3, 8-8-302.3, 8-8-304, 8-8-305.2, 8-8-306.2, and 8-8-307.2 shall be measured by as prescribed by any of the following methods: 1). BAAQMD MOP, Volume IV, ST-7 or; 2). EPA Method 25 or 25(A).
8-8-603	Inspection Procedures	For the purposes of 8-8-301, 302, 303, and 304, leaks shall be measured using a portable gas detector as prescribed in EPA Reference Method 21 (40 CFR 60, Appendix A)
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

VIII. Test Methods

Table VIII
Test Methods

Applicable Requirement	Description of Requirement	Acceptable Test Methods
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
BAAQMD 8-44-301	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	Ground Level Monitoring	Manual of Procedures, Volume VI, Section 1, Area Monitoring
9-1-501, 9-1-502, 9-2-501	Continuous Monitoring	Manual of Procedures, Volume 5, Continuous Monitoring

VIII. Test Methods

Table VIII
Test Methods

Applicable Requirement	Description of Requirement	Acceptable Test Methods
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
BAAQMD 9-8-301.2	NOx 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	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 9-9-301.2	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 9-9-301.3	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
40 CFR 60, Appendix A	Inspection Procedures	EPA Reference Method 21
40 CFR Subpart A 60.18(c)(1)	Visibile emission monitoring	EPA Method 22: Visible Emissions
40 CFR Subpart J 60.106(e)	H2S concentration monitoring	EPA Method 11: H2S
40 CFR Subpart J 60.106(f)(3)	H2S concentration monitoring	EPA Method 3: O2
40 CFR Subpart J 60.106(f)(1)	SO2 concentration monitoring	EPA Method 6: SO2

VIII. Test Methods

Table VIII
Test Methods

Applicable Requirement	Description of Requirement	Acceptable Test Methods
40 CFR Subpart J 60.106(f)(2)	TRS concentration monitoring	EPA Method 15: Total Reduced Sulfur
40 CFR, Subpart CC	Test methods, procedures	EPA reference method 21 (40 CFR 60, Appendix A), Determination of Volatile Organic Compound Leaks
40 CFR Subpart GG 60.333 (a)	SO2 Volumetric Emission Limit	EPA Method 20, Determination of Nitrogen Oxides, Sulfur Dioxide, and Diluent Emissions from Stationary Gas Turbines
40 CFR Subpart FF 61.349 (a)(1)(i)	Leak inspection procedures	61 Subpart FF, 61.355(h): EPA reference method 21 (40 CFR 60, Appendix A), Determination of Volatile Organic Compound Leaks
40 CFR Subpart FF 61.354 (f)	Visual Inspection	61 Subpart FF, 61.354(f)
40 CFR Subpart GG 60.332 (a)(1)	Performance Standard, NOx	EPA Method 20, Determination of Nitrogen Oxides, Sulfur Dioxide, and Diluent Emissions from Stationary Gas Turbines
40 CFR Subpart GG 60.332 (a)(2)	Performance Standard, NOx	EPA Method 20, Determination of Nitrogen Oxides, Sulfur Dioxide, and Diluent Emissions from Stationary Gas Turbines
40 CFR Subpart GG 60.333 (b)	Fuel Sulfur Limit (gaseous fuel)	ASTM D 1072-80, Standard Method for Total Sulfur in Fuel Gases ASTM D 3031-81, Standard Test Method for Total Sulfur in Natural Gas by Hydrogenation ASTM D 4084-82, Standard Method for Analysis of Hydrogen Sulfide in Gaseous Fuels (Lead Acetate Reaction Rate Method), ASTM D 3246-81, Standard Method for Sulfur in Petroleum Gas by Oxidative Microcoulometry
40 CFR Subpart GG 60.333 (b)	Fuel Sulfur Limit (liquid fuel)	ASTM D 2880-71, Standard Specification for Gas Turbine Fuel Oils
40 CFR, Subpart VV, 63.1046	Test methods, procedures	Method 21of 40 CFR part 60, appendix A. Acceptable floating roof seal gap criteria included.

VIII. Test Methods

Table VIII
Test Methods

Applicable Requirement	Description of Requirement	Acceptable Test Methods
40 CFR, Subpart QQQ, 60.696	Performance test methods and procedures and compliance provisions	Sources equipped with a closed-vent system and control device shall use EPA Method 21 to measure the emission concentrations, using 500 ppm as the no detectable emission limit. Acceptable seal gap criteria also included.
40 CFR, Subpart QQQ	Leak inspection procedures	60 Subpart QQQ, 60.696: EPA reference method 21 (40 CFR 60, Appendix A), Determination of Volatile Organic Compound Leaks

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 Regaulation 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 S1470, 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.)

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 they combust only natural gas and not refinery fuel gas.)

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)

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)

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)

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)

Table IX A - 8
Permit Shield for Non-applicable Requirements
SECONDARY WASTEWATER TREATMENT PROCESSES AND STORMWATER SEWER SYSTEMS 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.)
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.)

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Table IX A - 8
Permit Shield for Non-applicable Requirements
SECONDARY WASTEWATER TREATMENT PROCESSES AND STORMWATER SEWER SYSTEMS EXEMPT PER REGULATION 8-8-113

Citation	Title or Description (Reason not applicable)
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)
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.))

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Table IX A - 10
Permit Shield for Non-applicable Requirements
FACILITY

Citation	Title or Description (Reason not applicable)
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% 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.)

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

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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.)

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.

IX. Permit Shield

Table IX A - 13
Permit Shield for Non-applicable Requirements
S1771 – FLEXIGAS FLARE

Citation	Title or Description (Reason not applicable)
BAAQMD 12-11-502.3	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.

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 S1771and 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 S1771and S1772.)

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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 (S1425 is not 40 CFR 63 Subpart UUU 63.1566 per 40 CFR 63.1562(f)(5) because gaseous streams from S1425 are routed to a fuel gas system.).

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.)

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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 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.)
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.)

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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.)

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
S129 - TANK 129, 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		Streamlined	

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Citation	Title or Description	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**	Notification of Compliance Status report

Table IX B – 2
Permit Shield for Subsumed Requirements
S858 - TANK 858, S952 – TANK 952, S1023 - TANK 1023, S1050 TANK 1050, S2445 - TANK 12445, S2446 – TANK 12446, S4322 - TANK 14571 SOUR WATER

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**	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 63.654**	Notification of Compliance Status report
60.116b (a)-(c)	**Additional Recordkeeping.** Subsumed into the Refinery MACT requirements.	**Section 63.654**	Notification of Compliance Status report

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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 63.654**	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 63.654**	Notification of Compliance Status report
60.116b (a)-(c)	**Additional Recordkeeping.** Subsumed into the Refinery MACT requirements.	**Section 63.654**	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

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) x (10^6) = (4.53) x (10 x 10 x 10 x 10 x 10 x 10) = 4,530,000. Scientific notation is used to express large or small numbers without writing out long strings

XI. Glossary

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

GLM
Ground Level Monitor

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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 produced by the combustion is not condensed but retained as vapor at 60F.

Lighter

XI. Glossary

"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
Not Applicable

NAAQS

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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)

NOx
Oxides of nitrogen.

NSPS
Standards of Performance for New Stationary Sources. Federal standards for emissions from new stationary sources. Mandated by Title I, Section 111 of the Act, and implemented by 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 theFederal 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, NOx, 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

PM10
Particulate matter with aerodynamic equivalent diameter of less than or equal to 10 microns

PSD

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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 derivates, 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

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
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

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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
"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

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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 Farenheit
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)
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

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Symbols:

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

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