Bay Area Air Quality Management District

375 Beale Street, Suite 600
San Francisco, CA 94105
(415) 771-6000

Final

MAJOR FACILITY REVIEW PERMIT

Issued To:

Martinez Refining Company LLC

Facility # A0011

Facility Address:
3485 Pacheco Blvd.
Martinez, CA 94553

Mailing Address:
PO Box 711
Martinez, CA 94553

Responsible Official	**Facility Contact**
Jerry Forstell,	Gordon Johnson,
Refinery Manager	Manager, Environmental Affairs Department
925-313-3333	925-3163-3705

Type of Facility:	Petroleum Refining	BAAQMD Engineering Division Contact:
Primary SIC:	2911	Anne Werth
Product:	Petroleum Refining	Senior Air Quality Engineer

ISSUED BY THE BAY AREA AIR QUALITY MANAGEMENT DISTRICT

Signed by Pamela Leong _____ February 11, 2020
Pamela J. Leong, Director of Engineering Date

TABLE OF CONTENTS

I. STANDARD CONDITIONS 3

II. EQUIPMENT 8

III. GENERALLY APPLICABLE REQUIREMENTS 45

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS 48

V. SCHEDULE OF COMPLIANCE 425

VI. PERMIT CONDITIONS 425

VII. APPLICABLE LIMITS & COMPLIANCE MONITORING REQUIREMENTS 591

VIII. TEST METHODS 763

IX. PERMIT SHIELD 776

X. REVISION HISTORY 787

XI. GLOSSARY 788

I. STANDARD CONDITIONS

A. Administrative Requirements

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

BAAQMD Regulation 1 - General Provisions and Definitions
(adopted and amended by the District Board on 09/05/79 and 05/04/11, respectively);

SIP Regulation 1 - General Provisions and Definitions
(as approved by EPA through 6/28/99);

BAAQMD Regulation 2, Rule 1 - Permits, General Requirements
(adopted and amended by the District Board on 01/01/80 and 12/06/17, respectively);

SIP Regulation 2, Rule 1 – Permits, General Requirements
(as approved by EPA through 8/1/16)

BAAQMD Regulation 2, Rule 2 - Permits, New Source Review
(adopted and amended by the District Board on 07/17/91 and 12/06/17, respectively);

SIP Regulation 2, Rule 2 - Permits, New Source Review and Prevention of Significant Deterioration (as approved by EPA through 8/1/16)

1. BAAQMD Regulation 2, Rule 4 - Permits, Emissions Banking
(adopted and amended by the District Board on 03/07/84 and 12/19/12, respectively);

SIP Regulation 2, Rule 4 - Permits, Emissions Banking
(as approved by EPA through 1/26/99);

BAAQMD Regulation 2, Rule 5 – New Source Review of Toxic Air Contaminants
(adopted and amended by the District Board on 06/15/05 and 12/7/16, respectively)

BAAQMD Regulation 2, Rule 6 - Permits, Major Facility Review
(adopted and amended by the District Board on 11/03/93 and 12/06/17, respectively)

SIP Regulation 2, Rule 6 – Permits, Major Facility Review
(as approved by EPA through 6/23/95)

BAAQMD Regulation 2, Rule 9 –Interchangeable Emission Reduction Credits
(adopted and amended by the District Board on 04/07/99 and 06/15/05, respectively)

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

1. This Major Facility Review Permit was issued on November 30, 2018 and expires on November 29, 2023. The permit holder shall submit a complete application for renewal of this Major Facility Review Permit no later than May 29, 2023, and no earlier than November 29, 2022. **If a complete application for renewal has not been submitted in accordance with this deadline, the facility may not operate after November 29, 2023.** If the permit renewal has not been issued by November 29, 2023, but a complete application for renewal has been submitted in accordance with the above deadlines, the existing permit will continue in force until the district takes final action on the renewal application. (Regulation 2-6-307, 404.2, 407, & 409.6; MOP Volume II, Part 3, §4.2)

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

I. Standard Conditions

3. In the event any enforcement action is brought as a result of a violation of any term or condition of this permit, the fact that it would have been necessary for the permittee to halt or reduce the permitted activity in order to maintain compliance with such term or condition shall not be a defense to such enforcement action. (MOP Volume II, Part 3, §4.11) 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)
4. 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)
5. 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)
6. 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)
7. 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)
8. 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)
9. 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)
10. The responsible official shall certify all documents submitted by the facility pursuant to the major facility review permit. The certification shall state that based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete. The certifications shall be signed by a responsible official for the facility.
12. The permit holder is responsible for compliance, and certification of compliance, with all conditions of the permit, regardless whether it acts through employees, agents, contractors, or subcontractors. (Regulation 2-6-307)

I. Standard Conditions

C. Requirement to Pay Fees

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

D. Inspection and Entry

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

E. Records

1. The permit holder must provide any information, records, and reports requested or specified by the APCO. (Regulation 1-441, Regulation 2-6-409.4)
2. Notwithstanding the specific wording in any requirement, all records for federally enforceable requirements shall be maintained for at least five years from the date of creation of the record. (Regulation 2-6-501, MOP Volume II, Part 3, §4.7)

F. Monitoring Reports

Reports of all required monitoring must be submitted to the District at least once every six months, except where an applicable requirement specifies more frequent reporting. Reports shall be for the following periods: July 1st through December 31st and January 1st through June 30th. All reports are due on the last day of the month after the end of the reporting period. All instances of non-compliance shall be clearly identified in these reports. The reports shall be certified by the responsible official as true, accurate, and complete. In addition, all instances of non-compliance with the permit shall be reported in writing to the District's Compliance and Enforcement Division within 10 calendar days of the discovery of the incident. Within 30 calendar days of the discovery of any incident of non-compliance, the facility shall submit a written report including the probable cause of non-compliance and any corrective or preventative actions. The reports shall be sent by e-mail to compliance@baaqmd.gov or by postal mail to the following address:

Director of Compliance and Enforcement
Bay Area Air Quality Management District
375 Beale Street, Suite 600
San Francisco, CA 94105
Attn: Title V Reports

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

G. Compliance Certification

Compliance certifications shall be submitted annually by the responsible official of this facility to the Bay Area Air Quality Management District and to the Environmental Protection Agency. Subsequent certification periods will be January 1st to December 31st. All compliance certifications are due on the last day of the month after the end of the certification period.

I. Standard Conditions

The certification must list each applicable requirement, the compliance status, whether compliance was continuous or intermittent, the method used to determine compliance, and any other specific information required by the permit. The certification should be directed to the District's Compliance and Enforcement Division at the address above, and a copy of the certification shall be sent by e-mail to r9.aeo@epa.gov or postal mail to the Environmental Protection Agency at the following address:

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

(MOP Volume II, Part 3, §4.5)

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. These throughput limits function as reporting thresholds only and exceedance throughput of any of these

I. Standard Conditions

limits does not constitute noncompliance with the MFR permit. As such, exceedance of a grandfathered throughput limit is not subject to Section I.F. reporting requirements. Exceedance of a grandfathered limit does not establish a presumption that a modification has occurred, nor does compliance with the limit establish a presumption that a modification has not occurredThe facility must report any exceedance of these limits in the form of a permit application within 30 days of discovery to facilitate the determination of whether a modification has occurred. The applications shall be sent to the following address:

Air Quality Engineering Manager
Bay Area Air Quality Management District
375 Beale Street, Suite 600
San Francisco, CA 94105
Attn: Permit Evaluation Section, Title V Reports

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.

K. Accidental Release

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

II. EQUIPMENT

Table II A - Permitted Sources

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

S#	Description	Make or Type	Model	Capacity
3	Tank 3	Custom Made, Fixed Roof	NA	2,335,830 Gallons
4	Tank 4	Custom Made, Fixed Roof	NA	2,335,830 Gallons
13	Tank 13	Custom Made, Fixed Roof	NA	2,335,830 Gallons
14	Tank 14	Custom Made, Fixed Roof	NA	2,335,830 Gallons
19	Tank 19	Custom Made, Fixed Roof	NA	2,335,830 Gallons
20	Tank 20	Custom Made, Fixed Roof	NA	2,335,830 Gallons
21	Tank 21	Custom Made, Fixed Roof	NA	2,314,200 Gallons
23	Tank 23	Custom Made, Fixed Roof	NA	2,335,830 Gallons
24	Tank 24	Custom Made, Fixed Roof	NA	2,310,000 Gallons
26	Tank 26	Custom Made, Fixed Roof	NA	1,050,000 Gallons
34	Tank 34	Custom Made, Floating Roof	NA	336,000 Gallons
63	Tank 63	Custom Made, Fixed Roof	NA	19,740 Gallons
224	Tank 224	Custom Made, Fixed Roof	NA	23,100 Gallons
257	Tank 257	Custom Made, Fixed Roof	NA	2,335,830 Gallons
355	Tank 355	Custom Made, Fixed Roof	NA	19,740 Gallons
396	Tank 396	Custom Made, Fixed Roof	NA	362,040 Gallons
397	Tank 397	Custom Made, Fixed	NA	362,040 Gallons

II. Equipment

Table II A - Permitted Sources

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

S#	Description	Make or Type	Model	Capacity
		Roof		
432	Tank 432	Custom Made, Fixed Roof	NA	19,740 Gallons
483	Tank 483	Custom Made, Fixed Roof	NA	3,380,160 Gallons
484	Tank 484	Custom Made, Fixed Roof	NA	3,380,160 Gallons
497	Tank 497	Custom Made, Fixed Roof	NA	1,611,960 Gallons
530	Tank 530	Custom Made, Fixed Roof	NA	3,452,232 Gallons
532	Tank 532	Custom Made, Fixed Roof	NA	3,452,190 Gallons
534	Tank 534	Custom Made, Fixed Roof	NA	3,452,190 Gallons
540	Tank 540	Custom Made, External Floating Roof	NA	3,435,180 Gallons
545	Tank 545	Custom Made, External Floating Roof	NA	4,923,576 Gallons
548	Tank 548	Custom Made, Fixed Roof	NA	19,950 Gallons
549	Tank 549	Custom Made, Fixed Roof	NA	19,100 Gallons
552	Tank 552	Custom Made, Fixed Roof	NA	69,300 Gallons
553	Tank 553	Custom Made, Fixed Roof	NA	69,300 Gallons
554	Tank 554	Custom Made, Fixed Roof	NA	69,300 Gallons
555	Tank 555	Custom Made, Fixed Roof	NA	69,300 Gallons
556	Tank 556	Custom Made, Fixed Roof	NA	69,300 Gallons
557	Tank 557	Custom Made, Fixed	NA	69,300 Gallons

II. Equipment

Table II A - Permitted Sources

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

S#	Description	Make or Type	Model	Capacity
		Roof		
558	Tank 558	Custom Made, Fixed Roof	NA	69,300 Gallons
559	Tank 559	Custom Made, Fixed Roof	NA	71,400 Gallons
560	Tank 560	Custom Made, Fixed Roof	NA	625,380 Gallons
561	Tank 561	Custom Made, Fixed Roof	NA	625,380 Gallons
567	Tank 567	Custom Made, Fixed Roof	NA	22,680 Gallons
568	Tank 568	Custom Made, Fixed Roof	NA	14,280 Gallons
571	Tank 571	Custom Made, Fixed Roof	NA	155,820 Gallons
572	Tank 572	Custom Made, Fixed Roof	NA	93,660 Gallons
573	Tank 573	Custom Made, Fixed Roof	NA	93,660 Gallons
598	Tank 598	Custom Made, Fixed Roof	NA	33,600 Gallons
601	Flare for Vine Hill Vapor Recovery System #2	John Zink Co.	EEF-12-LH	NA
602	Flare for Crude String Vapor Recovery System #3	John Zink Co.	EFH-10-LH	NA
603	Flare for Interim Gasoline Vapor Recovery System #1	John Zink Co.	EEF-10-KH	NA
610	Tank 610	Custom Made, Fixed Roof	NA	5,615,400 Gallons
611	Tank 611	Custom Made, Fixed Roof	NA	5,615,400 Gallons
612	Tank 612	Custom Made, Fixed Roof	NA	5,615,400 Gallons
613	Tank 613	Custom Made, Fixed Roof	NA	5,615,400 Gallons

II. Equipment

Table II A - Permitted Sources

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

S#	Description	Make or Type	Model	Capacity
815	Tank 815	Custom Made, Fixed Roof	NA	863,058 Gallons
856	Tank 856	Custom Made, Fixed Roof	NA	22,890 Gallons
867	Tank 867	Custom Made, Fixed Roof	NA	93,156 Gallons
868	Tank 868	Custom Made, Fixed Roof	NA	93,156 Gallons
876	Tank 876	Custom Made, Fixed Roof	NA	121,296 Gallons
952	Tank 952	Custom Made, Internal Floating Roof	NA	75,600 Gallons
961	Tank 961	Custom Made, Fixed Roof	NA	130,200 Gallons
967	Tank 967	Custom Made, Internal Floating Roof	NA	2,898,000 Gallons
985	Tank 985	Custom Made, Fixed Roof	NA	841,512 Gallons
992	Tank 992	Custom Made, External Floating Roof	NA	395,808 Gallons
1006	Tank 1006	Custom Made, External Floating Roof	NA	82,908 Gallons
1017	Tank 1017	Custom Made, Fixed Roof	NA	210,210 Gallons
1018	Tank 1018	Custom Made, Fixed Roof	NA	210,210 Gallons
1031	Tank 1031	Custom Made, External Floating Roof	NA	2,274,720 Gallons
1041	Tank 1041	Custom Made, Fixed Roof	NA	339,360 Gallons
1043	Tank 1043	Custom Made, Fixed Roof	NA	189,000 Gallons
1044	Tank 1044	Custom Made, Fixed Roof	NA	189,000 Gallons

II. Equipment

Table II A - Permitted Sources

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

S#	Description	Make or Type	Model	Capacity
1045	Tank 1045	Custom Made, Fixed Roof	NA	189,000 Gallons
1046	Tank 1046	Custom Made, External Floating Roof	NA	2,961,000 Gallons
1048	Tank 1048	Custom Made, Fixed Roof	NA	210,000 Gallons
1051	Tank 1051	Custom Made, External Floating Roof	NA	3,486,000 Gallons
1063	Tank 1063 ETP 1	Custom Made, External Floating Roof	NA	211,493 Gallons
1067	Tank 1067 ETP 1	Custom Made, External Floating Roof	NA	3,486,000 Gallons
1070	Tank 1070	Custom Made, Internal Floating Roof	NA	2,335,830 Gallons
1072	Tank 1072	Custom Made, External Floating Roof	NA	6,344,775 Gallons
1075	Tank 1075	Custom Made, Fixed Roof	NA	39,480 Gallons
1076	Tank 1076	Custom Made, External Floating Roof	NA	4,060,656 Gallons
1077	Tank 1411	Custom Made, External Floating Roof	NA	497,242 Gallons
1114	Tank 1114 Spent Acid	Custom Made, Fixed Roof	NA	51,660 Gallons
1115	Tank 1115 Spent Acid	Custom Made, Fixed Roof	NA	51,660 Gallons
1116	Tank 1116 Fresh Acid	Custom Made, Fixed Roof	NA	51,660 Gallons
1117	Tank 1117 Skim	Custom Made, Fixed Roof	NA	4,512 Gallons
1128	Tank 1128	Custom Made, Internal Floating Roof	NA	2,310,000 Gallons
1129	Tank 1129	Custom Made, External Floating Roof	NA	6,344,775 Gallons

II. Equipment

Table II A - Permitted Sources

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

S#	Description	Make or Type	Model	Capacity
1130	Tank 1130	Custom Made, External Floating Roof	NA	6,344,775 Gallons
1131	Tank 1131	Custom Made, External Floating Roof	NA	6,344,775 Gallons
1133	Tank 1133	Custom Made, Fixed Roof	NA	7,224,000 Gallons
1134	Tank 1134	Custom Made, Fixed Roof	NA	7,224,000 Gallons
1139	Tank 1139	Custom Made, Fixed Roof	NA	3,399,648 Gallons
1140	Tank 1140	Custom Made, Fixed Roof	NA	4,219,511 Gallons
1141	Tank 1141	Custom Made, Fixed Roof	NA	2,310,000 Gallons
1146	Tank 1146	Custom Made, Internal Floating Roof	NA	210,976 Gallons
1147	Tank 1147	Custom Made, Internal Floating Roof	NA	210,976 Gallons
1159	Tank 1159	Custom Made, External Floating Roof	NA	2,274,720 Gallons
1160	Tank 1160	Custom Made, Fixed Roof	NA	2,349,900 Gallons
1161	Tank 1161	Custom Made, External Floating Roof	NA	11,279,601 Gallons
1186	Tank 1186	Custom Made, Fixed Roof	NA	7,056 Gallons
1191	Tank 1256 Crude Oil Storage	Custom Made, External Floating Roof	NA	15,572,899 Gallons
1192	Tank 1257 Crude Oil Storage	Custom Made, External Floating Roof	NA	15,572,899 Gallons
1235	Tank 739 Chem Storage	Custom Made, Fixed Roof	NA	32,130 Gallons
1236	Tank 740 Chem Storage	Custom Made, Fixed	NA	32,130 Gallons

II. Equipment

Table II A - Permitted Sources

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

S#	Description	Make or Type	Model	Capacity
		Roof		
1408	LUBS Blending and Shipping	Custom Made	NA	NA
1417	OPCEN Distillate Saturation Unit (DSU)	Custom Made	NA	See Condition #18618, Part 1
1420	DH Crude Unit (CU)	Custom Made	NA	See Condition #18618, Part 1
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	See Condition #18618, Part 1
1424	DH Naphtha Straightrun Hydrotreater (NHT)	Custom Made	NA	NA
1425	DH Catalytic Reformer Unit (CRU)	Custom Made	NA	See Condition # 18618, Part 1
1426	CP Catalytic Cracking Unit (CCU)	Custom Made	NA	See Condition # 18618, Part 1
1427	CP Catalytic Gas Plant (CGP)	Custom Made	NA	NA
1428	CP Catalytic Feed Hydrotreater (CFH)	Custom Made	NA	See Condition # 18618, Part 1
1429	CP Catalytic Gasoline Hydrotreater (CGH)	Custom Made	NA	See Condition #18618, Part 1
1430	CP Alkylation Plant (ALKY)	Custom Made	NA	See Condition # 18618, Part 1
1431	CP Sulfur Plant 1 (SRU1)	Custom Made	NA	See Condition # 18618, Part 1
1432	CP Sulfur Plant 2 (SRU2)	Custom Made	NA	See Condition # 18618, Part 1
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	See Condition # 18618, Part 1

II. Equipment

Table II A - Permitted Sources

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

S#	Description	Make or Type	Model	Capacity
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	See Condition # 18618, Part 1
1457	Cooling Water Tower (CWT-32)	Marley/Fluor	NA	NA
1462	LOG Distillate Blender (Jet & Diesel Fuel)	Custom Made	NA	NA
1463	LOG Gasoline Blender	Custom Made	NA	NA
1464	LOG Thin Fuel Blender (Wharf)	Custom Made	NA	NA
1465	LOG Light Oil Products Gross Oil Separator	Custom Made	NA	NA
1466	LOG Wastewater Pond 8	Custom Made	NA	NA
1467	LOG BioTreater for wastewater Pond 7	Custom Made	NA	NA
1468	LOG Wastewater Pond 6	Custom Made	NA	NA
1469	LOG API Separator with inlet Box and Bar Screen (ETP 1)	Custom Made	NA	NA
1470	LOG LPG Loading Flare	John Zink Co.	STF-U-8, 1	NA
1471	LOP Auxiliary Flare	John Zink Co.	STF-SA-36S	NA
1472	LOP Main Flare	Custom Made	NA	NA
1480	LUBS F-69 Asphalt Circulation	COEN	S-15, 2	See Condition # 16688
1481	OPCEN F-30 DSU	Western Products	UF, 10	See Condition # 16688
1483	LUBS F-32 Asphalt Circulation	COEN	S-13 1/2, 2	See Condition # 16688
1486	DH F-40 CU Feed	John Zink	MA-18, 20	See Condition # 16688
1487	DH F-41B VFU Feed	John Zink	DB-16, 20	See Condition # 16688
1488	DH F-41A VFU Feed	John Zink	DB-16, 20	See Condition # 16688
1490	DH F-43 GOHT Feed	NAO	No.30, 3	See Condition # 16688
1491	DH F-44 NHT Feed	Custom Made	NA	See Condition # 16688
1492	DH F-45 Primary Column Reboil	NAO	No. 30, 6	See Condition # 16688
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

II. Equipment

Table II A - Permitted Sources

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

S#	Description	Make or Type	Model	Capacity
1495	DH F-49 CRU Preheat	NAO	No. 325,16	See Condition # 16688
1496	DH F-50 CRU	NAO	No. 25, 21	See Condition # 16688
1497	DH F-51 CRU	NAO	No. 25, 11	See Condition # 16688
1498	DH F-52 CRU Reboil	NAO	No. 30, 4	See Condition # 16688
1499	DH F-53 CRU Regen	NAO	No. 30, 3	See Condition # 16688
1500	DH F-55 SGP Heat Medium	NAO	No. 30, 15	See Condition # 16688
1502	DH F-57 HCU First Stage Feed	NAO	No. 15, 16	See Condition # 16688
1503	DH F-58 HCU Second Stage Feed	NAO	No. 15,16	See Condition # 16688
1504	DH F-59 HCU Second Stage Reboil	John Zink	MA-20, 12	See Condition # 16688
1505	DH F-60 HP1 Steam Methane Reformer	Custom Made	Custom Made	See Condition # 16688
1506	CP F-61 CGP Feed	NAO	No. 15, 4	See Condition # 16688
1507	UTIL CO Boiler 1	Custom Made	Custom Made	See Condition # 18618, Part 1
1508	CP F-63 CFH Feed	Lummus	Lummus	See Condition # 16688
1509	UTIL CO Boiler 2	J2	YS-24, 4	See Condition # 18618, Part 1
1510	CP F-66 CCU Preheat	NAO	No. 30, 12	See Condition # 16688
1511	CP F-67 CCU LGO Reboil	NAO	#25, 8	See Condition # 16688
1512	UTIL CO Boiler 3			See Condition # 18618, Part 1
1514	UTIL F-70 Boiler 4	Formey	MG/TTL-5, 4	See Condition # 16688
1515	DH F-71 HCU First Stage Reboil	NAO	No. 30, 8	See Condition # 16688
1523	LUBS Loading Rack Inside T/T	Custom Made	NA	NA
1524	LUBS Loading Rack Outside T/T AND T/C	Custom Made	NA	NA
1525	LUBS Loading Rack Paving T/T	Custom Made	NA	NA
1578	Sulfur Pit for Sulfur Plant 1	Custom Made	NA	NA
1579	Sulfur Pit for Sulfur Plant 2	Custom Made	NA	NA
1598	MAINT Gasoline Dispensing Facility	Service Station G7114, 2 gasoline nozzles	NA	NA
1650	MAINT Sandblasting Sand Hopper	Custom Made	NA	725 Cu.Ft.
1750	Tank 1218 Spent Acid	Custom Made	NA	200 Barrels

II. Equipment

Table II A - Permitted Sources

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

S#	Description	Make or Type	Model	Capacity
1751	Tank 1330	Custom Made, Fixed Roof	NA	6,344,775 Gallons
1752	Tank 1331	Custom Made, Fixed Roof	NA	6,344,775 Gallons
1753	Tank 1332 Gasoline	Custom Made, Fixed Roof	NA	9,136,477 Gallons
1754	Tank 1333 Gasoline	Custom Made, Fixed Roof	NA	9,136,477 Gallons
1755	Tank 1334 Gasoline	Custom Made, External Floating Roof	NA	4,314,447 Gallons
1756	Tank 1335 Gasoline	Custom Made, External Floating Roof	NA	4,314,447 Gallons
1757	Tank 1336	Custom Made, Fixed Roof	NA	4,060,656 Gallons
1758	Tank 1337	Custom Made, Fixed Roof	NA	4,060,656 Gallons
1759	OPCEN Flexicoker (FXU)	Custom Made	NA	See Condition # 18618, Part 1
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
1765	OPCEN Sulfur Plant 3 (SRU3)	Custom Made	NA	See Condition # 18618, Part 1
1766	Sulfur Pit for Sulfur Plant 3	Custom Made	NA	NA
1767	OPCEN V-1019 Coke Silo	CB&I	NA	1800 tons
1768	OPCEN V-1020 Coke Silo	CB&I	NA	1800 tons
1769	OPCEN V-1021 Dry Fines Silo	CB&I	NA	750 tons
1770	OPCEN C3/C4 Splitter	Custom Made	NA	NA
1771	OPCEN Flexigas Flare	John Zink	STF-V66	NA

II. Equipment

Table II A - Permitted Sources

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

S#	Description	Make or Type	Model	Capacity
1772	OPCEN Hydrocarbon Flare	John Zink	STF-S-25C	NA
1774	OPCEN Hydrogen Plant 2 (HP2)	Custom Made	NA	See Condition # 18618, Part 1
1778	Cooling Water Tower (CWT-50)	Marley	NA	NA
1779	OPCEN CPI Oil/Water Separator	Custom Made	NA	NA
1800	UTIL F-88 Boiler 5	Erie City, 23M Keystone	NA	See Condition # 16688
1802	LOGV-1533 Odorant Storage Tank	Custom Made	NA	2,000 Gallons
1803	OPCEN Coke Corral	Custom Made	NA	NA
1804	MAINT Paint Spray Booth and Facility Coating	Custom Made	NA	NA
1805	Tank 12038	Custom Made, Fixed Roof	NA	47,750 Gallon
1900	MAINT Machine Shop Parts Cleaner	Custom Made	NA	NA
1902	MAINT Seal Room Parts Cleaner	Custom Made	NA	NA
1903	MAINT Paint Shop Solvent Tub	Custom Made	NA	NA
2000	OPCEN Corrosion Inhibitor Injection	Custom Made	NA	NA
2001	LOG Marine Loading Berth 1	Custom Made	NA	NA
2002	LOG Marine Loading Berth 2	Custom Made	NA	NA
2003	LOG Marine Loading Berth 3	Custom Made	NA	NA
2004	LOG Marine Loading Berth 4	Custom Made	NA	NA
2007	LOG Dissolved Nitrogen Floatation Unit North ETP 1 (DNF)	Custom Made	NA	NA
2008	LOG Dissolved Nitrogen Floatation Unit South ETP 1 (DNF)	Custom Made	NA	NA
2010	LOG Wastewater Junction Boxes (Equipped with low-pressure water seals on select atmospheric vents)	Custom Made	NA	NA
2011	LOG Wastewater Collection Sumps (4)	Custom Made	NA	NA
2012	DH V-12378 Perchloroethylene Storage System	Custom Made	NA	3,217 Gallons
2013	Tank 12467	Custom Made, External	NA	6,299,393 Gallons

II. Equipment

Table II A - Permitted Sources

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

S#	Description	Make or Type	Model	Capacity
		Floating Roof		
2014	LOG Final ETP 1&2 Holding Ponds 5C and 5D	Custom Made	NA	8,000,000 Gallons
2445	Tank 12445	Custom Made, Internal Floating Roof	NA	8,590,994 Gallons
2446	Tank 12446	Custom Made, Internal Floating Roof	NA	8,590,994 Gallons
3000	Portable Vacuum Distillation Unit (CCR Technologies Inc.)	Custom Made	NA	See Condition # 18618, Part 1
4001	DC Delayed Coking Unit (DCU)	Custom Made	NA	See Condition # 18618, Part 1
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	See Condition # 18618, Part 1
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	See Condition # 18618, Part 1
4140	DC Heavy Cracked Gasoline Hydrotreater (HGHT)	Custom Made	NA	See Condition # 18618, Part 1
4141	DC F-14011 HGHT Feed	Custom Made	NA	See Condition # 16688
4160	DC Hydrogen Plant 3 (HP3)	Custom Made	NA	See Condition # 18618, Part 1
4161	DC H-101 HP3 Steam Methane Reformer	KTI 90 MMSCFD H2 Reformer	NA	See Condition # 16688
4180	OPCEN Sulfur Plant 4 (SRU4)	Custom Made	NA	See Condition # 18618, Part 1
4190	UTIL Boiler 6 Gas Turbine 1	GE	Frame 6	See Condition # 18618, Part 1

II. Equipment

Table II A - Permitted Sources

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

S#	Description	Make or Type	Model	Capacity
4191	UTIL Boiler 6 Supplemental Steam Generator 1	Custom-Made	NA	See Condition # 18618, Part 1
4192	UTIL Boiler 6 Gas Turbine 2	GE	Frame 6	See Condition # 18618, Part 1
4193	UTIL Boiler 6 Supplemental Steam Generator 2	Custom-Made	NA	See Condition # 18618, Part 1
4201	DC Clean Fuels Flare	John Zink	NA	NA
4210	Cooling Water Tower (CWT-13278)	Custom Made	NA	NA
4211	DC V-13222 ISOM Maintenance Drop Out Vessel	Custom Made	NA	NA
4212	DC V-13441 ISOM Maintenance Drop Out Vessel	Custom Made	NA	NA
4307	Tank 14687 MDEA Make-up	Custom Made, Fixed Roof	NA	6,200 Gallons
4309	Tank 14517 DEA	Custom Made, Fixed Roof	NA	17,000 Gallons
4310	Tank –13285 Sour Water	Custom Made, External Floating Roof	NA	4,200,000 Gallons
4311	DC V-12555 ISOM Perchloroethylene Vessel	Custom Made, Pressure Vessel	NA	1,785 Gallons
4319	Tank15096 Recovered Oil	Custom Made, Fixed Roof	NA	1,054,878 Gallons
4322	Tank14571 Sour Water	Custom Made, Internal Floating Roof	NA	710,896 Gallons
4329	Tank13260 Pentane	Custom Made, Pressure Vessel	NA	2,146,308 Gallons
4330	Tank13261 Pentane	Custom Made, Pressure Vessel	NA	2,146,,308 Gallons
4334	Tank13276 Alkylate	Custom Made, Fixed Roof	NA	4,231,613 Gallons
4338	LOG Pentane Loading Facility	Custom Made	NA	NA
4347	OPCEN Pit for Sulfur Plant 4	Custom Made	NA	NA
4349	Tank –13262 Pentane	Custom Made, Pressure Vessel	NA	2,146,308 Gallons

II. Equipment

Table II A - Permitted Sources

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

S#	Description	Make or Type	Model	Capacity
4350	LOG Tank 13187 Process Wastewater	Custom Made, Fixed Roof	NA	1,096,377 Gallons
4356	LOG Tank 13188 Process Wastewater	Custom Made, Fixed Roof	NA	1,096,377 Gallons
5112	LOG V-15112 Main Proto Vessel with Nitrogen Blanket	Custom Made, Fixed Roof	NA	1,300 Gallons
5113	LOG V-15113 Main Proto Vessel with Nitrogen Blanket	Custom Made, Fixed Roof	NA	1,300 Gallons
5114	LOG V-15114 Main Proto Vessel with Nitrogen Blanket	Custom Made, Fixed Roof	NA	1,300 Gallons
5115	LOG Dissolved Nitrogen Flotation Unit North ETP 2 (DNF)	Custom Made	NA	NA
5116	LOG Dissolved Nitrogen Flotation Unit South ETP 2 (DNF)	Custom Made	NA	NA
5117	LOG Biotreater Tank SPM-14121 ETP 2	Custom Made	NA	NA
5118	LOG SPM-14135 Bioclarifier ETP 2	Custom Made	NA	NA
5119	LOG SPM-14137 Bioclarifier ETP 2	Custom Made	NA	NAs
5121	LOG SPM-14111 DNF Float Tank ETP 2	Custom Made, Fixed Roof	NA	12,000 Gallons
5125	LOG V-15117 Standby Proto Vessel	Custom Made, Fixed Roof	NA	217 Gallons
6049	Standby Diesel Engine	Caterpillar	C4.4	132 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
6059	Diesel Engine	Caterpillar	1W6784	145 HP
6060	Diesel Engine	Ingersol	Cummings	450 HP

II. Equipment

Table II A - Permitted Sources

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

S#	Description	Make or Type	Model	Capacity
			Diesel	
6061	Flexicoker Unit (FXU) Transloading	NA	NA	450 tons/day
6062	Ethanol Tank	Internal Floating Roof	NA	15,000 bbl
6068	Heated Tank 22	Custom Made, Fixed Roof	NA	2,314,200 Gallons
6069	Tank 17596	Custom Made, External Floating Roof	NA	12,600,000 Gallons
6070	Tank 17597	Custom Made, External Floating Roof	NA	12,600,000 Gallons
6071	Tank 17598	Custom Made, External Floating Roof	NA	12,600,000 Gallons
6072	Tank 17595	Custom Made, External Floating Roof	NA	2,310,000 Gallons
6073	Diesel Engine	Caterpillar	NA	700 HP
7000	ETP-3 Aeration Tank and Clarifier	Custom Made	NA	NA
12490	LOG Tank 12519 Wastewater ETP 1&2	Custom Made, External Floating Roof	NA	7,402,238 Gallons
12491	LOG Tank 12520 Wastewater ETP 1&2	Custom Made, External Floating Roof	NA	7,402,238 Gallons
17095	Tank 17095	Custom Made, External Floating Roof	NA	90,648 bbl

Table II B – Abatement Devices

Abatement Device	Description	Source(s) Controlled	Applicable Requirement	Operating Parameters	Limit or Efficiency
A1	Mist Eliminator	S24	None	None	None

II. Equipment

Table II B – Abatement Devices

Abatement Device	Description	Source(s) Controlled	Applicable Requirement	Operating Parameters	Limit or Efficiency
A3	Mist Eliminator	S552, S553, S554, S555, S556, S557, S558, S559,	None	None	None
A3	Mist Eliminator	S1523	Condition # 4101	None	None
A4	Mist Eliminator	S560, S561, S815, S985	None	None	None
A5	Mist Eliminator	S567	None	None	None
A6	Mist Eliminator	S1043, S1044, S1045	None	None	None
A7	Mist Eliminator	S1048, S1525	None	None	None
A10	Mist Eliminator	S1160	None	None	None
A12	Electrostatic Precipitator 1	S1426, S1507	BAAQMD Regulation 6-1-301	None	Ringelmann No. 1 for ≤ 3 minutes in any hour
A13	Electrostatic Precipitator 2	S1426, S1509	BAAQMD Regulation 6-1-301	None	Ringelmann No. 1 for ≤ 3 minutes in any hour
A14	Electrostatic Precipitator 3	S1426, S1512	BAAQMD Regulation 6-1-301	None	Ringelmann No. 1 for ≤ 3 minutes in any hour
A22	Vent Gas Compressors (3) for Vacuum Flasher Unit	S1421	None	None	None
A23	Vapor Control for Gasoline Dispensing Facility	S1598	Regulation 8-7-301 & 302	None	None

II. Equipment

Table II B – Abatement Devices

Abatement Device	Description	Source(s) Controlled	Applicable Requirement	Operating Parameters	Limit or Efficiency
A25	Vapor Recovery System #2, 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
A26	Vapor Recovery System J-150 #1, for Interim Gasoline Storage Tanks	S13, S14, S19, S20, S534, S1139, S1140, S1141, S5112, S5113, S5114, S5125	Regulation 8-5-306	None	Abatement efficiency of at least 95% by weight

II. Equipment

Table II B – Abatement Devices

Abatement Device	Description	Source(s) Controlled	Applicable Requirement	Operating Parameters	Limit or Efficiency
A33	LOP Vapor Recovery System	S1114, S1115, S1417, S1420, S1421, S1423, S1424, S1425, S1426, S1427, S1428, S1429, S1430 S1433, S1434, S1435, S1436, S1445, S1446, S1447, S1448, S1449, S2012	Regulation 8-5-306, 8-28-303, 40CFR60.112b (a)(3)(i); and 40 CFR 60.112b(a)(3)(ii)	None	Abatement efficiency of at least 95% by weight
A52	SCOT No. 1	S1431	Regulation 9-1-307	None	250 ppmv SO2 dry, at 0% oxygen
A53	Mist Eliminator	S571, S572, S573, S1524	None	None	None
A54	Mist Eliminator	S867, S868	None	None	None

II. Equipment

Table II B – Abatement Devices

Abatement Device	Description	Source(s) Controlled	Applicable Requirement	Operating Parameters	Limit or Efficiency
A56	Vapor Recovery System #3, J-186 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	None	None	None
A57	Mist Eliminator	S6068	Condition # 23605 Part 5 (applies when tank is in asphalt storage service only)	None	Opacity ≤ 0 percent, except for one consecutive 15-minute period in any 24-hour period when the transfer lines at S6068 are being blown for clearing.
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	BAAQMD Regulation 6-1-301	None	Ringelmann No. 1 for ≤ 3 minutes in any hour
A100	Thermal Oxidizer for Marine Vapor Recovery System	S2001, S2002, S2003, S2004	Regulation 8-44-304.1, SIP 8-44-301, and Condtion 4288 Part 6	Temperature > 1400 °F	Destruction efficiency ≥ 95 weight%

II. Equipment

Table II B – Abatement Devices

Abatement Device	Description	Source(s) Controlled	Applicable Requirement	Operating Parameters	Limit or Efficiency
A751	Flexsorb® system	S1759	Condition # 7618 Part E2	None	H2S limits in Flexigas
A771	Temporary Supplemental Baghouse for Flexicoker	S1769	Condition # 20755 Part 1 and 2	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
A1426	Baghouse for CCU Spent Catalyst Hopper (Portable)	S1426	BAAQMD Regulation 6-1-301	None	Ringelmann No. 1 for ≤ 3 minutes in any hour
A1427	Baghouse for Catalyst Additive Storage and Injection System for CCU	S1426	Condition 12911, Part 2	None	Ringelmann No. 0.5 ≤ 3 minutes in any hour
A1431	SCOT No. 2	S1432	Regulation 9-1-307	None	250 ppmv SO2 dry, at 0% oxygen
A1465	Water Scrubber for LOP Gross Oil Separator	S1465	None	None	None
A1467	Carbon Adsorption Vessel for LOP Gross Oil Separator	S1465	None	None	None
A1469	Wastewater Separator Scrubber 1 (ETP 1)	S1469	None	None	None
A1470	Wastewater Separator Scrubber 2 (ETP 1)	S1469	None	None	None
S1470	LOG LPG Loading Flare	S4338	None	None	None
A1471	Wastewater Separator Scrubber 3	S1469	None	None	None

II. Equipment

Table II B – Abatement Devices

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

II. Equipment

Table II B – Abatement Devices

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

II. Equipment

Table II B – Abatement Devices

Abatement Device	Description	Source(s) Controlled	Applicable Requirement	Operating Parameters	Limit or Efficiency
A1501	F-56 Backup Thermal Oxidizer for Sulfur Plants 1 and 2	S1431, S1432, S1578, S1579	Regulation 9-1-307	None	250 ppmv SO2 dry, at 0% oxygen
A1501	F-56 Backup Thermal Oxidizer for Sulfur Plants 1 and 2	S1431, S1432, S1578, S1579	NSPS J 40 CFR 60.104(a)(2)	None	≤ 250 ppmvd SO2 at 0% oxygen, 12-hour rolling average
S1507	UTIL CO Boiler 1	S1426	None	None	None
S1509	UTIL CO Boiler 2	S1426	None	None	None
S1512	UTIL CO Boiler 3	S1426	None	None	None
A1517	F-77 Primary Thermal Oxidizer for Sulfur Plants 1 and 2	S1431, S1432, S1578, S1579	Regulation 9-1-307	None	250 ppmv SO2 dry, at 0% oxygen
A1517	F-77 Primary Thermal Oxidizer for Sulfur Plants 1 and 2	S1431, S1432, S1578, S1579	NSPS J 40 CFR 60.104(a)(2)	None	≤ 250 ppmvd SO2 at 0% oxygen, 12-hour rolling average
A1541	Mist Eliminator		BAAQMD Regulation 6-1-301	None	Ringelmann No. 1 for ≤ 3 minutes in any hour
A1765	Scrubber for Sulfur Loading Rack Vent	S1765, 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

II. Equipment

Table II B – Abatement Devices

Abatement Device	Description	Source(s) Controlled	Applicable Requirement	Operating Parameters	Limit or Efficiency
S1772	OPCEN Hydrocarbon Flare	S1759, S1764, S1770, S1774	None	None	None
A1779	Scrubber No. 1 for CPI Separator Water	S1779	None	None	None
A1780	Scrubber No. 2 for CPI Separator Water	S1779	None	None	None
A1781	Carbon Adsorber w/ Water Scrubber No. 1 for CPI Separator	S1779	None	None	None
A1782	Carbon Adsorber w/ Water Scrubber No. 2 for CPI Separator	S1779	None	None	None
A1803	Water Spray Sprinklers for OPCEN Coke Corral	S1803	BAAQMD Regulation 6-1-301 & Condition # 4041 Parts 3 and 4	None	Ringelmann No. 0.5 ≤ 3 minutes in any hour
A1805	Carbon Adsorption (2 Canisters)	S1805	Condition # 4298 Parts 5 and 6 and 40CFR61.354 (d) and 40CFR61.349 (a)(2)(ii)	None	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

II. Equipment

Table II B – Abatement Devices

Abatement Device	Description	Source(s) Controlled	Applicable Requirement	Operating Parameters	Limit or Efficiency
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
A2017	DNF Outlet Sump Water Scrubber (ETP 1)	S2007, S2008	None	None	None
A2020	DNF Outlet Sump Carbon Adsorption for Water Scrubber (ETP 1)	S2007, S2008	None	None	None
A2023	Thermal Oxidizer for SCOT No. 3	S1765, S1766	Regulation 9-1-307	None	≤ 250 ppmv SO2 dry, at 0% oxygen
A2023	Thermal Oxidizer for SCOT No. 3	S1765, S1766	NSPS J 40 CFR 60.104(a)(2) & Condition # 19748, Part 7	Temperature ≥ 1,000 F	≤ 250 ppmvd SO2 at 0% oxygen, 12-hour rolling average
A4002	SCR No. 1 for Delayed Coking Unit	S4002	Condition # 12271 Part 35	None	NOx ≤ 10 ppmv, dry @ 3% O_2, averaged over 3 hr
A4003	SCR No. 2 for Delayed Coking Unit	S4003	Condition # 12271 Part 35	None	NOx ≤ 10 ppmv, dry @ 3% O_2, averaged over 3 hr
A4005	Particulate Collection Device for Delayed Coking Unit for Coke Barn	S4005	Condition # 12271 Part 79	None	0.01 grain/DSCF

II. Equipment

Table II B – Abatement Devices

Abatement Device	Description	Source(s) Controlled	Applicable Requirement	Operating Parameters	Limit or Efficiency
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 @ 3% O_2, averaged over 3 hr
A4161	SCR for Hydrogen Plant 3 Steam Methane Reformer	S4161	Condition # 12271 Part 29	None	NOx ≤ 10ppmv, dry @ 3% O_2, averaged over 3 hr
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%
A4181	Thermal Oxidizer for Sulfur Plants 3 and 4 and 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

II. Equipment

Table II B – Abatement Devices

Abatement Device	Description	Source(s) Controlled	Applicable Requirement	Operating Parameters	Limit or Efficiency
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
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

II. Equipment

Table II B – Abatement Devices

Abatement Device	Description	Source(s) Controlled	Applicable Requirement	Operating Parameters	Limit or Efficiency
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
S601	Flare for Vine Hill Vapor Recovery System #2	S610, S611, S612, S613, S1133, S1134, S1751, S1752, S1753, S1754, S1757, S1758, S4334	Condition # 7761 Part 6	None	None
S602	Flare for Crude String Vapor Recovery System #3	S483, S484, S530, S532, S4319, S4350, S4356	Condition # 7761 Part 11	None	None
S603	Flare for Interim Gasoline Vapor Recovery System #1	S13, S14, S19, S20, S534, S1139, S1140, S1141	Condition # 7761 Part 1	None	None

II. Equipment

Table II B – Abatement Devices

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

II. Equipment

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

Table II C – 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
49	Tank 49	2-1-123.3.2 2-1-123.3.3
50	Tank 50	2-1-123.3.2 2-1-123.3.3
53	Tank 53	2-1-123.3.2 2-1-123.3.3
130	Tank 130	2-1-123.3.2
145	Tank 145	2-1-123.3.2 2-1-123.3.3
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

II. Equipment

Table II C – Exempt Source List of Tanks

Source Number	Source Description	Permit Exemption
263	Tank 263	2-1-123.3.2 2-1-123.3.3
267	Tank 267	2-1-123.3.2 2-1-123.3.3 2-1-123.10
332	Tank 332	2-1-123.3.2 2-1-123.3.3
334	Tank 334	2-1-123.3.2
335	Tank 335	2-1-123.3.2
336	Tank 336	2-1-123.3.2
337	Tank 337	2-1-123.3.2
356	Tank 356	2-1-123.3.2 2-1-123.3.3
393	Tank 393	2-1-123.3.2 2-1-123.3.3
394	Tank 394	2-1-123.3.2 2-1-123.3.3
400	Tank 400	2-1-123.3.2 2-1-123.3.3
401	Tank 401	2-1-123.3.2
419	Tank 419	2-1-123.3.3
467	Tank 467	2-1-123.3.3
468	Tank 468	2-1-123.3.3
475	Tank 475	2-1-123.3.2
476	Tank 476	2-1-123.3.2
477	Tank 477	2-1-123.3.2 2-1-123.3.3
478	Tank 478	2-1-123.3.2 2-1-123.3.3
485	Tank 485	2-1-123.3.2
536	Tank 536	2-1-123.3.2

II. Equipment

Table II C – Exempt Source List of Tanks

Source Number	Source Description	Permit Exemption
537	Tank 537	2-1-123.3.2
597	Tank 597	2-1-123.3.2 2-1-123.3.3
608	Tank 608	2-1-123.3.2
609	Tank 609	2-1-123.3.2
713	Tank 713	2-1-123.3.2
714	Tank 714	2-1-123.3.2
806	Tank 806	2-1-123.3.2 2-1-123.3.3
814	Tank 814	2-1-123.3.2 2-1-123.3.3
833	Tank 833	2-1-123.3.2 2-1-123.3.3
834	Tank 834	2-1-123.3.2 2-1-123.3.3
835	Tank 835	2-1-123.3.2
839	Tank 839	2-1-123.3.2 2-1-123.3.3
850	Tank 850	2-1-123.3.3
851	Tank 851	2-1-123.3.2 2-1-123.3.3
869	Tank 869	2-1-123.3.2 2-1-123.3.3
879	Tank 879	2-1-123.3.2 2-1-123.3.3
888	Tank 888	2-1-103
890	Tank 890	2-1-123.3.2 2-1-123.3.3
902	Tank 902	2-1-123.3.2 2-1-123.3.3

II. Equipment

Table II C – Exempt Source List of Tanks

Source Number	Source Description	Permit Exemption
903	Tank 903	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
953	Tank 953	2-1-123.3.2 2-1-123.3.3
954	Tank 954	2-1-123.3.2 2-1-123.3.3
955	Tank 955	2-1-123.3.2 2-1-123.3.3
956	Tank 956	2-1-123.3.2 2-1-123.3.3
959	Tank 959	2-1-123.3.2 2-1-123.3.3
962	Tank 962	2-1-123.3.2
965	Tank 965	2-1-123.3.2
966	Tank 966	2-1-123.3.2

II. Equipment

Table II C – Exempt Source List of Tanks

Source Number	Source Description	Permit Exemption
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
1003	Tank 1003	2-1-123.3.3
1012	Tank 1012	2-1-123.3.2 2-1-123.3.3
1020	Tank 1020	2-1-123.2
1027	Tank 1027	2-1-123.3.2
1032	Tank 1032	2-1-123.3.2 2-1-123.3.3
1034	Tank 1034	2-1-123.3.3
1047	Tank 1047 (Butane Sphere)	2-1-123.3.1
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

II. Equipment

Table II C – Exempt Source List of Tanks

Source Number	Source Description	Permit Exemption
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
1062	Tank 1062	2-1-123.3.2 2-1-123.3.3
1066	Tank 1066	2-1-123.3.2 2-1-123.3.3
1068	Tank 1068	2-1-123.2
1069	Tank 1069	2-1-123.3.2 2-1-123.3.3
1073	Tank 1073	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

II. Equipment

Table II C – Exempt Source List of Tanks

Source Number	Source Description	Permit Exemption
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
1132	Tank 1132	2-1-123.3.2
1142	Tank 1142	2-1-123.3.2
1143	Tank 1143	2-1-123.3.2
1144	Tank 1144	2-1-123.3.2
1149	V 1049 Butane Sphere	2-1-123.3.1
1150	V 1150 Butane Sphere	2-1-123.3.1
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
1174	Tank 1174	2-1-123.3.3
1175	Tank 1175	2-1-123.3.3

II. Equipment

Table II C – Exempt Source List of Tanks

Source Number	Source Description	Permit Exemption
1190	Tank 1190	2-1-123.3.3
1231	Tank 1231 Fresh DEA	2-1-123.3.2 2-1-123.3.3
1347	Tank 1347	2-1-123.3.2
1348	Tank 1348	2-1-123.3.2
1780	Tank 1338 Butane Sphere	2-1-123.3.1
1781	Tank 1341 Propane Bullet	2-1-123.3.1
2006	Tank 906 Caustic Service	2-1-123.2
5123	LOG V-15115 Standby Proto Vessel	2-1-123.1
5124	LOG V-15116 Standby Proto Vessel	2-1-123.1
12166	Tank 12166	2-1-123.2

III. GENERALLY APPLICABLE REQUIREMENTS

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

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

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

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

NOTE: There are differences between the current BAAQMD rules and the versions of the rules in the SIP. All sources must comply with <u>both</u> 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 (05/04/11)	N
SIP Regulation 1	General Provisions and Definitions (6/28/99)	Y - note 1
BAAQMD Regulation 2, Rule 1	General Requirements (12/06/17)	N
BAAQMD Regulation 2-1-429	Federal Emissions Statement (12/21/04)	Y
BAAQMD Regulation 4	Air Pollution Episode Plan (3/20/91)	N
SIP Regulation 4	Air Pollution Episode Plan (5/28/90)	Y - note 1
BAAQMD Regulation 5	Open Burning (06/19/13)	N

III. Generally Applicable Requirements

Table III
Generally Applicable Requirements

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)
SIP Regulation 5	Open Burning (9/4/98)	Y - note 1
BAAQMD Regulation 6, Rule 1	Particulate Matter, General Requirements (08/01/18)	N
SIP Regulation 6	Particulate Matter (9/4/98)	Y
BAAQMD Regulation 7	Odorous Substances (3/17/82)	N
BAAQMD Regulation 8, Rule 1	Organic Compounds - General Provisions (6/15/94; SIP approved 3/22/95)	Y
BAAQMD Regulation 8, Rule 2	Organic Compounds – Miscellaneous Operations (07/20/05)	N
SIP Regulation 8, Rule 2	Organic Compounds – Miscellaneous Operations (3/22/95)	Y
BAAQMD Regulation 8, Rule 3	Organic Compounds - Architectural Coatings (7/1/09)	N
SIP Regulation 8, Rule 3	Organic Compounds - Architectural Coatings (01/02/04)	Y
BAAQMD Regulation 8, Rule 4	Organic Compounds - General Solvent and Surface Coating Operations (10/16/02; SIP approved 8/26/03)	Y
BAAQMD Regulation 8, Rule 16, Section 302.1	Organic Compounds – Solvent Cleaning Operations, Conveyorized Solvent Cleaner Requirements, General Requirements (10/16/2002; SIP approved 8/26/03)	Y
BAAQMD Regulation 8, Rule 16, Section 302.2	Organic Compounds – Solvent Cleaning Operations, Conveyorized Solvent Cleaner Requirements, General Equipment Requirements (10/16/2002; SIP approved 8/26/03)	Y
BAAQMD Regulation 8, Rule 16, Section 302.3	Organic Compounds – Solvent Cleaning Operations, Conveyorized Solvent Cleaner Requirements, Requirements when using a volatile solvent (10/16/2002; SIP approved 8/26/03)	Y
BAAQMD Regulation 8, Rule 19, Section 307	Organic Compounds – Surface Coating of Miscellaneous Metal Parts and Products, Prohibition of Specification (10/16/2002; SIP approved 8/26/03)	Y
BAAQMD Regulation 8, Rule 19, Section 320	Organic Compounds – Surface Coating of Miscellaneous Metal Parts and Products, Solvent Evaporative Loss Minimization (10/16/2002; SIP approved 8/26/03)	Y
BAAQMD Regulation 8, Rule 40	Organic Compounds – Aeration of Contaminated Soil and Removal of Underground Storage Tanks (06/15/05,	N
SIP Regulation 8, Rule 40	Organic Compounds – Aeration of Contaminated Soil and Removal of Underground Storage Tanks (4/19/01)	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 47	Organic Compounds - Air Stripping and Soil Vapor Extraction Operations (6/15/05)	N
SIP Regulation 8, Rule 47	Organic Compounds - Air Stripping and Soil Vapor Extraction Operations (4/26/95)	Y
BAAQMD Regulation 8, Rule 49	Organic Compounds - Aerosol Paint Products (12/20/95)	N
SIP Regulation 8, Rule 49	Organic Compounds - Aerosol Paint Products (3/22/95)	Y - note 1
BAAQMD Regulation 8, Rule 51	Organic Compounds - Adhesive and Sealant Products (7/17/02)	N
SIP Regulation 8, Rule 51	Organic Compounds - Adhesive and Sealant Products (2/26/02)	Y - note 1
BAAQMD Regulation 9, Rule 1	Inorganic Gaseous Pollutants - Sulfur Dioxide (3/15/95)	N
SIP Regulation 9, Rule 1	Inorganic Gaseous Pollutants - Sulfur Dioxide (6/8/99)	Y
BAAQMD Regulation 9, Rule 1-110	Conditional Exemption for facilities performing SO2 Area Monitoring (GLM). (05/20/92)	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)	N
BAAQMD Regulation 11, Rule 10	Hexavalent Chromium from All Cooling Towers and Total Hydrocarbon Emissions from Petroleum Refinery Cooling Towers (12/16/15)	N
BAAQMD Regulation 11, Rule 18	Reduction of Risk from Air Toxic Emissions at Existing Facilities (11/15/17)	N
BAAQMD Regulation 12, Rule 4	Miscellaneous Standards of Performance - Sandblasting (7/11/90)	N
SIP Regulation 12, Rule 4	Miscellaneous Standards of Performance - Sandblasting (9/2/81)	Y - note 1
BAAQMD Regulation 12, Rule 15	Petroleum Refining Emissions Tracking (04/20/16)	N
BAAQMD Regulation 14, Rule 1	Mobile Source Emission Reduction Methods – Bay Area Commuter Benefits Program (3/19/14)	N
California Health and Safety Code Section 41750 et seq.	Portable Equipment	N
California Health and Safety Code Section 44300 et seq.	Air Toxics “Hot Spots” Information and Assessment Act of 1987	N
California Health and Safety Code Title 17, Section 93115	Airborne Toxic Control Measure for Stationary Compression Ignition Engines (5/19/11)	N

III. Generally Applicable Requirements

Table III
Generally Applicable Requirements

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)
California Health and Safety Code Title 17, Section 93116	Airborne Toxic Control Measure for Diesel Particulate Matter from Portable Engines Rated at 50 Horsepower and Greater (2/19/11)	N
40 CFR Part 61, Subpart M	National Emission Standards for Hazardous Air Pollutants – National Emission Standard for Asbestos (07/20/04)	Y
EPA Regulation 40 CFR 82	Protection of Stratospheric Ozone (12/28/07)	Y
Subpart F, 40 CFR 82.156	Leak Repair (04/13/05)	Y
Subpart F, 40 CFR 82.161	Certification of Technicians (04/13/05)	Y
Subpart F, 40 CFR 82.166	Records of Refrigerant (04/13/05)	Y
40 CFR Part 82, Subpart H	Protection of Stratospheric Ozone; Halon Emissions Reduction (03/05/98)	Y
Title 40 CFR Part 82 Subpart H 82.270(b)	Prohibitions, Halon (03/05/98)	Y

Note 1: The District has amended sections of this regulation that are aplicable to the facility; as of this date, USEPA has not approved inclusion of these amendments into the SIP. Therefore, the facility must comply with the provisions of this regulation unless and until USEPA approves inclusion of the amended sections into the SIP.

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

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

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

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

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

The full text of each permit condition cited is included in Section VI, Permit Conditions, of this permit. The full language of SIP requirements is on EPA Region 9's website. The address is http://yosemite.epa.gov/r9/r9sips.nsf/Agency?ReadForm&count=500&state=California&cat=Bay+Area+Air+Quality+Management+District-Agency-Wide+Provisions. All other text may be found in the regulations themselves.

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 8, Rule 5	**Organic Compounds, Storage of Organic Liquids (10/18/06)**		
8-5-117	Limited Exemption, Low Vapor Pressure	N	
SIP · Regulation 8, Rule 5	**Storage of Organic Liquids (06/05/03)**		
8-5-117	Exemption, Low Vapor Pressure	Y	
NESHAP 40 CFR 63 Subpart CC	**NESHAP for Petroleum Refineries REQUIREMENTS FOR RECORDKEEPING ONLY – GROUP 2 TANKS(7/13/16)**		

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
The tanks in this table will be subject to the provisions of 40 CFR 63.646 and the referenced requirements of 40 CFR 63, Subpart G until compliance with 40 CFR 63.660 and the referenced requirements contained in 40 CFR 63, Subpart WW is demonstrated, as specified in 40 CFR 63.640(h), 63.660, and 63.1063			
63.642(e)	**General recordkeeping requirements:** Time period for keeping records, unless specified otherwise. 63.642(e) & 63.655(i)(6) **keep all other records** **5 years,** **retrievable within 24 hr**	Y	
	General recordkeeping requirements: Keep all reports and notification for the specified period of time. 63.642(e) & 63.655(i)(6) **required**	Y	
63.655(i)	**Applicability records:** Time period for keeping records of applicability determination, unless specified otherwise. 63.655(i)(1) 63.123(a) **Keep record readily accessible for the service life of the tank**	Y	
	Applicability records: Records of dimensions & capacity required for non-exempt tanks? 63.655(i)(1) 63.123(a) **Required** **Keep record readily accessible for service life of the tank** *	Y	
	Applicability records: Additional recordkeeping requirements for certain tanks. 63.655(i)(1)(iv) and (vi) **determination of HAP content** **Keep record readily accessible for service life of the tank**	Y	
BAAQMD Condition # 6111	Applies to S549		
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 – 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 Condition # 18618	Applies to S3, S4, S257, S548, S549, and S967		
Part 1	Throughput limit (basis: Regulation 2-1-234.3, 2-1-307)	N	
Part 2	Recordkeeping (basis: Regulation 2-1-234.3, 2-1-307)	N	
BAAQMD Condition # 25134	Applies to S967		
Part 10	Annual throughput limit for S967 [basis: Cumulative Increase, offsets, CEQA]	Y	
Part 11	Annual POC emission limit for S967 [basis: Cumulative Increase, Offsets, CEQA]	Y	
Part 12	Materials stored criteria in S967 [basis: Cumulative Increase, Regulation 2, Rule 5]	Y	
Part 13	District-approved log for recordkeeping [basis: Cumulative Increase, Recordkeeping]	Y	
Part 30	Reporting: Annual report to the District's Engineering Division [basis: CEQA, Recordkeeping]	Y	
Part 31	Reporting: Any non-compliance with emission limits [basis: CEQA, Recordkeeping]	Y	

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Condition # 18618			
Part 1	Throughput limit (basis: Regulation 2-1-234.3, 2-1-307)	N	
Part 2	Recordkeeping (basis: Regulation 2-1-234.3, 2-1-307)	N	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

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

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

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 8, Rule 5	**Organic Compounds, Storage of Organic Liquids (10/18/06)**		
8-5-117	Limited Exemption, Low Vapor Pressure	N	
SIP · Regulation 8, Rule 5	**Storage of Organic Liquids (06/05/03)**		
8-5-117	Exemption, Low Vapor Pressure	Y	
NESHAP 40 CFR 63 Subpart CC	**NESHAP for Petroleum Refineries REQUIREMENTS FOR RECORDKEEPING ONLY – GROUP 2 TANKS (7/13/16)**		
The tanks in this table will be subject to the provisions of 40 CFR 63.646 and the referenced requirements of 40 CFR 63, Subpart G until compliance with 40 CFR 63.660 and the referenced requirements contained in 40 CFR 63, Subpart WW is demonstrated, as specified in 40 CFR 63.640(h), 63.660, and 63.1063			
63.642(e)	**General recordkeeping requirements:** Time period for keeping records, unless specified otherwise. 63.642(e) & 63.655(i)(6) **keep all other records 5 years, retrievable within 24 hr**	Y	
	General recordkeeping requirements: Keep all reports and notification for the specified period of time. 63.642(e) & 63.655(i)(6) **required**	Y	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

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

Applicable Requirement	Regulation Title or Description of Requirement		Federally Enforceable (Y/N)	Future Effective Date
63.655(i)	**Applicability records:** Time period for keeping records of applicability determination, unless specified otherwise.	63.655(i)(1) 63.123(a) **Keep record readily accessible for the service life of the tank**	Y	
	Applicability records: Records of dimensions & capacity required for non-exempt tanks?	63.655(i)(1) 63.123(a) **Required** **Keep record readily accessible for service life of the tank** *	Y	
	Applicability records: Additional recordkeeping requirements for certain tanks.	63.655(i)(1)(iv) and (vi) **determination of HAP content** **Keep record readily accessible for service 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
S14 - TANK 14, S19 - TANK 19, S20 – TANK 20, S483 - TANK 483, S484 - TANK 484, S530 - TANK 530, S534 – TANK 534, S610 - TANK 610, S611 - TANK 611, S612 - TANK 612, S613 – TANK 613, , 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 Regulation 8 Rule 5	**Organic Compounds - STORAGE OF ORGANIC LIQUIDS (10/18/06)**		
8-5-111	Tank Removal From and Return to Service	N	
8-5-111.1	Notification	N	
8-5-111.2	Tank in compliance at time of notification	N	
8-5-111.4	Use vapor recovery during filling and emptying tanks so equipped	Y	
8-5-111.5	Minimize emissions and, if required, degas per 8-5-328	N	
8-5-111.6	Self report if out of compliance during exemption period	N	
8-5-112	Tanks in Operation – maintenance and inspection	N	
8-5-112.1	Notification	N	
8-5-112.2	Tank in compliance at time of notification	N	
8-5-112.3	No product movement, Minimize emissions	Y	
8-5-112.4	Tanks in Operation – maintenance and inspection; Not to exceed 7 days	N	
8-5-112.5	Self report if out of compliance during exemption period	N	
8-5-112.6	Keep records for each exemption	N	
8-5-118	Gas Tight Requirement for approved emission control system in 8-5-306.2 does not apply if facility is subject to BAAQMD 8-18	N	
8-5-301	Storage Tank Control Requirements	N	
8-5-303	Requirements for Pressure Vacuum Valve	N	
8-5-303.1	Requirements for Pressure Vacuum Valves; Set pressure	N	
8-5-303.2	Requirements for Pressure Vacuum Valves; Gas tight requirement	N	
8-5-306	Requirements for Approved Emission Control Systems	N	
8-5-306.1	Requirements for approved Emission Control System; Abatement Efficiency >=95%	N	
8-5-307	Requirements for fixed roof tanks, pressure tanks and blanketed tanks	N	
8-5-307.1	Requirements for fixed roof tanks, pressure tanks and blanketed tanks; no liquid leakage through shell	N	
8-5-328	Tank Degassing Requirements	N	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-5-328.1	Tank degassing requirements; Tanks > 75 cubic meters	N	
8-5-328.2	Tank degassing requirements; Ozone Excess Day Prohibition	N	
8-5-328.3	Tank degassing requirements; BAAQMD notification required	N	
8-5-331	Tank cleaning requirements; 90% Abatement efficiency if abatement device used	N	
8-5-331.1	Tank cleaning requirements; Cleaning materials properties	N	
8-5-331.2	Tank cleaning requirements; Steam cleaning prohibition	N	
8-5-331.3	Tank cleaning requirements; Steam cleaning exceptions	N	
8-5-332	Sludge Handling Requirements (applies to sludge removed from any tank that was subject to BAAQMD 8-5 at any time since it was last put in service)	N	
8-5-332.1	Sludge Handling Requirements; sludge container no leaks	N	
8-5-332.2	Sludge Handling Requirements; sludge container gap requirements	N	
8-5-403	Inspection Requirements for Pressure Relief Devices	N	
8-5-403.1	Inspection Requirements for Pressure Relief Devices; Pressure vacuum valves gas tight standards in 8-5-303	N	
8-5-404	Inspection, Abatement Efficiency Determination and Source Test Reports	N	
8-5-501	Records	Y	
8-5-501.1	Records; Type and amount of liquid, type of blanket gas, TVP- Retain 24 months	N	
8-5-501.3	Records; Retention	N	
8-5-501.4	Records; New pressure vacuum valve setpoints	N	
8-5-502	Annual Source Test Requirement and Exemption for Sources Vented to Fuel Gas	N	
8-5-502.1	Source Test Requirements; Annual source test for approved emission control systems and abatement devices for 8-5-303.2, 8-5-306.1, 8-5-307.3	N	
8-5-502.2	Source test requirements; Tank degassing and cleaning abatement devices	N	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

Table IV – D
Source-specific Applicable Requirements
S14 - TANK 14, S19 - TANK 19, S20 – TANK 20, S483 - TANK 483, S484 - TANK 484, S530 - TANK 530, S534 – TANK 534, S610 - TANK 610, S611 - TANK 611, S612 - TANK 612, S613 – TANK 613, , 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
SIP Regulation 8 Rule 5	**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	
8-5-303	Requirements for Pressure Vacuum Valve	Y	
8-5-306	Requirements for Approved Emission Control Systems	Y	
8-5-328	Tank Degassing Requirements	Y	
8-5-403	Inspection Requirements for Pressure Vacuum Valves	Y	
8-5-404	Certification	Y	
8-5-501.1	Records	Y	
8-5-502	Tank Degassing Annual Source Test Requirement	Y	
8-5-503	Portable Hydrocarbon Detector	Y	
BAAQMD Condition # 7618	Applies to S14, S20, S483, S484, S530, S1139, S1140 and S1141		
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	
BAAQMD Condition # 18618	Applies to S14, S19, S20, S483, S484, S530, S610, S611, S612, S613, S1133, S1134, S1139, S1140		
Part 1	Throughput limit (basis: Regulation 2-1-234.3, 2-1-307)	N	
Part 2	Recordkeeping (basis: Regulation 2-1-234.3, 2-1-307)	N	
BAAQMD Condition # 18646	Applies to S19 and S1139		
Part 1	Throughput limit [basis: Cumulative Increase]	Y	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 2a	Material storage limit [basis: Cumulative Increase]	Y	
Part 2bi	Material storage limit [basis: Cumulative Increase]	Y	
Part 2bii	Material storage limit [basis: Cumulative Increase; Toxics]	N	
Part 3	Abatement requirement [basis: BACT/TBACT]	Y	
Part 4	Storage conditions [basis: Cumulative Increase]	Y	
BAAQMD Condition # 20398	Applies to S534 and S1141		
Part 1	Throughput limit (basis: Cumulative Increase)	Y	
Part 2	RVP limit (basis: Cumulative Increase)	Y	
Part 3	Abatement requirement (basis: BACT, Cumulative Increase)	Y	
Part 4	Recordkeeping (basis: Cumulative Increase)	Y	

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 8 Rule 5	**Organic Compounds - STORAGE OF ORGANIC LIQUIDS (10/18/06)**		
8-5-111	Tank Removal From and Return to Service	N	
8-5-111.1	Notification	N	
8-5-111.2	Tank in compliance at time of notification	N	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

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

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

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-5-331.3	Tank cleaning requirements; Steam cleaning exceptions	N	
8-5-332	Sludge Handling Requirements (applies to sludge removed from any tank that was subject to BAAQMD 8-5 at any time since it was last put in service)	N	
8-5-332.1	Sludge Handling Requirements; sludge container no leaks	N	
8-5-332.2	Sludge Handling Requirements; sludge container gap requirements	N	
8-5-403	Inspection Requirements for Pressure Relief Devices	N	
8-5-403.1	Inspection Requirements for Pressure Relief Devices; Pressure vacuum valves gas tight standards in 8-5-303	N	
8-5-404	Inspection, Abatement Efficiency Determination and Source Test Reports	N	
8-5-501	Records	Y	
8-5-501.1	Records; Type and amount of liquid, type of blanket gas, TVP- Retain 24 months	N	
8-5-501.3	Records; Retention	N	
8-5-501.4	Records; New pressure vacuum valve setpoints	N	
8-5-502	Annual Source Test Requirement and Exemption for Sources Vented to Fuel Gas	N	
8-5-502.1	Source Test Requirements; Annual source test for approved emission control systems and abatement devices for 8-5-303.2, 8-5-306.1, 8-5-307.3	N	
8-5-502.2	Source test requirements; Tank degassing and cleaning abatement devices	N	
SIP Regulation 8 Rule 5	**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	
8-5-303	Requirements for Pressure Vacuum Valve	Y	
8-5-306	Requirements for Approved Emission Control Systems	Y	
8-5-328	Tank Degassing Requirements	Y	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-5-403	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 40 CFR 60 Subpart Ka; BAAQMD Regulation 10-16	**Standards of Performance for Storage Vessels for Petroleum Liquids (12/14/00); BAAQMD Standards of Performance for New Stationary Sources (02/16/00)**		
60.112a(a)	**Control device** 60.112a(a)(3) Performance requirements: **at least 95% efficient**	Y	
60.115a(d)(2)	**Monitoring** Exempt for storage vessels with closed vent system and control device	Y	
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	
BAAQMD Condition # 18618			
Part 1	Throughput limit (basis: Regulation 2-1-234.3, 2-1-307)	N	
Part 2	Recordkeeping (basis: Regulation 2-1-234.3, 2-1-307)	N	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

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

Applicable Requirement	Regulation Title or Description of Requirement		Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 8, Rule 5	**Organic Compounds, Storage of Organic Liquids (10/18/06)**			
8-5-117	Limited Exemption, Low Vapor Pressure		N	
SIP · Regulation 8, Rule 5	**Storage of Organic Liquids (06/05/03)**			
8-5-117	Exemption, Low Vapor Pressure		Y	
NESHAP 40 CFR 63 Subpart CC	**NESHAP for Petroleum Refineries REQUIREMENTS FOR RECORDKEEPING ONLY – GROUP 2 TANKS (7/13/16)**			
The tanks in this table will be subject to the provisions of 40 CFR 63.646 and the referenced requirements of 40 CFR 63, Subpart G until compliance with 40 CFR 63.660 and the referenced requirements contained in 40 CFR 63, Subpart WW is demonstrated, as specified in 40 CFR 63.640(h), 63.660, and 63.1063				
63.642(e)	**General recordkeeping requirements:** Time period for keeping records, unless specified otherwise.	63.642(e) & 63.655(i)(6) **keep all other records 5 years, retrievable within 24 hr**	Y	
	General recordkeeping requirements: Keep all reports and notification for the specified period of time.	63.642(e) & 63.655(i)(6) **required**	Y	
63.655(i)	**Applicability records:** Time period for keeping records of applicability determination, unless specified otherwise.	63.655(i)(1) 63.123(a) **Keep record readily accessible for the service life of the tank**	Y	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

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

Applicable Requirement	Regulation Title or Description of Requirement		Federally Enforceable (Y/N)	Future Effective Date
	Applicability records: Records of dimensions & capacity required for non-exempt tanks?	63.655(i)(1) 63.123(a) **Required** **Keep record readily accessible for service life of the tank** *	Y	
	Applicability records: Additional recordkeeping requirements for certain tanks.	63.655(i)(1)(iv) and (vi) **determination of HAP content** **Keep record readily accessible for service life of the tank**	Y	
BAAQMD Condition # 18618	Applies to S21, S23, S24, S26, S497, S552, S553, S554, S555, S556, S557, S558, S559, S560, S561, S567, S572, S573, S598, S815 S985, S1043, S1044, S1045, S1160. Does not apply to S571, S867, S868, S876, S961, S1017, S1018, S1041, S1048, S1075			
Part 1	Throughput limit (basis: Regulation 2-1-234.3, 2-1-307)		N	
Part 2	Recordkeeping (basis: Regulation 2-1-234.3, 2-1-307)		N	

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD	Applies to S1523		

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Condition # 4101			
Part 1	Abatement Requirement [basis: Cumulative Increase]	Y	

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 8 Rule 5	**Organic Compounds - STORAGE OF ORGANIC LIQUIDS (10/18/06)**		
8-5-111	Tank Removal From and Return to Service	N	
8-5-111.1	Notification	N	
8-5-111.2	Tank in compliance at time of notification	N	
8-5-111.5	Minimize emissions and, if required, degas per 8-5-328	N	
8-5-111.6	Self report if out of compliance during exemption period	N	
8-5-112	Tanks in Operation – maintenance and inspection	N	
8-5-112.1	Notification	N	
8-5-112.2	Tank in compliance at time of notification	N	
8-5-112.3	No product movement, Minimize emissions	Y	
8-5-112.4	Tanks in Operation – maintenance and inspection; Not to exceed 7 days	N	
8-5-112.5	Self report if out of compliance during exemption period	N	
8-5-112.6	Keep records for each exemption	N	
8-5-117	Limited exemption, low vapor pressure	N	
8-5-301	Storage Tank Control Requirements	N	
8-5-302	Requirements for Submerged Fill Pipes	N	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-5-303	Requirements for Pressure Vacuum Valve	N	
8-5-303.1	Requirements for Pressure Vacuum Valves; Set pressure	N	
8-5-303.2	Requirements for Pressure Vacuum Valves; Gas tight requirement	N	
8-5-307	Requirements for fixed roof tanks, pressure tanks and blanketed tanks	N	
8-5-307.1	Requirements for fixed roof tanks, pressure tanks and blanketed tanks; No liquid leakage through shell		
8-5-328	Tank Degassing Requirements	N	
8-5-328.2	Tank degassing requirements; Ozone Excess Day Prohibition	N	
8-5-328.3	Tank degassing requirements; BAAQMD notification required	N	
8-5-331	Tank cleaning requirements; 90% Abatement efficiency if abatement device used	N	
8-5-331.1	Tank cleaning requirements; Cleaning materials properties	N	
8-5-331.2	Tank cleaning requirements; Steam cleaning prohibition	N	
8-5-331.3	Tank cleaning requirements; Steam cleaning exceptions	N	
8-5-332	Sludge Handling Requirements (applies to sludge removed from any tank that was subject to BAAQMD 8-5 at any time since it was last put in service)	N	
8-5-332.1	Sludge Handling Requirements; sludge container no leaks	N	
8-5-332.2	Sludge Handling Requirements; sludge container gap requirements	N	
8-5-403	Inspection Requirements for Pressure Relief Devices	N	
8-5-403.1	Inspection Requirements for Pressure Relief Devices; Pressure vacuum valves gas tight standards in 8-5-303	N	
8-5-403.2	Inspection Requirements for Pressure Relief Devices; PRDs except pressure vacuum valves gas tight standards in 8-5-307.3	N	
8-5-501	Records	Y	
8-5-501.1	Records; Type and amount of liquid, type of blanket gas, TVP- Retain 24 monhts	N	
8-5-501.3	Records; Retention	N	
8-5-501.4	Records; New pressure vacuum valve setpoints	N	
SIP Regulation 8 Rule 5	**STORAGE OF ORGANIC LIQUIDS (6/5/03)**		
8-5-111	Tank Removal From and Return to Service	Y	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

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

Applicable Requirement	Regulation Title or Description of Requirement		Federally Enforceable (Y/N)	Future Effective Date
8-5-112	Tanks in Operation – maintenance and inspection		Y	
8-5-117	Exemption, Low Vapor Pressure		Y	
8-5-301	Storage Tank Control Requirements		Y	
8-5-303	Requirements for Pressure Vacuum Valve		Y	
8-5-307	Requirements for Pressure Tanks and Blanketed Tanks		Y	
8-5-328	Tank Degassing Requirements		Y	
8-5-328.2	Tank degassing requirements; Ozone Excess Day Prohibition		Y	
8-5-403	Inspection Requirements for Pressure Vacuum Valves		Y	
8-5-404	Certification		Y	
8-5-405	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	
NESHAP 40 CFR 63 Subpart CC	**NESHAP for Petroleum Refineries REQUIREMENTS FOR RECORDKEEPING ONLY – GROUP 2 TANKS (7/13/16)**			
The tanks in this table will be subject to the provisions of 40 CFR 63.646 and the referenced requirements of 40 CFR 63, Subpart G until compliance with 40 CFR 63.660 and the referenced requirements contained in 40 CFR 63, Subpart WW is demonstrated, as specified in 40 CFR 63.640(h), 63.660, and 63.1063				
63.642(e)	**General recordkeeping requirements:** Time period for keeping records, unless specified otherwise.	63.642(e) & 63.655(i)(6) **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) & 63.655(i)(6) **required**	Y	
63.655(i)	**Applicability records:** Time period for keeping records of applicability determination, unless specified otherwise.	63.655(i)(1) 63.123(a) **Keep record readily accessible for the service life of the tank**	Y	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	Applicability records: Records of dimensions & capacity required for nonexempt tanks? 63.655(i)(1) 63.123(a) **Required** **Keep record readily accessible for service life of the tank** *	Y	
	Applicability records: Additional recordkeeping requirements for certain tanks. 63.655(i)(1)(iv) and (vi) **determination of HAP content** **Keep record readily accessible for service life of the tank**	Y	
BAAQMD Condition # 18618	Applies to S568		
Part 1	Throughput limit (basis: Regulation 2-1-234.3, 2-1-307)	N	
Part 2	Recordkeeping (basis: Regulation 2-1-234.3, 2-1-307)	N	

Table IV – I
Source-specific Applicable Requirements
External Floating Roof Tanks
S540 – TANK 540, 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 Regulation 8 Rule 5	**Organic Compounds - STORAGE OF ORGANIC LIQUIDS (10/18/06)**		
8-5-111	Tank Removal From and Return to Service	N	
8-5-111.1	Notification	N	
8-5-111.2	Tank in compliance at time of notification	N	
8-5-111.3	Filling, emptying, refilling floating roof tanks	Y	
8-5-111.5	Minimize emissions and, if required, degas per 8-5-328	N	
8-5-111.6	Self report if out of compliance during exemption period	N	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-5-112	Tanks in Operation – maintenance and inspection	N	
8-5-112.1	Notification	N	
8-5-112.2	Tank in compliance at time of notification	N	
8-5-112.3	No product movement, Minimize emissions	Y	
8-5-112.4	Tanks in Operation – maintenance and inspection; Not to exceed 7 days	N	
8-5-112.5	Self report if out of compliance during exemption period	N	
8-5-112.6	Keep records for each exemption	N	
8-5-119	Limited Exemption, Repair Period for Enhanced Monitoring Program	N	
8-5-119.1	Standards allowed under the limited exemption	N	
8-5-119.2	Conditions required to be eligible for limited exemption	N	
8-5-119.3	Report within 60 days of using the exemption	N	
8-5-301	Storage Tank Control Requirements	N	
8-5-304	Requirements for External Floating Roof Tanks	N	
8-5-320	Floating Roof Tank Fitting Requirements	N	
8-5-321	Primary seal requirements	N	
8-5-322	Secondary seal requirements	N	
8-5-328	Tank Degassing Requirements	N	
8-5-328.1	Tank degassing requirements; Tanks > 75 cubic meters	N	
8-5-328.2	Tank degassing requirements; Ozone Excess Day Prohibition	N	
8-5-328.3	Tank degassing requirements; BAAQMD notification required	N	
8-5-331	Tank cleaning requirements; 90% Abatement efficiency if abatement device used	N	
8-5-331.1	Tank cleaning requirements; Cleaning materials properties	N	
8-5-331.2	Tank cleaning requirements; Steam cleaning prohibition	N	
8-5-331.3	Tank cleaning requirements; Steam cleaning exceptions	N	
8-5-332	Sludge Handling Requirements (applies to sludge removed from any tank that was subject to BAAQMD 8-5 at any time since it was last put in service)	N	
8-5-332.1	Sludge Handling Requirements; sludge container no leaks	N	
8-5-332.2	Sludge Handling Requirements; sludge container gap requirements	N	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-5-401	Inspection Requirements for External Floating Roof Tanks	Y	
8-5-401.1	Inspection Requirements for External Floating Roof Tank; Primary and Secondary Seal Inspections	N	
8-5-401.2	Inspection Requirements for External Floating Roof Tank; Tank Fitting Inspections	N	
8-5-411	Enhanced Monitoring Program	N	
8-5-411.1	Submit list of all tanks at the facility subject to this rule and their capacity	N	
8-5-411.2	Subject tanks may be changed at any time with written notification to the APCO	N	
8-5-411.3	Operator shall perform enhanced monitoring as specified in Sections 8-5-401, 402, and 403	N	
8-5-501	Records	Y	
8-5-501.1	Records; Type and amount of liquid, type of blanket gas, TVP- Retain 24 months	N	
8-5-501.2	Records; Internal and External Floating Roof Tanks, Seal Replacement Records- Retain 10 years	N	
8-5-501.3	Records; Retention	N	
SIP Regulation 8 Rule 5	**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	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

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

Applicable Requirement	Regulation Title or Description of Requirement		Federally Enforceable (Y/N)	Future Effective Date
8-5-501	Records		Y	
8-5-502	Tank Degassing Annual Source Test Requirement		Y	
8-5-503	Portable Hydrocarbon Detector		Y	
NESHAP 40 CFR 63 Subpart CC	**NESHAP for Petroleum Refineries REQUIREMENTS FOR EXTERNAL FLOATING ROOF TANKS – GROUP 1 TANKS (7/13/16)**			
The tanks in this table will be subject to the provisions of 40 CFR 63.646 and the referenced requirements of 40 CFR 63, Subpart G until compliance with 40 CFR 63.660 and the referenced requirements contained in 40 CFR 63, Subpart WW is demonstrated, as specified in 40 CFR 63.640(h), 63.660, and 63.1063				
63.642(e)	**General recordkeeping requirements:** Time period for keeping records, unless specified otherwise.	63.642(e) & 63.655(i)(6) **keep all other records 5 years, retrievable within 24 hr**	Y	
	General recordkeeping requirements: Keep all reports and notification for the specified period of time.	63.642(e) & 63.655(i)(6) **required**	Y	
63.646	Upon a demonstration of compliance with the standards in 63.660 by the compliane dates specified in 63.640(h), the standards in this section shall no longer apply		Y	
63.646(a)	**EFR Rim Seals:** vapor-mounted primary seal: liquid-mounted primary seal: mechanical-shoe primary seal:	63.646(a) 63.119(c)(1)(I) - (1)(iii) **Not Allowed** **OK with rim-mounted secondary** **OK with rim-mounted secondary**	Y	
	Must vapor-mounted rim seals be continuous on EFRs?	63.646(a) 63.119(c)(1)(iii) **YES**	Y	
	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	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

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

Applicable Requirement	Regulation Title or Description of Requirement		Federally Enforceable (Y/N)	Future Effective Date
	EFR Secondary Seal Gap Inspection Criteria: maximum area: 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? 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	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

Table IV – I
Source-specific Applicable Requirements
External Floating Roof Tanks
S540 – TANK 540, 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: 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) 63.655(h)(2)(i)(C)&(ii) **YES**	Y	
63.655(g)	Report of periodic inspections, etc. AFTER documenting initial compliance?	63.655(g) **begin Sept 13, 1999 then semiannual**	Y	
	Periodic Reports: Report of EFR inspection failures to include:	63.655(g)(3)(i) **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?	63.655(g)(3)(i) **prior request is not required**	Y	
	Periodic Reports: Additional information to be included if an extension is utilized for an EFR:	63.655(g)(3)(i) **document the reason for the extension**	Y	
	Periodic Reports: Report EFR seal gap inspections if there was no out-of-compliance?	63.655(g)(3)(i) **Not required**	Y	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

Table IV – I
Source-specific Applicable Requirements
External Floating Roof Tanks
S540 – TANK 540, 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 EFR seal gap inspections when there is out-of-compliance?	63.655(g)(3)(i) **Required within 60 days after each semiannual period**	Y	
63.655(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?	63.655(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?	63.655(h)(2)(ii) 63.646(a) 63.120(b)(9) **REQUIRED**	Y	
63.655(i)	**Applicability records:** Time period for keeping records of applicability determination, unless specified otherwise.	63.655(i)(1) 63.123(a) **Keep record readily accessible for the service life of the tank**	Y	
	Applicability records: Records of dimensions & capacity required for nonexempt tanks?	63.655(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.	63.655(i)(1) 63.123(c) - (e) **all inspections**	Y	
	Records of EFR inspection reports:	63.655(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.	63.655(i)(1) 63.123 (g) **required**	Y	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

Table IV – I
Source-specific Applicable Requirements
External Floating Roof Tanks
S540 – TANK 540, 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: Additional recordkeeping requirements for certain tanks. 63.655(i)(1)(iv) **determination of HAP content** **Keep record readily accessible for service life of the tank**	Y	
63.660	Storage vessel provisions. Group 1 storage vessels shall comply with the requirements in 40 CFR 63, Subpart WW according to the requirements of 63.660(a) through (i)	Y	
63.660(a)	Determination of stored liquid HAP content	Y	
63.660(b)	Floating Roof Storage Vessel Requirements	Y	
63.660(c)	References	Y	
63.660(e)	Violations	Y	
63.660(g)	Notification of Compliance Status	Y	
63.660(h)	Periodic Reporting	Y	
BAAQMD Condition # 7382	Applies to S1072		
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	
BAAQMD Condition # 11951	Applies to S540		
Part 1	Annual throughput limit with recordkeeping [basis: Cumulative Increase]	Y	
Part 3	Equipment specification requirement [basis: BACT/TBACT]	Y	
BAAQMD Condition # 12174	Applies to S545		
Part 1	Equipment specification requirement [basis: Cumulative Increase]	Y	
BAAQMD Condition # 12271	Applies to S1129		

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

Table IV – I
Source-specific Applicable Requirements
External Floating Roof Tanks
S540 – TANK 540, 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
Part A	Monthly and annual emission limits [basis: Offsets, Cumulative Increase]	Y	
Part B	Applicable sources [basis: Offsets, Cumulative Increase]	Y	
Part C	In the case of a process upset or other irregularity [basis: Offsets, Cumulative Increase]	N	
Part L	Recordkeeping [basis: BACT, Offsets, Cumulative Increase]	Y	
Part M	Monthly reports [basis: Offsets, Cumulative Increase]	Y	
Part O	Offsets requirements [basis: Offsets]	Y	
Part 47	Equipment specification [basis: BACT]	Y	
Part 51	Degassing abatement requirements [basis: BACT]	Y	
BAAQMD Condition # 18618	Applies to S540, S545, S1031, S1046, S1051, S1129, S1159, and S1161		
Part 1	Throughput limit (basis: Regulation 2-1-234.3, 2-1-307)	N	
Part 2	Recordkeeping (basis: Regulation 2-1-234.3, 2-1-307)	N	

Table IV – J
Source-specific Applicable Requirements
External Floating Roof Tanks
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 Regulation 8 Rule 5	**Organic Compounds - STORAGE OF ORGANIC LIQUIDS (10/18/06)**		
8-5-111	Tank Removal From and Return to Service	N	
8-5-111.1	Notification	N	
8-5-111.2	Tank in compliance at time of notification	N	
8-5-111.3	Filling, emptying, refilling floating roof tanks	Y	
8-5-111.5	Minimize emissions and, if required, degas per 8-5-328	N	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-5-111.6	Self report if out of compliance during exemption period	N	
8-5-112	Tanks in Operation – maintenance and inspection	N	
8-5-112.1	Notification	N	
8-5-112.2	Tank in compliance at time of notification	N	
8-5-112.3	No product movement, Minimize emissions	Y	
8-5-112.4	Tanks in Operation – maintenance and inspection; Not to exceed 7 days	N	
8-5-112.5	Self report if out of compliance during exemption period	N	
8-5-112.6	Keep records for each exemption	N	
8-5-119	Limited Exemption, Repair Period for Enhanced Monitoring Program	N	
8-5-119.1	Standards allowed under the limited exemption	N	
8-5-119.2	Conditions required to be eligible for limited exemption	N	
8-5-119.3	Report within 60 days of using the exemption	N	
8-5-301	Storage Tank Control Requirements	N	
8-5-304	Requirements for External Floating Roof Tanks	N	
8-5-320	Floating Roof Tank Fitting Requirements	N	
8-5-321	Primary seal requirements	N	
8-5-322	Secondary seal requirements	N	
8-5-328	Tank Degassing Requirements	N	
8-5-328.1	Tank degassing requirements; Tanks > 75 cubic meters	N	
8-5-328.2	Tank degassing requirements; Ozone Excess Day Prohibition	N	
8-5-328.3	Tank degassing requirements; BAAQMD notification required	N	
8-5-331	Tank cleaning requirements; 90% Abatement efficiency if abatement device used	N	
8-5-331.1	Tank cleaning requirements; Cleaning materials properties	N	
8-5-331.2	Tank cleaning requirements; Steam cleaning prohibition	N	
8-5-331.3	Tank cleaning requirements; Steam cleaning exceptions	N	
8-5-332	Sludge Handling Requirements (applies to sludge removed from any tank that was subject to BAAQMD 8-5 at any time since it was last put in service)	N	
8-5-332.1	Sludge Handling Requirements; sludge container no leaks	N	
8-5-332.2	Sludge Handling Requirements; sludge container gap requirements	N	
8-5-401	Inspection Requirements for External Floating Roof Tanks	Y	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-5-401.1	Inspection Requirements for External Floating Roof Tank; Primary and Secondary Seal Inspections	N	
8-5-401.2	Inspection Requirements for External Floating Roof Tank; Tank Fitting Inspections	N	
8-5-411	Enhanced Monitoring Program	N	
8-5-411.1	Submit list of all tanks at the facility subject to this rule and their capacity	N	
8-5-411.2	Subject tanks may be changed at any time with written notification to the APCO	N	
8-5-411.3	Operator shall perform enhanced monitoring as specified in Sections 8-5-401, 402, and 403	N	
8-5-501	Records	Y	
8-5-501.1	Records; Type and amount of liquid, type of blanket gas, TVP- Retain 24 monhts	N	
8-5-501.2	Records; Internal and External Floating Roof Tanks, Seal Replacement Records- Retain 10 years	N	
8-5-501.3	Records; Retention	N	
SIP Regulation 8 Rule 5	**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	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

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

Applicable Requirement	Regulation Title or Description of Requirement		Federally Enforceable (Y/N)	Future Effective Date
8-5-503	Portable Hydrocarbon Detector		Y	
NESHAP 40 CFR 63 Subpart CC	**NESHAP for Petroleum Refineries REQUIREMENTS FOR RECORDKEEPING ONLY – GROUP 2 TANKS (7/13/16)**			
The tanks in this table will be subject to the provisions of 40 CFR 63.646 and the referenced requirements of 40 CFR 63, Subpart G until compliance with 40 CFR 63.660 and the referenced requirements contained in 40 CFR 63, Subpart WW is demonstrated, as specified in 40 CFR 63.640(h), 63.660, and 63.1063				
63.642(e)	**General recordkeeping requirements:** Time period for keeping records, unless specified otherwise.	63.642(e) & 63.655(i)(6) **keep all other records 5 years, retrievable within 24 hr**	Y	
	General recordkeeping requirements: Keep all reports and notification for the specified period of time.	63.642(e) & 63.655(i)(6) **required**	Y	
63.655(i)	**Applicability records:** Time period for keeping records of applicability determination, unless specified otherwise.	63.655(i)(1) 63.123(a) **Keep record readily accessible for the service life of the tank**	Y	
	Applicability records: Records of dimensions & capacity required for non-exempt tanks?	63.655(i)(1) 63.123(a) **Required Keep record readily accessible for service life of the tank** *	Y	
	Applicability records: Additional recordkeeping requirements for certain tanks.	63.655(i)(1)(iv) and (vi) **determination of HAP content Keep record readily accessible for service life of the tank**	Y	
BAAQMD Condition # 7618	Applies to S1076			
Part D.2	Liquid vapor pressure limit of less than 1.5 psia (basis: Cumulative Increase)		Y	
Part G	Recordkeeping (basis: Cumulative Increase)		Y	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

Table IV – J
Source-specific Applicable Requirements
External Floating Roof Tanks
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 Condition # 12271	Applies to S1130 and S1131		
Part A	Monthly and annual emission limits [basis: Offsets, Cumulative Increase]	Y	
Part B	Applicable sources [basis: Offsets, Cumulative Increase]	Y	
Part C	In the case of a process upset or other irregularity [basis: Offsets, Cumulative Increase]	N	
Part L	Recordkeeping [basis: BACT, Offsets, Cumulative Increase]	Y	
Part M	Monthly reports [basis: Offsets, Cumulative Increase]	Y	
Part O	Offsets requirements [basis: Offsets]	Y	
Part 47	Equipment specification [basis: BACT]	Y	
Part 51	Degassing abatement requirements [basis: BACT]	Y	
BAAQMD Condition # 18618	Applies to S1076, S1130, and S1131		
Part 1	Throughput limit (basis: Regulation 2-1-234.3, 2-1-307)	N	
Part 2	Recordkeeping (basis: Regulation 2-1-234.3, 2-1-307)	N	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

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

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

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

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

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

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-5-112	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 40 CFR 60 Subpart Ka; BAAQMD Regulation 10-16	**Storage Vessels for Petrolum Liquid REQUIREMENTS FOR EXTERNAL FLOATING ROOF TANKS (02/16/00)**		
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 40 CFR 60 Subpart A	**New Source Performance Standards GENERAL PROVISIONS (02/17/14)**		
60.7(f)	General recordkeeping requirements	Y	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
NESHAP 40 CFR 63 Subpart CC	**NESHAP for Petroleum Refineries** **REQUIREMENTS FOR EXTERNAL FLOATING ROOF TANKS – GROUP 1 TANKS (7/13/16)**		
The tanks in this table will be subject to the provisions of 40 CFR 63.646 and the referenced requirements of 40 CFR 63, Subpart G until compliance with 40 CFR 63.660 and the referenced requirements contained in 40 CFR 63, Subpart WW is demonstrated, as specified in 40 CFR 63.640(h), 63.660, and 63.1063			
63.640(n)	Overlap of Subpart CC with NSPS Subpart Ka	Y	
63.642(e)	**General recordkeeping requirements:** Time period for keeping records, unless specified otherwise. 63.642(e) & 63.655(i)(6) **keep all other records 5 years, retrievable within 24 hr**	Y	
	General recordkeeping requirements: Keep all reports and notification for the specified period of time. 63.642(e) & 63.655(i)(6) **required**	Y	
63.646	Upon demonstration of compliance with the standards in 63.660 by the compliance dates specified in 63.640(h), the standards in this section shall no longer apply	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	
	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	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

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

Applicable Requirement	Regulation Title or Description of Requirement		Federally Enforceable (Y/N)	Future Effective Date
	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 – K
Source-specific Applicable Requirements
External Floating Roof Tanks
S1191 - TANK -1256 CRUDE OIL STORAGE,
S1192 - TANK –1257 CRUDE OIL STORAGE,
S1755 – TANK 1334 GASOLINE, S1756 – TANK 1335 GASOLINE

Applicable Requirement	Regulation Title or Description of Requirement		Federally Enforceable (Y/N)	Future Effective Date
	Seal Gap Measurements: 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 – K
Source-specific Applicable Requirements
External Floating Roof Tanks
S1191 - TANK -1256 CRUDE OIL STORAGE,
S1192 - TANK –1257 CRUDE OIL STORAGE,
S1755 – TANK 1334 GASOLINE, S1756 – TANK 1335 GASOLINE

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

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

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

Applicable Requirement	Regulation Title or Description of Requirement		Federally Enforceable (Y/N)	Future Effective Date
	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) 63.655(h)(2)(i)(C)&(ii) **YES**	Y	
63.655(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:	63.655(g)(3)(i) **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?	63.655(g)(3)(i) **prior request is not required**	Y	
	Periodic Reports: Additional information to be included if an extension is utilized for an EFR:	63.655(g)(3)(i) **document the reason for the extension**	Y	
	Periodic Reports: Report EFR seal gap inspections if there was no out-of-compliance?	63.655(g)(3)(i) **Not required**	Y	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

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

Applicable Requirement	Regulation Title or Description of Requirement		Federally Enforceable (Y/N)	Future Effective Date
	Periodic Reports: Report EFR seal gap inspections when there is out-of-compliance?	63.655(g)(3)(i) **Required within 60 days after each semiannual period**	Y	
63.655(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?	63.655(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?	63.655(h)(2)(ii) 63.646(a) 63.120(b)(9) **REQUIRED**	Y	
63.655(i)	**Applicability records:** Time period for keeping records of applicability determination, unless specified otherwise.	63.655(i)(1) 63.123(a) **Keep record readily accessible for the service life of the tank**	Y	
	Applicability records: Records of dimensions & capacity required for nonexempt tanks?	63.655(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.	63.655(i)(1) 63.123(c) - (e) **all inspections**	Y	
	Records of EFR inspection reports:	63.655(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.	63.655(i)(1) 63.123 (g) **required**	Y	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	Applicability records: Additional recordkeeping requirements for certain tanks. 63.655(i)(1)(iv) **determination of HAP content** **Keep record readily accessible for service life of the tank**	Y	
63.660	Storage vessel provisions. Group 1 storage vessels shall comply with the requirements in 40 CFR 63, Subpart WW according to the requirements of 63.660(a) through (i)	Y	
63.660(a)	Determination of stored liquid HAP content	Y	
63.660(b)	Floating Roof Storage Vessel Requirements	Y	
63.660(c)	References	Y	
63.660(e)	Violations	Y	
63.660(g)	Notification of Compliance Status	Y	
63.660(h)	Periodic Reporting	Y	
BAAQMD Condition # 18618	Applies to S1755 and S1756		
Part 1	Throughput limit (basis: Regulation 2-1-234.3, 2-1-307)	N	
Part 2	Recordkeeping (basis: Regulation 2-1-234.3, 2-1-307)	N	

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

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

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

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

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

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-5-331.2	Tank cleaning requirements; Steam cleaning prohibition	N	
8-5-331.3	Tank cleaning requirements; Steam cleaning exceptions	N	
8-5-332	Sludge Handling Requirements (applies to sludge removed from any tank that was subject to BAAQMD 8-5 at any time since it was last put in service)	N	
8-5-332.1	Sludge Handling Requirements; sludge container no leaks	N	
8-5-332.2	Sludge Handling Requirements; sludge container gap requirements	N	
8-5-403	Inspection Requirements for Pressure Relief Devices	N	
8-5-403.1	Inspection Requirements for Pressure Relief Devices; Pressure vacuum valves gas tight standards in 8-5-303	N	
8-5-404	Inspection, Abatement Efficiency Determination and Source Test Reports	N	
8-5-501	Records	Y	
8-5-501.1	Records; Type and amount of liquid, type of blanket gas, TVP- Retain 24 monhts	N	
8-5-501.3	Records; Retention	N	
8-5-501.4	Records; New pressure vacuum valve setpoints	N	
8-5-502	Annual Source Test Requirement and Exemption for Sources Vented to Fuel Gas	N	
8-5-502.1	Source Test Requirements; Annual source test for approved emission control systems and abatement devices for 8-5-303.2, 8-5-306.1, 8-5-307.3	N	
8-5-502.2	Source test requirements; Tank degassing and cleaning abatement devices	N	
SIP Regulation 8 Rule 5	**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	
8-5-303	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	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-5-404	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	
NESHAP 40 CFR 63 Subpart CC	**National Emissions Standards for Hazardous Air Pollutants from Petroleum Refineries (7/13/16)**		
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	
63.647(c)	Flare control device requirements	Y	
63.655	Reporting and recordkeeping requirements	Y	
63.655(a)	Owners/operators subject to the wastewater provisions of 63.647 shall comply with the recordkeeping and reporting requirements of 61.356 and 61.357 of 40 CFR 61, subpart FF, unless they comply with those specified in paragraph (o)(2)(ii) of 63.640. Recordkeeping and reporting for wastewater streams included in emission averages are specified in 63.653 and in paragraphs (f)(5) and (g)(8) of this section.	Y	
63.655(i)(6)	All information required to be reported under 63.655(a) through (h) shall be retained for 5 years.	Y	
NESHAP 40 CFR 61 Subpart A	**National Emission Standards for Hazardous Air Pollutants - General Provisions (02/27/14)**		
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	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
61.13	Emission tests and waiver of emission tests	Y	
61.14	Monitoring requirements	Y	
61.19	Circumvention	Y	
NESHAP 40 CFR 61 Subpart FF; BAAQMD Regulation 11 Rule 12	**National Emission Standard for Benzene Waste Operations (12/04/03); BAAQMD National Emission Standard for Benzene Emissions, From Benzene Transfer Operations, and Benzene Waste Operations (01/05/94)**		
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	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
61.343(b)(1)	The waste managed in the tank complying with (b)(2) shall meet all of the following conditions: wastestream managed in the tank must have a flow-weighted annual average water content less than or equal to 10% water, on a volume basis and the waste managed in the tank either: has a maximum organic vapor pressure less than 0.75 psi, or has a maximum organic vapor pressure less than 4.0 psi and is managed in a tank less than 40,000 gallons, or has a maximum organic vapor pressure less than 11.1 psi and is managed in a tank having a design capacity less than 20,000 gallons.	Y	
61.343(b)(2)	Owner/operator shall install, operate, and maintain a fixed roof as specified in paragraph (a)(1)(i).	Y	
61.343(b)(3)	may use devices that vent directly to atmosphere provided the devices are closed, sealed during normal operations except when the device needs to open to prevent damage or deformation of the tank or cover.	Y	
61.343(c)	Inspect all fixed-roof, seal, access doors, and all other openings visually initially and quarterly for cracks and gaps and that doors and openings are closed and gasketed properly.	Y	
61.343(d)	When a broken seal or gasket is identified, or when detectable emissions are measured, first efforts at repair shall be made as soon as practicable, but not later than 45 calendar days after identification.	Y	
61.349	Standards: Closed vent systems and control devices	Y	
61.349(a)	Closed vent system and control device	Y	
61.349(a)(1)	Closed vent system requirements	Y	
61.350	Delay of Repair	Y	
61.355	Test methods, procedures and compliance provisions	Y	
61.355(h)	Test equipment for compliance with no detectable emissions as 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	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
61.357(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	
BAAQMD Condition # 7618	Applies to S53		
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	
BAAQMD Condition # 18618			
Part 1	Throughput limit (basis: Regulation 2-1-234.3, 2-1-307)	N	
Part 2	Recordkeeping (basis: Regulation 2-1-234.3, 2-1-307)	N	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

Table IV – M
Source-specific Applicable Requirements
Internal Floating Roof Tanks
S952 - TANK 952, S1070 – TANK 1070, S1128 – TANK 1128
S2445 - TANK 12445, S2446 - TANK 12446
S4322 - TANK 14571 SOUR WATER , S6062 – ETHANOL TANK

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

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

Table IV – M
Source-specific Applicable Requirements
Internal Floating Roof Tanks
S952 - TANK 952, S1070 – TANK 1070, S1128 – TANK 1128
S2445 - TANK 12445, S2446 - TANK 12446
S4322 - TANK 14571 SOUR WATER , S6062 – ETHANOL TANK

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

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

Table IV – M
Source-specific Applicable Requirements
Internal Floating Roof Tanks
S952 - TANK 952, S1070 – TANK 1070, S1128 – TANK 1128
S2445 - TANK 12445, S2446 - TANK 12446
S4322 - TANK 14571 SOUR WATER , S6062 – ETHANOL TANK

Applicable Requirement	Regulation Title or Description of Requirement		Federally Enforceable (Y/N)	Future Effective Date
8-5-405	Information Required		Y	
8-5-501	Records		Y	
8-5-502	Tank Degassing Annual Source Test Requirement		Y	
8-5-503	Portable Hydrocarbon Detector		Y	
NESHAP 40 CFR 63 Subpart CC	**NESHAP for Petroleum Refineries REQUIREMENTS FOR INTERNAL FLOATING ROOF TANKS ALSO SUBJECT TO NSPS Kb (7/13/16)**			
63.640(n)	Which rule governs for storage vessels subject to both Refinery MACT and NSPS subpart Kb?	63.640(n)(2) **NSPS subpart Kb**	Y	
	Does Refinery MACT provide for delay of NSPS Kb seal gap measurements due to unsafe conditions?	63.640(n)(8)(ii) **YES – up to 30 days, or empty the tank within 45 days**	Y	
	Does Refinery MACT provide for extensions of time to perform NSPS Kb inspections of unsafe tanks?	63.640(n)(8)(iii) **YES – up to 2 extensions of 30 days each**	Y	
	Does Refinery MACT provide for extensions of time to repair defects found during NSPS Kb inspections?	63.640(n)(8)(iii) **YES – up to 2 extensions of 30 days each**	Y	
	Does Refinery MACT provide for waiving the NSPS Kb prior-request requirement for extensions of time?	63.640(n)(8)(iii) **YES**	Y	
	Does Refinery MACT provide for submitting NSPS Kb documentation of the need for an extension with the next semi-annual periodic report?	63.640(n)(8)(iv) **YES**	Y	
	Does Refinery MACT include additional requirements for Kb storage vessels?	63.640(n)(8)(vii) **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	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

Table IV – M
Source-specific Applicable Requirements
Internal Floating Roof Tanks
S952 - TANK 952, S1070 – TANK 1070, S1128 – TANK 1128
S2445 - TANK 12445, S2446 - TANK 12446
S4322 - TANK 14571 SOUR WATER , S6062 – ETHANOL TANK

Applicable Requirement	Regulation Title or Description of Requirement		Federally Enforceable (Y/N)	Future Effective Date
NSPS 40 CFR 60 Subpart Kb	**Volatile Organic Liquid Storage Vessels** **REQUIREMENTS FOR INTERNAL FLOATING ROOF TANKS (10/15/03)**			
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	
	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	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

Table IV – M
Source-specific Applicable Requirements
Internal Floating Roof Tanks
S952 - TANK 952, S1070 – TANK 1070, S1128 – TANK 1128
S2445 - TANK 12445, S2446 - TANK 12446
S4322 - TANK 14571 SOUR WATER , S6062 – ETHANOL TANK

Applicable Requirement	Regulation Title or Description of Requirement		Federally Enforceable (Y/N)	Future Effective Date
	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	
	Shall there be no holes, tears, or openings in the IFR seals?	60.113b(a)(1), (2), &(4) **REQUIRED**	Y	
	Is there to be no liquid on the internal floating roof?	60.113b(a)(2) **REQUIRED**	Y	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

Table IV – M
Source-specific Applicable Requirements
Internal Floating Roof Tanks
S952 - TANK 952, S1070 – TANK 1070, S1128 – TANK 1128
S2445 - TANK 12445, S2446 - TANK 12446
S4322 - TANK 14571 SOUR WATER , S6062 – ETHANOL TANK

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

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

Table IV – M
Source-specific Applicable Requirements
Internal Floating Roof Tanks
S952 - TANK 952, S1070 – TANK 1070, S1128 – TANK 1128
S2445 - TANK 12445, S2446 - TANK 12446
S4322 - TANK 14571 SOUR WATER , S6062 – ETHANOL TANK

Applicable Requirement	Regulation Title or Description of Requirement		Federally Enforceable (Y/N)	Future Effective Date
60.115b	**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	
60.116b(c)	**Applicability records:** Additional recordkeeping requirements for certain tanks.	60.116b(c) **identification & TVP of the stored product, if capacity ≥ 20,000 gallons and TVP ≥ 2.2, OR capacity ≥ 40,000 gallons and TVP ≥ 0.51 Keep record as long as the tank is in that service**	Y	
60.116b(e)	**True vapor pressure (TVP) determination for applicability:**	60.116b(e) **maximum TVP of the stored liquid, based on highest calendar month average storage temperature**	Y	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

Table IV – M
Source-specific Applicable Requirements
Internal Floating Roof Tanks
S952 - TANK 952, S1070 – TANK 1070, S1128 – TANK 1128
S2445 - TANK 12445, S2446 - TANK 12446
S4322 - TANK 14571 SOUR WATER , S6062 – ETHANOL TANK

Applicable Requirement	Regulation Title or Description of Requirement		Federally Enforceable (Y/N)	Future Effective Date
NSPS 40 CFR 60 Subpart A	**New Source Performance Standards GENERAL PROVISIONS (02/27/14)**			
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	
BAAQMD Condition # 6707	Applies to S2445 and S2446			
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	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

Table IV – M
Source-specific Applicable Requirements
Internal Floating Roof Tanks
S952 - TANK 952, S1070 – TANK 1070, S1128 – TANK 1128
S2445 - TANK 12445, S2446 - TANK 12446
S4322 - TANK 14571 SOUR WATER , S6062 – ETHANOL TANK

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 4	Recordkeeping [basis: Cumulative Increase]	Y	
Part 5	Installation of primary seal [basis: BACT/TBACT]	Y	
BAAQMD Condition # 12271	Applies to S4322		
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	
BAAQMD Condition # 17648	Applies to S2445, S2446, and S4322		
Part 1	Slotted guidepole equipment requirements (basis: STERPP)	Y	
Part 2	Slotted guidepole operating requirements (basis: STERPP)	Y	
Part 3	Visual inspection requirements (basis: STERPP)	Y	
Part 4	Out of service (basis: STERPP)	Y	
BAAQMD Condition # 18153	**Applies to S1070**		
Part 1	Throughput limit per twelve-month period [basis: Cumulative Increase]	Y	
Part 2	Materials stored [basis: Cumulative Increase, Toxics]	Y	
Part 3	Design requirements [basis: BACT, Cumulative Increase]	Y	
Part 4	Records [basis: Cumulative Increase]	Y	
BAAQMD Condition # 18618	**Applies to S1070, S1128, S2445, S2446, and S6062**		

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

Table IV – M
Source-specific Applicable Requirements
Internal Floating Roof Tanks
S952 - TANK 952, S1070 – TANK 1070, S1128 – TANK 1128
S2445 - TANK 12445, S2446 - TANK 12446
S4322 - TANK 14571 SOUR WATER , S6062 – ETHANOL TANK

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 1	Throughput limit (basis: Regulation 2-1-234.3, 2-1-307)	N	
Part 2	Recordkeeping (basis: Regulation 2-1-234.3, 2-1-307)	N	
BAAQMD Condition # 23003	**Applies to S6062**		
Part 1	Denatured ethanol throughput limit (basis: Cumulative Increase, Rule 2-5)	Y	
Part 2	Recordkeeping (basis: Cumulative Increase, Rule 2-5)	Y	
BAAQMD Condition # 25134	**Applies to S1128**		
Part 1a	Annual throughput limit for S6069, S6070, S6071, and S1128 combined [basis: Cumulative Increase, Offsets]	Y	
Part 1c	Emission calculations if throughput limit is exceeded [basis: Cumulative Increase, Offsets]	Y	
Part 2	Annual POC emission limit for S6069, S6070, S6071, S6072, and S1128 [basis: Cumulative Increase, Offsets]	Y	
Part 3	Calendar day throughput and POC emission limits for S6069, S6070, S6071, S6072, and S1128 [basis: Regulation 2-1-234]	Y	
Part 4	Annual throughput and emissions limits for S6069, S6070, S6071, and S1128 [basis: Regulation 2-1-234]	Y	
Part 6	Materials stored criteria in S1128 [basis: Cumulative Increase, Regulation 2, Rule 5]	Y	
Part 7	Comply with 40 CFR 60 Subpart Kb and BAAQMD Regulation 8, Rule 5 for S6069, S6070, S6071, S6072, and S1128	Y	
Part 8	Temperature monitoring device for S6069, S6070, S6071, S6072, and S1128 [basis: Cumulative Increase]	Y	
Part 9	District-approved log for recordkeeping [basis: Cumulative Increase, Recordkeeping]	Y	
Part 14	Fugitive components: Count of fugitive components [basis: Cumulative Increase, Offsets, Regulation 2-5]	Y	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

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S4322 - TANK 14571 SOUR WATER , S6062 – ETHANOL TANK

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 15	Fugitive components: Offset adjustments [basis: Offsets, Cumulative Increase]	Y	
Part 16a	Fugitive components: Valves in hydrocarbon service fugitive component types [basis: Cumulative Increase, Regulation 8, Rule 18]	Y	
Part 16b	Fugitive components: Flanges in hydrocarbon service fugitive component type [basis: Cumulative Increase, Regulation 8, Rule 18]	Y	
Part 16c	Fugitive components: Pumps in hydrocarbon service fugitive component type [basis: Cumulative Increase, Regulation 8, Rule 18]	Y	
Part 17	Fugitive components: Leak standard [basis: Cumulative Increase, Regulation 8, Rule 18]	Y	
Part 18	Fugitive components: Inspection frequency [basis: Cumulative Increase, Regulation 8, Rule 18]	Y	
Part 19	Fugitive components: Emissions limit and reporting requirements [basis: Cumulative Increase, Offsets]	Y	
Part 20	Fugitive components: District-approved log installed as part of application 22045	Y	
Part 30	Reporting: Annual report to the District's Engineering Division [basis: CEQA, Recordkeeping]	Y	
Part 31	Reporting: Any non-compliance with emission limits [basis: CEQA, Recordkeeping]	Y	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

Table IV – N
Source-specific Applicable Requirements
External Floating Roof Tanks S1006 - TANK 1006, S2013 - TANK 12467, S4310 – TANK 13285 SOUR WATER, S17095 – TANK 17095, S6069 – TANK 17596, S6070 – TANK 17597, S6071 – TANK 17598, S6072 – TANK 17595

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

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-5-331	Tank cleaning requirements; 90% Abatement efficiency if abatement device used	N	
8-5-331.1	Tank cleaning requirements; Cleaning materials properties	N	
8-5-331.2	Tank cleaning requirements; Steam cleaning prohibition	N	
8-5-331.3	Tank cleaning requirements; Steam cleaning exceptions	N	
8-5-332	Sludge Handling Requirements (applies to sludge removed from any tank that was subject to BAAQMD 8-5 at any time since it was last put in service)	N	
8-5-332.1	Sludge Handling Requirements; sludge container no leaks	N	
8-5-332.2	Sludge Handling Requirements; sludge container gap requirements	N	
8-5-401	Inspection Requirements for External Floating Roof Tanks	Y	
8-5-401.1	Inspection Requirements for External Floating Roof Tank; Primary and Secondary Seal Inspections	N	
8-5-401.2	Inspection Requirements for External Floating Roof Tank; Tank Fitting Inspections	N	
8-5-411	Enhanced Monitoring Program	N	
8-5-411.1	Submit list of all tanks at the facility subject to this rule and their capacity	N	
8-5-411.2	Subject tanks may be changed at any time with written notification to the APCO	N	
8-5-411.3	Operator shall perform enhanced monitoring as specified in Sections 8-5-401, 402, and 403	N	
8-5-501	Records	Y	
8-5-501.1	Records; Type and amount of liquid, type of blanket gas, TVP- Retain 24 months	N	
8-5-501.2	Records; Internal and External Floating Roof Tanks, Seal Replacement Records- Retain 10 years	N	
8-5-501.3	Records; Retention	N	
SIP Regulation 8 Rule 5	**STORAGE OF ORGANIC LIQUIDS (11/27/02)**		
8-5-111	Tank Removal From and Return to Service	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
8-5-112	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 63 Subpart CC	**NESHAP for Petroleum Refineries REQUIREMENTS FOR EXTERNAL FLOATING ROOF TANKS ALSO SUBJECT TO NSPS Kb (7/13/16)**			
63.640(n)	Which rule governs for storage vessels subject to both Refinery MACT and NSPS subpart Kb?	63.640(n)(2) **NSPS subpart Kb**	Y	
	Does Refinery MACT provide for EFR secondary seals to be pulled back or temporarily removed during NSPS Kb inspections of the primary seal?	63.640(n)(8)(i) **YES**	Y	
	Does Refinery MACT provide for delay of NSPS Kb seal gap measurements due to unsafe conditions?	63.640(n)(8)(ii) **YES – up to 30 days, or empty the tank within 45 days**	Y	
	Does Refinery MACT provide for extensions of time to perform NSPS Kb inspections of unsafe tanks?	63.640(n)(8)(iii) **YES – up to 2 extensions of 30 days each**	Y	
	Does Refinery MACT provide for extensions of time to repair defects found during NSPS Kb inspections?	63.640(n)(8)(iii) **YES – up to 2 extensions of 30 days each**	Y	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

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Applicable Requirement	Regulation Title or Description of Requirement		Federally Enforceable (Y/N)	Future Effective Date
	Does Refinery MACT provide for waiving the NSPS Kb prior-request requirement for extensions of time?	63.640(n)(8)(iii) **YES**	Y	
	Does Refinery MACT provide for submitting NSPS Kb documentation of the need for an extension with the next semi-annual periodic report?	63.640(n)(8)(iv) **YES**	Y	
	Does Refinery MACT provide for submitting reports of NSPS Kb inspection failures on the semi-annual periodic report schedule?	63.640(n)(8)(v) **YES**	Y	
	Does Refinery MACT provide for not reporting the results of NSPS Kb inspections when there was no out-of-compliance (i.e., recordkeeping only)?	63.640(n)(8)(vi) **YES**	Y	
	Does Refinery MACT include additional requirements for Kb storage vessels?	63.640(n)(8)(vii) **YES**	Y	
	Does Refinery MACT require guidepoles in floating roof storage vessels to be equipped with covers and/or controls to comply with the "no visible gap" requirement of 60.112b?	63.640(n)(8)(vii) **YES**	Y	
NSPS 40 CFR 60 Subpart Kb	**Volatile Organic Liquid Storage Vessels** **REQUIREMENTS FOR EXTERNAL FLOATING ROOF TANKS (10/15/03)**			
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	

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Applicable Requirement	Regulation Title or Description of Requirement		Federally Enforceable (Y/N)	Future Effective Date
	Must the completely cover the annular space between the edge of the floating roof and tank wall?	60.112b(a)(2)(i)(A) **YES**	Y	
	Must vapor-mounted rim seals be continuous on EFRs?	60.112b(a)(2)(i)(B) **YES**	Y	
	Deck openings (wells) other than for vents, drains, or legs to have covers that are kept closed except for access?	60.112b(a)(2)(ii) **REQUIRED** *	Y	
	EFR well covers to be gasketed?	60.112b(a)(2)(ii) **REQUIRED**	Y	
	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	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

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External Floating Roof Tanks S1006 - TANK 1006, S2013 - TANK 12467, S4310 – TANK 13285 SOUR WATER, S17095 – TANK 17095, S6069 – TANK 17596, S6070 – TANK 17597, S6071 – TANK 17598, S6072 – TANK 17595

Applicable Requirement	Regulation Title or Description of Requirement		Federally Enforceable (Y/N)	Future Effective Date
	EFRT operating requirements: When landing the floating roof on its support legs, is the tank to be emptied & either refilled or degassed as soon as possible?	60.112b(a)(2)(iii) **YES**	Y	
	Temporary exemption from operating requirements while the external floating roof is landed on its support legs? *	60.112b(a)(2)(iii) **EXEMPT**	Y	
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	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

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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?	60.113b(b)(2)(iii) **YES**	Y	
	DETERMINATION OF EFR RIM-SEAL GAP AREAS: Sum the gap areas & divide by the diameter of the tank?	60.113b(b)(3) **YES**	Y	
	EFRT REPAIRS: Time allowed for repair of defects found during in-service inspections of EFRs:	60.113b(b)(4) **make repairs within 45 days**		
	If unable to repair, empty the EFRT & remove from service?	60.113b(b)(4) **YES, within 45 days**	Y	
	EFR Primary Seal Gap Inspection Criteria: 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	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

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External Floating Roof Tanks S1006 - TANK 1006, S2013 - TANK 12467, S4310 – TANK 13285 SOUR WATER, S17095 – TANK 17095, S6069 – TANK 17596, S6070 – TANK 17597, S6071 – TANK 17598, S6072 – TANK 17595

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:	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	
	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	

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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 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	
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	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

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External Floating Roof Tanks S1006 - TANK 1006, S2013 - TANK 12467, S4310 – TANK 13285 SOUR WATER, S17095 – TANK 17095, S6069 – TANK 17596, S6070 – TANK 17597, S6071 – TANK 17598, S6072 – TANK 17595

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 40 CFR 60 Subpart A	**New Source Performance Standards GENERAL PROVISIONS (02/27/14)**			
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 – N
Source-specific Applicable Requirements
External Floating Roof Tanks S1006 - TANK 1006, S2013 - TANK 12467, S4310 – TANK 13285 SOUR WATER, S17095 – TANK 17095, S6069 – TANK 17596, S6070 – TANK 17597, S6071 – TANK 17598, S6072 – TANK 17595

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 d. after modifications (otherwise prior to fill)**	Y	
BAAQMD Condition # 6503	Applies to S2013		
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	
BAAQMD Condition # 12271	Applies to S4310		
Part A	Monthly and annual emission limits [basis: Offsets, Cumulative Increase]	Y	
Part B	Applicable sources [basis: Offsets, Cumulative Increase]	Y	
Part C	In the case of a process upset or other irregularity [basis: Offsets, Cumulative Increase]	N	
Part L	Recordkeeping [basis: BACT, Offsets, Cumulative Increase]	Y	
Part M	Monthly reports [basis: Offsets, Cumulative Increase]	Y	
Part O	Offsets requirements [basis: Offsets]	Y	
Part 47	Equipment specification [basis: BACT]	Y	
Part 51	Degassing abatement requirements [basis: BACT]	Y	
BAAQMD Condition # 17648	Applies to S1006 and S2013		
Part 1	Slotted guidepole equipment requirements (basis: STERPP)	Y	
Part 2	Slotted guidepole operating requirements (basis: STERPP)	Y	
Part 3	Visual inspection requirements (basis: STERPP)	Y	
Part 4	Out of service (basis: STERPP)	Y	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

Table IV – N
Source-specific Applicable Requirements
External Floating Roof Tanks S1006 - TANK 1006, S2013 - TANK 12467, S4310 – TANK 13285 SOUR WATER, S17095 – TANK 17095, S6069 – TANK 17596, S6070 – TANK 17597, S6071 – TANK 17598, S6072 – TANK 17595

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Condition # 18618	Applies to S1006, S2013, S6069, S6070, S6071, S6072, and S17095		
Part 1	Throughput limit (basis: Regulation 2-1-234.3, 2-1-307)	N	
Part 2	Recordkeeping (basis: Regulation 2-1-234.3, 2-1-307)	N	
BAAQMD Condition # 20042	Applies to S17095		
Part 1	Throughput limit [basis: Cumulative Increase]	Y	
Part 2	Design Requirements [basis: BACT, Cumulative Increase]	Y	
Part 3	Recordkeeping [basis: Cumulative Increase]	Y	
BAAQMD Condition # 25134	Applies to S6069 through S6072		
Part 1a	Annual throughput limit for S6069, S6070, S6071, and S1128 combined [basis: Cumulative Increase, Offsets]	Y	
Part 1b	Annual throughput limit for S6072 [basis: Cumulative Increase, Offsets]	Y	
Part 1c	Emission calculations if throughput limit is exceeded [basis: Cumulative Increase, Offsets]	Y	
Part 2	Annual POC emission limit for S6069, S6070, S6071, S6072, and S1128 [basis: Cumulative Increase, Offsets]	Y	
Part 3	Calendar day throughput and POC emission limits for S6069, S6070, S6071,S6072, and S1128 [basis: Regulation 2-1-234]	Y	
Part 4	Annual throughput and emissions limits for S6069, S6070, S6071, S6072, and S1128 [basis: Regulation 2-1-234]	Y	
Part 5	Materials stored criteria in S6069, S6070, S6071, and S6072 [basis: Cumulative Increase, BACT, Regulation 2, Rule 5]	Y	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

Table IV – N
Source-specific Applicable Requirements
External Floating Roof Tanks S1006 - TANK 1006, S2013 - TANK 12467, S4310 – TANK 13285 SOUR WATER, S17095 – TANK 17095, S6069 – TANK 17596, S6070 – TANK 17597, S6071 – TANK 17598, S6072 – TANK 17595

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 7	Comply with 40 CFR 60 Subpart Kb and BAAQMD Regulation 8, Rule 5 for S6069, S6070, S6071, S6072, and S1128	Y	
Part 8	Temperature monitoring device for S6069, S6070, S6071, S6072, and S1128 [basis: Cumulative Increase]	Y	
Part 9	District-approved log for recordkeeping [basis: Cumulative Increase, Recordkeeping]	Y	
Part 14	Fugitive components: Count of fugitive components [basis: Cumulative Increase, Offsets, Regulation 2-5]	Y	
Part 15	Fugitive components: Offset adjustment [basis: Offsets, Cumulative Increase]	Y	
Part 16a	Fugitive components: Valves in hydrocarbon service fugitive component types [basis: Cumulative Increase, Regulation 8, Rule 18]	Y	
Part 16b	Fugitive components: Flanges in hydrocarbon service fugitive component type [basis: Cumulative Increase, Regulation 8, Rule 18]	Y	
Part 16c	Fugitive components: Pumps in hydrocarbon service fugitive component type [basis: Cumulative Increase, Regulation 8, Rule 18]	Y	
Part 17	Fugitive components: Leak standard [basis: Cumulative Increase, Regulation 8, Rule 18]	Y	
Part 18	Fugitive components: Inspection frequency [basis: Cumulative Increase, Regulation 8, Rule 18]	Y	
Part 19	Fugitive components: Emissions limit and reporting requirements [basis: Cumulative Increase, Offsets]	Y	
Part 20	Fugitive components: District-approved log installed as part of application 22045	Y	
Part 30	Reporting: Annual report to the District's Engineering Division [basis: CEQA, Recordkeeping]	Y	
Part 31	Reporting: Any non-compliance with emission limits [basis: CEQA, Recordkeeping]	Y	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

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

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

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

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

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

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-5-322	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 (02/27/14)**		
61.01	Lists of pollutants and applicability of part 61	Y	
61.04	Address	Y	
61.05	Prohibited activities	Y	
61.07	Application for approval of construction or modification	Y	
61.09	Notification of startup	Y	
61.10	Source reporting and waiver request	Y	
61.12	Compliance with standards and maintenance requirements	Y	
61.13	Emission tests and waiver of emission tests	Y	
61.14	Monitoring requirements	Y	
61.19	Circumvention	Y	
NESHAP 40 CFR 61 Subpart FF; BAAQMD Regulation 11 Rule 12	**National Emission Standard for Benzene Waste Operations (12/04/03); BAAQMD National Emission Standard for Benzene Emissions, From Benzene Transfer Operations, and Benzene Waste Operations (01/05/94)**		
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	

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
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	
NESHAP 40 CFR 63 Subpart CC	**National Emissions Standards for Hazardous Air Pollutants from Petroleum Refineries (7/13/16)**		
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	
63.655	Reporting and recordkeeping requirements	Y	
63.655(a)	Owners/operators subject to the wastewater provisions of 63.647 shall comply with the recordkeeping and reporting requirements of 61.356 and 61.357 of 40 CFR 61, subpart FF, unless they comply with those specified in paragraph (o)(2)(ii) of 63.640. Recordkeeping and reporting for wastewater streams included in emission averages are specified in 63.653 and in paragraphs (f)(5) and (g)(8) of this section.	Y	
63.655(i)(6)	All information required to be reported under 63.655(a) through (h) shall be retained for 5 years.	Y	

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

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

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

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

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

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

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

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

Applicable Requirement	Regulation Title or Description of Requirement		Federally Enforceable (Y/N)	Future Effective Date
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 40 CFR 60 Subpart Kb	**Volatile Organic Liquid Storage Vessels REQUIREMENTS FOR EXTERNAL FLOATING ROOF TANKS (10/15/03)**			
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	
	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	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

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

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

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

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

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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
	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	
	Are EFR rim seals allowed to be pulled back or temporarily removed during inspection?	60.113b(b)(4)(ii)(B) **not addressed** *	Y	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

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

Applicable Requirement	Regulation Title or Description of Requirement		Federally Enforceable (Y/N)	Future Effective Date
	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 – P
Source-specific Applicable Requirements
External Foating Roof Tanks
S1077 - TANK 1411
S12490 – LOG TANK 12519 WASTEWATER ETP 1& 2
S12491 - LOG TANK 12520 WASTEWATER ETP 1&2

Applicable Requirement	Regulation Title or Description of Requirement		Federally Enforceable (Y/N)	Future Effective Date
60.115b(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 – P
Source-specific Applicable Requirements
External Foating Roof Tanks
S1077 - TANK 1411
S12490 – LOG TANK 12519 WASTEWATER ETP 1& 2
S12491 - LOG TANK 12520 WASTEWATER ETP 1&2

Applicable Requirement	Regulation Title or Description of Requirement		Federally Enforceable (Y/N)	Future Effective Date
60.116b(e)	**True vapor pressure (TVP) determination for applicability:**	60.116b(e) **maximum TVP of the stored liquid, based on highest calendar month average storage temperature**	Y	
NSPS 40 CFR 60 Subpart A	**New Source Performance Standards GENERAL PROVISIONS (02/27/14)**			
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;	**National Emission Standard for Benzene Waste Operations (12/04/03); BAAQMD National Emission Standard for Benzene Emissions, From**			

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 11 Rule 12	**Benzene Transfer Operations, and Benzene Waste Operations (01/05/94)**		
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	
NESHAP 40 CFR 63 Subpart CC	**National Emissions Standards for Hazardous Air Pollutants from Petroleum Refineries (7/13/16)**		
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	
63.655	Reporting and recordkeeping requirements	Y	
63.655(a)	Owner/operators subject to the wastewater provisions of 63.647 shall comply with the recordkeeping and reporting requirements in 61.356 and 61.357 of 40 CFR part 61, subpart FF, unless they comply with those specified in paragraph (o)(2)(ii) of 63.640. Recordkeeping and reporting for wastewater streams included in emission averages are specified in 63.653 and in paragraphs (f)(5) and (g)(8) of this section.	Y	
63.655(i)(6)	All information required to be reported under 63.655 (a) through (h) shall be retained for 5 years.	Y	
BAAQMD Condition #	Applies to S12490 and S12491		

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8502			
Part 1	Level indicating device [basis: Cumulative Increase]	Y	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

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

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

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

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

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

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-5-301	Storage Tank Control Requirements	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	
NESHAP 40 CFR 63 Subpart CC	**NESHAP for Petroleum Refineries** **REQUIREMENTS FOR FIX ROOF TANKS-CONTROL DEVICE ALSO SUBJECT TO NSPS Kb (7/13/16)**		
63.640(n)	Which rule governs for storage vessels subject to both Refinery MACT and NSPS subpart Kb? 63.640(n)(2) **NSPS subpart Kb**	Y	
63.640(n)(8)(viii)	Control device requirements 63.640(n)(8)(viii)	Y	
NSPS 40 CFR 60 Subpart Kb	**Volatile Organic Liquid Storage Vessels** **REQUIREMENTS FOR FIXED ROOF TANK-CONTROL DEVICE (10/15/03)**		
60.112b(a)	**Closed vent system** Performance requirements: 60.112b(a)(3)(i) **no detectable emissions (i.e., < 500 ppm)**	Y	
	Control device Performance requirements: 60.112b(a)(3)(ii) **at least 95% efficient**	Y	
60.113b(c)	**Control device (other than flare)** Compliance demonstration: 60.113b(c)(1) **operating plan, efficiency demo, & parameter(s) to be monitored**	Y	
	Other (initial) Reports: For control device Other-than flare? 60.113b(c)(1) **submit operating plan for approval, with the initial notification**	Y	
	Control device (other than flare) Operating requirements: 60.113b(c)(2) **operate and monitor per the plan**	Y	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

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

Applicable Requirement	Regulation Title or Description of Requirement		Federally Enforceable (Y/N)	Future Effective Date
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	
BAAQMD Condition # 7215				
Part 1	Abatement requirement [basis: Cumulative Increase] (For S1114)		Y	
Part 2	Annual throughput limit [basis: Cumulative Increase] (For S1114)		Y	
Part 3	Recordkeeping [basis: Cumulative Increase] (For S1114)		Y	
Part 4	Abatement requirement [basis: Cumulative Increase] (For S1115)		Y	
Part 5	Annual throughput limit [basis: Cumulative Increase] (For S1115)		Y	
Part 6	Recordkeeping [basis: Cumulative Increase] (For S1115)		Y	
BAAQMD Condition # 18618				
Part 1	Throughput limit (basis: Regulation 2-1-234.3, 2-1-307)		N	
Part 2	Recordkeeping (basis: Regulation 2-1-234.3, 2-1-307)		N	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

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

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

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

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

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-5-306.1	Requirements for approved Emission Control System; Abatement Efficiency >=95%	N	
8-5-307	Requirements for fixed roof tanks, pressure tanks and blanketed tanks	N	
8-5-307.1	Requirements for fixed roof tanks, pressure tanks and blanketed tanks; no liquid leakage through shell	N	
8-5-328	Tank Degassing Requirements	N	
8-5-328.1	Tank degassing requirements; Tanks > 75 cubic meters	N	
8-5-328.2	Tank degassing requirements; Ozone Excess Day Prohibition	N	
8-5-328.3	Tank degassing requirements; BAAQMD notification required	N	
8-5-331	Tank cleaning requirements; 90% Abatement efficiency if abatement device used	N	
8-5-331.1	Tank cleaning requirements; Cleaning materials properties	N	
8-5-331.2	Tank cleaning requirements; Steam cleaning prohibition	N	
8-5-331.3	Tank cleaning requirements; Steam cleaning exceptions	N	
8-5-332	Sludge Handling Requirements (applies to sludge removed from any tank that was subject to BAAQMD 8-5 at any time since it was last put in service)	N	
8-5-332.1	Sludge Handling Requirements; sludge container no leaks	N	
8-5-332.2	Sludge Handling Requirements; sludge container gap requirements	N	
8-5-403	Inspection Requirements for Pressure Relief Devices	N	
8-5-403.1	Inspection Requirements for Pressure Relief Devices; Pressure vacuum valves gas tight standards in 8-5-303	N	
8-5-404	Inspection, Abatement Efficiency Determination and Source Test Reports	N	
8-5-501	Records	Y	
8-5-501.1	Records; Type and amount of liquid, type of blanket gas, TVP- Retain 24 monhts	N	
8-5-501.3	Records; Retention	N	
8-5-501.4	Records; New pressure vacuum valve setpoints	N	
8-5-502	Annual Source Test Requirement and Exemption for Sources Vented to Fuel Gas	N	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-5-502.1	Source Test Requirements; Annual source test for approved emission control systems and abatement devices for 8-5-303.2, 8-5-306.1, 8-5-307.3	N	
8-5-502.2	Source test requirements; Tank degassing and cleaning abatement devices	N	
SIP Regulation 8 Rule 5	**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	
8-5-303	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	
NESHAP 40 CFR 63 Subpart CC	**NESHAP for Petroleum Refineries REQUIREMENTS FOR FIX ROOF TANKS-CONTROL DEVICE ALSO SUBJECT TO NSPS Kb (7/13/16)**		
63.647	Wastewater provisions	Y	
63.647(a)	Owners/operators of Group 1 wastewater streams shall comply with sections 61.340 to 61.355 of 40 CFR part 61, subpart FF for each stream that meets the definition of 63.641.	Y	
63.647(c)	Flare control device requirements	Y	
63.655	Reporting and recordkeeping requirements	Y	
63.655(a)	Owner/operators subject to the wastewater provisions of 63.647 shall comply with the recordkeeping and reporting requirements in 61.356 and 61.357 of 40 CFR part 61, subpart FF, unless they comply with those specified in paragraph (o)(2)(ii) of 63.640. Recordkeeping and reporting for wastewater streams included in emission averages are specified in 63.653 and in paragraphs (f)(5) and (g)(8) of this section.	Y	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

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

Applicable Requirement	Regulation Title or Description of Requirement		Federally Enforceable (Y/N)	Future Effective Date
63.655(i)	Recordkeeping		Y	
63.655(i)(6)	All information required to be reported under 63.655(a) through (h) shall be retained for 5 years.		Y	
NSPS 40 CFR 60 Subpart Kb	**Volatile Organic Liquid Storage Vessels REQUIREMENTS FOR FIXED ROOF TANK-CONTROL DEVICE (10/15/03)**			
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 40 CFR 60 Subpart A	**New Source Performance Standards GENERAL PROVISIONS (2/27/14)**			
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 – Q
Source-specific Applicable Requirements
Fixed Roof Tanks
S1114 - TANK 1114 SPENT ACID, S1115 - TANK 1115 SPENT ACID

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
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	
NESHAP 40 CFR 61 Subpart FF; BAAQMD Regulation 11 Rule 12	**National Emission Standard for Benzene Waste Operations (12/04/03); BAAQMD National Emission Standard for Benzene Emissions, From Benzene Transfer Operations, and Benzene Waste Operations (01/05/94)**		
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	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
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	
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 – S
Source-specific Applicable Requirements
Fixed Roof Tank
S4334 – TANK 13276 ALKYLATE

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

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

Table IV – S
Source-specific Applicable Requirements
Fixed Roof Tank
S4334 – TANK 13276 ALKYLATE

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-5-331	Tank cleaning requirements; 90% Abatement efficiency if abatement device used	N	
8-5-331.1	Tank cleaning requirements; Cleaning materials properties	N	
8-5-331.2	Tank cleaning requirements; Steam cleaning prohibition	N	
8-5-331.3	Tank cleaning requirements; Steam cleaning exceptions	N	
8-5-332	Sludge Handling Requirements (applies to sludge removed from any tank that was subject to BAAQMD 8-5 at any time since it was last put in service)	N	
8-5-332.1	Sludge Handling Requirements; sludge container no leaks	N	
8-5-332.2	Sludge Handling Requirements; sludge container gap requirements	N	
8-5-403	Inspection Requirements for Pressure Relief Devices	N	
8-5-403.1	Inspection Requirements for Pressure Relief Devices; Pressure vacuum valves gas tight standards in 8-5-303	N	
8-5-404	Inspection, Abatement Efficiency Determination and Source Test Reports	N	
8-5-501	Records	Y	
8-5-501.1	Records; Type and amount of liquid, type of blanket gas, TVP- Retain 24 monhts	N	
8-5-501.3	Records; Retention	N	
8-5-501.4	Records; New pressure vacuum valve setpoints	N	
8-5-502	Annual Source Test Requirement and Exemption for Sources Vented to Fuel Gas	N	
8-5-502.1	Source Test Requirements; Annual source test for approved emission control systems and abatement devices for 8-5-303.2, 8-5-306.1, 8-5-307.3	N	
8-5-502.2	Source test requirements; Tank degassing and cleaning abatement devices	N	
SIP Regulation 8 Rule 5	**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	
8-5-303	Requirements for Pressure Vacuum Valve	Y	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

Table IV – S
Source-specific Applicable Requirements
Fixed Roof Tank
S4334 – TANK 13276 ALKYLATE

Applicable Requirement	Regulation Title or Description of Requirement		Federally Enforceable (Y/N)	Future Effective Date
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 40 CFR 60 Subpart Kb	**Volatile Organic Liquid Storage Vessels** **REQUIREMENTS FOR FIXED ROOF TANK-CONTROL DEVICE (10/15/03)**			
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	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

Table IV – S
Source-specific Applicable Requirements
Fixed Roof Tank
S4334 – TANK 13276 ALKYLATE

Applicable Requirement	Regulation Title or Description of Requirement		Federally Enforceable (Y/N)	Future Effective Date
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 40 CFR 60 Subpart A	**New Source Performance Standards GENERAL PROVISIONS (2/27/14)**			
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	
60.8(b)(4)	Performance tests	60.8(b)(4) **alternate means of compliance demonstration**	Y	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

Table IV – S
Source-specific Applicable Requirements
Fixed Roof Tank
S4334 – TANK 13276 ALKYLATE

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 d. after modifications (otherwise prior to fill)**	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	Equipment specification [basis: BACT]	Y	
Part 51	Degassing abatement requirements [basis: BACT]	Y	
BAAQMD Condition # 18618			
Part 1	Throughput limit (basis: Regulation 2-1-234.3, 2-1-307)	N	
Part 2	Recordkeeping (basis: Regulation 2-1-234.3, 2-1-307)	N	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 6 Rule 1	**Particulate Matter – General Requirements (08/01/18)**		
6-1-301	Ringelmann No. 1 Limitation	N	
6-1-305	Visible Particles	N	
SIP Regulation 6	**Particulate Matter and Visible Emissions (9/4/98)**		
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 – U
SOURCE-SPECIFIC APPLICABLE REQUIREMENTS
FIXED ROOF TANKS
S1117 - TANK 1117 SKIM

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

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

TABLE IV – U
SOURCE-SPECIFIC APPLICABLE REQUIREMENTS
FIXED ROOF TANKS
S1117 - TANK 1117 SKIM

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-5-332	Sludge Handling Requirements (applies to sludge removed from any tank that was subject to BAAQMD 8-5 at any time since it was last put in service)	N	
8-5-332.1	Sludge Handling Requirements; sludge container no leaks	N	
8-5-332.2	Sludge Handling Requirements; sludge container gap requirements	N	
8-5-403	Inspection Requirements for Pressure Relief Devices	N	
8-5-403.1	Inspection Requirements for Pressure Relief Devices; Pressure vacuum valves gas tight standards in 8-5-303	N	
8-5-501	Records	Y	
8-5-501.1	Records; Type and amount of liquid, type of blanket gas, TVP- Retain 24 monhts	N	
8-5-501.3	Records; Retention	N	
8-5-501.4	Records; New pressure vacuum valve setpoints	N	
SIP Regulation 8 Rule 5	**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	
8-5-303	Requirements for Pressure Vacuum Valve	Y	
8-5-306	Requirements for Approved Emission Control Systems	Y	
8-5-328	Tank Degassing Requirements	Y	
8-5-403	Inspection Requirements for Pressure Vacuum Valves	Y	
8-5-404	Certification	Y	
8-5-501.1	Records	Y	
8-5-502	Tank Degassing Annual Source Test Requirement	Y	
8-5-503	Portable Hydrocarbon Detector	Y	
BAAQMD Condition # 12190	Applies to S1117		
Part 1	Annual throughput limit and recordkeeping [basis: Cumulative Increase]	Y	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

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

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

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

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

8-5-332	Sludge Handling Requirements (applies to sludge removed from any tank that was subject to BAAQMD 8-5 at any time since it was last put in service)	N	
8-5-332.1	Sludge Handling Requirements; sludge container no leaks	N	
8-5-332.2	Sludge Handling Requirements; sludge container gap requirements	N	
8-5-402	Inspection Requirements for Internal Floating Roof Tanks	Y	
8-5-402.1	Inspection Requirements for Internal Floating Roof Tanks; Primary and Secondary Seal Inspections	Y	
8-5-402.2	Inspection Requirements for Internal Floating Roof Tanks; Visual Inspection of Outer Most Seal	N	
8-5-402.3	Inspection Requirements for Internal Floating Roof Tanks; Tank Fitting Inspection	N	
8-5-501	Records	Y	
8-5-501.1	Records; Type and amount of liquid, type of blanket gas, TVP- Retain 24 monhts	N	
8-5-501.2	Records; Internal and External Floating Roof Tanks, Seal Replacement Records- Retain 10 years	N	
8-5-501.3	Records; Retention	N	
SIP Regulation 8 Rule 5	**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	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

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

NESHAP 40 CFR 61 Subpart FF; BAAQMD Regulation 11 Rule 12	**National Emission Standard for Benzene Waste Operations (12/04/03); BAAQMD National Emission Standard for Benzene Emissions, From Benzene Transfer Operations, and Benzene Waste Operations (01/05/94)**		
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	
NESHAP 40 CFR 63 Subpart CC	**National Emissions Standards for Hazardous Air Pollutants from Petroleum Refineries (7/13/16)**		
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	
63.655	Reporting and recordkeeping requirements	Y	
63.655(a)	Owners/operators subject to the wastewater provisions of 63.647 shall comply with the recordkeeping and reporting requirements of 61.356 and 61.357 of 40 CFR 61, subpart FF, unless they comply with those specified in paragraph (o)(2)(ii) of 63.640. Recordkeeping and reporting for wastewater streams included in emission averages are specified in 63.653 and in paragraphs (f)(5) and (g)(8) of this section.	Y	
63.655(i)(6)	All information required to be reported under 63.655(a) through (h) shall be retained for 5 years.	Y	
BAAQMD Condition # 18618			
Part 1	Throughput limit (basis: Regulation 2-1-234.3, 2-1-307)	N	
Part 2	Recordkeeping (basis: Regulation 2-1-234.3, 2-1-307)	N	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

Table IV – W
Source-specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 8, Rule 2	Applicable to sources S1445 & S1774 **Miscellaneous Operations (07/20/05)**		
8-2-301	Limit on Organic Emissions from Miscellaneous Operations	Y	
BAAQMD Regulation 8, Rule 9	**Vacuum Producing Systems (07/20/83)**		
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 – W
Source-specific Applicable Requirements

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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),
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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-10-302.2	Organic compound concentration of a refinery process vessel may exceed 10,000 ppm prior to release to atmosphere provided total number of such vessels during 5-year period does not exceed 10%	N	
8-10-401	Turnaround Records. Annual report due February 1 of each year with initial report of process vessels due 4/1/2004.	N	
8-10-501	Monitoring prior to and during process vessel opening	Y	
8-10-502	Concentration measurement using EPA Method 21	Y	
8-10-503	Recordkeeping	N	
8-10-601	Monitoring Procedures	N	
SIP Regulation 8, Rule 10	**Organic Compound – Process Vessel Depressurization (10/03/84)**		
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	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
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 (12/16/15)**		
8-18-110	Exemption, Controlled Seal Systems and Pressure Relief Devices	N	
8-18-113	Limited Exemption, Initial Boiling Point	N	
8-18-115	Limited Exemption, Storage Tanks	Y	
8-18-116	Limited Exemption, Vacuum Service	Y	
8-18-119	Limited Exemption, Open-ended Valve or Line	N	
8-18-120	Limited Exemption, Non-repairable Equipment	N	
8-18-301	General	Y	
8-18-302	Valves	N	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

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S4160 – DC HYDROGEN PLANT 3 (HP3),

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-18-303	Pumps and Compressors	N	
8-18-304	Connections	N	
8-18-305	Pressure Relief Devices	N	
8-18-306	Non-repairable Equipment	N	
8-18-307	Liquid Leak	Y	
8-18-308	Alternative Compliance	Y	
8-18-309	Open-ended Valve or Line	N	
8-18-310	Recurrent Leaks	N	
8-18-311	Mass Emissions	N	
8-18-401	Inspection	N	
8-18-402	Identification	N	01/01/17 (For Connectors)
8-18-403	Visual Inspection Schedule	N	
8-18-404	Alternative Inspection Schedule	N	
8-18-405	Alternative Emission Reduction Plan	Y	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

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S4160 – DC HYDROGEN PLANT 3 (HP3),

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-18-406	Interim Compliance	Y	
8-18-407	Recurrent Leak Schedule	N	
8-18-501	Portable Hydrocarbon Detector	N	
8-18-502	Records	N	
8-18-503	Reports	N	
SIP Regulation 8, Rule 18	**Organic Compounds – Equipment Leaks (06/05/03)**		
8-18-110	Exemption, Controlled Seal Systems and Pressure Relief Devices	Y	
8-18-113	Limited Exemption, Initial Boiling Point	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	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

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S4160 – DC HYDROGEN PLANT 3 (HP3),

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-18-401	Inspection	Y	
8-18-402	Identification	Y	
8-18-403	Visual Inspection Schedule	Y	
8-18-404	Alternate Inspection Schedule	Y	
8-18-501	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 (12/21/05)**		
8-28-302	Pressure Relief Devices at New or Modified Sources at Petroleum Refineries	N	
8-28-303	Pressure Relief Devices at Existing Sources at Petroleum Refineries	N	
8-28-304	Repeat Release Pressure Relief Devices at Petroleum Refineries	Y	
8-28-304.1	Repeat Release Pressure Relief Devices at Petroleum Refineries	N	
8-28-304.2	Repeat Release Pressure Relief Devices at Petroleum Refineries	Y	
8-28-401	Reporting at Petroleum Refineries and Chemical Plants	N	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

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

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-28-405	Prevention Measures Procedures	Y	
NESHAP 40 CFR 63 Subpart CC	**National Emissions Standards for Hazardous Air Pollutants from Petroleum Refineries (7/13/16)** **Applies to S4001**		
63.655(e)	Reporting requirements	Y	
63.655(f)(1)(viii)	Notification of compliance for delayed coking units	Y	1/30/2019
63.655(g)(12)	Periodic report requirements	Y	1/30/2019
63.655(i)(6)	Information reported required to be maintained for 5 years	Y	1/30/2019
63.655(i)(7)	Recordkeeping requirements	Y	1/30/2019
63.657	Delayed coking unit decoking operation standards	Y	1/30/2019
BAAQMD Condition # 7618	Applies to S1420		
Part C	Actions resulting from non-compliance [basis: Regulation 2-2-302] (Applies to S1420 and S1759)	N	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part C.a	Crude oil process throughput limit [basis: Regulation 2-2-302] (Applies to S1420)	Y	
Part C.b	Flexicoker feed process limit [basis: Regulation 2-2-302] (Applies to S1759)	Y	
Part C.e	Sulfur content limit of liquid fuel [basis: Regulation 2-2-302] (Applies to S1759)	Y	
Part E.2.a.	Duration of startups and shutdowns (Applies to S1759)	Y	
Part E.2.d.	Quantification of SO2 emissions during startups and shutdowns (Applies to S1759)	Y	
Part G	Records [basis: Cumulative Increase] (Applies to S1420 and S1759)	Y	
BAAQMD Condition # 12271	Applies to S4001, S4020, S4050, S4080, S4140, and S4160		
Part A	Monthly and annual emission limits [basis: Offsets, Cumulative Increase]	Y	
Part B	Applicable sources [basis: Offsets, Cumulative Increase]	Y	
Part C	In the case of a process upset or other irregularity [basis: Offsets, Cumulative Increase]	N	

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S1764 – OPCEN DIMERSOL PLANT (DIMER),
S1770 – OPCEN C3/C4 SPLITTER, S1774 – OPCEN HYDROGEN PLANT 2 (HP2),
S4001 – DC DELAYED COKING UNIT (DCU) ,
S4020 – DC DISTILLATE HYDROTREATER (DHT),
S4050 - DC CATALYTIC GAS DEPENTANIZER (CGDP),
S4080 - DC ISOMERIZATION UNIT (ISOM),
S4140 – DC HEAVY CRACKED GASOLINE HYDROTREATER (HGHT),
S4160 – DC HYDROGEN PLANT 3 (HP3),

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

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

Table IV – W
Source-specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 13	Fugitive requirements for process sample systems [basis: BACT]	Y	
Part 14	Fugitive requirements for process drains [basis: BACT]	Y	
BAAQMD Condition # 18618	Applies to S1417, S1420, S1423, S1424, S1428, S1429, S1430, S1445, S1449, S1759, S1764, S1774, S4001, S4020, S4080, S4140, S4160 Does not apply to S1421, S1422, S1427, S1433, S1434, S1435, S1436, S1446, S1447, S1448, S1462, S1463, S1464, S1770, S4050		
Part 1	Throughput limit (basis: Regulation 2-1-234.3, 2-1-307)	N	
Part 2	Recordkeeping (basis: Regulation 2-1-234.3, 2-1-307)	N	
BAAQMD Condition # 18643	Applies to S1417, S1429, S1430, S1449, S1764, S4080, S4050, and S4140		
Part 2	New pump in light liquid requirement [basis: BACT/TBACT; Cumulative Increase]	Y	
Part 3	New valves in POC gas and light liquid requirement [basis: BACT/TBACT; Cumulative Increase]	Y	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

Table IV – W
Source-specific Applicable Requirements

S1417 – OPCEN DISTILLATE SATURATION UNIT (DSU), S1420 – DH CRUDE UNIT (CU), S1421 – DH VACUUM FLASHER UNIT (VFU), S1422 – DH MARINE FUEL OIL BLENDER, S1423 – DH GAS OIL STRAIGHTRUN HYDROTREATER (GOHT), S1424 – DH NAPHTHA STRAIGHTRUN HYDROTREATER (NHT), 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) ,
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S4050 - DC CATALYTIC GAS DEPENTANIZER (CGDP),
S4080 - DC ISOMERIZATION UNIT (ISOM),
S4140 – DC HEAVY CRACKED GASOLINE HYDROTREATER (HGHT),
S4160 – DC HYDROGEN PLANT 3 (HP3),

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 4	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] (Applies to S1417 and S4050 only)	Y	
BAAQMD Condition # 21896	Applies to S1445 & S1774		
Part 1	Source test to demonstrate compliance with Regulation 8-2-301 (Basis: Regulation 2-6-409.2)	Y	
BAAQMD Condition # 24162	Applies to S1424		
Part 1	Daily and annual throughput limit (Basis: Regulation 2-1-302)	N	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

Table IV – W
Source-specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 2	Recordkeeping requirements (Basis: Cumulative Increase, Regulation 2-1-403)	Y	
BAAQMD Condition # 25345	Applies to S1427		
Part 6	Types of Fugitive Components that are allowed to be installed [Basis: Cumulative Increase, Regulation 8, Rule 18]	Y	
Part 8	Recordkeeping Requirements [Basis: Offsets, Recordkeeping]	Y	
BAAQMD Condition 26555	Applies to S-1427, S-1429		
Part 1	Number of Fugitive Componenets allowed to be installed [Basis: Cumulative Increase, Offsets, Toxics]		
Part 2	Offset requirements if count exceeds Part 1 Limit. [Basis: Cumulative Increase, Offsets, Toxics]		

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

Table IV – W
Source-specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 3	Types of Fugitive Componenets allowed to be installed [Basis: Cumulative Increase, Offsets, Toxics]		
Part 4	Recordkeeping [Basis: Recordkeeping]		

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 8, Rule 9	**Vacuum Producing Systems (07/20/83)**		
8-9-301	Vacuum Producing Systems	Y	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 8, Rule 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 (10/03/84)**		
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 (12/16/15)**		
8-18-110	Exemption, Controlled Seal Systems and Pressure Relief Devices	N	
8-18-113	Limited Exemption, Initial Boiling Point	N	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-18-115	Limited Exemption, Storage Tanks	Y	
8-18-116	Limited Exemption, Vacuum Service	Y	
8-18-119	Limited Exemption, Open-ended Valve or Line	N	
8-18-120	Limited Exemption, Non-repairable Equipment	N	
8-18-301	General	Y	
8-18-302	Valves	N	
8-18-303	Pumps and Compressors	N	
8-18-304	Connections	N	
8-18-305	Pressure Relief Devices	N	
8-18-306	Non-repairable Equipment	N	
8-18-307	Liquid Leak	Y	
8-18-308	Alternative Compliance	Y	
8-18-309	Open-ended Valve or Line	N	
8-18-310	Recurrent Leaks	N	
8-18-311	Mass Emissions	N	
8-18-401	Inspection	N	
8-18-402	Identification	N	01/01/17 (For Connectors)
8-18-403	Visual Inspection Schedule	N	
8-18-404	Alternative Inspection Schedule	N	
8-18-405	Alternative Emission Reduction Plan	Y	
8-18-406	Interim Compliance	Y	
8-18-407	Recurrent Leak Schedule	N	
8-18-501	Portable Hydrocarbon Detector	N	
8-18-502	Records	N	
8-18-503	Reports	N	
SIP Regulation 8, Rule 18	**Organic Compounds – Equipment Leaks (06/05/03)**		
8-18-110	Exemption, Controlled Seal Systems and Pressure Relief Devices	Y	
8-18-113	Limited Exemption, Initial Boiling Point	Y	
8-18-302	Valves	Y	
8-18-303	Pumps and Compressors	Y	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-18-304	Connections	Y	
8-18-305	Pressure Relief Devices	Y	
8-18-306	Non-repairable Equipment	Y	
8-18-401	Inspection	Y	
8-18-402	Identification	Y	
8-18-403	Visual Inspection Schedule	Y	
8-18-404	Alternate Inspection Schedule	Y	
8-18-501	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 (12/21/05)**		
8-28-302	Pressure Relief Devices at New or Modified Sources at Petroleum Refineries	N	
8-28-303	Pressure Relief Devices at Existing Sources at Petroleum Refineries	N	
8-28-304	Repeat Release Pressure Relief Devices at Petroleum Refineries	Y	
8-28-304.1	Repeat Release Pressure Relief Devices at Petroleum Refineries	N	
8-28-304.2	Repeat Release Pressure Relief Devices at Petroleum Refineries	Y	
8-28-401	Reporting at Petroleum Refineries and Chemical Plants	N	
8-28-402	Inspection	N	
8-28-404	Identification	N	
8-28-405	Process Safety Requirements	N	
8-28-502	Records	N	
8-28-503	Monitoring	N	
SIP Regulation 8, Rule 28	**Organic Compounds – Episodic Releases from Pressure Relief Devices at Petroleum Refineries and Chemical Plants (05/24/04)**		
8-28-302	Pressure Relief Devices at New or Modified Sources at Petroleum Refineries	Y	
8-28-303	Pressure Relief Devices at Existing Sources at Petroleum Refineries	Y	
8-28-304.1	Repeat Release Pressure Relief Devices at Petroleum Refineries	Y	
8-28-401	Reporting at Petroleum Refineries and Chemical Plants	Y	
8-28-402	Inspection	Y	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-28-403	Records	Y	
8-28-404	Identification	Y	
8-28-405	Prevention Measures Procedures	Y	
NESHAP 40 CFR Part 63 Subpart A	**MACT General Provisions (6/25/13)**		
63.4	Prohibited Activities and Circumvention	Y	
63.6	Compliance with Standards and Maintenance Requirements	Y	
63.6(e)	Operation and Maintenance Requirements	Y	
63.6(f)	Compliance with Nonopacity Emission Standards	Y	
63.6(g)	Use of Alternative Nonopacity Emission Standard (optional	Y	
63.7	Performance Tests	Y	
63.8	Monitoring	Y	
63.9	Notifications	Y	
63.9(e)	Notification of Performance Test	Y	
63.9(g)	Notification Requirements for sources with Continuous Monitoring Systems	Y	
63.9(h)	Notification of Compliance Status	Y	
63.9(j)	Change in information already provided	Y	
63.10	Recordkeeping and Reporting Requirements	Y	
63.10(a)	General Information	Y	
63.10(b)	General Recordkeeping Requirements	Y	
63.10(b)(2)	Records to be maintained	Y	
63.10(c)	Recordkeeping requirements for Continuous Monitoring Systems	Y	
63.10(d)	General Reporting Requirements	Y	
63.10(e)	Additional reports for sources with Continuous Monitoring Systems	Y	
63.10(e)(2)	Reporting results of Continuous Monitoring System performance evaluation	Y	
63.10(e)(3)	Excess Emissions and Continuous Monitoring System Performance Report and Summary Report	Y	
NESHAP 40 CFR 63 Subpart UUU	**NESHAP for Petroleum Refineries: Catalytic Reforming Units (12/01/15)**		
63.1562	What parts of my plant are covered by this subpart?	Y	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

Table IV – X
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
63.1562(f)	This subpart does not apply to:	Y	
63.1562(f)(5)	Gaseous streams routed to a fuel gas system.	Y	
63.1567	Requirements for Inorganic HAP Emissions from Catalytic Reforming Units	Y	
63.1567(a)	Emission Limitations and Work Practice Standards	Y	
63.1567(a)(1)	Emission Limitations for Hydrogen Chloride (HCl) during coke burn-off and catalyst rejuvenation using 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	
63.1567(a)(1)(i)	Reduce uncontrolled HCl emissions by 97%	Y	
63.1567(a)(2)	Operating limits for daily average pH or alkalinity of water and average liquid-to-gas ratio exiting wet scrubber during coke burn-off and catalyst rejuvenation: daily average pH or alkalinity of scrubbing liquid not fall below the limit established during performance test; daily average liquid-to-gas ratio not to fall below the limit established during performance test (Table 23 Item 1.a)	Y	
63.1567(a)(3)	Prepare Operation, Maintenance, and Monitoring Plan and operate in compliance with the plan	Y	
63.1567(c)	Continuous Compliance Demonstration	Y	
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 or alkalinity 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	
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	
63.1570	General Compliance Requirements	Y	
63.1570(a)	Operate in compliance with non-opacity standards at all times	Y	
63.1570(c)	Operate and maintain source including pollution control and monitoring equipment in a manner consistent with safety and good air pollution control practices for minimizing emissions.	Y	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

Table IV – X
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
63.1570(d)	During the period between the compliance date specified for your affected source and the date upon which continuous monitoring systems have been installed and validated and any applicable operating limits have been set, you must maintain a log detaileing the operation and maintenance of the process and emissions control equipment	Y	
63.1570(f)	Report deviations from compliance with this subpart according to the requirements of 63.1575	Y	
63.1571	Performance Tests	Y	
63.1571(a)	Conduct Performance Test and submit results no later than 150 days after compliance date	Y	
63.1571(a)(1)	For emission limitation or work practice standard where compliance not demonstrated using performance test, opacity observation, or visible emission observation, conduct initial compliance demonstration within 30 days after compliance date	Y	
63.1571(b)	Requirements for Performance Tests	Y	
63.1571(b)(1)	Conduct performance tests in accordance with the requirements of 63.7(e) except that performance tests shall be conducted at the maximum representative operating capacity for the process	Y	
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	
63.1571(b)(3)	Conduct each performance evaluation in accordance with the requirements of 63.8(e)	Y	
63.1571(b)(4)	Arithmetic average of emission rates	Y	
63.1571(c)	Procedures for an Engineering Assessment (optional in lieu of performance test)	Y	
63.1571(d)(4)	Adjust process or control device measured values when establishing operating limit (optional)	Y	
63.1571(e)	Changes to operating limits (optional)	Y	
63.1572	Monitoring installation, operation, and maintenance requirements	Y	
63.1572(c)	Continuous parameter monitoring requirements	Y	
63.1572(c)(1)	Install, operate, and maintain continuous parameter monitoring system (online pH/ alkaline meter) in a manner consistent with the manufacturer's specifications or other written procedures that provide adequate assurance that the equipment will monitor accurately.	Y	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.1572(c)(2)	Complete a minimum of one cycle for each 15-minute period; four cycles of operation for a valid hour of data	Y	
63.1572(c)(3)	Valid hourly data at least 75% of process operating hours	Y	
63.1572(c)(4)	Determine and record hourly and daily average of all recorded readings	Y	
63.1572(c)(5)	Record results of inspection, calibration, and validation check	Y	
63.1572(d)	Data monitoring and collection requirements	Y	
63.1572(d)(1)	Conduct monitoring at all times source is operating	Y	
63.1572(d)(2)	Do not use data recorded during required QA/QC activities (including calibration checks and required zero and span adjustments)	Y	
63.1573	Monitoring Alternatives	Y	
63.1573(b)	Alternatives for monitoring for pH (Table 41, Item 5) (optional)	Y	
63.1573(c)	Automated data compression system (optional)	Y	
63.1573(d)	Monitoring for alternative parameters (optional)	Y	
63.1573(e)	Alternative Monitoring Requests (optional)	Y	
63.1574	Notification Requirements	Y	
63.1574(a)	Notifications Required by Subpart A		
63.1574(a)(2)	Submit notification of intent to conduct performance test 30 days before scheduled (instead of 60 days)	Y	
63.1574(a)(3)	Notification of Compliance Status	Y	
63.1574(a)(3)(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	
63.1574(a)(3)(ii)	Submit Notification of Compliance Status for initial compliance demonstration that includes a performance test, no later than 150 days after source compliance date	Y	
63.1574(d)	Information to be Submitted in Notice of Compliance Status (Table 42): identification of affected sources and emission points (Item 1); initial compliance demonstration (Item 2); continuous compliance (Item 3)	Y	
63.1574(f)	Requirement to prepare Operation, Maintenance, and Monitoring Plan	Y	
63.1574(f)(1)	Submit plan to permitting authority for review and approval along with NOCS. Include duty to prepare and implement plan into Part 70 or 71 permit. Changes must be reviewed and approved by permitting authority.	Y	
63.1574(f)(2)	Minimum contents of Operation, Maintenance, and Monitoring Plan	Y	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

Table IV – X
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	Reports	Y	
63.1575(a)	Required reports: Statement that there were no deviations or report including information in 1575(c) through (e) (Table 43, Item 1) on a semi-annual basis	Y	
63.1575(b)	Specified semiannual report submittal dates	Y	
63.1575(c)	Information required in compliance report	Y	
63.1575(d)	Information required for deviations from emission limitations and work practice standards where CEMS or COMS **is not** used to comply with emission limitation or work practice standard	Y	
63.1575(f)	Additional information for compliance reports	Y	
63.1575(f)(2)	Submittal of requested change in the applicability of an emission standard	Y	
63.1575(g)	Submittal of reports required by other regulations in place of or as part of compliance report if they contain the required information	Y	
63.1575(k)	Electronic submittal of performance test and CEMS performance evaluation data	Y	
63.1575(k)(1)	Submittal of performance tests within 60 days	Y	
63.1576	Recordkeeping	Y	
63.1576(a)	Required Records – General	Y	
63.1576(d)	Records required by Tables 20, 21, 27, and 28 of Subpart UUU	Y	
63.1576(e)	Maintain copy of Operation, Maintenance, and Monitoring Plan	Y	
63.1576(f)	Records of changes that affect emission control system performance	Y	
63.1576(g)	Records in a form suitable and readily available for review	Y	
63.1576(h)	Maintain records for 5 years	Y	
63.1576(i)	Records onsite for two years; may be maintained offsite for remaining 3 years	Y	
BAAQMD Condition # 18618			
Part 1	Throughput limit (basis: Regulation 2-1-234.3, 2-1-307)	N	
Part 2	Recordkeeping (basis: Regulation 2-1-234.3, 2-1-307)	N	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

Table IV – Y
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 (05/04/11)**		
1-520	Continuous Emission Monitoring	Y	
1-520.5	SO2 and opacity monitors at catalyst regenerators of CCUs	Y	
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	Y	
1-522.1	Approval of Plans and Specifications	Y	
1-522.2	Installation Scheduling	Y	
1-522.3	CEM Performance Testing	Y	
1-522.4	Periods of Inoperation	Y	
1-522.5	Daily Monitor Calibration	Y	
1-522.6	CEM Maintenance	Y	
1-522.7	Excess Emissions Reported (Nature, Extent, and Cause)	N	
1-522.8	Monitoring Data Submittal	Y	
1-522.9	Records	Y	
1-522.10	Monitors Required By 1-521 or 2-1-403	Y	
SIP Regulation 1	**PROVISIONS NO LONGER IN CURRENT RULE General Provisions and Definitions (6/28/99)**		
1-522.7	Excess Emissions Reported (Nature, Extent, Cause, and Corrective Action)	Y	
BAAQMD Regulation 6 Rule 1	**Particulate Matter – General Requirements (08/01/18)**		
6-1-301	Ringelmann No. 1 Limitation	N	
6-1-302	Opacity Limitation (where opacity monitor is required by the District)	N	
6-1-305	Visible Particles	N	
6-1-310	Total Suspended Particulate (TSP) Concentration Limits	N	
6-1-311	Total Suspended Particulate (TSP) Weight Limits	N	
6-1-401	Appearance of Emissions	N	
6-1-501	Sampling Facilities and Instruments Required (where opacity monitor is required by the District)	N	
6-1-502	Data, Records and Reporting (where opacity monitor is required by the District)	N	
SIP Regulation 6	**Particulate Matter and Visible Emissions (9/4/98)**		

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

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

	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
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 6 Rule 5	**Particulate Emissions from Refinery Fluidized Catalytic Cracking Units (12/16/15)**		
6-5-101	Limits emissions of condensable particulate matter emissions from petroleum refinery fluidized catalytic cracking units as well as emissions of precursors of secondary particulate matter	N	
6-5-112	Limited Exemption, Emissions during Startup or Shutdown Periods	N	
6-5-115	Limited Exemption, Ammonia Optimization	N	
6-5-403	Ammonia Optimization: As an alternative to complying with 6-5-301, owner/operator may instead establish an enforceable ammonia emission limit for the FCCU that results in the minimization of total FCCU PM2.5 emissions	N	
6-5-501	Ammonia Monitoring	N	
6-5-602	Determination of Ammonia and Oxygen	N	
BAAQMD Regulation 8, Rule 9	**Vacuum Producing Systems (07/20/83)**		
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	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

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

	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-10-302.1	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 (10/03/84)**		
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 (12/16/15)**		
8-18-110	Exemption, Controlled Seal Systems and Pressure Relief Devices	N	
8-18-113	Limited Exemption, Initial Boiling Point	N	
8-18-115	Limited Exemption, Storage Tanks	Y	
8-18-116	Limited Exemption, Vacuum Service	Y	
8-18-119	Limited Exemption, Open-ended Valve or Line	N	
8-18-120	Limited Exemption, Non-repairable Equipment	N	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

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

	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-18-301	General	Y	
8-18-302	Valves	N	
8-18-303	Pumps and Compressors	N	
8-18-304	Connections	N	
8-18-305	Pressure Relief Devices	N	
8-18-306	Non-repairable Equipment	N	
8-18-307	Liquid Leak	Y	
8-18-308	Alternative Compliance	Y	
8-18-309	Open-ended Valve or Line	N	
8-18-310	Recurrent Leaks	N	
8-18-311	Mass Emissions	N	
8-18-401	Inspection	N	
8-18-402	Identification	N	
8-18-403	Visual Inspection Schedule	N	
8-18-404	Alternative Inspection Schedule	N	
8-18-405	Alternative Emission Reduction Plan	Y	
8-18-406	Interim Compliance	Y	
8-18-407	Recurrent Leak Schedule	N	
8-18-501	Portable Hydrocarbon Detector	N	
8-18-502	Records	N	
8-18-503	Reports	Y	
SIP Regulation 8, Rule 18	**Organic Compounds – Equipment Leaks (06/05/03)**		
8-18-110	Exemption, Controlled Seal Systems and Pressure Relief Devices	Y	
8-18-113	Limited Exemption, Initial Boiling Point	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	
8-18-401	Inspection	Y	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

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

	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-18-402	Identification	Y	
8-18-403	Visual Inspection Schedule	Y	
8-18-404	Alternate Inspection Schedule	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 (12/21/05)**		
8-28-302	Pressure Relief Devices at New or Modified Sources at Petroleum Refineries	N	
8-28-303	Pressure Relief Devices at Existing Sources at Petroleum Refineries	N	
8-28-304	Repeat Release Pressure Relief Devices at Petroleum Refineries	Y	
8-28-304.1	Repeat Release Pressure Relief Devices at Petroleum Refineries	N	
8-28-304.2	Repeat Release Pressure Relief Devices at Petroleum Refineries	Y	
8-28-401	Reporting at Petroleum Refineries and Chemical Plants	N	
8-28-402	Inspection	N	
8-28-404	Identification	N	
8-28-405	Process Safety Requirements	N	
8-28-502	Records	N	
8-28-503	Monitoring	N	
SIP Regulation 8, Rule 28	**Organic Compounds – Episodic Releases from Pressure Relief Devices at Petroleum Refineries and Chemical Plants (05/24/04)**		
8-28-302	Pressure Relief Devices at New or Modified Sources at Petroleum Refineries	Y	
8-28-303	Pressure Relief Devices at Existing Sources at Petroleum Refineries	Y	
8-28-304.1	Repeat Release Pressure Relief Devices at Petroleum Refineries	Y	
8-28-401	Reporting at Petroleum Refineries and Chemical Plants	Y	
8-28-402	Inspection	Y	
8-28-403	Records	Y	
8-28-404	Identification	Y	
8-28-405	Prevention Measures Procedures	Y	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

Table IV – Y
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 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	
NSPS 40 CFR 60 Subpart A	**General Provisions (02/27/14)**		
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(b)	Compliance with opacity standards	Y	
60.11(c)	Opacity standards during SU/SD/Malfunction	Y	
60.11(d)	Good air pollution control practice for minimizing emissions	Y	
60.11(e)	Opacity related requirements	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 (12/01/15)**		
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	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

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

	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.103(a)	Limit on carbon monoxide emissions from catalyst regenerator	Y	
60.104	Standard for Sulfur Oxides	Y	
60.104(b)(2)	Limit on sulfur oxide emissions from catalyst regenerator without add-on control device	Y	
60.104(c)	7-day rolling average	Y	
60.105	Monitoring of Emissions and Operations	Y	
60.105(a)(1)	Continuous opacity monitoring requirement for catalyst regenerator emissions to atmosphere	Y	
60.105(a)(2)	Continuous CO concentration monitoring requirement for catalyst regenerator emissions to atmosphere	Y	
60.105(c)	Average coke burn-off rate (Mg (tons) per hour) and hours of operation	Y	
60.105(d)	Rate of combustion of liquid or solid fossil-fuels and the hours of operation	Y	
60.105(e)	Periods of excess emissions	Y	
60.105(e)(1)	Opacity	Y	
60.105(e)(2)	Carbon monoxide	Y	
60.106	Test methods and procedures	Y	
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	
NESHAP 40 CFR Part 63 Subpart A	**MACT General Provisions (06/25/13)**		
63.4	Prohibited Activities and Circumvention	Y	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

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

	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.6	Compliance with Standards and Maintenance Requirements	Y	
63.6(e)	Operation and Maintenance Requirements	Y	
63.6(f)	Compliance with Nonopacity Emission Standards	Y	
63.6(g)	Use of Alternative Nonopacity Emission Standard (optional	Y	
63.6(h)	Compliance with Opacity and Visible Emission Standards	Y	
63.7	Performance Tests	Y	
63.8	Monitoring	Y	
63.9	Notifications	Y	
63.9(e)	Notification of Performance Test	Y	
63.9(g)	Notification Requirements for sources with Continuous Monitoring Systems	Y	
63.9(h)	Notification of Compliance Status	Y	
63.9(j)	Change in information	Y	
63.10	Recordkeeping and Reporting Requirements	Y	
63.10(a)	General Information	Y	
63.10(b)	General Recordkeeping Requirements	Y	
63.10(b)(2)	Records to be maintained	Y	
63.10(c)	Recordkeeping requirements for Continuous Monitoring Systems	Y	
63.10(d)	General Reporting Requirements	Y	
63.10(e)	Additional reports for sources with Continuous Monitoring Systems	Y	
63.10(e)(2)	Reporting results of Continuous Monitoring System performance evaluation	Y	
63.10(e)(3)	Excess Emissions and Continuous Monitoring System Performance Report and Summary Report	Y	
NESHAP 40 CFR 63 Subpart UUU	**NESHAP for Petroleum Refineries: Catalytic Cracking Units (12/01/15)**		
63.1564	Requirements for metal HAP emissions from catalytic cracking units	Y	
63.1564(a)	Emission Limitations and Work Practice Standards	Y	
63.1564(a)(1)	PM Emission Limitation for catalytic cracking units subject to NSPS limit: PM emissions must not exceed 1 lb per 1,000 lb of coke burn-off, plus 0.1 lb/MMBtu of heat input to the CO boiler; and opacity must not exceed 30% except for one 6-minute opacity reading in any one hour (Table 1, Item 1)	Y	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

Table IV – Y
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)(2)	Comply with each operating limit in Table 2 of this subpart that applies to you	Y	
63.1564(a)(3)	Prepare Operation, Maintenance, and Monitoring Plan and operate at all times according to the procedures in the plan	Y	
63.1564(a)(5)	Options for metal HAP compliance during startup, shutdown, and hot standby	Y	
63.1564(b)(5)	Initial Compliance Demonstration: Certify compliance with emission limits as part of NOCS (Table 5, Item 1)	Y	
63.1564(c)	Continuous Compliance Demonstration	Y	
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 1)	Y	
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	
63.1564(c)(5)	Continuous compliance method for optional inlet velocity rate	Y	
63.1565	Requirements for organic HAP emissions from catalytic cracking units	Y	
63.1565(a)	Emission Limitations and Work Practice Standards	Y	
63.1565(a)(1)	Emission limitation for catalytic cracking units subject to NSPS standard: CO emissions from CO boiler must not exceed 500 ppmvd (Table 8, Item 1)	Y	
63.1565(a)(2)	Comply with each site specific operating limit in Table 9 of this subpart that applies to you.	Y	
63.1565(a)(3)	Prepare Operation, Maintenance, and Monitoring Plan and operate at all times in accordance with the plan	Y	
63.1565(a)(5)	Options for inorganic HAP compliance during startup, shutdown, and hot standby	Y	
63.1565(c)	Continuous Compliance Demonstration	Y	
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 1)	Y	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

Table IV – Y
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(c)(2)	Demonstrate continuous compliance with work practice standard by maintaining records to document conformance with Operation, Maintenance, and Monitoring Plan	Y	
63.1569	Bypass Lines	Y	
63.1569(a)	Work Practice Standards for Bypass Lines	Y	
63.1569(a)(1)(i)	Work Practice Standard (Option 1): Install and operate a device (Level Recorder) to continuously detect, at least every hour, whether flow is present in bypass line. (Table 36, Item 1)	Y	
63.1569(a)(3)	Prepare Operation, Maintenance, and Monitoring Plan and operate at all times according to the procedures in the plan	Y	
63.1569(c)	Continuous Compliance Demonstration	Y	
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	
63.1569(c)(2)	Demonstrate continuous compliance with Work Practice Standard by complying with procedures in Operation, Maintenance, and Monitoring Plan	Y	
63.1570	General Compliance Requirements	Y	
63.1570(a)	Operate in compliance with non-opacity standards at all times.	Y	
63.1570(b)	Operate in compliance with opacity and visible emissions standards at all times.	Y	
63.1570(c)	Operate and maintain source including pollution control and monitoring equipment in a manner consistent with safety and good air pollution control practices for minimizing emissions.	Y	
63.1570(d)	During the period between the compliance date specified for your affected source and the date upon which continuous monitoring systems have been installed and validated and any applicable operating limits have been set, you must maintain a log detailing the operation and maintenance of the process and emissions control equipment.	Y	
63.1570(f)	Report deviations from compliance with this subpart according to the requirements of 63.1575	Y	
63.1571	Performance Tests	Y	
63.1571(a)	Conduct Performance Test and submit results no later than 150 days after compliance date	Y	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

Table IV – Y
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(a)(1)	For emission limitation or work practice standard where compliance not demonstrated using performance test, opacity observation, or visible emission observation, conduct initial compliance demonstration within 30 days after compliance date	Y	
63.1571(a)(5)	Periodic performance testing for PM or Ni	Y	
63.1571(a)(6)	One-time performance testing for HCN	Y	
63.1571(b)	Requirements for Performance Tests	Y	
63.1571(b)(1)	Conduct performance tests in accordance with the requirements of 63.7(e) except that performance tests shall be conducted at the maximum representative operating capacity for the process	Y	
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	
63.1571(b)(3)	Conduct each performance evaluation in accordance with the requirements of 63.8(e)	Y	
63.1571(b)(4)	Arithmetic average of emission rates	Y	
63.1571(e)	Changes to operating limits (optional)	Y	
63.1572	Monitoring installation, operation, and maintenance requirements	Y	
63.1572(a)	Requirements for installation, operation, and maintenance of continuous emission monitoring system	Y	
63.1572(a)(1)	CO CEMS must meet requirements of Performance Specification 4 (40 CFR Part 60, App B) (Table 40, Item 2)	Y	
63.1572(a)(2)	Conduct performance evaluation for CO CEMS according to Performance Specification 4 (Table 40, Item 2)	Y	
63.1572(a)(3)	CEMS complete one cycle of operation for each 15-minute period	Y	
63.1572(a)(4)	Data reduction per 63.8(g)(2)	Y	
63.1572(b)	Requirements for installation, operation, and maintenance of continuous opacity monitoring system	Y	
63.1572(b)(1)	COMS must meet requirements of Performance Specification 1 (40 CFR Part 60, App B) (Table 40, Item 1)	Y	
63.1572(b)(2)	Conduct performance evaluation for CO CEMS according to Performance Specification 1	Y	
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	
63.1572(d)	Data monitoring and collection requirements	Y	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

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

	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.1572(d)(1)	Conduct monitoring at all times source is operating	Y	
63.1572(d)(2)	Do not use data recorded during required QA/QC activities (including calibration checks and required zero and span adjustments)	Y	
63.1573	Monitoring Alternatives	Y	
63.1573(a)(2)	Monitoring Alternative for CCUs with a gas analyzer installed in the catalytic cracking regenerator exhaust vent prior to the addition of air or other gas streams.	Y	
63.1573(c)	Monitoring Alternative- automated data compression system	Y	
63.1573(d)	Monitoring for alternative parameters (optional)	Y	
63.1573(e)	Alternative Monitoring Requests (optional)	Y	
63.1574	Notification Requirements	Y	
63.1574(a)	Notifications Required by Subpart A	Y	
63.1574(a)(2)	Submit notification of intent to conduct performance test 30 days before scheduled (instead of 60 days)	Y	
63.1574(a)(3)	Notification of Compliance Status	Y	
63.1574(a)(3)(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	
63.1574(a)(3)(ii)	Submit Notification of Compliance Status for initial compliance demonstration that includes a performance test, no later than 150 days after source compliance date	Y	
63.1574(d)	Information to be Submitted in Notice of Compliance Status (Table 42): identification of affected sources and emission points (Item 1); initial compliance demonstration (Item 2); continuous compliance (Item 3)	Y	
63.1574(f)	Requirement to prepare Operation, Maintenance, and Monitoring Plan	Y	
63.1574(f)(1)	Submit plan to permitting authority for review and approval along with NOCS. Include duty to prepare and implement plan into Part 70 or 71 permit. Changes must be reviewed and approved by permitting authority.	Y	
63.1574(f)(2)	Minimum contents of Operation, Maintenance, and Monitoring Plan	Y	
63.1575	Reports	Y	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

Table IV – Y
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(a)	Required reports: Statement that there were no deviations or report including information in 1575(c) through (e) (Table 43, Item 1) on a semi-annual basis Performance test and CEMS performance evaluation data (Table 43, Item 2) within 60 days after the test completion date according to 63.1575(k) (Table 43, Item 2)	Y	
63.1575(b)	Specified semiannual report submittal dates	Y	
63.1575(c)	Information required in compliance report	Y	
63.1575(d)	Information required for deviations from emission limitations and work practice standards where CEMS or COMS **is not** used to comply with emission limitation or work practice standard	Y	
63.1575(e)	Information required for deviations from emission limitations and work practice standards where CEMS or COMS **is** used to comply with emission limitation or work practice standard	Y	
63.1575(f)	Additional information for compliance reports	Y	
63.1575(f)(1)	Requirement to submit performance test reports	Y	
63.1575(f)(2)	Submittal of requested change in the applicability of an emission standard	Y	
63.1575(g)	Submittal of reports required by other regulations in place of or as part of compliance report if they contain the required information	Y	
63.1575(k)	Electronic submittal of performance test and CEMS performance evaluation data	Y	
63.1575(k)(1)	Submittal of performance test results within 60 days	Y	
63.1576	Recordkeeping	Y	
63.1576(a)	Required Records – General	Y	
63.1576(b)	Records for CEMS and COMS	Y	
63.1576(c)	Records of visible emissions observations	Y	
63.1576(d)	Records required by Tables 6, 7, 13, and 14 of Subpart UUU	Y	
63.1576(e)	Maintain copy of Operation, Maintenance, and Monitoring Plan	Y	
63.1576(f)	Records of changes that affect emission control system performance	Y	
63.1576(g)	Records in a form suitable and readily available for review	Y	
63.1576(h)	Maintain records for 5 years	Y	
63.1576(i)	Records onsite for two years; may be maintained offsite for remaining 3 years	Y	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

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

	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.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	
BAAQMD Condition # 12911			
Part 1	Catalyst Storage and Injection System Baghouse (A1427) in proper working order [basis: BACT]	Y	
Part 2	Ringelmann 0.5 requirement [basis: BACT]	Y	
Part 3	Vent to S1507, S1509, and/or S1512 [basis: Regulation 2-6-409.2]	Y	
Part 4	Water seal of the dump stack [basis: Regulation 6-1-301]	N	
Part 5	Monitoring and recordkeeping of water seal [basis: Regulation 6-1-301]	N	
BAAQMD Condition # 18407			
Part 1	Abated by A1426 Baghouse for CCU Spent Catalyst Hopper (Portable) (basis: Cumulative Increase)	Y	
Part 2	Throughput loading limit [basis: Cumulative Increase]	Y	
Part 3	Recordkeeping [basis: Cumulative Increase]	Y	
BAAQMD Condition # 18618			
Part 1	Throughput limit (basis: Regulation 2-1-234.3, 2-1-307)	N	
Part 2	Recordkeeping (basis: Regulation 2-1-234.3, 2-1-307)	N	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

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

	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Condition # 18643	Applies to S1426		
Part 2	New pump in light liquid requirement [basis: BACT/TBACT; Cumulative Increase]	Y	
Part 3	New valves in POC gas and light liquid requirement [basis: BACT/TBACT; Cumulative Increase]	Y	
Part 4	New flanges requirement [basis: BACT/TBACT; Cumulative Increase]	Y	
Part 5	New centrifugal compressors requirement [basis: BACT/TBACT; Cumulative Increase]	Y	
Part 6	New pressure relief valve requirement [basis: BACT/TBACT; Cumulative Increase]	Y	
BAAQMD AMP Condition # 24335			
Part 1	Alternative procedures for demonstrating compliance with the SOx limit (calculated as sulfur dioxide) in NSPS J 60.104(b)(2). (Basis: Alternative Monitoring Plan, 40 CFR 60.13(i))	Y	
Part 2	SO2 CEM ceritifcation and RATA requirement. (Basis: Alternative Monitoring Plan, 40 CFR 60.13(i))	Y	
Part 3	Alternative procedures for measuring oxygen (O_2), carbon monoxide (CO) and carbon dioxide (CO_2) in the CCU regenerator off-gas with O_2, CO and CO_2 CEMS in place of using Methods 1,2,3 and 4 in 40 CFR Part 60, Appendix A. (Basis: Alternative Monitoring Plan, 40 CFR 60.13(i))	Y	
Part 4	O2, CO, and CO2 CEMs ceritifcation and RATA requirement. (Basis: Alternative Monitoring Plan, 40 CFR 60.13(i))	Y	
Part 5	Procedures for calculating the equivalent SO_x/Mg coke burn-off. (Basis: Alternative Monitoring Plan, 40 CFR 60.13(i))	Y	
BAAQMD Condition # 25345			
Part 1	Feed Throughput Limit [Basis: Alteration 2-1-233]	Y	
Part 3	Report and Maintain Records [Basis: Alteration 2-1-233, 40 CFR 52.21]	Y	
Part 6	Types of Fugitive Components that are allowed to be installed [Basis: Cumulative Increase, Regulation 8, Rule 18]	Y	
Part 8	Recordkeeping Requirements [Basis: Offsets, Recordkeeping]	Y	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 1	**General Provisions and Definitions (05/04/11)**		
1-520	Continuous Emission Monitoring	Y	
1-520.4	SO2 monitor at sulfur recovery plants emitting more than 100 lb/day SO2	Y	
1-520.8	Monitors required by BAAQMD Regulation 10	Y	
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	Y	
1-522.1	Approval of Plans and Specifications	Y	
1-522.2	Installation Scheduling	Y	
1-522.3	CEM Performance Testing	Y	
1-522.4	Periods of Inoperation	Y	
1-522.5	Daily Monitor Calibration	Y	
1-522.6	CEM Maintenance	Y	
1-522.7	Excess Emissions Reported (Nature, Extent, and Cause)	N	
1-522.8	Monitoring Data Submittal	Y	
1-522.9	Records	Y	
1-522.10	Monitors Required By 1-521 or 2-1-403	Y	
SIP Regulation 1	**PROVISIONS NO LONGER IN CURRENT RULE General Provisions and Definitions (6/28/99)**		
1-522.7	Excess Emissions Reported (Nature, Extent, Cause, and Corrective Action)	Y	
BAAQMD Regulation 6 Rule 1	**Particulate Matter – General Requirements (08/01/18)**		
6-1-301	Ringelmann No. 1 Limitation	N	
6-1-305	Visible Particles	N	
6-1-310	Total Suspended Particulate (TSP) Concentration Limits	N	
6-1-311	Total Suspended Particulate (TSP) Weight Limits	N	
6-1-330	Sulfur Recovery Units (SO3, H2SO4 emission limitations)	N	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
6-1-401	Appearance of Emissions	N	
SIP Regulation 6	**Particulate Matter and Visible Emissions (9/4/98)**		
6-301	Ringelmann No. 1 Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particulate Weight Limitation	Y	
6-311	General Operations (process weight rate limitation)	Y	
6-330	Sulfur Recovery Units (SO3, H2SO4 emission limitations)	Y	
6-401	Appearance of Emissions	Y	
BAAQMD Regulation 9, Rule 1	**Inorganic Gaseous Pollutants – Sulfur Dioxide (3/15/95)**		
9-1-307	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	
NSPS 40 CFR 60 Subpart A	**General Provisions (02/27/14)**		
60.7	Notification and record keeping	Y	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.8	Performance tests	Y	
60.11	Compliance with standards and maintenance requirements	Y	
60.11(a)	Performance test	Y	
60.11(d)	Good air pollution control practice for minimizing emissions	Y	
60.11(f)	Special provisions	Y	
60.11(g)	Any credible evidence or information	Y	
60.12	Circumvention	Y	
60.13	Monitoring requirements	Y	
60.13(a)	Continuous monitoring systems subject to Appendix B, and Appendix F(if used to demonstrate compliance with continuous emission limits), of Part 60	Y	
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 requirements (for S4180 only)	Y	
NSPS 40 CFR 60 Subpart J	**Standards of Performance for Petroleum Refineries (12/01/15)**		
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	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.106(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	
NESHAP 40 CFR 63 Subpart A	**MACT General Provisions (06/25/13)**		
63.4	Prohibited Activities and Circumvention	Y	
63.6	Compliance with Standards and Maintenance Requirements	Y	
63.6(e)	Operation and Maintenance Requirements	Y	
63.6(f)	Compliance with Nonopacity Emission Standards	Y	
63.6(g)	Use of Alternative Nonopacity Emission Standard (optional)	Y	
63.8	Monitoring	Y	
63.9	Notifications	Y	
63.9(h)	Notification of Compliance Status	Y	
63.9(j)	Change in information	Y	
63.10	Recordkeeping and Reporting Requirements	Y	
63.10(a)	General Information	Y	
63.10(b)	General Recordkeeping Requirements	Y	
63.10(b)(2)	Records to be maintained	Y	
63.10(c)	Recordkeeping requirements for Continuous Monitoring Systems	Y	
63.10(d)	General Reporting Requirements	Y	
63.10(e)	Additional reports for sources with Continuous Monitoring Systems	Y	
63.10(e)(2)	Reporting results of Continuous Monitoring System performance evaluation	Y	
63.10(e)(3)	Excess Emissions and Continuous Monitoring System Performance Report and Summary Report	Y	
NESHAP 40 CFR 63 Subpart UUU	**NESHAP for Petroleum Refineries: Sulfur Recovery Units (12/01/15)**		
63.1568	Requirements for Sulfur Recovery Units	Y	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.1568(a)	Emission Limitations and Work Practice Standards for Sulfur Recovery Units	Y	
63.1568(a)(1)	Sulfur Emission Limitation from Claus sulfur recovery units subject to NSPS Limits: 250 ppmvd SO2 at 0% excess air (Table 29, Item 1)	Y	
63.1568(a)(3)	Prepare Operation, Maintenance, and Monitoring Plan and operate at all times according to the procedures in the plan	Y	
63.1568(a)(4)	Options for compliance during periods of startup and shutdown	Y	
63.1568(c)	Demonstrate Continuous Compliance with Emission Limitation and Work Practice Standards	Y	
63.1568(c)(1)	Demonstrate Continuous Compliance with Emission Limitation: collect hourly average SO2 monitoring data; maintain hourly average below applicable limit; determine and record each 12-hour concentration; report 12-hour concentration greater than applicable limitation (Table 34, Item 1.a)	Y	
63.1568(c)(2)	Demonstrate Continuous Compliance with Work Practice Standards by complying with the procedures in Operation, Maintenance, and Monitoring Plan.	Y	
63.1569	Bypass Lines	Y	
63.1569(a)	Work Practice Standards for Bypass Lines	Y	
63.1569(a)(1)(iii)	Work Practice Standard: Option 3 – Elect to seal the line by installing a solid blind between piping flanges (Table 36, Item 3)	Y	
63.1569(a)(3)	Prepare Operation, Maintenance, and Monitoring Plan and operate at all times according to the procedures in the plan	Y	
63.1569(c)	Continuous Compliance Demonstration	Y	
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	
63.1569(c)(2)	Comply with procedures in Operation, Maintenance, and Monitoring Plan	Y	
63.1570	General Compliance Requirements	Y	
63.1570(a)	Operate in compliance with non-opacity standards at all times.	Y	
63.1570(c)	Operate and maintain source including pollution control and monitoring equipment in a manner consistent with safety and good air pollution control practices for minimizing emissions.	Y	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.1570(d)	During the period between the compliance date specified for your affected source and the date upon which continuous monitoring systems have been installed and validated and any applicable operating limits have been set, you must maintain a log detailing the operation and maintenance of the process and emissions control equipment.	Y	
63.1570(f)	Report deviations from compliance with this subpart according to the requirements of 63.1575	Y	
63.1571	Performance Tests	Y	
63.1571(e)	Changes to Operating Limits (Optional)	Y	
63.1572	Monitoring installation, operation, and maintenance requirements	Y	
63.1572(a)	Requirements for installation, operation, and maintenance of continuous emission monitoring system	Y	
63.1572(a)(1)	SO2 CEMS must meet requirements of Performance Specification 2 (40 CFR Part 60, App B) (Table 40, Item 4)	Y	
63.1572(a)(2)	Conduct performance evaluation for SO2 CEMS according to Performance Specification 2 (Table 40, Item 4)	Y	
63.1572(a)(3)	CEMS complete one cycle of operation for each 15-minute period	Y	
63.1572(a)(4)	Data reduction per 63.8(g)(2)	Y	
63.1572(d)	Data monitoring and collection requirements	Y	
63.1572(d)(1)	Do not use data recorded during required QA/QC activities (including calibration checks and required zero and span adjustments) .	Y	
63.1572(d)(2)	Data recorded during monitoring malfunctions, repairs, and QA/QC activities not used for compliance purposes	Y	
63.1573	Monitoring Alternatives	Y	
63.1573(d)	Monitoring for alternative parameters (optional)	Y	
63.1573(e)	Alternative Monitoring Requests (optional)	Y	
63.1574	Notification Requirements	Y	
63.1574(a)	Notifications Required by Subpart A	Y	
63.1574(a)(2)	Submit notification of intent to conduct performance test 30 days before scheduled (instead of 60 days)	Y	
63.1574(a)(3)	Notification of Compliance Status	Y	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.1574(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	
63.1574(a)(3)(ii)	Submit Notification of Compliance Status for initial compliance demonstration that includes a performance test, no later than 150 days after source compliance date	Y	
63.1574(d)	Information to be Submitted in Notice of Compliance Status (Table 42): identification of affected sources and emission points (Item 1); initial compliance demonstration (Item 2); continuous compliance (Item 3)	Y	
63.1574(f)	Requirement to prepare Operation, Maintenance, and Monitoring Plan	Y	
63.1574(f)(1)	Submit plan to permitting authority for review and approval along with NOCS. Include duty to prepare and implement plan into Part 70 or 71 permit. Changes must be reviewed and approved by permitting authority.	Y	
63.1574(f)(2)	Minimum contents of Operation, Maintenance, and Monitoring Plan	Y	
63.1575	Reports	Y	
63.1575(a)	Required reports: Statement that there were no deviations or report including information in 1575(c) through (e) (Table 43, Item 1) on a semi-annual basis	Y	
63.1575(b)	Specified semiannual report submittal dates	Y	
63.1575(c)	Information required in compliance report	Y	
63.1575(d)	Information required for deviations from emission limitations and work practice standards where CEMS or COMS is not used to comply with emission limitation or work practice standard	Y	
63.1575(e)	Information required for deviations from emission limitations and work practice standards where CEMS or COMS is used to comply with emission limitation or work practice standard	Y	
63.1575(f)	Additional information for compliance reports	Y	
63.1575(f)(1)	Requirement to submit performance test reports	Y	
63.1575(f)(2)	Submittal of requested change in the applicability of an emission standard	Y	
63.1575(g)	Submittal of reports required by other regulations in place of or as part of compliance report if they contain the required information	Y	
63.1575(k)	Electronic submittal of performance test and CEMS performance evaluation data	Y	
63.1575(k)(1)	Submittal of performance test results within 60 days	Y	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.1576	Recordkeeping	Y	
63.1576(a)	Required Records – General	Y	
63.1576(b)	Records for CEMS	Y	
63.1576(d)	Records required by Tables 34 and 35 of Subpart UUU	Y	
63.1576(e)	Maintain copy of Operation, Maintenance, and Monitoring Plan	Y	
63.1576(f)	Records of changes that affect emission control system performance	Y	
63.1576(g)	Records in a form suitable and readily available for review	Y	
63.1576(h)	Maintain records for 5 years	Y	
63.1576(i)	Records onsite for two years; may be maintained offsite for remaining 3 years	Y	
BAAQMD Condition # 7618	Applies to S1765		
Part A	Emissions limitations [basis: Regulation 2-2-302]	Y	
Part B	Emissions profiles and emission factors [basis: Regulation 2-2-302]	Y	
Part B.1	Baseline profiles [basis: Regulation 2-2-302]	Y	
Part B.5	Baseline for sulfur plants [basis: Regulation 2-2-302]	Y	
Part B.6	Modification of baseline profiles for particulate, NOx, SO2, and CO [basis: Regulation 2-2-302]	Y	
Part F	Reporting [basis: Cumulative Increase]	Y	
Part G	Records [basis: Cumulative Increase]	Y	
BAAQMD Condition # 12271	Applies to S4180		
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 – Z
Source-specific Applicable Requirements
S1431 – CP SULFUR PLANT 1 (SRU1)
S1432 – CP SULFUR PLANT 2 (SRU2)
S1765– OPCEN SULFUR PLANT 3 (SRU3)
S4180 – OPCEN SULFUR PLANT 4 (SRU4)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
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	
BAAQMD Condition # 18618			
Part 1	Throughput limit (basis: Regulation 2-1-234.3, 2-1-307)	N	
Part 2	Recordkeeping (basis: Regulation 2-1-234.3, 2-1-307)	N	
Part 8	Source test to verify compliance with Regulation 6-1-330 (basis: Regulation 2-6-409.2)	N	
BAAQMD Condition # 19748	Applies to S1765		
Part 1	Thermal oxidizer operating requirements. (Basis: Cumulative Increase)	Y	
Part 2	Thermal oxidizer fuel requirement. (Basis: Cumulative Increase)	Y	
Part 3	Thermal oxidizer RACT NOx limit. (Basis: RACT, Source Test Method 13A)	Y	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 4	Thermal oxidizer RACT CO limit. (Basis: RACT, Source Test Method 6)	Y	
Part 5	Source test requirement for Thermal Oxidizer to demonstrate compliance with the NOx and CO RACT limit. (Basis: RACT, Cumulative Increase)	Y	
Part 6	Procedural requirements for conducting source tests for NOx and CO. (Basis: RACT, Cumulative Increase)	Y	
Part 7	SO2 concentration limit for gases exhausting out of A2023's stack. (Basis: Cumulative Increase; NSPS Subpart J)	Y	
Part 8	Requirement to install SO2 CEMS at A2023's stack. (Basis: Cumulative Increase; NSPS Subpart J)	Y	
Part 9	Annual SO2 mass emissions limit for gases exhausting out of A2023's stack (Basis: Cumulative Increase)	Y	
Part 10	Calculation procedures for estimating daily SO2 emissions. (Basis: Cumulative Increase, Regulation 2-1-403)	Y	
Part 11	Daily H2S mass emissions limit for gases exhausting out of A2023's stack (Basis: Cumulative Increase)	Y	
Part 12	Initial and subsequent source test requirements for H2S, and procedural requirements for conducting source tests. (Basis: Cumulative Increase)	Y	
Part 13	Annual Sulfuric Acid Mist (SAM) mass emissions limit for gases exhausting out of A2023's stack (Basis: Cumulative Increase)	Y	
Part 14	Initial and subsequent source test requirements for SAM, and procedural requirements for conducting source tests. (Basis: Cumulative Increase, Regulation 6-1-330)	Y	
Part 15	Operating requirements in the event SRU3, SCOT3, and A2023 are shutdown (Basis: Cumulative Increase)	Y	
Part 16	Minimum operating temperature requirement for A2023 (Basis: Cumulative Increase; BACT/TBACT)	Y	
Part 17	Temperature measuring device requirements (Basis: Regulation 1-521)	Y	
Part 18	Reporting procedures in the event of non-compliance (Basis: Regulations 1-523.8 and 2-1-403)	Y	
Part 19	Allowable Temperature Excursion for A2023 (Basis: Regulation 2-1-403)	Y	
Part 20	Recordkeeping requirements for Allowable Temperature Excursions (Basis: Regulation 2-1-403)	Y	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 21	Applicability of temperature excursion (Basis: Regulation 2-1-403)	Y	
BAAQMD AMP Condition # 24338	Applies to S4180		
Part 1	Alternative spanning requirements for SO2 CEM analyzer used for demonstrating compliance with the NSPS J SO2 limit of 250 ppmv (dry basis) in 60.104(a)(2)(i). (Basis: Alternative Monitoring Plan, 40 CFR 60.13(i))	Y	

Table IV – AA
Source-specific Applicable Requirements
S1457 – COOLING WATER TOWER (CWT-32)
S1778 – COOLING WATER TOWER (CWT-50)
S4210 – COOLING WATER TOWER (CWT-13278)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 1	**General Provisions and Definitions (7/19/06)**		
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	Maintenance and Calibration Required	N	
SIP Regulation 1	**PROVISIONS NO LONGER IN CURRENT RULE General Provisions and Definitions (6/28/99)**		

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

Table IV – AA
Source-specific Applicable Requirements
S1457 – COOLING WATER TOWER (CWT-32)
S1778 – COOLING WATER TOWER (CWT-50)
S4210 – COOLING WATER TOWER (CWT-13278)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
1-523.3	Violations of Permit Conditions Reported (Nature, Extent, Cause, and Corrective Action)	Y	
BAAQMD Regulation 6 Rule 1	**Particulate Matter – General Requirements (08/01/18)**		
6-1-301	Ringelmann No. 1 Limitation	N	
6-1-305	Visible Particles	N	
6-1-310	Total Suspended Particulate (TSP) Concentration Limits	N	
6-1-311	Total Suspended Particulate (TSP) Weight Limits	N	
6-1-401	Appearance of Emissions	N	
SIP Regulation 6	**Particulate Matter and Visible Emissions (9/4/98)**		
6-301	Ringelmann No. 1 Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particulate Weight Limitation	Y	
6-311	General Operations (process weight rate limitation)	Y	
6-401	Appearance of Emissions	Y	
BAAQMD Regulation 11 Rule 10	**Hexavalent Chromium and Total Hydrocarbon Emissions From Petroleum Refinery Cooling Towers (12/16/15)**		
11-10-101	Reduce total hydrocarbon emissions from cooling towers at petroleum refineries	N	
11-10-104	Limited Exemption, Continuous Hydrocarbon Analyzers	N	
11-10-304	Total Hydrocarbon Leak Monitoring Requirement	N	
11-10-305	Leak Action Requirement –if leak detection methods find total hydrocarbon concentrations greater than the applicable leak action level in 11-10-204, the owner/operator shall minimize the leak ASAP or within 5 calendar days and repair or remove from service within 21 calendar days and speciate and quantify the TACs associated with the leak	N	
11-10-401	Petroleum Refinery Cooling Tower Reporting Requirements: When the sampling of cooling tower water exceeds the applicable leak action level, the cooling tower owner/operator shall perform the specified actions	N	
11-10-402	Best Modern Practices – minimize total hydrocarbon emissions from	N	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

Table IV – AA
Source-specific Applicable Requirements
S1457 – COOLING WATER TOWER (CWT-32)
S1778 – COOLING WATER TOWER (CWT-50)
S4210 – COOLING WATER TOWER (CWT-13278)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	cooling tower and equipment by employing best modern practices and data collection requirements		
11-10-504	Operating records – retain records of the results of all sampling and/or monitoring conducted and other required data for at least five years from the date of entry; if requesting exemption, must maintain records to prove exemption	N	
NESHAP 40 CFR 63 Subpart A	**MACT General Provisions (06/25/13)**		
63.1	Applicability	Y	
63.2	Definitions: If same term is defined in Subparts A and CC, it shall have the meaning in Subpart CC	Y	
63.3	Units and abbreviations	Y	
63.4	Prohibited activities and circumvention	Y	
63.6	Compliance with Standards and Maintenance Requirements	Y	
63.6(a)	--Applicability	Y	
63.6(e)(iii)	Operation and Maintenance Requirements	Y	
63.6(f)	Compliance with Nonopacity Emission Standards	Y	
63.6(g)	Use of Alternative Nonopacity Emission Standard (optional)	Y	
63.6(i)	Extension of compliance with emission standards	Y	
63.6(j)	Exemption from compliance with emission standards	Y	
63.8(b)	Conduct of monitoring	Y	
63.8(f)	Use of alternative monitoring method	Y	
63.9	Notifications	Y	
63.9(a)	--Applicability and general information	Y	
63.9(b)	--Initial notifications	Y	
63.9(c)	--Request for extension of compliance	Y	
63.9(i)	--Adjustment to time periods or postmark deadlines for submittal	Y	
63.10	Recordkeeping and Reporting Requirements	Y	
63.10(a)	-- Applicability and general information	Y	
63.10(b)	General Recordkeeping Requirements	Y	
63.10(b)(2)(xiv)	--Documentation supporting notifications required under 63.9	Y	
63.10(d)	General Reporting Requirements	Y	
63.10(d)(1)	--Submit report in accordance with the reporting requirements in Subpart CC	Y	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

Table IV – AA
Source-specific Applicable Requirements
S1457 – COOLING WATER TOWER (CWT-32)
S1778 – COOLING WATER TOWER (CWT-50)
S4210 – COOLING WATER TOWER (CWT-13278)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.10(d)(4)	--Progress reports	Y	
63.10(f)	Waiver of recordkeeping or reporting requirements	Y	
NESHAP 40 CFR 63 Subpart CC	**NESHAP for Petroleum Refineries (07/13/2016)**		
63.640(c)(8)	Applicability and Designation of Affected Source--Affected source comprises all heat exchange systems	Y	
63.640(h)	Compliance date – Existing sources achieve compliance by date specified in Table 11 (Item 3.v)	Y	
63.654	Heat exchange systems	Y	
63.654(a)	Heat exchange systems –Compliance requirements	Y	
63.654(c)	Heat exchange systems --Monitoring to identify leaks of total strippable VOC	Y	
63.654(c)(1)	Heat exchange systems –For closed-loop recirculation heat exchange systems at an existing source, collect and analyze a sample from each location(s) described in paragraph (c)(1)(i) or (c)(1)(ii):	Y	
63.654(c)(1)(i)	--Each cooling tower return line or any representative riser within the cooling tower prior to exposure to air for each heat exchange system; or	Y	
63.654(c)(1)(ii)	--Selected heat exchanger exit line(s) so that each heat exchanger or group of exchangers within a system is covered	Y	
63.654(c)(3)	Heat exchange systems –Determine the total strippable hydrocarbon concentration (in ppmv as methane) at each monitoring location using the Modified El Paso Method	Y	
63.654(c)(4)	Heat exchange systems –Monitoring frequency and leak action levels. Comply with the monitoring frequency in paragraph (c)(4)(i) or (ii). For each affected heat exchange system, one monitoring alternative must be applied at all times. Notification 30 days in advance is required prior to a change in the monitoring frequency. All leaks identified prior to changing alternatives must be repaired.	Y	
63.654(c)(4)(i)	Heat exchange systems –Monitor monthly using a leak action level of 6.2 ppmv; or	Y	
63.654(c)(4)(ii)	Heat exchange systems –Monitor quarterly using a leak action level of 3.1 ppmv unless repair is delayed as allowed by paragraph (f). If a repair is delayed, monitor monthly.	Y	
63.654(c)(6)(ii)	Heat exchange systems –A leak is detected if a measurement value taken from a location specified in (c)(1)(i) or (ii) equals or exceeds the leak action level	Y	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

Table IV – AA
Source-specific Applicable Requirements
S1457 – COOLING WATER TOWER (CWT-32)
S1778 – COOLING WATER TOWER (CWT-50)
S4210 – COOLING WATER TOWER (CWT-13278)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.654(d)	Heat exchange systems –If a leak is detected, it must be repaired to reduce the measured concentration to below the action level as soon as possible, but no later than 45 days after being identified, except as allowed in paragraphs (e) and (f). Repair includes re-monitoring at the monitoring location where the leak was identified to verify concentration is below the action level. Actions that can be taken to achieve repair include but are not limited to those identified in paragraphs (d)(1) through (d)(5).	Y	
63.654(e)	Heat exchange systems --Additional monitoring upon leak detection may be conducted for each heat exchanger or group of exchangers as specified by (c)(1)(ii). If no leaks are detected by additional monitoring, the heat exchange system is considered to meet the repair requirements through re-monitoring as allowed by (d)	Y	
63.654(f)	Heat exchange systems –Delay of repair for heat exchange system leaks allowed for conditions specified in (f)(1) or (f)(2) and if the leak is less than the delay of repair action level specified in (f)(3). A delay of repair must be identified as soon as practicable, but no later than 45 days after first identifying the leak	Y	
63.654(f)(1)	--If the repair is technically infeasible without a shutdown and the concentration remains below the delay of repair action level for all monthly monitoring periods during the delay of repair, the repair may be delayed until the next scheduled shutdown. If during subsequent monitoring, the delay of repair action level is exceeded, the leak must be repaired within 30 days of the monitoring event when the leak was equal to or above the delay of repair action level	Y	
63.654(f)(2)	--If it can be demonstrated that the necessary equipment, parts, or personnel are not available and the concentration remains below the delay of repair action level for all monthly monitoring periods during the delay of repair, the repair may be delayed for a maximum of 120 calendar days. If during subsequent monitoring, the delay of repair action level is exceeded, the leak must be repaired within 30 days of the monitoring event when the leak was equal to or above the delay of repair action level	Y	
63.654(f)(3)(ii)	--The delay of repair action level is equal to or greater than 62 ppmv as identified by a sample taken from a location specified by (c)(1)(i) or (ii)	Y	
63.654(g)	Heat exchange systems –Records required for delay of repair	Y	
63.655	Reporting and recordkeeping requirements	Y	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

Table IV – AA
Source-specific Applicable Requirements
S1457 – COOLING WATER TOWER (CWT-32)
S1778 – COOLING WATER TOWER (CWT-50)
S4210 – COOLING WATER TOWER (CWT-13278)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.655(e)	Reporting and Recordkeeping Requirements—submit the reports listed in (e)(1) through (3), and keep records as described in paragraph (i)	Y	
63.655(e)(1)	Reporting and Recordkeeping Requirements—A Notification of Compliance Status report as described in (f)	Y	
63.655(e)(2)	Reporting and Recordkeeping Requirements—Periodic Reports as described in (g)	Y	
63.655(e)(3)	Reporting and Recordkeeping Requirements—Other reports as described in (h)	Y	
63.655(f)	Reporting and Recordkeeping Requirements--Notice of compliance status report submittal requirements – submit NOCS within 150 days of compliance dates in 63.640(h)	Y	
63.655(f)(1)	Reporting and Recordkeeping Requirements--Notice of compliance status report requirements - contents	Y	
63.655(f)(1)(vi)	Reporting and Recordkeeping Requirements--Notice of compliance status report requirements – contents for heat exchange systems	Y	
63.655(g)	Reporting and Recordkeeping Requirements--Periodic report submittal requirements	Y	
63.655(g)(9)	Reporting and Recordkeeping Requirements—Periodic report contents for heat exchange systems	Y	
63.655(h)	Reporting and Recordkeeping Requirements—Other Reports	Y	
63.655(h)(7)	Reporting and Recordkeeping Requirements—For heat exchange systems at an existing source, notification is required at least 30 calendar days prior to changing from one of the monitoring options specified in 63.654(c)(4) to the other	Y	
63.655(i)	Reporting and Recordkeeping Requirements—Recordkeeping	Y	
63.655(i)(5)	Reporting and Recordkeeping Requirements—Recordkeeping for heat exchange systems	Y	
63.655(i)(6)	Reporting and Recordkeeping Requirements-—Recordkeeping for required reports	Y	
BAAQMD Condition # 12271	**S4210 Only**		
Part A	Monthly and annual emission limits [basis: Offsets, Cumulative Increase]	Y	
Part B	Applicable sources [basis: Offsets, Cumulative Increase]	Y	
Part C	In the case of a process upset or other irregularity [basis: Offsets, Cumulative Increase]	N	
Part L	Recordkeeping [basis: BACT, Offsets, Cumulative Increase]	Y	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

Table IV – AA
Source-specific Applicable Requirements
S1457 – COOLING WATER TOWER (CWT-32)
S1778 – COOLING WATER TOWER (CWT-50)
S4210 – COOLING WATER TOWER (CWT-13278)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part M	Monthly reports [basis: Offsets, Cumulative Increase]	Y	
Part 55	Continuous hydrocarbon analyzer/recorder [basis: BACT]	Y	

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 8, Rule 8	**Wastewater Collection and Separation Systems (09/15/04)**		
8-8-302	Wastewater separators rated capacity larger than or equal to 18.9 liters per seconds (300 gal/min), must be equipped with one of the following:	Y	
8-8-302.4	a solid, sealed, gasketed, fixed cover which totally encloses the separator tank, chamber, or basin liquid contents, with all cover openings closed and sealed, except when the opening is being used for inspection, maintenance, or wastewater sampling. The cover may include a pressure-vacuum valve. Also includes leak inspection frequency and leak criteria.	Y	
8-8-302.6	Roof seals, fixed covers, access doors, and other openings shall be inspected initially and semiannually thereafter to ensure that they are vapor tight. A leak in any component that is not vapor tight must be minimized within 24 hours and repaired within 7 days.	N	
8-8-303	Gauging and Sampling Devices	Y	
8-8-501	API Separator or Air Flotation Bypassed Wastewater Records	N	
8-8-503	Inspection and Repair Records	Y	
SIP	**Wastewater (Oil-Water) Separator (08/29/94)**		

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Regulation 8, Rule 8			
8-8-501	API Separator or Air Flotation Bypassed Wastewater Records	Y	
BAAQMD Condition # 5077			
Part 1	Design Rated Capacity Limit [basis: Cumulative Increase]	Y	
Part 4	Design Rated Capacity Limit [basis: Cumulative Increase] (Applies to S1465)	Y	
Part 7	Design Rated Capacity Limit [basis: Cumulative Increase] (Applies to S1779)	Y	

Table IV – CC
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 Rule 1	**Particulate Matter – General Requirements (08/01/18)**		
6-1-301	Ringelmann No. 1 Limitation	N	
6-1-305	Visible Particles	N	
6-1-310	Total Suspended Particulate (TSP) Concentration Limits	N	
SIP Regulation 6	**Particulate Matter and Visible Emissions (9/4/98)**		
6-301	Ringelmann No. 1 Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particulate Weight Limitation	Y	
NSPS 40 CFR 60 Subpart A	**General Provisions (02/27/14)**		

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.7	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(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	
60.19	General notification and reporting requirements	Y	
NSPS 40 CFR 60 Subpart J	**Standards of Performance for Petroleum Refineries (12/01/15)**		
60.104	Standards for Sulfur Oxides: Compliance Schedule	Y	
60.104(a)(1)	Fuel gas H2S limit excluding process upset gases of fuel gas released to the flare as a result of relief valve leakage or other emergency malfunction	Y	
60.105	Monitoring of Emissions and Operations	Y	
60.105(a)(4)	monitoring requirement for H2S (dry basis) in fuel gas prior to combustion	Y	
60.105(a)(4)(iv)	Fuel gas streams that are inherently low in sulfur content are exempt from monitoring, including:	Y	
60.105(a)(4)(iv)(B)	--Fuel gas streams that meet a commercial-grade product specification for sulfur content of 30 ppmv or less (for LPG, the gas phase sulfur content should be evaluated assuming complete vaporization and sulfur containing-compounds at the product specification concentration)	Y	
60.105(a)(4)(iv)(D)	--Other fuel gas streams that are demonstrated to be low-sulfur according to paragraph (b)	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 – CC
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 Condition # 12271			
Part 74	Vapors from S4338 shall be collected and controlled by S1470, LOG LPG Loading Flare. [basis: BACT]	Y	

Table IV – DD
Source-specific Applicable Requirements
S601 – Flare for Vine Hill Vapor Recovery System #2
S602 – Flare for Crude String Vapor Recovery System #3

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 6 Rule 1	**Particulate Matter – General Requirements (08/01/18)**		
6-1-301	Ringelmann No. 1 Limitation	N	
6-1-305	Visible Particles	N	
6-1-310	Total Suspended Particulate (TSP) Concentration Limits	N	
SIP Regulation 6	**Particulate Matter and Visible Emissions (9/4/98)**		
6-301	Ringelmann No. 1 Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particulate Weight Limitation	Y	
BAAQMD Regulation 8 Rule 5	**Organic Compounds - STORAGE OF ORGANIC LIQUIDS (10/18/06)**		
8-5-118	Limited Exemption, Gas Tight Requirement for approved emission control system in 8-5-306.2 does not apply if facility is subject to BAAQMD 8-18	N	
8-5-306	Requirements for Approved Emission Control Systems	N	
8-5-306.1	Requirements for approved Emission Control System; Abatement	N	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

Table IV – DD
Source-specific Applicable Requirements
S601 – Flare for Vine Hill Vapor Recovery System #2
S602 – Flare for Crude String Vapor Recovery System #3

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	Efficiency >=95%		
SIP Regulation 8 Rule 5	**STORAGE OF ORGANIC LIQUIDS (6/5/03)**		
8-5-306	Requirements for Approved Emission Control Systems	Y	
8-5-328.1.2	Tank Degassing: Emission Control System Requirements during	Y	
8-5-502	Tank Degassing: Annual Source Test Requirement for Emission Control System	Y	
NSPS 40 CFR 60 Subpart A	**New Source Performance Standards – General Provisions(02/27/14)**		
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(d)	Control devices operated using good air pollution control practice	Y	
60.11(f)	Special provisions	Y	
60.11(g)	Any credible evidence or information	Y	
60.12	Circumvention	Y	
60.18(a)	General control device: Introduction	Y	
60.18(b)	General control device: Flares	Y	
60.18(c)	General control device: Flare operating requirements	Y	
60.18(d)	General control device: Operate in conformance with design	Y	
60.18(e)	General control device: Operate at all times emissions are vented to the flare	Y	
60.18(f)	General control device: Monitoring	Y	
60.19	General notification and reporting requirements	Y	
NSPS 40 CFR 60 Subpart J	**Standards of Performance for Petroleum Refineries (12/01/15)**		
60.104	Standards for Sulfur Oxides: Compliance Schedule	Y	
60.104(a)(1)	Fuel gas H2S limit excluding process upset gases of fuel gas released to the flare as a result of relief valve leakage or other emergency malfunction	Y	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

Table IV – DD
Source-specific Applicable Requirements
S601 – Flare for Vine Hill Vapor Recovery System #2
S602 – Flare for Crude String Vapor Recovery System #3

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.105	Monitoring of Emissions and Operations	Y	
60.105(a)(4)	monitoring requirement for H2S (dry basis) in fuel gas prior to combustion	Y	
60.105(a)(4)(iv)	Exempt from 60.105(a)(4) for fuel gas streams exempt under 60.104(a)(1)	Y	
60.105(e)(3)	Excess SO_2 emission definitions for 60.7(c)	Y	
60.106	Test methods and procedures	Y	
60.106(e)	Method 11 shall be used to verify compliance with 60.104(a)(1)	Y	
NSPS 40 CFR 60 Subpart Kb	**Standards of Performance for Storage Vessels for Petroleum Liquids (12/14/00)**		
60.112b(a)	Control Device Requirements	Y	
60.112b(a)(3)	Vapor recovery system with performance requirement: at least 95% efficiency	Y	
NESHAP 40 CFR 63 Subpart CC	**NESHAPS - National Emission Standards for Hazardous Air Pollutants from Petroleum Refineries (7/13/2016)**		
63.670	Applicability: Flares used as a control device for an emission point subject to this subpart	Y	1/30/19
63.671	Requirements for flare monitoring systems	Y	1/30/19
BAAQMD Condition # 7761			
Part 6	S601 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	S602 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 – DD
Source-specific Applicable Requirements
S601 – Flare for Vine Hill Vapor Recovery System #2
S602 – Flare for Crude String Vapor Recovery System #3

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Condition # 18618			
Part 19	Upset gas limitation (basis: 60.104(a)(1); Regulation 2-1-403)	Y	

Table IV – EE
Source-specific Applicable Requirements
S603 – Flare for Interim Gasoline Vapor Recovery System #1

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 6 Rule 1	**Particulate Matter – General Requirements (08/01/18)**		
6-1-301	Ringelmann No. 1 Limitation	N	
6-1-305	Visible Particles	N	
6-1-310	Total Suspended Particulate (TSP) Concentration Limits	N	
SIP Regulation 6	**Particulate Matter and Visible Emissions (9/4/98)**		
6-301	Ringelmann No. 1 Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particulate Weight Limitation	Y	
BAAQMD Regulation 8 Rule 5	**Organic Compounds - STORAGE OF ORGANIC LIQUIDS (10/18/06)**		
8-5-118	Limited Exemption, Gas Tight Requirement for approved emission control system in 8-5-306.2 does not apply if facility is subject to BAAQMD 8-18	N	
8-5-306	Requirements for Approved Emission Control Systems	N	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

Table IV – EE
Source-specific Applicable Requirements
S603 – Flare for Interim Gasoline Vapor Recovery System #1

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-5-306.1	Requirements for approved Emission Control System; Abatement Efficiency >=95%	N	
SIP Regulation 8 Rule 5	**STORAGE OF ORGANIC LIQUIDS (6/5/03)**		
8-5-306	Requirements for Approved Emission Control Systems	Y	
8-5-328.1.2	Tank Degassing: Emission Control System Requirements during	Y	
8-5-502	Tank Degassing: Annual Source Test Requirement for Emission Control System	Y	
NSPS 40 CFR 60 Subpart A	**New Source Performance Standards – General Provisions (02/27/14)**		
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(d)	Control devices operated using good air pollution control practice	Y	
60.11(f)	Special provisions	Y	
60.11(g)	Any credible evidence or information	Y	
60.12	Circumvention	Y	
60.19	General notification and reporting requirements	Y	
NSPS 40 CFR 60 Subpart J	**Standards of Performance for Petroleum Refineries (12/01/15)**		
60.104	Standards for Sulfur Oxides: Compliance Schedule	Y	
60.104(a)(1)	Fuel gas H2S limit excluding process upset gases of fuel gas released to the flare as a result of relief valve leakage or other emergency malfunction	Y	
60.105	Monitoring of Emissions and Operations	Y	
60.105(a)(4)	monitoring requirement for H2S (dry basis) in fuel gas prior to combustion	Y	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

Table IV – EE
Source-specific Applicable Requirements
S603 – Flare for Interim Gasoline Vapor Recovery System #1

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.105(a)(4)(iv)	Eempt from 60.105(a)(4) for fuel gas streams exempt under 60.104(a)(1)	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	
NESHAP 40 CFR 63 Subpart CC	**NESHAPS - National Emission Standards for Hazardous Air Pollutants from Petroleum Refineries (7/13/2016)**		
63.670	Applicability: Flares used as a control device for an emission point subject to this subpart	Y	1/30/19
63.671	Requirements for flare monitoring systems	Y	1/30/19
BAAQMD Condition 7761			
Part 1	S603 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	
BAAQMD Condition # 18618			
Part 19	Upset gas limitation (basis: 60.104(a)(1); Regulation 2-1-403)	Y	

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 6 Rule 1	**Particulate Matter – General Requirements (08/01/18)**		
6-1-301	Ringelmann No. 1 Limitation	N	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

Table IV – FF
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
6-1-305	Visible Particles	N	
6-1-310	Total Suspended Particulate (TSP) Concentration Limits	N	
SIP Regulation 6	**Particulate Matter and Visible Emissions (9/4/98)**		
6-301	Ringelmann No. 1 Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particulate Weight Limitation	Y	
BAAQMD Regulation 8, Rule 1	**Organic Compounds - General Provisions (6/15/94)**		
8-1-110	Exemptions	Y	
8-1-110.3	Reduction due to incineration	Y	
BAAQMD Regulation 12 Rule 11	**Flare Monitoring at Petroleum Refineries (06/04/03)**		
12-11-401	Flare Data Reporting Requirements	N	
12-11-402	Flow Verification Report	N	
12-11-501	Vent Gas Flow Monitoring	N	
12-11-502	Vent Gas Composition Monitoring	N	
12-11-502.3	Vent Gas Composition Monitoring	N	
12-11-503	Pilot Monitoring	N	
12-11-504	Pilot and Purge Gas Monitoring	N	
12-11-505	Recordkeeping Requirements	N	
12-11-506	General Monitoring Requirements	N	
12-11-506.1	Periods of Inoperation of Vent Gas Monitoring	N	
12-11-507	Video Monitoring	N	
BAAQMD Regulation 12 Rule 12	**Flares at Petroleum Refineries (04/05/06)**		
12-12-301	Flare Minimization	N	
12-12-401	Flare Minimization Plan Requirements	N	
12-12-402	Submission of Flare Minimization Plans	N	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
12-12-403	Review and Approval of Flare Minimization Plans	N	
12-12-404	Update of Flare Minimization Plans	N	
12-12-405	Noficiation of Flaring	N	
12-12-406	Determination and Reporting of cause	N	
12-12-408	Designation of Confidential Information	N	
12-12-501	Water Seal Integrity Monitoring	N	
NSPS 40 CFR 60 Subpart A	**New Source Performance Standards – General Provisions (02/27/14)**		
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(d)	Control devices operated using good air pollution control practice	Y	
60.11(f)	Special provisions	Y	
60.11(g)	Any credible evidence or information	Y	
60.12	Circumvention	Y	
60.19	General notification and reporting requirements	Y	
NSPS 40 CFR 60 Subpart Ja	**Standards of Performance for Petroleum Refineries for Which Construction, Reconstruction, or Modification Commenced After May 14, 2007 (12/01/15)**		
60.100a	Applicability	Y	
60.100a(a)	Applicability: FCCUs, FCUs, delayed coking units, fuel gas combustion devices (including process heaters), flares, and sulfur recovery plants	Y	
60.100a(b)	Applicability: Flares which commenced construction, modification, or reconstruction after June 24, 2008	Y	
60.100a(c)	A modification to a flare is as defined by 60.100a(c)(1) or (2)	Y	
60.103a	Design, Equipment, Work Practice or Operational Standards	Y	
60.103a(f)	Compliance Dates for modified flares that were affected facilities subject to Subpart J prior to becoming affected facilities under 60.100a	Y	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

Table IV – FF
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
60.103a(g)	An affected flare in BAAQMD may elect to comply with BAAQMD Reg 12-11 and Reg 12-12 as an alternative to 60.103a(a) through (e)	Y	
60.103a(h)	Do not burn in any flare fuel gas with an H_2S concentration in excess of 162 ppmv on a 3-hour rolling average basis. Combustion in a flare of process upset gas or fuel gas that is released as a result of relief valve leakage or other emergency malfunctions is exempt from this limit	Y	
60.107a	Monitoring of emissions and operations for flares	Y	
60.107a(a)(3)	Fuel gas streams exempt under 60.103a(h) and fuel gas streams that are inherently low in sulfur content are not required to comply with the monitoring requirements of 60.107(a)(2)	Y	
60.107a(a)(3)(i)	-- pilot gas for flares	Y	
NESHAP 40 CFR 63 Subpart CC	**NESHAPS - National Emission Standards for Hazardous Air Pollutants from Petroleum Refineries (7/13/2016)**		
63.670	Applicability: Flares used as a control device for an emission point subject to this subpart	Y	1/30/19
63.671	Requirements for flare monitoring systems	Y	1/30/19
BAAQMD Condition # 18618			
Part 12	Flare throughput limit (basis: Regulations 8-1-110.3; 2-1-403)	Y	
Part 13	Flaring recordkeeping requirements (basis: Regulations 8-1-110.3; 2-6-409.2; 2-6-501)	Y	
Part 14	Inspection of flaring requirements (basis: Regulation 2-6-4092.)	Y	
Part 15	Inspection procedures (basis: Regulation 6-1-301; 2-1-403)	N	
Part 16	Visual inspection requirements (basis: Regulation 2-6-403)	Y	
Part 17	Recordkeeping requirements for flaring events (basis: Regulation 2-6-501; 2-6-409.2)	Y	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 1	**General Provisions and Definitions (05/04/11)**		
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	Y	
1-522.1	Approval of Plans and Specifications	Y	
1-522.2	Installation Scheduling	Y	
1-522.3	CEM Performance Testing	Y	
1-522.4	Periods of Inoperation	Y	
1-522.5	Daily Monitor Calibration	Y	
1-522.6	CEM Maintenance	Y	
1-522.7	Excess Emissions Reported (Nature, Extent, and Cause)	N	
1-522.8	Monitoring Data Submittal	Y	
1-522.9	Records	Y	
1-522.10	Monitors Required By 1-521 or 2-1-403	Y	
1-523	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.1	Periods of Inoperation Reported	Y	
1-523.2	Periods of Inoperation Per Incident	Y	
1-523.3	Violations of Permit Conditions Reported (Nature, Extent, and Cause)	N	
1-523.4	Records	Y	
1-523.5	Maintenace and Calibration Required	N	
SIP Regulation 1	**PROVISIONS NO LONGER IN CURRENT RULE** **General Provisions and Definitions (6/28/99)**		
1-522.7	Excess Emissions Reported (Nature, Extent, Cause, and Corrective Action)	Y	
1-523.3	Violations of Permit Conditions Reported (Nature, Extent, Cause, and Corrective Action)	Y	
BAAQMD Regulation 2, Rule 9	**Interchangeable Emission Reduction Credits (6/15/05)**		
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 – GG
Source-specific Applicable Requirements
S1480 - LUBS F-69 ASPHALT CIRCULATION,
S1481 - OPCEN F-30 DSU,
S1483 - LUBS F-32 ASPHALT CIRCULATION,
S1506 - CP F-61 CGP FEED,

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
2-9-304	Restrictions on the Use of IERC's	N	
2-9-306	Environmental Benefit Surcharge	N	
2-9-501	Monitoring and Record Keeping	N	
2-9-502	Alternative Compliance Plan Record Keeping and Reporting	N	
BAAQMD Regulation 6 Rule 1	**Particulate Matter – General Requirements (08/01/18)**		
6-1-301	Ringelmann No. 1 Limitation	N	
6-1-304	Tube Cleaning	N	
6-1-305	Visible Particles	N	
6-1-310	Total Suspended Particulate (TSP) Concentration Limits	N	
6-1-310.3	0.15 grain per dscf at 6% O_2	N	
SIP Regulation 6	**Particulate Matter and Visible Emissions (9/4/98)**		
6-301	Ringelmann No. 1 Limitation	Y	
6-304	Tube Cleaning	Y	
6-305	Visible Particles	Y	
6-310	Particulate Weight Limitation	Y	
6-310.3	0.15 grain per dscf at 6% O_2	Y	
BAAQMD Regulation 9, Rule 10	**Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon Monoxide from Boilers, Steam Generators, and Process Heaters in Petroleum Refineries (10/16/13)**		
9-10-301	Emission Limit for Facility, NOx: 0.033 lb NOx/MMBTU	N	
9-10-301.4	Units in Start-up or Shutdown or Curtailed Operation	N	
9-10-301.5	Units Temporarily Out of Service	N	
9-10-303	Federal Interim Facility-wide NOx emission rate limit	N	
9-10-305	CO emission limit	N	
9-10-502	Monitoring	N	
9-10-502.1	CEMS for NOx, CO, and O2	N	
9-10-502.2	Fuel flowmeters	Y	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
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 (04/02/08)**		
9-10-303	Interim Emission Limit for Facility (Federal Requirements)	Y	
9-10-502	Monitoring	Y	
NSPS 40 CFR Part 60 Subpart A	**General Provisions (02/27/14)**		
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 (12/01/15)**		
60.104	Standards for Sulfur Oxides: Compliance Schedule	Y	
60.104(a)(1)	Fuel gas H2S limit	Y	
60.105	Monitoring of Emissions and Operations	Y	
60.105(a)(4)	monitoring requirement for H2S (dry basis) in fuel gas prior to combustion (in lieu of separate combustion device exhaust SO2 monitors as required by 60.105(a)(3))	Y	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.105(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	
NESHAP 40 CFR 63 Subpart A	**General Provisions (06/25/13)**		
63.1	Applicability	Y	
63.2	Definitions, with additional terms defined in 6.37575	Y	
63.3	Units and abbreviations	Y	
63.4	Prohibited Activities and Circumvention	Y	
63.6(a)(1)	Applicability for affected sources	Y	
63.6(c)	Compliance dates for existing sources	Y	
63.6(j)	Presidential exemption	Y	
63.9(b)(2)	Notification Requirements: Submit initial notification no later than 120 calendar days after the effective date	Y	
63.9(h)(2)	Notification Requirements: After a Title V permit has been issued, submit the Notification of Compliance Status to the permitting authority	Y	
63.10(a)(2)(ii)	Recordkeeping and Reporting Requirements: Submit reports to the permitting authority with a copy of the report to the Regional Office of the EPA, unless waived by the EPA	Y	
63.10(a)(5)	Recordkeeping and Reporting Requirements: Periodic Report submittal dates	Y	
63.10(b)(1)	Recordkeeping and Reporting Requirements: General recordkeeping requirements	Y	
63.10(d)(1)	Recordkeeping and Reporting Requirements: General reporting requirements	Y	
63.10(f)	Recordkeeping and Reporting Requirements: Waivers	Y	
40 CFR Part 63 Subpart DDDDD	**NESHAP Subpart DDDDD Industrial, Commercial, and Institutional Boilers and Process Heaters (11/20/15)**		
63.7485	Applicable to boilers and heaters located at a major source of HAP	Y	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	emissions		
63.7490(a)	Applicable to any new, reconstructed, or existing industrial boiler or process heater	Y	
63.7490(a)(1)	The affected source is the collection of all existing sources at a major source;	Y	
63.7490(d)	A boiler or process heater is existing if it is not new or reconstructed.	Y	
63.7495(b)	Comply with the work practice standards for existing boilers and process heaters by January 31, 2016	Y	
63.7495(d)	Meet the notification requirements according to 63.7545 and 40 CFR Part 63, Subpart A	Y	
63.7499	Subcategories of boiler and process heaters	Y	
63.7499(l)	Units designed to burn gas 1 fuels	Y	
63.7500	Emission limitations, work practice standards, and operating limits	Y	
63.7500(a)	Meet the requirements in paragraphs (a)(1) and (3) except as provided in (e)	Y	
63.7500(a)(1)	Meet the work practice standards in Table 3: tune-ups and one-time energy assessment	Y	
63.7500(a)(3)	At all times operate and maintain any affected source including associated air pollution control equipment and monitoring equipment in a manner consistent with safety and good air pollution control practices for minimizing emissions	Y	
63.7500(e)	Boilers and process heaters designed to burn gas 1 fuels subcategory are not subject to the emission limits in Tables 1 and 2 or 11 through 13, or the operating limits in Table 4	Y	
63.7505	General requirements for compliance	Y	
63.7505(a)	Comply with the applicable emission limits, work practice standards, and operating limits at all times of operation	Y	
63.7510	Initial Compliance Requirements	Y	
63.7510(e)	Complete the initial tune-up following 63.7540(a)(10)(i) through (vi) no later than January 31, 2016. Complete the one-time energy assessment specified in Table 3 no later than January 31, 2016	Y	
63.7515	Tune-up Requirements	Y	
63.7515(d)	Conduct tune ups in accordance with 63.7540(a)	Y	
63.7530	Initial Compliance Demonstration with work practice standards	Y	
63.7530(e)	Submit a signed statement in the Notification of Compliance Status report that the energy assessment was completed according to Table	Y	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	3 and is an accurate depiction of the facility at the time of the assessment		
63.7540	Demonstrate Continuous Compliance with the Work Practice Standards	Y	
63.7540(a)	Demonstrate continuous compliance with the work practice standards in Table 3	Y	
63.7540(a)(10)	Conduct tune-up as specified in (a)(10)(i) through (vi)	Y	
63.7540(a)(13)	If the unit is not operating on the required date for a tune-up, the tune-up must be conducted within 30 calendar days of startup	Y	
63.7545	Notification Requirements	Y	
63.7545(a)	Submit all notifications in 63.7(b) and (c), 63.8(e), (f)(4) and (6), and 63.9(b) through (h) that apply by the specified dates	Y	
63.7545(e)	Submit a Notification of Compliance Status according to 63.9(h)(2)(ii) before the close of business of the 60th day following the completion of the initial tune-up. The NOCS report must contain all the information in (e)(1) and (8)	Y	
63.7545(e)(1)	A description of the affected units, including identification of the fuel subcategory, the design heat input capacity, and the fuel burned	Y	
63.7545(e)(8)	In addition to the information in 63.9(h)(2), the NOCS must include the following certifications of compliance and signed by a responsible official:	Y	
63.7545(e)(8)(i)	"This facility complies with the required initial tune-up according to the procedures in 63.7540(a)(10)(i) through (vi)."	Y	
63.7545(e)(8)(ii)	"This facility has had an energy assessment performed according to 63.7530(e)."	Y	
63.7550	Reports	Y	
63.7550(a)	Submit each report in Table 9 that applies	Y	
63.7550(b)	Submit an annual, biennial, or 5-year compliance report instead of the compliance report specified in Table 9 according to paragraphs (b)(1) through (4).	Y	
63.7550(c)	Each compliance report must contain the information in (c)(1) through (5) depending upon how the facility chooses to comply	Y	
63.7550(c)(1)	Submit a compliance report with the information in paragraphs (c)(5)(i) through (iii), (xiv), and (xvii) of this section	Y	
63.7550(c)(5)	Information required in compliance reports	Y	
63.7550(c)(5)(i	Company and Facility name and address	Y	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
)			
63.7550(c)(5)(ii)	Process Unit information	Y	
63.7550(c)(5)(iii)	Date of report and beginning and ending dates of the reporting period	Y	
63.7550(c)(5)(xiv)	The date of the most recent tune-up for each unit subject to only the requirement to conduct an annual, biennial, or 5-year tune-up. Include the date of the most recent burner inspection if it was not done annually, biennially, or on a 5-year period and was delayed until the next scheduled or unscheduled unit shutdown	Y	
63.7550(c)(5)(xvii)	Statement by a responsible official with that official's name, title, and signature, certifying the truth, accuracy, and completeness of the report	Y	
63.7550(h)	Submit the reports according to the electronic reporting procedures for use of EPA's WebFIRE, CEDRI, and CDX interface as specified in (h)(1) through (3)	Y	
63.7550(h)(3)	Electronic submission of reports	Y	
63.7555	Recordkeeping	Y	
63.7555(a)	Required records	Y	
63.7555(a)(1)	A copy of each notification and report submitted to comply with this subpart, including all documentation supporting any Initial Notification or Notification of Compliance Status or compliance report that you submitted according to the requirements of 63.10(b)(2)(xiv)	Y	
63.7560	Record Retention Requirements	Y	
63.7565	Applicability of General Provisions (Table 10)	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	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 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	
Part 2	O2 monitor and recorder requirement (basis: Regulation 9-10-502)	N	
Part 3	Operating conditions requirements for those sources without CEM (basis: Regulation 9-10-502)	N	
Part 4	NOx box establishment requirements (basis: Regulation 9-10-502)	N	
Part 5	NOx box ranges (basis: Regulation 9-10-502)	N	
Part 6	NOx Box Deviations (basis: Regulation 9-10-502)	N	
Part 7	Source test requirements (basis: Regulation 9-10-502)	N	
Part 10	Source test records (basis: recordkeeping; Regulation 9-10-504)	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 20	Maintain fuel flow meter [basis: Regulation 9-10-503]	N	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

Table IV – HH
Source-specific Applicable Requirements
S1760 - OPCEN F-102 FXU STEAM SUPERHEATER

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 1	**General Provisions and Definitions (05/04/11)**		
1-520	Continuous Emission Monitoring	Y	
1-520.8	Monitors as required by Regulation 10, 12 and Section 2-1-403	Y	
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	Y	
1-522.1	Approval of Plans and Specifications	Y	
1-522.2	Installation Scheduling	Y	
1-522.3	CEM Performance Testing	Y	
1-522.4	Periods of Inoperation	Y	
1-522.5	Daily Monitor Calibration	Y	
1-522.6	CEM Maintenance	Y	
1-522.7	Excess Emissions Reported (Nature, Extent, and Cause)	N	
1-522.8	Monitoring Data Submittal	Y	
1-522.9	Records	Y	
1-522.10	Monitors Required By 1-521 or 2-1-403	Y	
1-523	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.1	Periods of Inoperation Reported	Y	
1-523.2	Periods of Inoperation Per Incident	Y	
1-523.3	Violations of Permit Conditions Reported (Nature, Extent, and Cause)	N	
1-523.4	Records	Y	
1-523.5	Maintenace and Calibration Required	N	
SIP Regulation 1	**PROVISIONS NO LONGER IN CURRENT RULE General Provisions and Definitions (6/28/99)**		
1-522.7	Excess Emissions Reported (Nature, Extent, Cause, and Corrective Action)	Y	
1-523.3	Violations of Permit Conditions Reported (Nature, Extent, Cause, and Corrective Action)	Y	
BAAQMD Regulation 2, Rule 9	**Interchangeable Emission Reduction Credits (6/15/05)**		
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 – HH
Source-specific Applicable Requirements
S1760 - OPCEN F-102 FXU STEAM SUPERHEATER

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
2-9-304	Restrictions on the Use of IERC's	N	
2-9-306	Environmental Benefit Surcharge	N	
2-9-501	Monitoring and Record Keeping	N	
2-9-502	Alternative Compliance Plan Record Keeping and Reporting	N	
BAAQMD Regulation 6 Rule 1	**Particulate Matter – General Requirements (08/01/18)**		
6-1-301	Ringelmann No. 1 Limitation	N	
6-1-304	Tube Cleaning	N	
6-1-305	Visible Particles	N	
6-1-310	Total Suspended Particulate (TSP) Concentration Limits	N	
6-1-310.3	0.15 grain per dscf at 6% O_2	N	
SIP Regulation 6	**Particulate Matter and Visible Emissions (9/4/98)**		
6-301	Ringelmann No. 1 Limitation	Y	
6-304	Tube Cleaning	Y	
6-305	Visible Particles	Y	
6-310	Particulate Weight Limitation	Y	
6-310.3	0.15 grain per dscf at 6% O_2	Y	
BAAQMD Regulation 9, Rule 10	**Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon Monoxide from Boilers, Steam Generators, and Process Heaters in Petroleum Refineries (10/16/13)**		
9-10-301	Emission Limit for Facility, NOx: 0.033 lb NOx/MMBTU	N	
9-10-301.4	Units in Start-up or Shutdown or Curtailed Operation	N	
9-10-301.5	Units Temporarily Out of Service	N	
9-10-303	Federal Interim Facility-wide NOx emission rate limit	N	
9-10-305	CO emission limit	N	
9-10-502	Monitoring	N	
9-10-502.1	CEMS for NOx, CO, and O2	N	
9-10-502.2	Fuel flowmeters	Y	
9-10-504	Recordkeeping	N	
9-10-504.1	For All Sources Subject to 9-10-301, 303, 305, or 404.3	N	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

Table IV – HH
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
9-10-505	Reporting	N	
9-10-505.1	Reporting Requirements – Report violation to BAAQMD	N	
9-10-505.2	Reporting Requirements – Quarterly Report	N	
SIP Regulation 9, Rule 10	**Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon Monoxide from Boilers, Steam Generators, and Process Heaters in Petroleum Refineries (04/02/08)**		
9-10-303	Interim Emission Limit for Facility (Federal Requirements)	Y	
9-10-502	Monitoring	Y	
NSPS 40 CFR Part 60 Subpart A	**General Provisions (02/27/14)**		
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 (12/01/15)**		
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 – HH
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
NESHAP 40 CFR 63 Subpart A	**General Provisions (06/25/13)**		
63.1	Applicability	Y	
63.2	Definitions, with additional terms defined in 6.37575	Y	
63.3	Units and abbreviations	Y	
63.4	Prohibited Activities and Circumvention	Y	
63.6(a)(1)	Applicability for affected sources	Y	
63.6(c)	Compliance dates for existing sources	Y	
63.6(j)	Presidential exemption	Y	
63.9(b)(2)	Notification Requirements: Submit initial notification no later than 120 calendar days after the effective date	Y	
63.9(h)(2)	Notification Requirements: After a Title V permit has been issued, submit the Notification of Compliance Status to the permitting authority	Y	
63.10(a)(2)(ii)	Recordkeeping and Reporting Requirements: Submit reports to the permitting authority with a copy of the report to the Regional Office of the EPA, unless waived by the EPA	Y	
63.10(a)(5)	Recordkeeping and Reporting Requirements: Periodic Report submittal dates	Y	
63.10(b)(1)	Recordkeeping and Reporting Requirements: General recordkeeping requirements	Y	
63.10(d)(1)	Recordkeeping and Reporting Requirements: General reporting requirements	Y	
63.10(f)	Recordkeeping and Reporting Requirements: Waivers	Y	
40 CFR Part 63 Subpart DDDDD	**NESHAP Subpart DDDDD Industrial, Commercial, and Institutional Boilers and Process Heaters (11/20/15)**		
63.7485	Applicable to boilers and heaters located at a major source of HAP emissions	Y	
63.7490(a)	Applicable to any new, reconstructed, or existing industrial boiler or process heater	Y	
63.7490(a)(1)	The affected source is the collection of all existing sources at a major source;	Y	
63.7490(d)	A boiler or process heater is existing if it is not new or reconstructed.	Y	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

Table IV – HH
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
63.7495(b)	Comply with the work practice standards for existing boilers and process heaters by January 31, 2016	Y	
63.7495(d)	Meet the notification requirements according to 63.7545 and 40 CFR Part 63, Subpart A	Y	
63.7499	Subcategories of boiler and process heaters	Y	
63.7499(l)	Units designed to burn gas 1 fuels	Y	
63.7500	Emission limitations, work practice standards, and operating limits	Y	
63.7500(a)	Meet the requirements in paragraphs (a)(1) and (3) except as provided in (e)	Y	
63.7500(a)(1)	Meet the work practice standards in Table 3: tune-ups and one-time energy assessment	Y	
63.7500(a)(3)	At all times operate and maintain any affected source including associated air pollution control equipment and monitoring equipment in a manner consistent with safety and good air pollution control practices for minimizing emissions	Y	
63.7500(e)	Boilers and process heaters designed to burn gas 1 fuels subcategory are not subject to the emission limits in Tables 1 and 2 or 11 through 13, or the operating limits in Table 4	Y	
63.7505	General requirements for compliance	Y	
63.7505(a)	Comply with the applicable emission limits, work practice standards, and operating limits at all times of operation	Y	
63.7510	Initial Compliance Requirements	Y	
63.7510(e)	Complete the initial tune-up following 63.7540(a)(10)(i) through (vi) no later than January 31, 2016. Complete the one-time energy assessment specified in Table 3 no later than January 31, 2016	Y	
63.7515	Tune-up Requirements	Y	
63.7515(d)	Conduct tune ups in accordance with 63.7540(a)	Y	
63.7530	Initial Compliance Demonstration with work practice standards	Y	
63.7530(e)	Submit a signed statement in the Notification of Compliance Status report that the energy assessment was completed according to Table 3 and is an accurate depiction of the facility at the time of the assessment	Y	
63.7540	Demonstrate Continuous Compliance with the Work Practice Standards	Y	
63.7540(a)	Demonstrate continuous compliance with the work practice standards in Table 3	Y	
63.7540(a)(10)	Conduct tune-up as specified in (a)(10)(i) through (vi)	Y	
63.7540(a)(13)	If the unit is not operating on the required date for a tune-up, the tune-up must be conducted within 30 calendar days of startup	Y	
63.7545	Notification Requirements	Y	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

Table IV – HH
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
63.7545(a)	Submit all notifications in 63.7(b) and (c), 63.8(e), (f)(4) and (6), and 63.9(b) through (h) that apply by the specified dates	Y	
63.7545(e)	Submit a Notification of Compliance Status according to 63.9(h)(2)(ii) before the close of business of the 60th day following the completion of the initial tune-up. The NOCS report must contain all the information in (e)(1) and (8)	Y	
63.7545(e)(1)	A description of the affected units, including identification of the fuel subcategory, the design heat input capacity, and the fuel burned	Y	
63.7545(e)(8)	In addition to the information in 63.9(h)(2), the NOCS must include the following certifications of compliance and signed by a responsible official:	Y	
63.7545(e)(8)(i)	"This facility complies with the required initial tune-up according to the procedures in 63.7540(a)(10)(i) through (vi)."	Y	
63.7545(e)(8)(ii)	"This facility has had an energy assessment performed according to 63.7530(e)."	Y	
63.7550	Reports	Y	
63.7550(a)	Submit each report in Table 9 that applies	Y	
63.7550(b)	Submit an annual, biennial, or 5-year compliance report instead of th compliance report specified in Table 9 according to paragraphs (b)(1) through (4).	Y	
63.7550(c)	Each compliance report must contain the information in (c)(1) through (5) depending upon how the facility chooses to comply	Y	
63.7550(c)(1)	Submit a compliance report with the information in paragraphs (c)(5)(i) through (iii), (xiv), and (xvii) of this section	Y	
63.7550(c)(5)	Information required in compliance reports	Y	
63.7550(c)(5)(i)	Company and Facility name and address	Y	
63.7550(c)(5)(ii)	Process Unit information	Y	
63.7550(c)(5)(iii)	Date of report and beginning and ending dates of the reporting period	Y	
63.7550(c)(5)(xvii)	Statement by a responsible official with that official's name, title, and signature, certifying the truth, accuracy, and completeness of the report	Y	
63.7550(c)(5)(xiv)	The date of the most recent tune-up for each unit subject to only the requirement to conduct an annual, biennial, or 5-year tune-up. Include the date of the most recent burner inspection if it was not done annually, biennially, or on a 5-year period and was delayed until the next scheduled or unscheduled unit shutdown	Y	
63.7550(h)	Submit the reports according to the electronic reporting procedures for	Y	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

Table IV – HH
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
	use of EPA's WebFIRE, CEDRI, and CDX interface as specified in (h)(1) through (3)		
63.7550(h)(3)	Electronic submission of reports	Y	
63.7555	Recordkeeping	Y	
63.7555(a)	Required records	Y	
63.7555(a)(1)	A copy of each notification and report submitted to comply with this subpart, including all documentation supporting any Initial Notification or Notification of Compliance Status or compliance report that you submitted according to the requirements of 63.10(b)(2)(xiv)	Y	
63.7560	Record Retention Requirements	Y	
63.7565	Applicability of General Provisions (Table 10)	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.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	
Part 2	O2 monitor and recorder requirement (basis: Regulation 9-10-502)	N	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

Table IV – HH
Source-specific Applicable Requirements
S1760 - OPCEN F-102 FXU STEAM SUPERHEATER

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 8	For sources with NOx CEMS, semi-annual source test for CO at as-found conditions (basis: Regulation 9-10-502, 1-522)	N	
Part 10	Source test records (basis: recordkeeping; Regulation 9-10-504)	N	
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 20	Maintain fuel flow meter [basis: Regulation 9-10-503]	N	
BAAQMD Condition # 22119			
Part 1	Fuel specification [basis: Regulation 1-520.1]	Y	
Part 2	NOx emission rate [basis: Shell-EPA Consent Decree]	Y	
Part 3	NOx mass emission limit (Basis: Shell-EPA Consent Decree)	Y	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 1	**General Provisions and Definitions (05/04/11)**		
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	Y	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	Action)		
1-523.3	Violations of Permit Conditions Reported (Nature, Extent, Cause, and Corrective Action)	Y	
BAAQMD Regulation 2, Rule 9	**Interchangeable Emission Reduction Credits (6/15/05)**		
2-9-302	Use of IERC's	N	
2-9-303	Alternative Compliance Plan Using IERC's	N	
2-9-304	Restrictions on the Use of IERC's	N	
2-9-306	Environmental Benefit Surcharge	N	
2-9-501	Monitoring and Record Keeping	N	
2-9-502	Alternative Compliance Plan Record Keeping and Reporting	N	
BAAQMD Regulation 6 Rule 1	**Particulate Matter – General Requirements (08/01/18)**		
6-1-301	Ringelmann No. 1 Limitation	N	
6-1-304	Tube Cleaning	N	
6-1-305	Visible Particles	N	
6-1-310	Total Suspended Particulate (TSP) Concentration Limits	N	
6-1-310.3	0.15 grain per dscf at 6% O_2	N	
6-1-401	Appearance of Emissions Applies to: S1486, S1487, S1488, S1491, S1492, S1493, S1495, S1496, S1497, S1498, S1508, S1510, and S1511	N	
SIP Regulation 6	**Particulate Matter and Visible Emissions (9/4/98)**		

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
6-301	Ringelmann No. 1 Limitation	Y	
6-304	Tube Cleaning	Y	
6-305	Visible Particles	Y	
6-310	Particulate Weight Limitation	Y	
6-310.3	0.15 grain per dscf at 6% O_2	Y	
6-401	Appearance of Emissions Applies to: S1486, S1487, S1488, S1491, S1492, S1493, S1495, S1496, S1497, S1498, S1508, S1510, and S1511	Y	
BAAQMD Regulation 9, Rule 1	**Inorganic Gaseous Pollutants - Sulfur Dioxide (3/15/95; SIP approved 6/8/99)** Applies to: S1486, S1487, S1488, S1491, S1492, S1493, S1495, S1496, S1497, S1498, S1508, S1510, and S1511		
9-1-304	Fuel Burning (Liquid and Solid Fuels)	Y	
9-1-502	Continuous Emission Monitoring If Required by APCO	Y	
BAAQMD Regulation 9, Rule 10	**Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon Monoxide from Boilers, Steam Generators, and Process Heaters in Petroleum Refineries (10/16/13)**		
9-10-301	Emission Limit for Facility, NOx: 0.033 lb NOx/MMBTU	N	
9-10-301.4	Units in Start-up or Shutdown or Curtailed Operation	N	
9-10-301.5	Units Temporarily Out of Service	N	
9-10-303	Federal Interim Facility-wide NOx emission rate limit	N	
9-10-305	CO emission limit	N	
9-10-502	Monitoring	N	
9-10-502.1	CEMS for NOx, CO, and O2	N	
9-10-502.2	Fuel flowmeters	Y	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
9-10-504	Recordkeeping	N	
9-10-504.1	For All Sources Subject to 9-10-301, 303, 305, or 404.3	N	
9-10-505	Reporting	N	
9-10-505.1	Reporting Requirements – Report violation to BAAQMD	N	
9-10-505.2	Reporting Requirements – Quarterly Report	N	
SIP Regulation 9, Rule 10	**Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon Monoxide from Boilers, Steam Generators, and Process Heaters in Petroleum Refineries (04/02/08)**		
9-10-303	Interim Emission Limit for Facility (Federal Requirements)	Y	
9-10-502	Monitoring	Y	
NSPS 40 CFR 60 Subpart A	**Standards of Performance for New Stationary Sources (02/27/14)**	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	**Standards of Performance for Petroleum Refineries (12/01/15)**		

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Subpart J			
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	
NESHAP 40 CFR 63 Subpart A	**General Provisions (06/25/13)**		
63.1	Applicability	Y	
63.2	Definitions, with additional terms defined in 6.37575	Y	
63.3	Units and abbreviations	Y	
63.4	Prohibited Activities and Circumvention	Y	
63.6(a)(1)	Applicability for affected sources	Y	
63.6(c)	Compliance dates for existing sources	Y	
63.6(j)	Presidential exemption	Y	
63.9(b)(2)	Notification Requirements: Submit initial notification no later than 120 calendar days after the effective date	Y	
63.9(h)(2)	Notification Requirements: After a Title V permit has been issued, submit the Notification of Compliance Status to the permitting authority	Y	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.10(a)(2)(ii)	Recordkeeping and Reporting Requirements: Submit reports to the permitting authority with a copy of the report to the Regional Office of the EPA, unless waived by the EPA	Y	
63.10(a)(5)	Recordkeeping and Reporting Requirements: Periodic Report submittal dates	Y	
63.10(b)(1)	Recordkeeping and Reporting Requirements: General recordkeeping requirements	Y	
63.10(d)(1)	Recordkeeping and Reporting Requirements: General reporting requirements	Y	
63.10(f)	Recordkeeping and Reporting Requirements: Waivers	Y	
40 CFR Part 63 Subpart DDDDD	**NESHAP Subpart DDDDD Industrial, Commercial, and Institutional Boilers and Process Heaters (11/20/15)**		
63.7485	Applicable to boilers and heaters located at a major source of HAP emissions	Y	
63.7490(a)	Applicable to any new, reconstructed, or existing industrial boiler or process heater	Y	
63.7490(a)(1)	The affected source is the collection of all existing sources at a major source;	Y	
63.7490(d)	A boiler or process heater is existing if it is not new or reconstructed.	Y	
63.7495(b)	Comply with the work practice standards for existing boilers and process heaters by January 31, 2016	Y	
63.7495(d)	Meet the notification requirements according to 63.7545 and 40 CFR Part 63, Subpart A	Y	
63.7499	Subcategories of boiler and process heaters	Y	
63.7499(l)	Units designed to burn gas 1 fuels	Y	
63.7500	Emission limitations, work practice standards, and operating limits	Y	
63.7500(a)	Meet the requirements in paragraphs (a)(1) and (3) except as	Y	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	provided in (e)		
63.7500(a)(1)	Meet the work practice standards in Table 3: tune-ups and one-time energy assessment	Y	
63.7500(a)(3)	At all times operate and maintain any affected source including associated air pollution control equipment and monitoring equipment in a manner consistent with safety and good air pollution control practices for minimizing emissions	Y	
63.7500(e)	Boilers and process heaters designed to burn gas 1 fuels subcategory are not subject to the emission limits in Tables 1 and 2 or 11 through 13, or the operating limits in Table 4	Y	
63.7505	General requirements for compliance	Y	
63.7505(a)	Comply with the applicable emission limits, work practice standards, and operating limits at all times of operation	Y	
63.7510	Initial Compliance Requirements	Y	
63.7510(e)	Complete the initial tune-up following 63.7540(a)(10)(i) through (vi) no later than January 31, 2016. Complete the one-time energy assessment specified in Table 3 no later than January 31, 2016	Y	
63.7515	Tune-up Requirements	Y	
63.7515(d)	Conduct tune ups in accordance with 63.7540(a)	Y	
63.7530	Initial Compliance Demonstration with work practice standards	Y	
63.7530(e)	Submit a signed statement in the Notification of Compliance Status report that the energy assessment was completed according to Table 3 and is an accurate depiction of the facility at the time of the assessment	Y	
63.7540	Demonstrate Continuous Compliance with the Work Practice Standards	Y	
63.7540(a)	Demonstrate continuous compliance with the work practice standards in Table 3	Y	
63.7540(a)(10)	Conduct tune-up as specified in (a)(10)(i) through (vi)	Y	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.7540(a)(13)	If the unit is not operating on the required date for a tune-up, the tune-up must be conducted within 30 calendar days of startup	Y	
63.7545	Notification Requirements	Y	
63.7545(a)	Submit all notifications in 63.7(b) and (c), 63.8(e), (f)(4) and (6), and 63.9(b) through (h) that apply by the specified dates	Y	
63.7545(e)	Submit a Notification of Compliance Status according to 63.9(h)(2)(ii) before the close of business of the 60th day following the completion of the initial tune-up. The NOCS report must contain all the information in (e)(1) and (8)	Y	
63.7545(e)(1)	A description of the affected units, including identification of the fuel subcategory, the design heat input capacity, and the fuel burned	Y	
63.7545(e)(8)	In addition to the information in 63.9(h)(2), the NOCS must include the following certifications of compliance and signed by a responsible official:	Y	
63.7545(e)(8)(i)	"This facility complies with the required initial tune-up according to the procedures in 63.7540(a)(10)(i) through (vi)."	Y	
63.7545(e)(8)(ii)	"This facility has had an energy assessment performed according to 63.7530(e)."	Y	
63.7550	Reports	Y	
63.7550(a)	Submit each report in Table 9 that applies	Y	
63.7550(b)	Submit an annual, biennial, or 5-year compliance report instead of the compliance report specified in Table 9 according to paragraphs (b)(1) through (4).	Y	
63.7550(c)	Each compliance report must contain the information in (c)(1) through (5) depending upon how the facility chooses to comply	Y	
63.7550(c)(1)	Submit a compliance report with the information in paragraphs (c)(5)(i) through (iii), (xiv), and (xvii) of this section	Y	
63.7550(c)(5)	Information required in compliance reports	Y	
63.7550(c)(5)(i)	Company and Facility name and address	Y	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.7550(c)(5)(ii)	Process Unit information	Y	
63.7550(c)(5)(iii)	Date of report and beginning and ending dates of the reporting period	Y	
63.7550(c)(5)(xiv)	The date of the most recent tune-up for each unit subject to only the requirement to conduct an annual, biennial, or 5-year tune-up. Include the date of the most recent burner inspection if it was not done annually, biennially, or on a 5-year period and was delayed until the next scheduled or unscheduled unit shutdown	Y	
63.7550(c)(5)(xvii)	Statement by a responsible official with that official's name, title, and signature, certifying the truth, accuracy, and completeness of the report	Y	
63.7550(h)	Submit the reports according to the electronic reporting procedures for use of EPA's WebFIRE, CEDRI, and CDX interface as specified in (h)(1) through (3)	Y	
63.7550(h)(3)	Electronic submission of reports	Y	
63.7555	Recordkeeping	Y	
63.7555(a)	Required records	Y	
63.7555(a)(1)	A copy of each notification and report submitted to comply with this subpart, including all documentation supporting any Initial Notification or Notification of Compliance Status or compliance report that you submitted according to the requirements of 63.10(b)(2)(xiv)	Y	
63.7560	Record Retention Requirements	Y	
63.7565	Applicability of General Provisions (Table 10)	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	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 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] Applies to: S1486, S1487, S1488, S1491, S1492, S1493, S1495, S1496, S1497, S1498, S1508, S1510, and S1511	Y	
Part E	Fuel Conditions [basis: Regulation 2-2-302] Applies to: S1486, S1487, S1488, S1491, S1492, S1493, S1495, S1496, S1497, S1498, S1508, S1510, and S1511	Y	
Part E.1	Sulfur limit of liquid fuel [Regulation 9-1-304] Applies to: S1486, S1487, S1488, S1491, S1492, S1493, S1495, S1496, S1497, S1498, S1508, S1510, and S1511	Y	
Part E.2	Processing limit of San Joaquin Valley Crude [basis: Regulation 2-2-302] (Applies to S1486, S1487, S1488, S1495, S1496, S1497, S1508, and S1762 only)	Y	
Part F	Reporting [basis: Cumulative Increase]	Y	
Part G	Records [basis: Cumulative Increase]	Y	
BAAQMD Condition # 16688			
Part 1	Maximum firing rate [basis: Regulation 2-1-234]	N	
BAAQMD Condition #			

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
18265			
Part 1	Sources subject to Regulation 9-10 (basis: Regulation 9-10-301 & 305)	N	
Part 2	O2 monitor and recorder requirement (basis: Regulation 9-10-502)	N	
Part 8	For sources with NOx CEMS, semi-annual source test for CO at as-found conditions (basis: Regulation 9-10-502, 1-522)	N	
Part 10	Source test records (basis: recordkeeping; Regulation 9-10-504)	N	
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 20	Maintain fuel flow meter [basis: Regulation 9-10-503]	N	
BAAQMD Condition # 18618	Applies to: S1486, S1487, S1488, S1491, S1492, S1493, S1495, S1496, S1497, S1498, S1508, S1510, and S1511		
Part 3	Visible emissions inspection (basis: Regulation 2-6-409.2)	Y	
Part 4	Fuel certification (basis: Regulation 2-6-409.2)	Y	
Part 6	Visible emission inspection during tube cleaning (basis: Regulation 2-6-409.2)	Y	
Part 7	Recordkeeping (basis: Regulation 2-6-409.2)	Y	
BAAQMD Condition #23559	Applies to S1510		
Part 1	Fuel type limitation (basis: Reglation 2-1-301)	Y	
Part 2	Average NOx emissions factor limit (basis: Shell-EPA Consent Decree)	Y	
Part 3	Allowable NOx emission limit (basis: Shell-EPA Consent Decree)	Y	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Condition #23560	Applies to S1511		
Part 1	Fuel type limitation (basis: Reglation 2-1-301)	Y	
Part 2	Average NOx emissions factor limit (basis: Shell-EPA Consent Decree)	Y	
Part 3	Allowable NOx emission limit (basis: Shell-EPA Consent Decree)	Y	
BAAQMD Condition # 24263	Applies to S1490, S1491, S1492, S1493, S1495, S1496, S1497, S1498, and S1499		
Part 1	Fuel specification (Basis: Regulation 2-1-301)	Y	
Part 2	NOx emission rate (Basis: Shell-EPA Consent Decree)	Y	
Part 3	Combined NOx mass emission limit (Basis: Shell-EPA Consent Decree)	Y	
BAAQMD Condition # 25134	Applies to S1486		
Part 21	Annual NOx emissions limit [basis: Regulation 2-1-234]	Y	
Part 22b	Heat input rate determination [basis: Regulation 2-6-503]	Y	
Part 22c	Monthly firing rate determination [basis: Regulation 2-6-503]	Y	
Part 23	Recordkeeping of S1486 from Parts 21 and 22 [basis: Recordkeeping]	Y	
BAAQMD Condition # 25134	Applies to S1486 and S1495		
Part 26	CO2e emission limit for S1486, S1495 and S4021 combined [basis: CEQA]	Y	
Part 27	Calculation of CO2e emissions basis [basis: CEQA, Regulation 2-6-503]	Y	
Part 28	Calculation of CO2 emissions reductions basis [basis: CEQA,	Y	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	Regulation 2-6-503]		
Part 29	Recordkeeping for Parts 24-28 [basis: CEQA, Recordkeeping]	Y	
Part 30	Reporting: Annual report to the District's Engineering Division [basis: CEQA, Recordkeeping]	Y	
Part 31	Reporting: Any non-compliance with emission limits [basis: CEQA, Recordkeeping]	Y	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

Table IV – JJ
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 (05/04/11)**		
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, and Cause)	Y	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

Table IV – JJ
Source-specific Applicable Requirements
S1494 – DH F-47 SECONDARY COLUMN REBOIL
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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 2, Rule 9	**Interchangeable Emission Reduction Credits (6/15/05)**		
2-9-302	Use of IERC's	N	
2-9-303	Alternative Compliance Plan Using IERC's	N	
2-9-304	Restrictions on the Use of IERC's	N	
2-9-306	Environmental Benefit Surcharge	N	
2-9-501	Monitoring and Record Keeping	N	
2-9-502	Alternative Compliance Plan Record Keeping and Reporting	N	
BAAQMD Regulation 6 Rule 1	**Particulate Matter – General Requirements (08/01/18)**		
6-1-301	Ringelmann No. 1 Limitation	N	
6-1-304	Tube Cleaning	N	
6-1-305	Visible Particles	N	
6-1-310	Total Suspended Particulate (TSP) Concentration Limits	N	
6-1-310.3	0.15 grain per dscf at 6% O_2	N	
SIP Regulation 6	**Particulate Matter and Visible Emissions (9/4/98)**		
6-301	Ringelmann No. 1 Limitation	Y	
6-304	Tube Cleaning	Y	
6-305	Visible Particles	Y	
6-310	Particulate Weight Limitation	Y	
6-310.3	0.15 grain per dscf at 6% O_2	Y	
BAAQMD Regulation 9,	**Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon Monoxide from Boilers, Steam Generators, and Process Heaters in Petroleum**		

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

Table IV – JJ
Source-specific Applicable Requirements
S1494 – DH F-47 SECONDARY COLUMN REBOIL
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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
Rule 10	**Refineries (10/16/13)**		
9-10-301	Emission Limit for Facility, NOx: 0.033 lb NOx/MMBTU	N	
9-10-301.4	Units in Start-up or Shutdown or Curtailed Operation	N	
9-10-301.5	Units Temporarily Out of Service	N	
9-10-303	Federal Interim Facility-wide NOx emission rate limit	N	
9-10-305	CO emission limit	N	
9-10-502	Monitoring	N	
9-10-502.1	CEMS for NOx, CO, and O2	N	
9-10-502.2	Fuel flowmeters	Y	
9-10-504	Recordkeeping	N	
9-10-504.1	For All Sources Subject to 9-10-301, 303, 305, or 404.3	N	
9-10-505	Reporting	N	
9-10-505.1	Reporting Requirements – Report violation to BAAQMD	N	
9-10-505.2	Reporting Requirements – Quarterly Report	N	
SIP Regulation 9, Rule 10	**Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon Monoxide from Boilers, Steam Generators, and Process Heaters in Petroleum Refineries (04/02/08)**		
9-10-303	Interim Emission Limit for Facility (Federal Requirements)	Y	
9-10-502	Monitoring	Y	
NSPS 40 CFR 60 Subpart A	**Standards of Performance for New Stationary Sources (02/27/14)**		
60.7	Notification and record keeping	Y	
60.8	Performance tests	Y	
60.11	Compliance with standards and maintenance requirements	Y	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.11(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 (Applies to S4141)	Y	
60.19	General notification and reporting requirements	Y	
NSPS 40 CFR 60 Subpart J	**Standards of Performance for Petroleum Refineries (12/01/15)**		
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	
NESHAP 40 CFR 63 Subpart A	**General Provisions (06/25/13)**		
63.1	Applicability	Y	
63.2	Definitions, with additional terms defined in 6.37575	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
63.3	Units and abbreviations	Y	
63.4	Prohibited Activities and Circumvention	Y	
63.6(a)(1)	Applicability for affected sources	Y	
63.6(c)	Compliance dates for existing sources	Y	
63.6(j)	Presidential exemption	Y	
63.9(b)(2)	Notification Requirements: Submit initial notification no later than 120 calendar days after the effective date	Y	
63.9(h)(2)	Notification Requirements: After a Title V permit has been issued, submit the Notification of Compliance Status to the permitting authority	Y	
63.10(a)(2)(ii)	Recordkeeping and Reporting Requirements: Submit reports to the permitting authority with a copy of the report to the Regional Office of the EPA, unless waived by the EPA	Y	
63.10(a)(5)	Recordkeeping and Reporting Requirements: Periodic Report submittal dates	Y	
63.10(b)(1)	Recordkeeping and Reporting Requirements: General recordkeeping requirements	Y	
63.10(d)(1)	Recordkeeping and Reporting Requirements: General reporting requirements	Y	
63.10(f)	Recordkeeping and Reporting Requirements: Waivers	Y	
40 CFR Part 63 Subpart DDDDD	**NESHAP Subpart DDDDD Industrial, Commercial, and Institutional Boilers and Process Heaters (11/20/15)**		
63.7485	Applicable to boilers and heaters located at a major source of HAP emissions	Y	
63.7490(a)	Applicable to any new, reconstructed, or existing industrial boiler or process heater	Y	
63.7490(a)(1)	The affected source is the collection of all existing sources at a major	Y	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

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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
	source;		
63.7490(d)	A boiler or process heater is existing if it is not new or reconstructed.	Y	
63.7495(b)	Comply with the work practice standards for existing boilers and process heaters by January 31, 2016	Y	
63.7495(d)	Meet the notification requirements according to 63.7545 and 40 CFR Part 63, Subpart A	Y	
63.7499	Subcategories of boiler and process heaters	Y	
63.7499(l)	Units designed to burn gas 1 fuels	Y	
63.7500	Emission limitations, work practice standards, and operating limits	Y	
63.7500(a)	Meet the requirements in paragraphs (a)(1) and (3) except as provided in (e)	Y	
63.7500(a)(1)	Meet the work practice standards in Table 3: tune-ups and one-time energy assessment	Y	
63.7500(a)(3)	At all times operate and maintain any affected source including associated air pollution control equipment and monitoring equipment in a manner consistent with safety and good air pollution control practices for minimizing emissions	Y	
63.7500(e)	Boilers and process heaters designed to burn gas 1 fuels subcategory are not subject to the emission limits in Tables 1 and 2 or 11 through 13, or the operating limits in Table 4	Y	
63.7505	General requirements for compliance	Y	
63.7505(a)	Comply with the applicable emission limits, work practice standards, and operating limits at all times of operation	Y	
63.7510	Initial Compliance Requirements	Y	
63.7510(e)	Complete the initial tune-up following 63.7540(a)(10)(i) through (vi) no later than January 31, 2016. Complete the one-time energy assessment specified in Table 3 no later than January 31, 2016	Y	
63.7515	Tune-up Requirements	Y	
63.7515(d)	Conduct tune ups in accordance with 63.7540(a)	Y	
63.7530	Initial Compliance Demonstration with work practice standards	Y	
63.7530(e)	Submit a signed statement in the Notification of Compliance Status	Y	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

Table IV – JJ
Source-specific Applicable Requirements
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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
	report that the energy assessment was completed according to Table 3 and is an accurate depiction of the facility at the time of the assessment		
63.7540	Demonstrate Continuous Compliance with the Work Practice Standards	Y	
63.7540(a)	Demonstrate continuous compliance with the work practice standards in Table 3	Y	
63.7540(a)(10)	Conduct tune-up as specified in (a)(10)(i) through (vi)	Y	
63.7540(a)(13)	If the unit is not operating on the required date for a tune-up, the tune-up must be conducted within 30 calendar days of startup	Y	
63.7545	Notification Requirements	Y	
63.7545(a)	Submit all notifications in 63.7(b) and (c), 63.8(e), (f)(4) and (6), and 63.9(b) through (h) that apply by the specified dates	Y	
63.7545(e)	Submit a Notification of Compliance Status according to 63.9(h)(2)(ii) before the close of business of the 60th day following the completion of the initial tune-up. The NOCS report must contain all the information in (e)(1) and (8)	Y	
63.7545(e)(1)	A description of the affected units, including identification of the fuel subcategory, the design heat input capacity, and the fuel burned	Y	
63.7545(e)(8)	In addition to the information in 63.9(h)(2), the NOCS must include the following certifications of compliance and signed by a responsible official:	Y	
63.7545(e)(8)(i)	"This facility complies with the required initial tune-up according to the procedures in 63.7540(a)(10)(i) through (vi)."	Y	
63.7545(e)(8)(ii)	"This facility has had an energy assessment performed according to 63.7530(e)."	Y	
63.7550	Reports	Y	
63.7550(a)	Submit each report in Table 9 that applies	Y	
63.7550(b)	Submit an annual, biennial, or 5-year compliance report instead of the compliance report specified in Table 9 according to paragraphs (b)(1)	Y	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

Table IV – JJ
Source-specific Applicable Requirements
S1494 – DH F-47 SECONDARY COLUMN REBOIL
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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
	through (4).		
63.7550(c)	Each compliance report must contain the information in (c)(1) through (5) depending upon how the facility chooses to comply	Y	
63.7550(c)(1)	Submit a compliance report with the information in paragraphs (c)(5)(i) through (iii), (xiv), and (xvii) of this section	Y	
63.7550(c)(5)	Information required in compliance reports	Y	
63.7550(c)(5)(i)	Company and Facility name and address	Y	
63.7550(c)(5)(ii)	Process Unit information	Y	
63.7550(c)(5)(iii)	Date of report and beginning and ending dates of the reporting period	Y	
63.7550(c)(5)(xiv)	The date of the most recent tune-up for each unit subject to only the requirement to conduct an annual, biennial, or 5-year tune-up. Include the date of the most recent burner inspection if it was not done annually, biennially, or on a 5-year period and was delayed until the next scheduled or unscheduled unit shutdown	Y	
63.7550(c)(5)(xvii)	Statement by a responsible official with that official's name, title, and signature, certifying the truth, accuracy, and completeness of the report	Y	
63.7550(h)	Submit the reports according to the electronic reporting procedures for use of EPA's WebFIRE, CEDRI, and CDX interface as specified in (h)(1) through (3)	Y	
63.7550(h)(3)	Electronic submission of reports	Y	
63.7555	Recordkeeping	Y	
63.7555(a)	Required records	Y	
63.7555(a)(1)	A copy of each notification and report submitted to comply with this subpart, including all documentation supporting any Initial Notification or Notification of Compliance Status or compliance report that you submitted according to the requirements of 63.10(b)(2)(xiv)	Y	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

Table IV – JJ
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
63.7560	Record Retention Requirements	Y	
63.7565	Applicability of General Provisions (Table 10)	Y	
BAAQMD Condition # 7618	Applies to S1494, S1502, S1503, S1505, S1515, and S1761 Part E.2 also applies to S4031 and S4141		
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 E.2	Processing limit of San Joaquin Valley Crude [basis: Regulation 2-2-302] (Applies to S1494, S1505, S1515, S1761, S4031, and S4141 only)	Y	
BAAQMD Condition # 12271	Applies to S4031 and S4141		
Part A	Monthly and annual emission limits [basis: Offsets, Cumulative Increase]	Y	
Part B	Applicable sources [basis: Offsets, Cumulative Increase]	Y	
Part C	In the case of a process upset or other irregularity [basis: Offsets, Cumulative Increase]	N	
Part D	Applicable source test methods [basis: Manual of Procedures, Volume IV]	Y	
Part E	Notification of the Source Test Section [basis: Manual of Procedures, Volume IV]	Y	
Part G	Source test results [basis: Manual of Procedures Volume IV]	Y	
Part J	CEM requirements [basis: Cumulative Increase, Offsets]	Y	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

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S4031 – DC F-14012 HGHT Reboil
S4141 – DC F-14011 HGHT Feed

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part K	CEM data for compliance verification [basis: BACT, Offsets]	Y	
Part L	Recordkeeping [basis: BACT, Offsets, Cumulative Increase]	Y	
Part M	Monthly reports [basis: Offsets, Cumulative Increase]	Y	
Part O	Offsets requirements [basis: Offsets]	Y	
Part 15	Refinery fuel gas limits [basis: BACT]	Y	
Part 16	Continuous gaseous fuel monitor/recorder for H2S [basis: BACT]	Y	
Part 16A	Natural gas line connection upstream of CO Boilers [basis: Offsets]	Y	
Part 17	Recordkeeping requirements [basis; Cumulative Emissions]	Y	
Part 18	Fuel usage limitation [basis: Offsets, Cumulative Increase]	Y	
Part 19	ULSD defined [basis: Offsets, Cumulative Increase]	Y	
Part 20	Continuous Fuel Flow Monitor [basis: Offsets, Cumulative Increase]	Y	
Part 21	Calculate and Record Emissions Monthly [basis: Offsets, Cumulative Increase]	Y	
Part 22	Startup and shutdown limits [basis: BACT]	Y	
Part 23	HHV basis [basis: Cumulative Emissions]	Y	
Part 35	Furnaces with SCR NOx emission limit [basis: BACT]	Y	
Part 36	Furnaces with SCR CO emission limit [basis: BACT]	Y	
Part 37	Furnaces with SCR Ammonia emission limit [basis: BACT]	N	
Part 38	Furnaces with SCR CEM recorder for NOx and O2 [basis: BACT]	Y	
Part 105	Source Test for CO emissions [basis: Regulation 2-6-409.2]	Y	
Part 111	Source Test for NH_3 emissions [basis: Regulation 2-6-409.2]	N	
BAAQMD Condition # 16688	Applies to S4031 and S4141		
Part 1	Maximum firing rate [basis: Regulation 2-1-234]	N	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

Table IV – JJ
Source-specific Applicable Requirements
S1494 – DH F-47 SECONDARY COLUMN REBOIL
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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	
Part 2	O2 monitor and recorder requirement (basis: Regulation 9-10-502)	N	
Part 8	For sources with NOx CEMS, semi-annual source test for CO at as-found conditions (basis: Regulation 9-10-502, 1-522)	N	
Part 10	Source test records (basis: recordkeeping; Regulation 9-10-504)	N	
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 20	Maintain fuel flow meter [basis: Regulation 9-10-503]	N	
BAAQMD Condition # 16688			
Part 1	Maximum firing rate [basis: Regulation 2-1-234]	N	
BAAQMD Condition # 24263	Applies to S1494		
Part 1	Fuel specification (Basis: Regulation 2-1-301)	Y	
Part 2	NOx emission rate (Basis: Shell-EPA Consent Decree)	Y	
Part 3	Combined NOx mass emission limit (Basis: Shell-EPA Consent Decree)	Y	
BAAQMD AMP Condition #	For S4141		

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
24336			
Part 1	Alternative procedures for demonstrating compliance with the 162 ppmv H2S limit in NSPS J 60.104(a)(1) (Basis: Alternative Monitoring Plan, 40 CFR 60.13(i))	Y	
Part 2	Recordkeeping requirements (Basis: Regulation 2-6-501)	Y	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

Table IV – KK
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 (05/04/11)**		
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	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

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S4003 – DC F13425-B DCU

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 2, Rule 9	**Interchangeable Emission Reduction Credits (6/15/05)**		
2-9-302	Use of IERC's	N	
2-9-303	Alternative Compliance Plan Using IERC's	N	
2-9-304	Restrictions on the Use of IERC's	N	
2-9-306	Environmental Benefit Surcharge	N	
2-9-501	Monitoring and Record Keeping	N	
2-9-502	Alternative Compliance Plan Record Keeping and Reporting	N	
BAAQMD Regulation 6 Rule 1	**Particulate Matter – General Requirements (08/01/18)**		
6-1-301	Ringelmann No. 1 Limitation	N	
6-1-304	Tube Cleaning	N	
6-1-305	Visible Particles	N	
6-1-310	Total Suspended Particulate (TSP) Concentration Limits	N	
6-1-310.3	0.15 grain per dscf at 6% O_2	N	
6-1-401	Appearance of Emissions	N	
SIP Regulation 6	**Particulate Matter and Visible Emissions (9/4/98)**		
6-301	Ringelmann No. 1 Limitation	Y	
6-304	Tube Cleaning	Y	
6-305	Visible Particles	Y	
6-310	Particulate Weight Limitation	Y	
6-310.3	0.15 grain per dscf at 6% O_2	Y	
6-401	Appearance of Emissions	Y	
BAAQMD Regulation 9, Rule 1	**Inorganic Gaseous Pollutants - Sulfur Dioxide (3/15/95; SIP approved 6/8/99)**		

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

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S4003 – DC F13425-B DCU

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
9-1-304	Fuel Burning (Liquid and Solid Fuels)	Y	
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 (10/16/13)**		
9-10-301	Emission Limit for Facility, NOx: 0.033 lb NOx/MMBTU	N	
9-10-301.4	Units in Start-up or Shutdown or Curtailed Operation	N	
9-10-301.5	Units Temporarily Out of Service	N	
9-10-303	Federal Interim Facility-wide NOx emission rate limit	N	
9-10-305	CO emission limit	N	
9-10-502	Monitoring	N	
9-10-502.1	CEMS for NOx, CO, and O2	N	
9-10-502.2	Fuel flowmeters	Y	
9-10-504	Recordkeeping	N	
9-10-504.1	For All Sources Subject to 9-10-301, 303, 305, or 404.3	N	
9-10-505	Reporting	N	
9-10-505.1	Reporting Requirements – Report violation to BAAQMD	N	
9-10-505.2	Reporting Requirements – Quarterly Report	N	
SIP Regulation 9, Rule 10	**Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon Monoxide from Boilers, Steam Generators, and Process Heaters in Petroleum Refineries (3/29/01)**		
9-10-303	Interim Emission Limit for Facility (Federal Requirements)	Y	
9-10-502	Monitoring	Y	
NSPS 40 CFR 60 Subpart A	**Standards of Performance for New Stationary Sources (02/27/14)**		
60.7	Notification and record keeping	Y	
60.8	Performance tests		
60.11	Compliance with standards and maintenance requirements	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
60.11(a)	Performance test	Y	
60.11(d)	Good air pollution control practice for minimizing emissions	Y	
60.11(f)	Special provisions	Y	
60.11(g)	Any credible evidence or information	Y	
60.12	Circumvention	Y	
60.13	Monitoring requirements	Y	
60.13(i)	Alternatives to any monitoring procedures or requirement (Applies to S4002 and S4003)	Y	
60.19	General notification and reporting requirements	Y	
NSPS 40 CFR 60 Subpart J	**Standards of Performance for Petroleum Refineries (12/01/15)**		
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	
NESHAP 40 CFR 63 Subpart A	**General Provisions (06/25/13)**		
63.1	Applicability	Y	
63.2	Definitions, with additional terms defined in 6.37575	Y	
63.3	Units and abbreviations	Y	
63.4	Prohibited Activities and Circumvention	Y	
63.6(a)(1)	Applicability for affected sources	Y	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

Table IV – KK
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
63.6(c)	Compliance dates for existing sources	Y	
63.6(j)	Presidential exemption	Y	
63.9(b)(2)	Notification Requirements: Submit initial notification no later than 120 calendar days after the effective date	Y	
63.9(h)(2)	Notification Requirements: After a Title V permit has been issued, submit the Notification of Compliance Status to the permitting authority	Y	
63.10(a)(2)(ii)	Recordkeeping and Reporting Requirements: Submit reports to the permitting authority with a copy of the report to the Regional Office of the EPA, unless waived by the EPA	Y	
63.10(a)(5)	Recordkeeping and Reporting Requirements: Periodic Report submittal dates	Y	
63.10(b)(1)	Recordkeeping and Reporting Requirements: General recordkeeping requirements	Y	
63.10(d)(1)	Recordkeeping and Reporting Requirements: General reporting requirements	Y	
63.10(f)	Recordkeeping and Reporting Requirements: Waivers	Y	
40 CFR Part 63 Subpart DDDDD	**NESHAP Subpart DDDDD Industrial, Commercial, and Institutional Boilers and Process Heaters (11/20/15)**		
63.7485	Applicable to boilers and heaters located at a major source of HAP emissions	Y	
63.7490(a)	Applicable to any new, reconstructed, or existing industrial boiler or process heater	Y	
63.7490(a)(1)	The affected source is the collection of all existing sources at a major source;	Y	
63.7490(d)	A boiler or process heater is existing if it is not new or reconstructed.	Y	
63.7495(b)	Comply with the work practice standards for existing boilers and process heaters by January 31, 2016	Y	
63.7495(d)	Meet the notification requirements according to 63.7545 and 40 CFR Part 63, Subpart A	Y	
63.7499	Subcategories of boiler and process heaters	Y	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

Table IV – KK
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
63.7499(l)	Units designed to burn gas 1 fuels	Y	
63.7500	Emission limitations, work practice standards, and operating limits	Y	
63.7500(a)	Meet the requirements in paragraphs (a)(1) and (3) except as provided in (e)	Y	
63.7500(a)(1)	Meet the work practice standards in Table 3: tune-ups and one-time energy assessment	Y	
63.7500(a)(3)	At all times operate and maintain any affected source including associated air pollution control equipment and monitoring equipment in a manner consistent with safety and good air pollution control practices for minimizing emissions	Y	
63.7500(e)	Boilers and process heaters designed to burn gas 1 fuels subcategory are not subject to the emission limits in Tables 1 and 2 or 11 through 13, or the operating limits in Table 4	Y	
63.7505	General requirements for compliance	Y	
63.7505(a)	Comply with the applicable emission limits, work practice standards, and operating limits at all times of operation	Y	
63.7510	Initial Compliance Requirements	Y	
63.7510(e)	Complete the initial tune-up following 63.7540(a)(10)(i) through (vi) no later than January 31, 2016. Complete the one-time energy assessment specified in Table 3 no later than January 31, 2016	Y	
63.7515	Tune-up Requirements	Y	
63.7515(d)	Conduct tune ups in accordance with 63.7540(a)	Y	
63.7530	Initial Compliance Demonstration with work practice standards	Y	
63.7530(e)	Submit a signed statement in the Notification of Compliance Status report that the energy assessment was completed according to Table 3 and is an accurate depiction of the facility at the time of the assessment	Y	
63.7540	Demonstrate Continuous Compliance with the Work Practice Standards	Y	
63.7540(a)	Demonstrate continuous compliance with the work practice standards in Table 3	Y	
63.7540(a)(10)	Conduct tune-up as specified in (a)(10)(i) through (vi)	Y	
63.7540(a)(13)	If the unit is not operating on the required date for a tune-up, the tune-up must be conducted within 30 calendar days of startup	Y	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

Table IV – KK
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
63.7545	Notification Requirements	Y	
63.7545(a)	Submit all notifications in 63.7(b) and (c), 63.8(e), (f)(4) and (6), and 63.9(b) through (h) that apply by the specified dates	Y	
63.7545(e)	Submit a Notification of Compliance Status according to 63.9(h)(2)(ii) before the close of business of the 60th day following the completion of the initial tune-up. The NOCS report must contain all the information in (e)(1) and (8)	Y	
63.7545(e)(1)	A description of the affected units, including identification of the fuel subcategory, the design heat input capacity, and the fuel burned	Y	
63.7545(e)(8)	In addition to the information in 63.9(h)(2), the NOCS must include the following certifications of compliance and signed by a responsible official:	Y	
63.7545(e)(8)(i)	"This facility complies with the required initial tune-up according to the procedures in 63.7540(a)(10)(i) through (vi)."	Y	
63.7545(e)(8)(ii)	"This facility has had an energy assessment performed according to 63.7530(e)."	Y	
63.7550	Reports	Y	
63.7550(a)	Submit each report in Table 9 that applies	Y	
63.7550(b)	Submit an annual, biennial, or 5-year compliance report instead of the compliance report specified in Table 9 according to paragraphs (b)(1) through (4).	Y	
63.7550(c)	Each compliance report must contain the information in (c)(1) through (5) depending upon how the facility chooses to comply	Y	
63.7550(c)(1)	Submit a compliance report with the information in paragraphs (c)(5)(i) through (iii), (xiv), and (xvii) of this section	Y	
63.7550(c)(5)	Information required in compliance reports	Y	
63.7550(c)(5)(i)	Company and Facility name and address	Y	
63.7550(c)(5)(ii)	Process Unit information	Y	
63.7550(c)(5)(iii)	Date of report and beginning and ending dates of the reporting period	Y	
63.7550(c)(5)(xiv)	The date of the most recent tune-up for each unit subject to only the requirement to conduct an annual, biennial, or 5-year tune-up.	Y	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

Table IV – KK
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
	Include the date of the most recent burner inspection if it was not done annually, biennially, or on a 5-year period and was delayed until the next scheduled or unscheduled unit shutdown		
63.7550(c)(5)(xvii)	Statement by a responsible official with that official's name, title, and signature, certifying the truth, accuracy, and completeness of the report	Y	
63.7550(h)	Submit the reports according to the electronic reporting procedures for use of EPA's WebFIRE, CEDRI, and CDX interface as specified in (h)(1) through (3)	Y	
63.7550(h)(3)	Electronic submission of reports	Y	
63.7555	Recordkeeping	Y	
63.7555(a)	Required records	Y	
63.7555(a)(1)	A copy of each notification and report submitted to comply with this subpart, including all documentation supporting any Initial Notification or Notification of Compliance Status or compliance report that you submitted according to the requirements of 63.10(b)(2)(xiv)	Y	
63.7560	Record Retention Requirements	Y	
63.7565	Applicability of General Provisions (Table 10)	Y	
BAAQMD Condition # 7618	Applies to S1500, S1504, S1763		
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	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 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	
Part E.2	Processing limit of San Joaquin Valley Crude [basis: Regulation 2-2-302] (Applies to S1504 and S1763 only)	Y	
BAAQMD Condition # 12271	Applies to S4002 and S4003		
Part A	Monthly and annual emission limits [basis: Offsets, Cumulative Increase]	Y	
Part B	Applicable sources [basis: Offsets, Cumulative Increase]	Y	
Part C	In the case of a process upset or other irregularity [basis: Offsets, Cumulative Increase]	N	
Part D	Applicable source test methods [basis: Manual of Procedures, Volume IV]	Y	
Part E	Notification of the Source Test Section [basis: Manual of Procedures, Volume IV]	Y	
Part G	Source test results [basis: Manual of Procedures Volume IV]	Y	
Part J	CEM requirements [basis: Cumulative Increase, Offsets]	Y	
Part K	CEM data for compliance verification [basis: BACT, Offsets]	Y	
Part L	Recordkeeping [basis: BACT, Offsets, Cumulative Increase]	Y	
Part M	Monthly reports [basis: Offsets, Cumulative Increase]	Y	
Part O	Offsets requirements [basis: Offsets]	Y	
Part 15	Refinery fuel gas limits [basis: BACT]	Y	
Part 16	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.a.	Fuel usage limitation [basis: Offsets, Cumulative Increase]	Y	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 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	Applies to S4002 and S4003		
Part 1	Maximum firing rate [basis: Regulation 2-1-234]	N	
BAAQMD Condition # 18265			
Part 1	Sources subject to Regulation 9-10 (basis: Regulation 9-10-301 & 305)	N	
Part 2	O2 monitor and recorder requirement (basis: Regulation 9-10-502)	N	
Part 8	For sources with NOx CEMS, semi-annual source test for CO at as-found conditions (basis: Regulation 9-10-502, 1-522)	N	
Part 10	Source test records (basis: recordkeeping; Regulation 9-10-504)	N	
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	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 20	Maintain fuel flow meter [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	
BAAQMD Condition # 24336	For S4002 and S4003		
Part 1	Alternative procedures for demonstrating compliance with the 162 ppmv H2S limit in NSPS J 60.104(a)(1) (Basis: Alternative Monitoring Plan, 40 CFR 60.13(i))	Y	
Part 2	Recordkeeping requirements (Basis: Regulation 2-6-501)	Y	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

Table IV - LL
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 (05/04/11)**		
1-520	Continuous Emission Monitoring	Y	
1-520.8	Monitors as required by Regulation 10, 12 and Section 2-1-403	Y	
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	Y	
1-522.1	Approval of Plans and Specifications	Y	
1-522.2	Installation Scheduling	Y	
1-522.3	CEM Performance Testing	Y	
1-522.4	Periods of Inoperation	Y	
1-522.5	Daily Monitor Calibration	Y	
1-522.6	CEM Maintenance	Y	
1-522.7	Excess Emissions Reported (Nature, Extent, and Cause)	N	
1-522.8	Monitoring Data Submittal	Y	
1-522.9	Records	Y	
1-522.10	Monitors Required By 1-521 or 2-1-403	Y	
1-523	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.1	Periods of Inoperation Reported	Y	
1-523.2	Periods of Inoperation Per Incident	Y	
1-523.3	Violations of Permit Conditions Reported (Nature, Extent, and Cause)	N	
1-523.4	Records	Y	
1-523.5	Maintenace and Calibration Required	N	
SIP Regulation 1	**PROVISIONS NO LONGER IN CURRENT RULE General Provisions and Definitions (6/28/99)**		
1-522.7	Excess Emissions Reported (Nature, Extent, Cause, and Corrective Action)	Y	
1-523.3	Violations of Permit Conditions Reported (Nature, Extent, Cause, and Corrective Action)	Y	
BAAQMD Regulation 2, Rule 9	**Interchangeable Emission Reduction Credits (6/15/05)**		

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
2-9-302	Use of IERC's	N	
2-9-303	Alternative Compliance Plan Using IERC's	N	
2-9-304	Restrictions on the Use of IERC's	N	
2-9-306	Environmental Benefit Surcharge	N	
2-9-501	Monitoring and Record Keeping	N	
2-9-502	Alternative Compliance Plan Record Keeping and Reporting	N	
BAAQMD Regulation 6 Rule 1	**Particulate Matter – General Requirements (08/01/18)**		
6-1-301	Ringelmann No. 1 Limitation	N	
6-1-304	Tube Cleaning	N	
6-1-305	Visible Particles	N	
6-1-310	Total Suspended Particulate (TSP) Concentration Limits	N	
6-1-310.3	0.15 grain per dscf at 6% O_2	N	
6-1-311	Total Suspended Particulate (TSP) Weight Limits	N	
6-1-401	Appearance of Emissions	N	
SIP Regulation 6	**Particulate Matter and Visible Emissions (9/4/98)**		
6-301	Ringelmann No. 1 Limitation	Y	
6-304	Tube Cleaning	Y	
6-305	Visible Particles	Y	
6-310	Particulate Weight Limitation	Y	
6-310.3	0.15 grain per dscf at 6% O_2	Y	
6-311	General Operations (process weight rate limitation)	Y	
6-401	Appearance of Emissions	Y	
BAAQMD Regulation 9, Rule 1	**Inorganic Gaseous Pollutants - Sulfur Dioxide (3/15/95; SIP approved 6/8/99)**		
9-1-304	Fuel Burning (Liquid and Solid Fuels)	Y	
9-1-502	Continuous Emission Monitoring If Required by APCO	Y	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

Table IV - LL
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 10	**Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon Monoxide from Boilers, Steam Generators, and Process Heaters in Petroleum Refineries (10/16/13)**		
9-10-303.1	Federal Interim Facility-wide NOx emission limit for CO Boilers	Y	
9-10-305	CO emission limit	N	
9-10-307.2	NOx Emission Limits for CO Boilers	N	
9-10-307.2.1	NOx Emission Limits for Partial Burn CO Boilers – Operating Day	N	
9-10-307.2.2	NOx Emission Limits for Partial Burn CO Boilers – Calendar Year	N	
9-10-502	Monitoring	N	
9-10-502.1	CEMS for NOx, CO, and O2	N	
9-10-502.2	Fuel flowmeters	Y	
9-10-504	Recordkeeping	N	
9-10-504.1	For All Sources Subject to 9-10-301, 303, 305	N	
9-10-505	Reporting	N	
9-10-505.1	Reporting Requirements – Report violation to BAAQMD	N	
9-10-505.2	Reporting Requirements – Quarterly Report	N	
SIP Regulation 9, Rule 10	**Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon Monoxide from Boilers, Steam Generators, and Process Heaters in Petroleum Refineries (04/02/08)**		
9-10-502	Monitoring	Y	
NSPS 40 CFR 60 Subpart A	**Standards of Performance for New Stationary Sources (02/27/14)**		
60.7	Notification and record keeping	Y	
60.8	Performance tests		
60.11	Compliance with standards and maintenance requirements	Y	
60.11(a)	Performance test	Y	
60.11(d)	Good air pollution control practice for minimizing emissions	Y	
60.11(f)	Special provisions	Y	
60.11(g)	Any credible evidence or information	Y	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

Table IV - LL
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 (12/01/15)**		
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	
40 CFR Part 63 Subpart DDDDD	**NESHAP Subpart DDDDD Industrial, Commercial, and Institutional Boilers and Process Heaters (11/20/15)**		
63.7491(h)	Exemption for heater or boiler used as a control device exemption	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	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

Table IV - LL
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 E	Fuel Conditions	Y	
Part E.1	Sulfur limit of liquid fuel [Regulation 9-1-304]	Y	
Part E.2	Processing limit of San Joaquin Valley Crude [basis: Regulation 2-2-302]	Y	
Part F	Reporting [basis: Cumulative Increase]	Y	
Part G	Records [basis: Cumulative Increase]	Y	
BAAQMD Condition # 12271			
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			

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

Table IV - LL
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
Condition # 17533			
Part 2	Ammonia emission limit [basis: Regulation 6-5-403]	N	
Part 5	Automatic controls of urea injection system [basis: Offsets]	Y	
Part 9	Daily records [basis: Offsets]	Y	
Part 10	Temperature indicator and recorder [basis: Offsets]	Y	
Part 11	Curtailment if excess opacity [basis: Regulation 6-1-301]	N	
Part 12	Additional source test results availability [basis: Offsets]	Y	
Part 13	NOx and O2 CEM and recording system [basis: Offsets]	Y	
Part 14	Field accuracy test of CEM [basis: Offsets]	Y	
Part 15	If CEM inoperable [basis: Offsets]	Y	
BAAQMD Condition # 16688			
Part 1	Maximum firing rate [basis: Regulation 2-1-234]	N	
BAAQMD Condition # 18618			
Part 1	Throughput limit (basis: Regulation 2-1-234.3, 2-1-307)	N	
Part 2	Recordkeeping (basis: Regulation 2-1-234.3, 2-1-307)	N	
Part 4	Fuel certification (basis: Regulation 2-6-409.2)	Y	
Part 9	Source Test for grain loading rate (basis: Regulation 2-6-409.2)	Y	
BAAQMD Condition # 22165			
Part 1	Continuous ESP opacity operating for reasonable assurance of compliance with Regulations 6-310. (basis: Regulation 2-6-503)	N	
Part 6	Opacity ≤ 30%; Else, exceedance of Regulation 6-1-310 particulate limit (Regulation 2-6-503)	N	
BAAQMD Condition # 25134			

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

Table IV - LL
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 24	Total emissions limit from the CO Boilers of NOx [basis: CEQA, Offsets]	Y	
Part 25	Operate the CO Boilers in accordance with the Manual of Procedures to verify compliance with Part 24; calculate NOx emissions [basis: CEQA, Offsets, Regulation 2-6-503]	Y	
Part 29	Recordkeeping for Parts 24-28 [basis: CEQA, Recordkeeping]	Y	
Part 30	Reporting: Annual report to District's Engineering Division [basis: CEQA, Recordkeeping]	Y	
Part 31	Reporting: Any non-compliance with emission limits [basis: CEQA, Recordkeeping]	Y	
BAAQMD Condition # 25247			
Part 1	SO_2 Emission Limits [Basis: Equilon Consent Decree, paragraphs 13, 14, 42, and 43]	Y	
Part 1a	Emission Methodology for SO_2 Long-Term Limit (365-day rolling average) [Basis: Equilon Consent Decree, paragraphs 13, 14, 42, and 43]	Y	
Part 1b	Emission Methodology for SO_2 Short-Term limit (7-day rolling average) [Basis: Equilon Consent Decree, paragraphs 13, 14, 42, and 43]	Y	
Part 1c	Emission Methodology for SO_2 Daily Flow-Weighted Average Recordkeeping [Basis: Equilon Consent Decree, paragraphs 13, 14, 42, and 43]	Y	
Part 2	NO_x Emission Limits [Basis: Equilon Consent Decree, paragraphs 13, 14, 42, and 43]	Y	
Part 2a	Emission Methodology for NO_x Long-Term Limit (365-day rolling average) [Basis: Equilon Consent Decree, paragraphs 13, 14, 42, and 43]	Y	
Part 2b	Emission Methodology for NO_x Short-Term Limit (24-hour rolling average) [Basis: Equilon Consent Decree, paragraphs 13, 14, 42, and 43]	Y	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

Table IV – MM
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 (05/04/11)**		
1-520	Continuous Emission Monitoring	Y	
1-520.8	Monitors as required by Regulation 10, 12 and Section 2-1-403	Y	
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	Y	
1-522.1	Approval of Plans and Specifications	Y	
1-522.2	Installation Scheduling	Y	
1-522.3	CEM Performance Testing	Y	
1-522.4	Periods of Inoperation	Y	
1-522.5	Daily Monitor Calibration	Y	
1-522.6	CEM Maintenance	Y	
1-522.7	Excess Emissions Reported (Nature, Extent, and Cause)	N	
1-522.8	Monitoring Data Submittal	Y	
1-522.9	Records	Y	
1-522.10	Monitors Required By 1-521 or 2-1-403	Y	
1-523	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.1	Periods of Inoperation Reported	Y	
1-523.2	Periods of Inoperation Per Incident	Y	
1-523.3	Violations of Permit Conditions Reported (Nature, Extent, and Cause)	N	
1-523.4	Records	Y	
1-523.5	Maintenace and Calibration Required	N	
SIP Regulation 1	**PROVISIONS NO LONGER IN CURRENT RULE** **General Provisions and Definitions (6/28/99)**		
1-522.7	Excess Emissions Reported (Nature, Extent, Cause, and Corrective Action)	Y	
1-523.3	Violations of Permit Conditions Reported (Nature, Extent, Cause, and Corrective Action)	Y	
BAAQMD Regulation 2, Rule 9	**Interchangeable Emission Reduction Credits (6/15/05)**		
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 – MM
Source-specific Applicable Requirements
S1514 - UTIL F-70 BOILER 4

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
2-9-304	Restrictions on the Use of IERC's	N	
2-9-306	Environmental Benefit Surcharge	N	
2-9-501	Monitoring and Record Keeping	N	
2-9-502	Alternative Compliance Plan Record Keeping and Reporting	N	
BAAQMD Regulation 6 Rule 1	**Particulate Matter – General Requirements (08/01/18)**		
6-1-301	Ringelmann No. 1 Limitation	N	
6-1-304	Tube Cleaning	N	
6-1-305	Visible Particles	N	
6-1-310	Total Suspended Particulate (TSP) Concentration Limits	N	
6-1-310.3	0.15 grain per dscf at 6% O_2	N	
6-1-401	Appearance of Emissions	N	
6-1-501	Sampling Facilities and Instruments Required	N	
6-1-502	Data, Records and Reporting	N	
SIP Regulation 6	**Particulate Matter and Visible Emissions (9/4/98)**		
6-301	Ringelmann No. 1 Limitation	Y	
6-304	Tube Cleaning	Y	
6-305	Visible Particles	Y	
6-310	Particulate Weight Limitation	Y	
6-310.3	0.15 grain per dscf at 6% 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 (10/16/13)**		
9-10-301	Emission Limit for Facility, NOx: 0.033 lb NOx/MMBTU	N	
9-10-301.4	Units in Start-up or Shutdown or Curtailed Operation	N	
9-10-301.5	Units Temporarily Out of Service	N	
9-10-303	Federal Interim Facility-wide NOx emission rate limit	N	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
9-10-305	CO emission limit	N	
9-10-502	Monitoring	N	
9-10-502.1	CEMS for NOx, CO, and O2	N	
9-10-502.2	Fuel flowmeters	Y	
9-10-504	Recordkeeping	N	
9-10-504.1	For All Sources Subject to 9-10-301, 303, 305, or 404.3	N	
9-10-505	Reporting	N	
9-10-505.1	Reporting Requirements – Report violation to BAAQMD	N	
9-10-505.2	Reporting Requirements – Quarterly Report	N	
SIP Regulation 9, Rule 10	**Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon Monoxide from Boilers, Steam Generators, and Process Heaters in Petroleum Refineries (04/02/08)**		
9-10-303	Interim Emission Limit for Facility (Federal Requirements)	Y	
9-10-502	Monitoring	Y	
NSPS 40 CFR 60 Subpart A	**Standards of Performance for New Stationary Sources (02/27/14)**		
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 (12/01/15)**		
60.104	Standards for Sulfur Oxides: Compliance Schedule	Y	
60.104(a)(1)	Fuel gas H2S limit	Y	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

Table IV – MM
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
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	
NESHAP 40 CFR 63 Subpart A	**General Provisions (06/25/13)**		
63.1	Applicability	Y	
63.2	Definitions, with additional terms defined in 6.37575	Y	
63.3	Units and abbreviations	Y	
63.4	Prohibited Activities and Circumvention	Y	
63.6(a)(1)	Applicability for affected sources	Y	
63.6(c)	Compliance dates for existing sources	Y	
63.6(j)	Presidential exemption	Y	
63.9(b)(2)	Notification Requirements: Submit initial notification no later than 120 calendar days after the effective date	Y	
63.9(h)(2)	Notification Requirements: After a Title V permit has been issued, submit the Notification of Compliance Status to the permitting authority	Y	
63.10(a)(2)(ii)	Recordkeeping and Reporting Requirements: Submit reports to the permitting authority with a copy of the report to the Regional Office of the EPA, unless waived by the EPA	Y	
63.10(a)(5)	Recordkeeping and Reporting Requirements: Periodic Report submittal dates	Y	
63.10(b)(1)	Recordkeeping and Reporting Requirements: General recordkeeping requirements	Y	
63.10(d)(1)	Recordkeeping and Reporting Requirements: General reporting requirements	Y	
63.10(f)	Recordkeeping and Reporting Requirements: Waivers	Y	
40 CFR Part 63 Subpart	**NESHAP Subpart DDDDD Industrial, Commercial, and Institutional Boilers and Process Heaters (11/20/15)**		

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

Table IV – MM
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
DDDDD			
63.7485	Applicable to boilers and heaters located at a major source of HAP emissions	Y	
63.7490(a)	Applicable to any new, reconstructed, or existing industrial boiler or process heater	Y	
63.7490(a)(1)	The affected source is the collection of all existing sources at a major source;	Y	
63.7490(d)	A boiler or process heater is existing if it is not new or reconstructed.	Y	
63.7495(b)	Comply with the work practice standards for existing boilers and process heaters by January 31, 2016	Y	
63.7495(d)	Meet the notification requirements according to 63.7545 and 40 CFR Part 63, Subpart A	Y	
63.7499	Subcategories of boiler and process heaters	Y	
63.7499(l)	Units designed to burn gas 1 fuels	Y	
63.7500	Emission limitations, work practice standards, and operating limits	Y	
63.7500(a)	Meet the requirements in paragraphs (a)(1) and (3) except as provided in (e)	Y	
63.7500(a)(1)	Meet the work practice standards in Table 3: tune-ups and one-time energy assessment	Y	
63.7500(a)(3)	At all times operate and maintain any affected source including associated air pollution control equipment and monitoring equipment in a manner consistent with safety and good air pollution control practices for minimizing emissions	Y	
63.7500(e)	Boilers and process heaters designed to burn gas 1 fuels subcategory are not subject to the emission limits in Tables 1 and 2 or 11 through 13, or the operating limits in Table 4	Y	
63.7505	General requirements for compliance	Y	
63.7505(a)	Comply with the applicable emission limits, work practice standards, and operating limits at all times of operation	Y	
63.7510	Initial Compliance Requirements	Y	
63.7510(e)	Complete the initial tune-up following 63.7540(a)(10)(i) through (vi) no later than January 31, 2016. Complete the one-time energy assessment specified in Table 3 no later than January 31, 2016	Y	
63.7515	Tune-up Requirements	Y	
63.7515(d)	Conduct tune ups in accordance with 63.7540(a)	Y	
63.7530	Initial Compliance Demonstration with work practice standards	Y	
63.7530(e)	Submit a signed statement in the Notification of Compliance Status report that the energy assessment was completed according to Table 3 and is an accurate depiction of the facility at the time of the	Y	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

Table IV – MM
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
	assessment		
63.7540	Demonstrate Continuous Compliance with the Work Practice Standards	Y	
63.7540(a)	Demonstrate continuous compliance with the work practice standards in Table 3	Y	
63.7540(a)(10)	Conduct tune-up as specified in (a)(10)(i) through (vi)	Y	
63.7540(a)(13)	If the unit is not operating on the required date for a tune-up, the tune-up must be conducted within 30 calendar days of startup	Y	
63.7545	Notification Requirements	Y	
63.7545(a)	Submit all notifications in 63.7(b) and (c), 63.8(e), (f)(4) and (6), and 63.9(b) through (h) that apply by the specified dates	Y	
63.7545(e)	Submit a Notification of Compliance Status according to 63.9(h)(2)(ii) before the close of business of the 60th day following the completion of the initial tune-up. The NOCS report must contain all the information in (e)(1) and (8)	Y	
63.7545(e)(1)	A description of the affected units, including identification of the fuel subcategory, the design heat input capacity, and the fuel burned	Y	
63.7545(e)(8)	In addition to the information in 63.9(h)(2), the NOCS must include the following certifications of compliance and signed by a responsible official:	Y	
63.7545(e)(8)(i)	"This facility complies with the required initial tune-up according to the procedures in 63.7540(a)(10)(i) through (vi)."	Y	
63.7545(e)(8)(ii)	"This facility has had an energy assessment performed according to 63.7530(e)."	Y	
63.7550	Reports	Y	
63.7550(a)	Submit each report in Table 9 that applies	Y	
63.7550(b)	Submit an annual, biennial, or 5-year compliance report instead of the compliance report specified in Table 9 according to paragraphs (b)(1) through (4).	Y	
63.7550(c)	Each compliance report must contain the information in (c)(1) through (5) depending upon how the facility chooses to comply	Y	
63.7550(c)(1)	Submit a compliance report with the information in paragraphs (c)(5)(i) through (iii), (xiv), and (xvii) of this section	Y	
63.7550(c)(5)	Information required in compliance reports	Y	
63.7550(c)(5)(i)	Company and Facility name and address	Y	
63.7550(c)(5)(ii)	Process Unit information	Y	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

Table IV – MM
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
63.7550(c)(5)(iii)	Date of report and beginning and ending dates of the reporting period	Y	
63.7550(c)(5)(xiv)	The date of the most recent tune-up for each unit subject to only the requirement to conduct an annual, biennial, or 5-year tune-up. Include the date of the most recent burner inspection if it was not done annually, biennially, or on a 5-year period and was delayed until the next scheduled or unscheduled unit shutdown	Y	
63.7550(c)(5)(xvii)	Statement by a responsible official with that official's name, title, and signature, certifying the truth, accuracy, and completeness of the report	Y	
63.7550(h)	Submit the reports according to the electronic reporting procedures for use of EPA's WebFIRE, CEDRI, and CDX interface as specified in (h)(1) through (3)	Y	
63.7550(h)(3)	Electronic submission of reports	Y	
63.7555	Recordkeeping	Y	
63.7555(a)	Required records	Y	
63.7555(a)(1)	A copy of each notification and report submitted to comply with this subpart, including all documentation supporting any Initial Notification or Notification of Compliance Status or compliance report that you submitted according to the requirements of 63.10(b)(2)(xiv)	Y	
63.7560	Record Retention Requirements	Y	
63.7565	Applicability of General Provisions (Table 10)	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	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

Table IV – MM
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 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	
Part 2	O2 monitor and recorder requirement (basis: Regulation 9-10-502)	N	
Part 8	For sources with NOx CEMS, semi-annual source test for CO at as-found conditions (basis: Regulation 9-10-502, 1-522)	N	
Part 10	Source test records (basis: recordkeeping; Regulation 9-10-504)	N	
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 20	Maintain fuel flow meter [basis: Regulation 9-10-503]	N	
BAAQMD Condition # 16688			
Part 1	Maximum firing rate [basis: Regulation 2-1-234]	N	
BAAQMD Condition # 17532			
Part 1	Fuel specification [basis: Regulation 1-520.1]	Y	
Part 3	NOx emission rate [basis: Shell-EPA Consent Decree]	Y	
Part 4	NOx mass emission limit (Basis: Shell-EPA Consent Decree)	Y	
BAAQMD Condition # 18618			
Part 3	Visible emissions inspection (basis: Regulation 2-6-409.2)	Y	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

Table IV – MM
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 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 – NN
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 (11/6/02)**		
8-7-113	Tank Gauging and Inspection Exemption	Y	
8-7-301	Phase I Requirements	Y	
8-7-301.1	Requirement for CARB Phase I System	Y	
8-7-301.2	Installation of Phase I Equipment per CARB Requirements	Y	
8-7-301.3	Submerged Fill Pipes	Y	
8-7-301.5	Maintenance of Phase I Equipment per Manufacturers Guidelines or CARB Executive Order	Y	
8-7-301.6	Leak-Free, Vapor-Tight	Y	
8-7-301.7	Poppetted Drybreaks	Y	
8-7-301.8	No Coaxial Phase 1 Systems on New and Modified Tanks	Y	
8-7-301.9	CARB-Certified Anti-Rotational Coupler or Swivel Adapter	Y	
8-7-301.10	System Vapor Recovery Rate	Y	
8-7-301.11	CARB-Certified Spill Box	Y	
8-7-301.12	Drain Valve Permanently Plugged	Y	
8-7-301.13	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	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

Table IV – MM
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
8-7-302.4	Repair of Defective Parts Within 7 Days	Y	
8-7-302.5	Leak-Free, Vapor-Tight	Y	
8-7-302.6	Insertion Interlocks	Y	
8-7-302.7	Built-In Vapor Check Valve	Y	
8-7-302.8	Minimum Liquid Removal Rate	Y	
8-7-302.9	Coaxial Hose	Y	
8-7-302.10	Galvanized Piping or Flexible Tubing	Y	
8-7-302.12	Liquid Retention Limit	Y	
8-7-302.13	Spitting Limit	Y	
8-7-302.14	Back Pressure for Vapor Balance		
8-7-303	Topping Off	Y	
8-7-304	Certification Requirements	Y	
8-7-306	Prohibition of Use	Y	
8-7-307	Posting of Operating Instructions	Y	
8-7-308	Operating Practices	Y	
8-7-309	Contingent Vapor Recovery Requirements	Y	
8-7-313	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 # 7878			

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

Table IV – MM
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	Annual gasoline throughput limit [basis: Cumulative Increase, Toxics]	N	
BAAQMD Condition # 21593			
Part 1	Phase I equipment installed and maintained per CARB Executive Order (Basis: District Regulation 8-7-301.2)	Y	
Part 2	Triennial drop tube/drain valve and static adaptor torque test requirements (Basis: District Regulation 8-7-301.2)	Y	
BAAQMD Condition # 24298			
Part 1	Install, Operate and Maintain VST EVR Phase II Vapor Recovery System in accordance with CARB E.O.	Y	
Part 2	Recordkeeping requirements	Y	
Part 3	Leak Free and Vapor Tight requirements	Y	
Part 4	Annual Source Test requirement	Y	
Part 5	Source Test Notification requirements	Y	
Part 6	Coaxial Hose Requirements	Y	
Part 7	Dispensing Rate Requirements	Y	
Part 8	Veeder-Root Vapor Polisher Control Requirement	Y	
Part 9	Veeder-Root Vapor Polisher Operating Requirement	Y	
Part 10	Veeder-Root Vapor Polisher Access Requirement	Y	
Part 11	Veeder-Root Vapor Polisher Testing Requirement	Y	
Part 12	Storage Tank Vent Pipe Requirments	Y	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 6 Rule 1	**Particulate Matter – General Requirements (08/01/18)**		
6-1-301	Ringelmann No. 1 Limitation	N	
6-1-305	Visible Particles	N	
6-1-311	Total Suspended Particulate (TSP) Weight Limits	N	
6-1-401	Appearance of Emissions	N	
SIP Regulation 6	**Particulate Matter and Visible Emissions (9/4/98)**		
6-301	Ringelmann No. 1 Limitation	Y	
6-305	Visible Particles	Y	
6-311	General Operations (process weight rate limitation)	Y	
6-401	Appearance of Emissions	Y	

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 6 Rule 1	**Particulate Matter – General Requirements (08/01/18)**		
6-1-301	Ringelmann No. 1 Limitation	N	
6-1-305	Visible Particles	N	
6-1-310	Total Suspended Particulate (TSP) Concentration Limits	N	
6-1-311	Total Suspended Particulate (TSP) Weight Limits	N	
6-1-401	Appearance of Emissions	N	
SIP Regulation 6	**Particulate Matter and Visible Emissions (9/4/98)**		
6-301	Ringelmann No. 1 Limitation	Y	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

Table IV - PP
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
6-305	Visible Particles	Y	
6-310	Particulate Weight Limitation	Y	
6-311	General Operations (process weight rate limitation)	Y	
6-401	Appearance of Emissions	Y	
BAAQMD Condition # 7618			
Part D.3	Abatement Requirement [basis: BACT, Cumulative Increase]	Y	
BAAQMD Condition # 20755	Applies to S1769		
Part 1	Routing of coke fines from S-1769 to portable filter truck (A771) limited to no more than 96 hours during any consecutive 12-month basis (Basis: Regulation 6-1-301, 6-1-310 and/or 6-1-311.	N	
Part 2	Recordkeeping Requirement (Basis: Regulation 1-441)	Y	

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 6 Rule 1	**Particulate Matter – General Requirements (08/01/18)**		
6-1-301	Ringelmann No. 1 Limitation	N	
6-1-305	Visible Particles	N	
6-1-310	Total Suspended Particulate (TSP) Concentration Limits	N	
SIP Regulation 6	**Particulate Matter and Visible Emissions (9/4/98)**		
6-301	Ringelmann No. 1 Limitation	Y	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
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 Rule 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	
12-11-501	Vent Gas Flow Monitoring	N	
12-11-502	Vent Gas Composition Monitoring	N	
12-11-502.1	Vent Gas Composition Monitoring Requirements	N	
12-11-503	Pilot Monitoring	N	
12-11-504	Pilot and Purge Gas Monitoring	N	
12-11-505	Recordkeeping Requirements	N	
12-11-506	General Monitoring Requirements	N	
12-11-506.1	Periods of Inoperation of Vent Gas Monitoring	N	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
12-11-507	Video Monitoring	N	
BAAQMD Regulation 12 Rule 12	**Flares at Petroleum Refineries (04/05/06)**		
12-12-301	Flare Minimization	N	
12-12-401	Flare Minimization Plan Requirements	N	
12-12-402	Submission of Flare Minimization Plans	N	
12-12-403	Review and Approval of Flare Minimization Plans	N	
12-12-404	Update of Flare Minimization Plans	N	
12-12-405	Notification of Flaring	N	
12-12-406	Determination and Reporting of Cause	N	
12-12-408	Designation of Confidential Information	N	
NSPS 40 CFR 60 Subpart A	**General Provisions (02/27/14)**		
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(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	
60.19	General notification and reporting requirements	Y	
NSPS 40 CFR 60 Subpart J	**Standards of Performance for Petroleum Refineries (12/01/15)**		
60.104	Standards for Sulfur Oxides: Compliance Schedule	Y	
60.104(a)(1)	Fuel gas H2S limit. The combustion in a flare of process upset gases or fuel gas released to the flare as a result of relief valve leakage or other emergency malfunctions is exempt from this limit	Y	
60.105	Monitoring of Emissions and Operations	Y	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.105(a)(4)	Monitoring requirement for H2S (dry basis) in fuel gas prior to combustion	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	
NESHAP 40 CFR 63 Subpart A	**MACT General Provisions (06/25/13)**		
63.6(i)	Request for extension	Y	
40 CFR 63 Subpart CC	**NESHAPS - National Emission Standards for Hazardous Air Pollutants from Petroleum Refineries (7/13/2016)**		
63.670	Applicability: Flares used as a control device for an emission point subject to this subpart	Y	1/30/19
63.671	Requirements for flare monitoring systems	Y	1/30/19
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.2.b.	Limit on the duration and mass emissions when flaring untreated flexigas during startups	Y	
Part E.2.c.	Limit on the duration and mass emissions when flaring untreated flexigas during shutdowns	Y	
Part F	Reporting [basis: Cumulative Increase]	Y	
Part G	Records [basis: Cumulative Increase]	Y	
BAAQMD Condition # 18618			

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

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

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

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 6 Rule 1	**Particulate Matter – General Requirements (08/01/18)**		
6-1-301	Ringelmann No. 1 Limitation	N	
6-1-305	Visible Particles	N	
6-1-310	Total Suspended Particulate (TSP) Concentration Limits	N	
SIP Regulation 6	**Particulate Matter and Visible Emissions (9/4/98)**		
6-301	Ringelmann No. 1 Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particulate Weight Limitation	Y	
BAAQMD Regulation 8, Rule 1	**Organic Compounds - General Provisions (6/15/94)**		
8-1-110	Exemptions	Y	
8-1-110.3	Reduction due to incineration	Y	
BAAQMD Regulation 12 Rule 11	**Flare Monitoring at Petroleum Refineries (06/04/03)**		
12-11-401	Flare Data Reporting Requirements	N	
12-11-402	Flow Verification Report	N	
12-11-501	Vent Gas Flow Monitoring	N	
12-11-502	Vent Gas Composition Monitoring	N	
12-11-502.3	Vent Gas Composition Monitoring	N	
12-11-503	Pilot Monitoring	N	
12-11-504	Pilot and Purge Gas Monitoring	N	
12-11-505	Recordkeeping Requirements	N	
12-11-506	General Monitoring Requirements	N	
12-11-506.1	Periods of Inoperation of Vent Gas Monitoring	N	
12-11-507	Video Monitoring	N	
BAAQMD Regulation 12 Rule 12	**Flares at Petroleum Refineries (04/05/06)**		

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
12-12-301	Flare Minimization	N	
12-12-401	Flare Minimization Plan Requirements	N	
12-12-402	Submission of Flare Minimization plans	N	
12-12-403	Review and Approval of Flare Minimization Plans	N	
12-12-404	Update of Flare Minimization Plans	N	
12-12-405	Notification of Flaring	N	
12-12-406	Determination and Reporting of Cause	N	
12-12-408	Designation of Confidential Information	N	
12-12-501	Water Seal Integrity Monitoring	N	
NSPS 40 CFR 60 Subpart A	**New Source Performance Standards – General Provisions (02/27/14)**		
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(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	
60.19	General notification and reporting requirements	Y	
NSPS 40 CFR 60 Subpart Ja	**Standards of Performance for Petroleum Refineries for Which Construction, Reconstruction, or Modification Commenced After May 14, 2007 (12/01/15)**		
60.100a	Applicability	Y	
60.100a(a)	Applicability: FCCUs, FCUs, delayed coking units, fuel gas combustion devices (including process heaters), flares, and sulfur recovery plants	Y	
60.100a(b)	Applicability: Flares with commenced construction, modification, or reconstruction after June 24, 2008	Y	
60.100a(c)	A modification to a flare is as defined by 60.100a(c)(1) or (2)	Y	
60.103a	Design, Equipment, Work Practice or Operational Standards	Y	
60.103a(f)	Compliance Dates for modified flares that were affected facilities subject to Subpart J prior to becoming affected facilities under 60.100a	Y	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.103a(g)	An affected flare in BAAQMD may elect to comply with BAAQMD Reg 12-11 and Reg 12-12 as an alternative to 60.103a(a) through (e)	Y	
60.103a(h)	Do not burn any flare fuel gas with an H_2S concentration in excess of 162 ppmv on a 3-hour rolling average basis. Combustion in a flare of process upset gas or fuel gas that is released as a result of relief valve leakage or other emergency malfunctions is exempt from this limit	Y	
60.107a	Monitoring of emissions and operations for flares	Y	
60.107a(a)(3)	Fuel gas streams exempt under 60.103a(h) and fuel gas streams that are inherently low in sulfur content are not required to comply with the monitoring requirements of 60.107(a)(2)	Y	
60.107a(a)(3)(i)	-- pilot gas for flares	Y	
40 CFR 63 Subpart CC	**NESHAPS - National Emission Standards for Hazardous Air Pollutants from Petroleum Refineries (7/13/2016)**		
63.670	Applicability: Flares used as a control device for an emission point subject to this subpart	Y	1/30/19
63.671	Requirements for flare monitoring systems	Y	1/30/19
BAAQMD Condition # 18618			
Part 12	Flare throughput limit (basis: Regulations 8-1-110.3; 2-1-403)	Y	
Part 13	Flaring recordkeeping requirements (basis: Regulations 8-1-110.3; 2-6-409.2; 2-6-501)	Y	
Part 14	Inspection of flaring requirements (basis: Regulation 2-6-409.2.)	Y	
Part 15	Inspection procedures (basis: Regulation 6-1-301; 2-1-403)	N	
Part 16	Visual inspection requirements (basis: Regulation 2-6-403)	Y	
Part 17	Recordkeeping requirements for flaring events (basis: Regulation 2-6-501; 2-6-409.2)	Y	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

Table IV – SS
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 (05/04/11)**		
1-520	Continuous Emission Monitoring	Y	
1-520.8	Monitors as required by Regulation 10, 12 and Section 2-1-403	Y	
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	Y	
1-522.1	Approval of Plans and Specifications	Y	
1-522.2	Installation Scheduling	Y	
1-522.3	CEM Performance Testing	Y	
1-522.4	Periods of Inoperation	Y	
1-522.5	Daily Monitor Calibration	Y	
1-522.6	CEM Maintenance	Y	
1-522.7	Excess Emissions Reported (Nature, Extent, and Cause)	N	
1-522.8	Monitoring Data Submittal	Y	
1-522.9	Records	Y	
1-522.10	Monitors Required By 1-521 or 2-1-403	Y	
1-523	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.1	Periods of Inoperation Reported	Y	
1-523.2	Periods of Inoperation Per Incident	Y	
1-523.3	Violations of Permit Conditions Reported (Nature, Extent, and Cause)	N	
1-523.4	Records	Y	
1-523.5	Maintenace and Calibration Required	N	
SIP Regulation 1	**PROVISIONS NO LONGER IN CURRENT RULE General Provisions and Definitions (6/28/99)**		
1-522.7	Excess Emissions Reported (Nature, Extent, Cause, and Corrective Action)	Y	
1-523.3	Violations of Permit Conditions Reported (Nature, Extent, Cause, and Corrective Action)	Y	
BAAQMD Regulation 2, Rule 9	**Interchangeable Emission Reduction Credits (6/15/05)**		
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 – SS
Source-specific Applicable Requirements
S1800 - UTIL F-88 BOILER 5

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
2-9-304	Restrictions on the Use of IERC's	N	
2-9-306	Environmental Benefit Surcharge	N	
2-9-501	Monitoring and Record Keeping	N	
2-9-502	Alternative Compliance Plan Record Keeping and Reporting	N	
BAAQMD Regulation 6 Rule 1	**Particulate Matter – General Requirements (08/01/18)**		
6-1-301	Ringelmann No. 1 Limitation	N	
6-1-304	Tube Cleaning	N	
6-1-305	Visible Particles	N	
6-1-310	Total Suspended Particulate (TSP) Concentration Limits	N	
6-1-310.3	0.15 grain per dscf at 6% O_2	N	
SIP Regulation 6	**Particulate Matter and Visible Emissions (9/4/98)**		
6-301	Ringelmann No. 1 Limitation	Y	
6-304	Tube Cleaning	Y	
6-305	Visible Particles	Y	
6-310	Particulate Weight Limitation	Y	
6-310.3	0.15 grain per dscf at 6% O_2	Y	
BAAQMD Regulation 9, Rule 10	**Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon Monoxide from Boilers, Steam Generators, and Process Heaters in Petroleum Refineries (10/16/13)**		
9-10-301	Emission Limit for Facility, NOx: 0.033 lb NOx/MMBTU	N	
9-10-301.4	Units in Start-up or Shutdown or Curtailed Operation	N	
9-10-301.5	Units Temporarily Out of Service	N	
9-10-303	Federal Interim Facility-wide NOx emission rate limit	N	
9-10-305	CO emission limit	N	
9-10-502	Monitoring	N	
9-10-502.1	CEMS for NOx, CO, and O2	N	
9-10-502.2	Fuel flowmeters	Y	
9-10-504	Recordkeeping	N	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

Table IV – SS
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
9-10-504.1	For All Sources Subject to 9-10-301, 303, 305, or 404.3	N	
9-10-505	Reporting	N	
9-10-505.1	Reporting Requirements – Report violation to BAAQMD	N	
9-10-505.2	Reporting Requirements – Quarterly Report	N	
SIP Regulation 9, Rule 10	**Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon Monoxide from Boilers, Steam Generators, and Process Heaters in Petroleum Refineries (04/02/08)**		
9-10-303	Interim Emission Limit for Facility (Federal Requirements)	Y	
9-10-502	Monitoring	Y	
NSPS 40 CFR 60 Subpart A	**Standards of Performance for New Stationary Sources (02/27/14)**		
60.7	Notification and record keeping	Y	
60.8	Performance tests		
60.11	Compliance with standards and maintenance requirements	Y	
60.11(a)	Performance test	Y	
60.11(d)	Good air pollution control practice for minimizing emissions	Y	
60.11(f)	Special provisions	Y	
60.11(g)	Any credible evidence or information	Y	
60.12	Circumvention	Y	
60.13	Monitoring requirements	Y	
60.19	General notification and reporting requirements	Y	
NSPS 40 CFR 60 Subpart J	**Standards of Performance for Petroleum Refineries (12/01/15)**		
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 – SS
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
60.106	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	
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	
Part 2	O2 monitor and recorder requirement (basis: Regulation 9-10-502)	N	
Part 8	For sources with NOx CEMS, semi-annual source test for CO at as-found conditions (basis: Regulation 9-10-502, 1-522)	N	
Part 10	Source test records (basis: recordkeeping; Regulation 9-10-504)	N	
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	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

Table IV – SS
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 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 20	Maintain fuel flow meter [basis: Regulation 9-10-503]	N	

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 6 Rule 1	**Particulate Matter – General Requirements (08/01/18)**		
6-1-301	Ringelmann No. 1 Limitation	N	
6-1-305	Visible Particles	N	
6-1-311	Total Suspended Particulate (TSP) Weight Limits	N	
6-1-401	Appearance of Emissions	N	
SIP Regulation 6	**Particulate Matter and Visible Emissions (9/4/98)**		
6-301	Ringelmann No. 1 Limitation	Y	
6-305	Visible Particles	Y	
6-311	General Operations (process weight rate limitation)	Y	
6-401	Appearance of Emissions	Y	
BAAQMD Condition # 4041			
Part 1	Material limitation [basis: Cumulative Increase]	Y	
Part 2	Vehicle tire and wheels washing [basis: Cumulative Increase, Public Nuisances]	Y	
Part 3	Visible particulate emission limit [basis: Cumulative Increase]	Y	
Part 4	Water spray requirement [basis: Cumulative Increase]	Y	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

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

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

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 6 Rule 1	**Particulate Matter – General Requirements (08/01/18)**		
6-1-301	Ringelmann No. 1 Limitation	N	
6-1-310	Total Suspended Particulate (TSP) Concentration Limits	N	
SIP Regulation 6	**Particulate Matter and Visible Emissions (9/4/98)**		
6-301	Ringelmann No. 1 Limitation	Y	
6-310	Particulate Weight Limitation	Y	
BAAQMD Regulation 8, Rule 1	**Organic Compounds – General Provisions (06/15/94)**		
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	Y	
8-4-312	Solvent Evaporation Loss Minimization	Y	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

Table IV – UU
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
8-4-312.1	Storage and Disposal of Solvent Impregnated Cloth or Paper	Y	
8-4-312.2	No Organic Compounds for Cleanup of Spray Equipment Unless Controls are Used	Y	
8-4-312.3	Closed Containers for Spent or Fresh Organic Solvents	Y	
8-4-313	Surface Preparation Standards	Y	
8-4-501	Recordkeeping	Y	
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	Y	
8-4-501.5	Records Retention	Y	
BAAQMD Regulation 8, Rule 19	**Organic Compounds – Surface Coating of Miscellaneous Metal Parts and Products (10/16/2002)**		
8-19-134	Limited Exemption, Coating Records	Y	
8-19-302	Limits	Y	
8-19-307	Prohibition of Specification	Y	
8-19-312	Specialty Coating Limitations	Y	
8-19-313	Spray Application Equipment Limitations	Y	
8-19-320	Solvent Evaporative Loss Minimization	Y	
8-19-321	Surface Preparation Solvent < 0.42 lb/gal	Y	
8-19-501	Records	Y	
BAAQMD Regulation 8, Rule 31	**Organic Compounds – Surface Coating of Plastic Parts and Products (10/16/2002)**		
8-31-123	Exemption, Small User	Y	
8-31-124	Limited Exemption, Coating Records	Y	
8-31-302	Limits	Y	
8-31-306	Flexible Coatings	Y	
8-31-307	Prohibition of Specification	Y	
8-31-309	Specialty Coating Limitations	Y	
8-31-310	Spray Application Equipment Limitations	Y	
8-31-320	Solvent Evaporative Loss Minimization	Y	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

Table IV – UU
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
8-31-321	Surface Preparation Solvent < 0.42 lb/gal	Y	
8-31-501	Records	Y	
BAAQMD Regulation 8, Rule 32	**Organic Compounds – Wood Products Coatings (08/05/09)**		
8-32-111	Exemption, Non-commercial and Small Coating Operations	N	
SIP Regulation 8, Rule 32	**Organic Compounds – Wood Products Coatings (12/23/97)**		
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	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

Table IV – UU
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 Condition # 4303			
Part 1	Annual cleanup solvent usage limit [basis: Cumulative Increase]	Y	
Part 2	Annual coating usage limit. [basis: Cumulative Increase]	Y	
Part 3	Recordkeeping [basis: Cumulative Increase]	Y	
Part 4	Operational requirements [basis: Cumulative Increase, Regulation 6-1-301]	N	

Table IV – VV
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	Y	
8-16-303.1	General Operating Requirements	Y	
8-16-303.1.1	Maintain equipment in good working order.	Y	
8-16-303.1.2	Leak Repair Requirement	Y	
8-16-303.1.3	Solvent Storage or Disposal – Evaporation Prevention	Y	
8-16-303.1.4	Waste Solvent Disposal	Y	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

Table IV – VV
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
8-16-303.1.4(a)	Covered Containers for Waste Solvent Awaiting Pick-up	Y	
8-16-303.1.4(b)	On-site Waste Treatment	Y	
8-16-303.1.5	Solvent Evaporation Minimization Devices shall not be Removed	Y	
8-16-303.1.6	Solvent Spray Requirements	Y	
8-16-303.2	Cold Cleaner 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	Y	
8-16-303.3.1	Container	Y	
8-16-303.3.2	Solvent Evaporation Reduction for Idle Equipment	Y	
8-16-303.3.3	Used Solvent Returned to Container	Y	
8-16-303.3.4	Label Stating Operating Requirements	Y	
8-16-303.4	Control Device (one of the following)	Y	
8-16-303.4.1	Freeboard Ratio $\geq$ 0.75	Y	
8-16-303.5	VOC content < 0.42 pounds per gallon or comply with 8-16-303.4.1 and other options	Y	
8-16-501	Solvent Records	Y	
8-16-501.2	Facility-wide Monthly Solvent Usage Records	Y	
8-16-501.3	Monthly Records of Type and Amount of Solvent Used for Wipe Cleaning	Y	
8-16-501.5	Records Retained	Y	
BAAQMD Condition # 18618	Applies to S1900 and S1903		
Part 1	Throughput limit (basis: Regulation 2-1-234.3, 2-1-307)	N	
Part 2	Recordkeeping (basis: Regulation 2-1-234.3, 2-1-307)	N	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

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

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

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 1	**General Provisions and Definitions (05/04/11)**		
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 (12/07/05)**		
8-44-110	Exemption, Small Loading Events	Y	
8-44-111	Exemption, Marine Vessel Fueling	Y	
8-44-115	Exemption, Safety/Emergency Operations	N	
8-44-116	Limited Exemption, Equipment Leaks	N	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-44-301	Marine Terminal Loading and Lightering Limits. Do not conduct either of the following loading operations unless emissions are controlled per 8-44-304:	N	
8-44-301.1	Loading a regulated liquid into a cargo tank of a marine tank vessel; or	N	
8-44-301.2	Loading any liquid into a cargo tank of a marine tank vessel when the tank's prior cargo was a regulated liquid	N	
8-44-303	Limitations on Marine Tank Vessel Venting:	N	
8-44-303.1	Emissions are controlled per 8-44-304; or	N	
8-44-303.2	Venting occurs through: 1) automatic operation of a PRV or other pressure relieving device, set at the highest setpoint approved by the USCG, or 2) manual venting to avoid automatic release through such a PRV or device with such a setpoint when tank pressure has reached 90% of such setpoint and an automatic release is imminent	N	
8-44-304	Emission Control Requirements: Emissions from an operation conducted pursuant to 8-44-301, 302, or 303 shall:	N	
8-44-304.1	Limit emissions of organic compounds to 5.7 grams per cubic meter (2 lbs/1000 lbs) of organic liquid loaded, or reduce emissions by at least 95% by weight from uncontrolled conditions	N	
8-44-304.2	Use emission control equipment that is designed and operated to collect and process all organic compound emissions from the loading, ballasting, or venting operation	N	
8-44-305	Equipment Leaks	N	
8-44-305.2	Maintain all hatches, pressure relief valves, connections, gauging ports and vents, and other equipment such that gaseous and liquid leak limits are not exceeded	N	
8-44-305.3	Inspect tank vessel equipment for leaks prior to loading more than 20% of the cargo	N	
8-44-403	Notifications Regarding Safety/Emergency Exemption	N	
8-44-501	Record keeping – Marine Terminals	N	
8-44-501.1	Loading Events	N	
8-44-501.2	Ballasting Operations Conducted at a Marine Terminal	N	
8-44-501.3	Venting Operations Conducted at a Marine Terminal	N	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-44-503	Record Keeping – Exemptions	N	
8-44-503.1	- For Section 8-44-110	N	
8-44-503.2	- For Section 8-44-111	N	
8-44-503.3	- For Section 8-44-115	N	
8-44-504	Burden of Proof	N	
SIP · Regulation 8 Rule 44 ·	**Organic Compounds, California Marine Vessel loading of organic compounds. (08/30/1993)**		
8-44-112	Exemption, Lightering	Y	
8-44-301	Marine Terminal Loading Limit	Y	
8-44-301.1	Limited to 5.7 Grams per Cubic Meter (2 lb per 1000 bbls) of Organic Liquid Loaded, or	Y	
8-44-301.2	POC Emissions Reduced 95% by Weight From Uncontrolled Conditions	Y	
8-44-302	Emission Control Equipment	Y	
8-44-303	Operating Practice	Y	
8-44-304	Equipment Maintenance	Y	
8-44-304.1	Certified leak free, gas tight and in good working order, and	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	Recordkeeping	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	
NSPS 40 CFR 60 Subpart A	**General Provisions (02/27/14)**		
60.13(i)	Alternatives to any monitoring procedures or requirements	Y	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
NSPS 40 CFR 60 Subpart J	**Standards of Performance for Petroleum Refineries (12/01/15)**		
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	
NESHAP 40 CFR 63 Subpart A	**MACT General Provisions (06/25/13)**		
63.1	Applicability	Y	
63.2	Definitions	Y	
63.3	Units and Abbreviations	Y	
63.10(a)	Recordkeeping and Reporting Requirements: Applicability and general information	Y	
NESHAP 40 CFR 63 Subpart Y	**National Emission Standards for Marine Tank Vessel Loading Operations (04/21/11)**		
63.560(a)	Maximum Achievable Control Technology (MACT) Applicability. The standards in 63.562(b) and (d) are applicable to new and existing sources with emissions of 10 or 25 tons and new sources with emissions < 10 or 25 tons except as specified in (d)	Y	
63.560(a)(2)	MACT emissions standards in 63.562(b) do not apply to existing sources with emissions < 10 or 25 tons	Y	
63.560(a)(3)	Record keeping in 63.567(j)(4) and emission estimation in 63.565(l) apply to existing sources < 10 and 25 tons	Y	
63.560(a)(4)	Existing sources with emissions < 10 and 25 tons must meet the submerged fill standards of 46 CFR 153.282	Y	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.560(b)	RACT Applicability and Designation of Affected Source. The standards in 63.562(c) and (d) apply to sources with throughput of 10 M barrels or 200 M barrels, except as specified in (d)	Y	
63.560(b)(2)	RACT Standards do not Apply to Marine Loading Operations with Throughput Less Than 10 M and 200 M Barrels	Y	
63.560(d)	Exemptions from MACT and RACT Standards	Y	
63.560(d)(3)	MACT standards apply to this source only as specified by 40 CFR 63 Subpart CC	Y	
63.560(e)	MACT Standards Compliance Dates	Y	
63.560(e)(1)(iv)	Existing sources with < 10 and 25 tons shall comply with the submerged fill requirements by April 23, 2012	Y	
63.565(l)	Emission estimation procedures	Y	
63.567(a)	Comply with all reporting and recordkeeping requirements in 63.9 and 63.10 of Subpart A in accordance with Table 1 of 63.650 and this section	Y	
63.567(j)(4)	Retain records of emission estimates per 63.565(l), and actual throughputs, by commodity, for 5 years	Y	
NESHAP 40 CFR 63 Subpart CC	**NESHAP for Petroleum Refineries (07/13/2016)**		
63.640(a)	Applicability and Designation of Affected Sources	Y	
63.640(c)(6)	Applicability and Designation of Affected Sources: All marine vessel loading operations located at a petroleum refinery meeting the criteria in paragraph (a) of this section and the applicability criteria of subpart Y, §63.560	Y	
63.640(h)(1)	Marine tank vessels at existing sources shall be in compliance by August 18, 1999	Y	
63.651	Marine Vessel Tank Loading Operations Provisions	Y	
63.651(a)	Marine Vessel Tank Loading Operations Provisions; comply with 63 Subpart Y [63.560 through 63.568] except as provided in (b)(through (d)	Y	
63.651(b)	Marine Vessel Tank Loading Operations Provisions; definitions	Y	
63.651(c)	Marine Vessel Tank Loading Operations Provisions; exceptions from 63 Subpart Y – initial notification report not required	Y	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.651(d)	Marine Vessel Tank Loading Operations Provisions; exceptions from 63 Subpart Y – compliance time	Y	
BAAQMD Condition # 4288			
Part 3a	Install pressure and temperature monitors and recorders [basis: Regulation 8-44-301]	Y	
Part 3b	CAP adjustment [basis: BARCT-Adjustment]	Y	
Part 3c	Tracking wharf emissions [basis: Regulation 8-44-301]	Y	
Part 5	Operation of Marine Vapor Recovery System [basis: Regulation 8-44-301]	Y	
Part 6	Minimum temperature requirement [basis: Regulation 8-44-301]	Y	
Part 7	Temperature monitor [basis: Regulation 2-6-409.2]	Y	
Part 9	Leak test requirement [basis: Regulation 8-44-304]	Y	
Part 10	Loading pressure requirement [basis: Regulation 8-44-303]	Y	
Part 11	Maintenance records [basis: Regulation 8-44-501]	Y	
Part 12	Alternative Monitoring for H2S (basis: Alternate Monitoring Plan)	Y	
Part 13	Recordkeeping Requirements for Alternative H2S Monitoring (basis: Alternate Monitoring Plan)	Y	
Part 14	Reporting Requirements for Alternative H2S Monitoring (basis: Alternate Monitoring Plan)	Y	
BAAQMD Condition # 7618			
Part A	Emissions limitations [basis: Regulation 2-2-302]	Y	
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 – YY
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 Collection and Separation Systems (09/15/04)**		
8-8-303	Gauging and Sampling Devices	Y	
8-8-307	Air Flotation Unit: any air flotation unit and/or pre-air flotation unit flocculation sump, basin, chamber or tank with a maximum allowable capacity greater than 400 gals/min unless is equipped with one of the following:	Y	
8-8-307.1	A solid, gasketed, fixed cover totally enclosing the vessel liquid contents, with all cover openings closed, except for inspection, maintenance, or wastewater sampling. The cover may include an atmospheric vent or a pressure/vacuum valve. Also includes gap inspection frequency and limits.	Y	
8-8-501	API Separator or Air Flotation Bypassed Wastewater Records	N	
8-8-503	Inspection and Repair Records	Y	
SIP Regulation 8, Rule 8	**Wastewater (Oil-Water) Separator (08/29/94)**		
8-8-501	API Separator or Air Flotation Bypassed Wastewater Records	Y	
NESHAP 40 CFR 61 Subpart FF; BAAQMD Regulation 11 Rule 12	**National Emission Standard for Benzene Waste Operations (12/04/03); BAAQMD National Emission Standard for Benzene Emissions, From Benzene Transfer Operations, and Benzene Waste Operations (01/25/94)**		
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	Y	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

Table IV – YY
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
	owner/operator may elect to comply with paragraph (b)(2) as an alternative to the requirements of (a)(1).		
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(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	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

Table IV – YY
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
NESHAP 40 CFR 63 Subpart CC	**National Emissions Standards for Hazardous Air Pollutants from Petroleum Refineries (7/13/16)**		
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	
63.655	Reporting and recordkeeping requirements	Y	
63.655(a)	Owner/operators subject to the wastewater provisions of 63.647 shall comply with the recordkeeping and reporting requirements in 61.356 and 61.357 of 40 CFR part 61, subpart FF, unless they comply with those specified in paragraph (o)(2)(ii) of 63.640. Recordkeeping and reporting for wastewater streams included in emission averages are specified in 63.653 and in paragraphs (f)(5) and (g)(8) of this section.	Y	
63.655(i)	Recordkeeping	Y	
63.655(i)(6)	All information required to be reported under 63.655(a) through (h) shall be retained for 5 years.	Y	
BAAQMD 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 – ZZ
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 Collection and Separation Systems (09/15/04)**		
8-8-303	Gauging and Sampling Devices	Y	
8-8-307	Air Flotation Unit: Any air flotation unit and/or pre-air flotation unit flocculation sump, basin, chamber or tank with a maximum allowable capacity greater than 400 gals/min, unless 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/vaccum valve. Also includes gaps inspection frequency or limits.	Y	
8-8-501	API Separator or Air Flotation Bypassed Wastewater Records	N	
8-8-503	Inspection and Repair Records	Y	
SIP Regulation 8, Rule 8	**Wastewater (Oil-Water) Separator (08/29/94)**		
8-8-501	API Separator or Air Flotation Bypassed Wastewater Records	Y	
BAAQMD Condition # 5077			
Part 1	Design Rated Capacity Limit [basis: Cumulative Increase]	Y	

Table IV – AAA
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,	**Wastewater Collection and Separation Systems (09/15/04)**		

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

Table IV – AAA
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
Rule 8			
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	
For S2010			
8-8-312	Controlled Wastewater Collection System Components at Petroleum Refineries	N	
8-8-505	Records for Wasterwater Collection System Components at Petroleum Refineries	N	
8-8-603	Inspection Procedures	N	

TABLE IV – BBB
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
BAAQMD Condition # 6110			
Part 1	Annual throughput limit [basis: Cumulative Increase]	Y	
Part 2	Material storage limitation [basis: Cumulative Increase; Toxics]	Y	
Part 3	Recordkeeping [basis: Cumulative Increase]	Y	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 6 Rule 1	**Particulate Matter – General Requirements (08/01/18)**		
6-1-301	Ringelmann No. 1 Limitation	N	
6-1-310	Total Suspended Particulate (TSP) Concentration Limits	N	
6-1-310.3	0.15 grain per dscf at 6% O_2	N	
SIP Regulation 6	**Particulate Matter and Visible Emissions (9/4/98)**		
6-301	Ringelmann No. 1 Limitation	Y	
6-310	Particulate Weight Limitation	Y	
6-310.3	0.15 grain per dscf at 6% O_2	Y	
BAAQMD Condition # 11806			
Part 1	Operation limitation [basis: Cumulative Increase]	Y	
Part 2	Hard-pipe connections [basis: Cumulative Increase]	Y	
Part 3	Non-condensable gases from condenser vent combusted in heater burner [basis: Cumulative Increase]]	Y	
Part 4	Only lean amine solution distilled [basis: Cumulative Increase]	Y	
Part 5	Neutralize acid gases and react residual H2S [basis: Cumulative Increase]	Y	
Part 6	Natural gas fired only [basis: Cumulative Increase]	Y	
Part 7	Recordkeeping [basis: Cumulative Increase]	Y	
BAAQMD Condition # 18618			
Part 1	Throughput limit (basis: Regulation 2-1-234.3, 2-1-307)	N	
Part 2	Recordkeeping (basis: Regulation 2-1-234.3, 2-1-307)	N	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 6 Rule 1	**Particulate Matter – General Requirements (08/01/18)**		
6-1-301	Ringelmann No. 1 Limitation	N	
6-1-305	Visible Particles	N	
6-1-310	Particulate Weight Limitation	N	
6-1-311	Total Suspended Particulate (TSP) Weight Limits	N	
6-1-401	Appearance of Emissions	N	
SIP Regulation 6	**Particulate Matter and Visible Emissions (9/4/98)**		
6-301	Ringelmann No. 1 Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particulate Weight Limitation	Y	
6-311	General Operations (process weight rate limitation)	Y	
6-401	Appearance of Emissions	Y	
BAAQMD Condition # 12271			
Part A	Monthly and annual emission limits [basis: Offsets, Cumulative Increase]	Y	
Part B	Applicable sources [basis: Offsets, Cumulative Increase]	Y	
Part C	In the case of a process upset or other irregularity [basis: Offsets, Cumulative Increase]	N	
Part L	Recordkeeping [basis: BACT, Offsets, Cumulative Increase]	Y	
Part M	Monthly reports [basis: Offsets, Cumulative Increase]	Y	
Part O	Offsets requirements [basis: Offsets]	Y	
Part 75	Visible emissions limit [basis: BACT]	Y	
Part 76	Washing of Pad areas [basis: BACT]	Y	
Part 77	Water spray requirement [basis: BACT]	Y	
Part 78	Enclosed conveying system [basis: BACT]	Y	
Part 79	Water spray and abatement requirements of Coke Barn [basis: BACT]	Y	
Part 80	Enclosing and washing of Coke Barn [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	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 82b	Water Wash System [basis: BACT]	Y	
Part 82c	Street sweeper [basis: BACT]	Y	
Part 82d	Unpaved area limitation [basis: BACT]	Y	
Part 83	Loadout limit [basis: Offsets, Cumulative Increase]	Y	
Part 84	Collect water and handpipe to tanks [basis: BACT]	Y	

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 1	**General Provisions and Definitions (05/04/11)**		
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 (6/15/05)**		
2-9-302	Use of IERC's	N	
2-9-303	Alternative Compliance Plan Using IERC's	N	
2-9-304	Restrictions on the Use of IERC's	N	
2-9-306	Environmental Benefit Surcharge	N	
2-9-501	Monitoring and Record Keeping	N	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
2-9-502	Alternative Compliance Plan Record Keeping and Reporting	N	
BAAQMD Regulation 6 Rule 1	**Particulate Matter – General Requirements (08/01/18)**		
6-1-301	Ringelmann No. 1 Limitation	N	
6-1-304	Tube Cleaning	N	
6-1-305	Visible Particles	N	
6-1-310	Total Suspended Particulate (TSP) Concentration Limits	N	
6-1-310.3	0.15 grain per dscf at 6% O_2	N	
SIP Regulation 6	**Particulate Matter and Visible Emissions (9/4/98)**		
6-301	Ringelmann No. 1 Limitation	Y	
6-304	Tube Cleaning	Y	
6-305	Visible Particles	Y	
6-310	Particulate Weight Limitation	Y	
6-310.3	0.15 grain per dscf at 6% O_2	Y	
BAAQMD Regulation 9, Rule 10	**Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon Monoxide from Boilers, Steam Generators, and Process Heaters in Petroleum Refineries (10/16/13)**		
9-10-301	Emission Limit for Facility, NOx: 0.033 lb NOx/MMBTU	N	
9-10-301.4	Units in Start-up or Shutdown or Curtailed Operation	N	
9-10-301.5	Units Temporarily Out of Service	N	
9-10-303	Federal Interim Facility-wide NOx emission rate limit	N	
9-10-305	CO emission limit	N	
9-10-502	Monitoring	N	
9-10-502.1	CEMS for NOx, CO, and O2	N	
9-10-502.2	Fuel flowmeters	Y	
9-10-504	Recordkeeping	N	
9-10-504.1	For All Sources Subject to 9-10-301, 303, 305, or 404.3	N	
9-10-505	Reporting	N	
9-10-505.1	Reporting Requirements – Report violation to BAAQMD	N	
9-10-505.2	Reporting Requirements – Quarterly Report	N	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
SIP Regulation 9, Rule 10	**Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon Monoxide from Boilers, Steam Generators, and Process Heaters in Petroleum Refineries (04/02/08)**		
9-10-303	Interim Emission Limit for Facility (Federal Requirements)	Y	
9-10-502	Monitoring	Y	
NSPS 40 CFR 60 Subpart A	**Standards of Performance for New Stationary Sources (02/27/14)**	Y	
60.7	Notification and record keeping	Y	
60.8	Performance tests	Y	
60.11	Compliance with standards and maintenance requirements	Y	
60.11(a)	Performance test	Y	
60.11(d)	Good air pollution control practice for minimizing emissions	Y	
60.11(f)	Special provisions	Y	
60.11(g)	Any credible evidence or information	Y	
60.12	Circumvention	Y	
60.13	Monitoring requirements	Y	
60.13(i)	Alternatives to any monitoring procedures or requirements	Y	
60.19	General notification and reporting requirements	Y	
NSPS 40 CFR 60 Subpart J	**Standards of Performance for Petroleum Refineries (12/01/15)**		
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 - EEE
Source-specific Applicable Requirements
S4021 – DC F-13909 DHT RECYCLE

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
NESHAP 40 CFR 63 Subpart A	**General Provisions (06/25/13)**		
63.1	Applicability	Y	
63.2	Definitions, with additional terms defined in 6.37575	Y	
63.3	Units and abbreviations	Y	
63.4	Prohibited Activities and Circumvention	Y	
63.6(a)(1)	Applicability for affected sources	Y	
63.6(c)	Compliance dates for existing sources	Y	
63.6(j)	Presidential exemption	Y	
63.9(b)(2)	Notification Requirements: Submit initial notification no later than 120 calendar days after the effective date	Y	
63.9(h)(2)	Notification Requirements: After a Title V permit has been issued, submit the Notification of Compliance Status to the permitting authority	Y	
63.10(a)(2)(ii)	Recordkeeping and Reporting Requirements: Submit reports to the permitting authority with a copy of the report to the Regional Office of the EPA, unless waived by the EPA	Y	
63.10(a)(5)	Recordkeeping and Reporting Requirements: Periodic Report submittal dates	Y	
63.10(b)(1)	Recordkeeping and Reporting Requirements: General recordkeeping requirements	Y	
63.10(d)(1)	Recordkeeping and Reporting Requirements: General reporting requirements	Y	
63.10(f)	Recordkeeping and Reporting Requirements: Waivers	Y	
40 CFR Part 63 Subpart DDDDD	**NESHAP Subpart DDDDD Industrial, Commercial, and Institutional Boilers and Process Heaters (11/20/15)**		
63.7485	Applicable to boilers and heaters located at a major source of HAP emissions	Y	
63.7490(a)	Applicable to any new, reconstructed, or existing industrial boiler or process heater	Y	
63.7490(a)(1)	The affected source is the collection of all existing sources at a major source;	Y	
63.7490(d)	A boiler or process heater is existing if it is not new or reconstructed.	Y	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.7495(b)	Comply with the work practice standards for existing boilers and process heaters by January 31, 2016	Y	
63.7495(d)	Meet the notification requirements according to 63.7545 and 40 CFR Part 63, Subpart A	Y	
63.7499	Subcategories of boiler and process heaters	Y	
63.7499(l)	Units designed to burn gas 1 fuels	Y	
63.7500	Emission limitations, work practice standards, and operating limits	Y	
63.7500(a)	Meet the requirements in paragraphs (a)(1) and (3) except as provided in (e)	Y	
63.7500(a)(1)	Meet the work practice standards in Table 3: tune-ups and one-time energy assessment	Y	
63.7500(a)(3)	At all times operate and maintain any affected source including associated air pollution control equipment and monitoring equipment in a manner consistent with safety and good air pollution control practices for minimizing emissions	Y	
63.7500(e)	Boilers and process heaters designed to burn gas 1 fuels subcategory are not subject to the emission limits in Tables 1 and 2 or 11 through 13, or the operating limits in Table 4	Y	
63.7505	General requirements for compliance	Y	
63.7505(a)	Comply with the applicable emission limits, work practice standards, and operating limits at all times of operation	Y	
63.7510	Initial Compliance Requirements	Y	
63.7510(e)	Complete the initial tune-up following 63.7540(a)(10)(i) through (vi) no later than January 31, 2016. Complete the one-time energy assessment specified in Table 3 no later than January 31, 2016	Y	
63.7515	Tune-up Requirements	Y	
63.7515(d)	Conduct tune ups in accordance with 63.7540(a)	Y	
63.7530	Initial Compliance Demonstration with work practice standards	Y	
63.7530(e)	Submit a signed statement in the Notification of Compliance Status report that the energy assessment was completed according to Table 3 and is an accurate depiction of the facility at the time of the assessment	Y	
63.7540	Demonstrate Continuous Compliance with the Work Practice Standards	Y	
63.7540(a)	Demonstrate continuous compliance with the work practice standards in Table 3	Y	
63.7540(a)(10)	Conduct tune-up as specified in (a)(10)(i) through (vi)	Y	
63.7540(a)(13)	If the unit is not operating on the required date for a tune-up, the tune-up must be conducted within 30 calendar days of startup	Y	
63.7545	Notification Requirements	Y	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.7545(a)	Submit all notifications in 63.7(b) and (c), 63.8(e), (f)(4) and (6), and 63.9(b) through (h) that apply by the specified dates	Y	
63.7545(e)	Submit a Notification of Compliance Status according to 63.9(h)(2)(ii) before the close of business of the 60th day following the completion of the initial tune-up. The NOCS report must contain all the information in (e)(1) and (8)	Y	
63.7545(e)(1)	A description of the affected units, including identification of the fuel subcategory, the design heat input capacity, and the fuel burned	Y	
63.7545(e)(8)	In addition to the information in 63.9(h)(2), the NOCS must include the following certifications of compliance and signed by a responsible official:	Y	
63.7545(e)(8)(i)	"This facility complies with the required initial tune-up according to the procedures in 63.7540(a)(10)(i) through (vi)."	Y	
63.7545(e)(8)(ii)	"This facility has had an energy assessment performed according to 63.7530(e)."	Y	
63.7550	Reports	Y	
63.7550(a)	Submit each report in Table 9 that applies	Y	
63.7550(b)	Submit an annual, biennial, or 5-year compliance report instead of the compliance report specified in Table 9 according to paragraphs (b)(1) through (4).	Y	
63.7550(c)	Each compliance report must contain the information in (c)(1) through (5) depending upon how the facility chooses to comply	Y	
63.7550(c)(1)	Submit a compliance report with the information in paragraphs (c)(5)(i) through (iii), (xiv), and (xvii) of this section	Y	
63.7550(c)(5)	Information required in compliance reports	Y	
63.7550(c)(5)(i)	Company and Facility name and address	Y	
63.7550(c)(5)(ii)	Process Unit information	Y	
63.7550(c)(5)(iii)	Date of report and beginning and ending dates of the reporting period	Y	
63.7550(c)(5)(xiv)	The date of the most recent tune-up for each unit subject to only the requirement to conduct an annual, biennial, or 5-year tune-up. Include the date of the most recent burner inspection if it was not done annually, biennially, or on a 5-year period and was delayed until the next scheduled or unscheduled unit shutdown	Y	
63.7550(c)(5)(xvii)	Statement by a responsible official with that official's name, title, and signature, certifying the truth, accuracy, and completeness of the report	Y	
63.7550(h)	Submit the reports according to the electronic reporting procedures for	Y	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	use of EPA's WebFIRE, CEDRI, and CDX interface as specified in (h)(1) through (3)		
63.7550(h)(3)	Electronic submission of reports	Y	
63.7555	Recordkeeping	Y	
63.7555(a)	Required records	Y	
63.7555(a)(1)	A copy of each notification and report submitted to comply with this subpart, including all documentation supporting any Initial Notification or Notification of Compliance Status or compliance report that you submitted according to the requirements of 63.10(b)(2)(xiv)	Y	
63.7560	Record Retention Requirements	Y	
63.7565	Applicability of General Provisions (Table 10)	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 - EEE
Source-specific Applicable Requirements
S4021 – DC F-13909 DHT RECYCLE

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 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	
Part 2	O2 monitor and recorder requirement (basis: Regulation 9-10-502)	N	
Part 3	Operating conditions requirements for those sources without CEM (basis: Regulation 9-10-502)	N	
Part 4	NOx box establishment requirements (basis: Regulation 9-10-502)	N	
Part 5	NOx box ranges (basis: Regulation 9-10-502)	N	
Part 6	NOx Box Deviations (basis: Regulation 9-10-502)	N	
Part 7	Source test requirements (basis: Regulation 9-10-502)	N	
Part 9	CO results requires CEM (basis: Regulation 9-10-502, 1-522)	N	
Part 10	Source test records (basis: recordkeeping; Regulation 9-10-504)	N	
Part 12	Equivalent verification system [basis: Regulation 9-10-502]	N	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 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 20	Maintain fuel flow meter [basis: Regulation 9-10-503]	N	
BAAQMD Condition # 25134			
Part 26	CO2e emission limit for S1495, S1495 and S4021 combined [basis: CEQA]	Y	
Part 27	Calculation of CO2e emissions basis [basis: CEQA, Regulation 2-6-503]	Y	
Part 28	Calculation of CO2e emissions reductions basis [basis: CEQA, Regulation 2-6-503]	Y	
Part 29	Recordkeeping for Parts 24-28 [basis: CEQA, Recordkeeping]	Y	
Part 30	Reporting: Annual report to the District's Engineering Division [basis: CEQA, Recordkeeping]	Y	
Part 31	Reporting: Any non-compliance with emission limits [basis: CEQA, Recordkeeping]	Y	

Table IV – FFF
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 (05/04/11)**		
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 – FFF
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
1-522.4	Periods of Inoperation	Y	
1-522.5	Daily Monitor Calibration	Y	
1-522.6	CEM Maintenance	Y	
1-522.7	Excess Emissions Reported (Nature, Extent, and Cause)	N	
1-522.8	Monitoring Data Submittal	Y	
1-522.9	Records	Y	
1-522.10	Monitors Required By 1-521 or 2-1-403	Y	
1-523	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.1	Periods of Inoperation Reported	Y	
1-523.2	Periods of Inoperation Per Incident	Y	
1-523.3	Violations of Permit Conditions Reported (Nature, Extent, and Cause)	N	
1-523.4	Records	Y	
1-523.5	Maintenace and Calibration Required	N	
SIP Regulation 1	**PROVISIONS NO LONGER IN CURRENT RULE** **General Provisions and Definitions (6/28/99)**		
1-522.7	Excess Emissions Reported (Nature, Extent, Cause, and Corrective Action)	Y	
1-523.3	Violations of Permit Conditions Reported (Nature, Extent, Cause, and Corrective Action)	Y	
BAAQMD Regulation 2, Rule 9	**Interchangeable Emission Reduction Credits (6/15/05)**		
2-9-302	Use of IERC's	N	
2-9-303	Alternative Compliance Plan Using IERC's	N	
2-9-304	Restrictions on the Use of IERC's	N	
2-9-306	Environmental Benefit Surcharge	N	
2-9-501	Monitoring and Record Keeping	N	
2-9-502	Alternative Compliance Plan Record Keeping and Reporting	N	
BAAQMD Regulation 6 Rule 1	**Particulate Matter – General Requirements (08/01/18)**		
6-1-301	Ringelmann No. 1 Limitation	N	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

Table IV – FFF
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
6-1-304	Tube Cleaning	N	
6-1-305	Visible Particles	N	
6-1-310	Total Suspended Particulate (TSP) Concentration Limits	N	
6-1-310.3	0.15 grain per dscf at 6% O_2	N	
SIP Regulation 6	**Particulate Matter and Visible Emissions (9/4/98)**		
6-301	Ringelmann No. 1 Limitation	Y	
6-304	Tube Cleaning	Y	
6-305	Visible Particles	Y	
6-310	Particulate Weight Limitation	Y	
6-310.3	0.15 grain per dscf at 6% O_2	Y	
BAAQMD Regulation 9, Rule 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 (10/16/13)**		
9-10-301	Emission Limit for Facility, NOx: 0.033 lb NOx/MMBTU	N	
9-10-301.4	Units in Start-up or Shutdown or Curtailed Operation	N	
9-10-301.5	Units Temporarily Out of Service	N	
9-10-303	Federal Interim Facility-wide NOx emission rate limit	N	
9-10-305	CO emission limit	N	
9-10-502	Monitoring	N	
9-10-502.1	CEMS for NOx, CO, and O2	N	
9-10-502.2	Fuel flowmeters	Y	
9-10-504	Recordkeeping	N	
9-10-504.1	For All Sources Subject to 9-10-301, 303, 305, or 404.3	N	
9-10-505	Reporting	N	
9-10-505.1	Reporting Requirements – Report violation to BAAQMD	N	
9-10-505.2	Reporting Requirements – Quarterly Report	N	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

Table IV – FFF
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
SIP Regulation 9, Rule 10	**Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon Monoxide from Boilers, Steam Generators, and Process Heaters in Petroleum Refineries (04/02/08)**		
9-10-303	Interim Emission Limit for Facility (Federal Requirements)	Y	
9-10-502	Monitoring	Y	
NSPS 40 CFR 60 Subpart A	**General Provisions (02/27/14)**		
60.7	Notification and record keeping.	Y	
60.8	Performance tests.	Y	
60.11	Compliance with standards and maintenance requirements.	Y	
60.11(a)	Performance test	Y	
60.11(d)	Good air pollution control practice for minimizing emissions	Y	
60.11(f)	Special provisions	Y	
60.11(g)	Any credible evidence or information	Y	
60.12	Circumvention.	Y	
60.13	Monitoring requirements.	Y	
60.13(a)	Continuous monitoring systems subject to Appendix B, and Appendix F(if used to demonstrate compliance with continuous emission limits), of Part 60	Y	
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	
NSPS 40 CFR 60 Subpart J	**Standards of Performance for Petroleum Refineries (12/01/15)**		
60.104	Standard for Sulfur Oxides	Y	
60.104(a)(1)	Fuel gas H2S limit	Y	
60.105	Monitoring of Emissions and Operations	Y	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.105(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(a)(4)(iv)	Fuel gas streams that are exempt from monitoring:	Y	
60.105(a)(4)(iv)(C)	Fuel gas streams that are produced in process units that are intolerant to sulfur contamination, such as fuel gas streams produced by hydrogen plants	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	
NESHAP 40 CFR 63 Subpart A	**General Provisions (06/25/13)**		
63.1	Applicability	Y	
63.2	Definitions, with additional terms defined in 6.37575	Y	
63.3	Units and abbreviations	Y	
63.4	Prohibited Activities and Circumvention	Y	
63.6(a)(1)	Applicability for affected sources	Y	
63.6(c)	Compliance dates for existing sources	Y	
63.6(j)	Presidential exemption	Y	
63.9(b)(2)	Notification Requirements: Submit initial notification no later than 120 calendar days after the effective date	Y	
63.9(h)(2)	Notification Requirements: After a Title V permit has been issued, submit the Notification of Compliance Status to the permitting authority	Y	
63.10(a)(2)(ii)	Recordkeeping and Reporting Requirements: Submit reports to the permitting authority with a copy of the report to the Regional Office of the EPA, unless waived by the EPA	Y	
63.10(a)(5)	Recordkeeping and Reporting Requirements: Periodic Report submittal dates	Y	
63.10(b)(1)	Recordkeeping and Reporting Requirements: General recordkeeping requirements	Y	
63.10(d)(1)	Recordkeeping and Reporting Requirements: General reporting requirements	Y	
63.10(f)	Recordkeeping and Reporting Requirements: Waivers	Y	
40 CFR Part 63	**NESHAP Subpart DDDDD Industrial, Commercial, and Institutional**		

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

Table IV – FFF
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
Subpart DDDDD	**Boilers and Process Heaters (11/20/15)**		
63.7485	Applicable to boilers and heaters located at a major source of HAP emissions	Y	
63.7490(a)	Applicable to any new, reconstructed, or existing industrial boiler or process heater	Y	
63.7490(a)(1)	The affected source is the collection of all existing sources at a major source;	Y	
63.7490(d)	A boiler or process heater is existing if it is not new or reconstructed.	Y	
63.7495(b)	Comply with the work practice standards for existing boilers and process heaters by January 31, 2016	Y	
63.7495(d)	Meet the notification requirements according to 63.7545 and 40 CFR Part 63, Subpart A	Y	
63.7499	Subcategories of boiler and process heaters	Y	
63.7499(l)	Units designed to burn gas 1 fuels	Y	
63.7500	Emission limitations, work practice standards, and operating limits	Y	
63.7500(a)	Meet the requirements in paragraphs (a)(1) and (3) except as provided in (e)	Y	
63.7500(a)(1)	Meet the work practice standards in Table 3: tune-ups and one-time energy assessment	Y	
63.7500(a)(3)	At all times operate and maintain any affected source including associated air pollution control equipment and monitoring equipment in a manner consistent with safety and good air pollution control practices for minimizing emissions	Y	
63.7500(e)	Boilers and process heaters designed to burn gas 1 fuels subcategory are not subject to the emission limits in Tables 1 and 2 or 11 through 13, or the operating limits in Table 4	Y	
63.7505	General requirements for compliance	Y	
63.7505(a)	Comply with the applicable emission limits, work practice standards, and operating limits at all times of operation	Y	
63.7510	Initial Compliance Requirements	Y	
63.7510(e)	Complete the initial tune-up following 63.7540(a)(10)(i) through (vi) no later than January 31, 2016. Complete the one-time energy assessment specified in Table 3 no later than January 31, 2016	Y	
63.7515	Tune-up Requirements	Y	
63.7515(d)	Conduct tune ups in accordance with 63.7540(a)	Y	
63.7530	Initial Compliance Demonstration with work practice standards	Y	
63.7530(e)	Submit a signed statement in the Notification of Compliance Status report that the energy assessment was completed according to Table 3	Y	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

Table IV – FFF
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
	and is an accurate depiction of the facility at the time of the assessment		
63.7540	Demonstrate Continuous Compliance with the Work Practice Standards	Y	
63.7540(a)	Demonstrate continuous compliance with the work practice standards in Table 3	Y	
63.7540(a)(10)	Conduct tune-up as specified in (a)(10)(i) through (vi)	Y	
63.7540(a)(13)	If the unit is not operating on the required date for a tune-up, the tune-up must be conducted within 30 calendar days of startup	Y	
63.7545	Notification Requirements	Y	
63.7545(a)	Submit all notifications in 63.7(b) and (c), 63.8(e), (f)(4) and (6), and 63.9(b) through (h) that apply by the specified dates	Y	
63.7545(e)	Submit a Notification of Compliance Status according to 63.9(h)(2)(ii) before the close of business of the 60th day following the completion of the initial tune-up. The NOCS report must contain all the information in (e)(1) and (8)	Y	
63.7545(e)(1)	A description of the affected units, including identification of the fuel subcategory, the design heat input capacity, and the fuel burned	Y	
63.7545(e)(8)	In addition to the information in 63.9(h)(2), the NOCS must include the following certifications of compliance and signed by a responsible official:	Y	
63.7545(e)(8)(i)	"This facility complies with the required initial tune-up according to the procedures in 63.7540(a)(10)(i) through (vi)."	Y	
63.7545(e)(8)(ii)	"This facility has had an energy assessment performed according to 63.7530(e)."	Y	
63.7550	Reports	Y	
63.7550(a)	Submit each report in Table 9 that applies	Y	
63.7550(b)	Submit an annual, biennial, or 5-year compliance report instead of the compliance report specified in Table 9 according to paragraphs (b)(1) through (4).	Y	
63.7550(c)	Each compliance report must contain the information in (c)(1) through (5) depending upon how the facility chooses to comply	Y	
63.7550(c)(1)	Submit a compliance report with the information in paragraphs (c)(5)(i) through (iii), (xiv), and (xvii) of this section	Y	
63.7550(c)(5)	Information required in compliance reports	Y	
63.7550(c)(5)(i)	Company and Facility name and address	Y	
63.7550(c)(5)(ii)	Process Unit information	Y	
63.7550(c)(5)(iii)	Date of report and beginning and ending dates of the reporting period	Y	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

Table IV – FFF
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
63.7550(c)(5)(xiv)	The date of the most recent tune-up for each unit subject to only the requirement to conduct an annual, biennial, or 5-year tune-up. Include the date of the most recent burner inspection if it was not done annually, biennially, or on a 5-year period and was delayed until the next scheduled or unscheduled unit shutdown	Y	
63.7550(c)(5)(xvii)	Statement by a responsible official with that official's name, title, and signature, certifying the truth, accuracy, and completeness of the report	Y	
63.7550(h)	Submit the reports according to the electronic reporting procedures for use of EPA's WebFIRE, CEDRI, and CDX interface as specified in (h)(1) through (3)	Y	
63.7550(h)(3)	Electronic submission of reports	Y	
63.7555	Recordkeeping	Y	
63.7555(a)	Required records	Y	
63.7555(a)(1)	A copy of each notification and report submitted to comply with this subpart, including all documentation supporting any Initial Notification or Notification of Compliance Status or compliance report that you submitted according to the requirements of 63.10(b)(2)(xiv)	Y	
63.7560	Record Retention Requirements	Y	
63.7565	Applicability of General Provisions (Table 10)	Y	
BAAQMD Condition # 7618			
Part E.2	Processing limit of San Joaquin Valley Crude [basis: Regulation 2-2-302]	Y	
BAAQMD Condition # 12271			
Part A	Monthly and annual emission limits [basis: Offsets, Cumulative Increase]	Y	
Part B	Applicable sources [basis: Offsets, Cumulative Increase]	Y	
Part C	In the case of a process upset or other irregularity [basis: Offsets, Cumulative Increase]	N	
Part D	Applicable source test methods [basis: Manual of Procedures, Volume IV]	Y	
Part E	Notification of the Source Test Section [basis: Manual of Procedures, Volume IV]	Y	
Part G	Source test results [basis: Manual of Procedures Volume IV]	Y	
Part J	CEM requirements [basis: Cumulative Increase, Offsets]	Y	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part K	CEM data for compliance verification [basis: BACT, Offsets]	Y	
Part L	Recordkeeping [basis: BACT, Offsets, Cumulative Increase]	Y	
Part M	Monthly reports [basis: Offsets, Cumulative Increase]	Y	
Part O	Offsets requirements [basis: Offsets]	Y	
Part 29	Hydrogen plant NOx limit [basis: BACT]	Y	
Part 30	Hydrogen plant CO limit [basis: BACT]	Y	
Part 31	Hydrogen plant Abated by A4161 [basis: BACT]	Y	
Part 31	Ammonia emissions limit [basis: BACT]	N	
Part 32	CEM for NOx and O2 [basis: BACT]	Y	
Part 33	Hydrogen plant deaerator vented to S4161 [basis: Regulation 8-2]	Y	
Part 34	Hydrogen plant heat input limit [basis: BACT]	Y	
Part 107	Source Test for Co emissions [basis: Regulation 2-6-409.2]	Y	
Part 112	Source Test for NH_3 emissions [basis: Regulation 2-6-409.2]	N	
BAAQMD Condition # 16688			
Part 1	Maximum firing rate [basis: Regulation 2-1-234]	N	
BAAQMD Condition # 18265			
Part 1	Sources subject to Regulation 9-10 (basis: Regulation 9-10-301 & 305)	N	
Part 2	O2 monitor and recorder requirement (basis: Regulation 9-10-502)	N	
Part 8	For sources with NOx CEMS, semi-annual source test for CO at as-found conditions (basis: Regulation 9-10-502, 1-522)	N	
Part 10	Source test records (basis: recordkeeping; Regulation 9-10-504)	N	
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 20	Maintain fuel flow meter [basis: Regulation 9-10-503]	N	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

Table IV - GGG
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 (05/04/11)**		
1-520	Continuous Emission Monitoring	Y	
1-520.8	Monitors as required by Regulation 10, 12 and Section 2-1-403	Y	
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	Y	
1-522.1	Approval of Plans and Specifications	Y	
1-522.2	Installation Scheduling	Y	
1-522.3	CEM Performance Testing	Y	
1-522.4	Periods of Inoperation	Y	
1-522.5	Daily Monitor Calibration	Y	
1-522.6	CEM Maintenance	Y	
1-522.7	Excess Emissions Reported (Nature, Extent, and Cause)	N	
1-522.8	Monitoring Data Submittal	Y	
1-522.9	Records	Y	
1-522.10	Monitors Required By 1-521 or 2-1-403	Y	
1-523	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.1	Periods of Inoperation Reported	Y	
1-523.2	Periods of Inoperation Per Incident	Y	
1-523.3	Violations of Permit Conditions Reported (Nature, Extent, and Cause)	N	
1-523.4	Records	Y	
1-523.5	Maintenace and Calibration Required	N	
SIP Regulation 1	**PROVISIONS NO LONGER IN CURRENT RULE** **General Provisions and Definitions (6/28/99)**		
1-522.7	Excess Emissions Reported (Nature, Extent, Cause, and Corrective Action)	Y	
1-523.3	Violations of Permit Conditions Reported (Nature, Extent, Cause, and Corrective Action)	Y	
BAAQMD Regulation 6 Rule 1	**Particulate Matter – General Requirements (08/01/18)**		
6-1-301	Ringelmann No. 1 Limitation	N	
6-1-305	Visible Particles	N	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
6-1-310	Total Suspended Particulate (TSP) Concentration Limits	N	
6-1-401	Appearance of Emissions	N	
SIP Regulation 6	**Particulate Matter and Visible Emissions (9/4/98)**		
6-301	Ringelmann No. 1 Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particulate Weight Limitation	Y	
6-401	Appearance of Emissions	Y	
BAAQMD Regulation 9, Rule 9	**Inorganic Gaseous Pollutants - Nitrogen Oxides from Stationary Gas Turbines (12/6/06)**		
9-9-113	Exemption - Inspection/Maintenance	N	
9-9-114	Exemption - Startup/Shutdown	N	
9-9-115	Limited Exemption, Minor Inspection and Maintenance Work	N	
9-9-301	Emission Limits – General	N	
9-9-301.2	Alternative NOx Emission Limits for Gas Turbines >500 MM Btu/hr	N	
9-9-301.3	Emissions Limits: Turbines that Fire Multiple Fuels	N	
9-9-301.4	Rebuttal Option for Alternative NOx Emission Limits	N	
9-9-501	Monitoring and Recordkeeping Requirements	N	
9-9-603	Continuous Emission Monitoring (CEM)	N	
SIP Regulation 9, Rule 9	**Inorganic Gaseous Pollutants - Nitrogen Oxides from Stationary Gas Turbines (12/15/97)**		
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	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

Table IV - GGG
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
NSPS 40 CFR 60 Subpart A	**Standards of Performance for New Stationary Sources (02/27/14)**		
60.7	Notification and record keeping	Y	
60.8	Performance tests		
60.11	Compliance with standards and maintenance requirements	Y	
60.11(a)	Performance test	Y	
60.11(d)	Good air pollution control practice for minimizing emissions	Y	
60.11(f)	Special provisions	Y	
60.11(g)	Any credible evidence or information	Y	
60.12	Circumvention	Y	
60.13	Monitoring requirements	Y	
60.19	General notification and reporting requirements	Y	
NSPS 40 CFR 60 Subpart J	**Standards of Performance for Petroleum Refineries (12/01/15)**		
60.104	Standards for Sulfur Oxides: Compliance Schedule	Y	
60.104(a)(1)	Fuel gas H2S limit	Y	
60.105	Monitoring of Emissions and Operations	Y	
60.105(a)(3)	SO2 CEMs to demonstrate compliance	Y	
60.105(a)(4)	monitoring requirement for H2S (dry basis) in fuel gas prior to combustion (in lieu of separate combustion device exhaust SO2 monitors as required by 60.105(a)(3))	Y	
60.105(e)(3)	Excess SO_2 emission definitions for 60.7(c)	Y	
60.106	Test methods and procedures	Y	
60.106(e)	Method 11 shall be used to verify compliance with 60.104(a)(1)	Y	
NSPS 40 CFR 60 Subpart GG; BAAQMD 10-40	**Standards of Performance for Stationary Gas Turbines (02/27/14); BAAQMD Standards of Performance for Stationary Gas Turbines (02/16/00)**		
60.333	Performance Standards, SO2	Y	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

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

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

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

Table IV - GGG
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 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	
Part 114	Source Test for VOC emissions [basis: Regulation 2-6-409.2]	Y	
BAAQMD Condition # 18618			
Part 1	Throughput limit (basis: Regulation 2-1-234.3, 2-1-307)	N	
Part 2	Recordkeeping (basis: Regulation 2-1-234.3, 2-1-307)	N	
Part 3	Visible emissions inspection (basis: Regulation 2-6-409.2)	Y	
Part 4	Fuel certification (basis: Regulation 2-6-409.2)	Y	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

Table IV - GGG
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 7	Recordkeeping (basis: Regulation 2-6-409.2)	Y	

Table IV – HHH
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 (05/04/11)**		
1-520	Continuous Emission Monitoring	Y	
1-520.8	Monitors as required by Regulation 10, 12 and Section 2-1-403	Y	
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	Y	
1-522.1	Approval of Plans and Specifications	Y	
1-522.2	Installation Scheduling	Y	
1-522.3	CEM Performance Testing	Y	
1-522.4	Periods of Inoperation	Y	
1-522.5	Daily Monitor Calibration	Y	
1-522.6	CEM Maintenance	Y	
1-522.7	Excess Emissions Reported (Nature, Extent, and Cause)	N	
1-522.8	Monitoring Data Submittal	Y	
1-522.9	Records	Y	
1-522.10	Monitors Required By 1-521 or 2-1-403	Y	
1-523	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.1	Periods of Inoperation Reported	Y	
1-523.2	Periods of Inoperation Per Incident	Y	
1-523.3	Violations of Permit Conditions Reported (Nature, Extent, and Cause)	N	
1-523.4	Records	Y	
1-523.5	Maintenace and Calibration Required	N	
SIP	**PROVISIONS NO LONGER IN CURRENT RULE**		

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

Table IV – HHH
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
Regulation 1	**General Provisions and Definitions (6/28/99)**		
1-522.7	Excess Emissions Reported (Nature, Extent, Cause, and Corrective Action)	Y	
1-523.3	Violations of Permit Conditions Reported (Nature, Extent, Cause, and Corrective Action)	Y	
BAAQMD Regulation 6 Rule 1	**Particulate Matter – General Requirements (08/01/18)**		
6-1-301	Ringelmann No. 1 Limitation	N	
6-1-304	Tube Cleaning	N	
6-1-305	Visible Particles	N	
6-1-310	Particle Weight Limitation	N	
6-1-310.3	0.15 grain per dscf at 6% O_2	N	
6-1-401	Appearance of Emissions	N	
SIP Regulation 6	**Particulate Matter and Visible Emissions (9/4/98)**		
6-301	Ringelmann No. 1 Limitation	Y	
6-304	Tube Cleaning	Y	
6-305	Visible Particles	Y	
6-310	Particulate Weight Limitation	Y	
6-310.3	0.15 grain per dscf at 6% O_2	Y	
6-401	Appearance of Emissions	Y	
NSPS 40 CFR 60 Subpart A	**Standards of Performance for New Stationary Sources (02/27/14)**		
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 – HHH
Source-specific Applicable Requirements
S4191 – UTIL BOILER 6 SUPPLEMENTAL STEAM GENERATOR 1
S4193 – UTIL BOILER 6 SUPPLEMENTAL STEAM GENERATOR 2

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.12	Circumvention	Y	
60.13	Monitoring requirements	Y	
60.19	General notification and reporting requirements	Y	
NSPS 40 CFR 60 Subpart Db; BAAQMD Regulation 10-4	**Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units (02/27/14); BAAQMD Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units (02/16/00)**		
60.43b	**PM Standard**	Y	
60.43b(e)	Annual Capacity Factor 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	
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	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.49b(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 (12/01/15)**		
60.104	Standards for Sulfur Oxides: Compliance Schedule	Y	
60.104(a)(1)	Fuel gas H2S limit	Y	
60.105	Monitoring of Emissions and Operations	Y	
60.105(a)(3)	SO2 CEMs to demonstrate compliance	Y	
60.105(a)(4)	monitoring requirement for H2S (dry basis) in fuel gas prior to combustion (in lieu of separate combustion device exhaust SO2 monitors as required by 60.105(a)(3))	Y	
60.105(e)(3)	Excess SO_2 emission definitions for 60.7(c)	Y	
60.106	Test methods and procedures	Y	
60.106(e)	Method 11 shall be used to verify compliance with 60.104(a)(1)	Y	
BAAQMD Condition # 7618			
Part E	Fuel Conditions	Y	
Part E.2	Processing limit of San Joaquin Valley Crude [basis: Regulation 2-2-302]	Y	
BAAQMD Condition # 12271			
Part A	Monthly and annual emission limits [basis: Offsets, Cumulative Increase]	Y	
Part B	Applicable sources [basis: Offsets, Cumulative Increase]	Y	
Part C	In the case of a process upset or other irregularity [basis: Offsets, Cumulative Increase]	N	
Part D	Applicable source test methods [basis: Manual of Procedures, Volume IV]	Y	
Part E	Notification of the Source Test Section [basis: Manual of Procedures, Volume IV]	Y	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part G	Source test results [basis: Manual of Procedures Volume IV]	Y	
Part J	CEM requirements [basis: Cumulative Increase, Offsets]	Y	
Part K	CEM data for compliance verification [basis: BACT, Offsets]	Y	
Part L	Recordkeeping [basis: BACT, Offsets, Cumulative Increase]	Y	
Part M	Monthly reports [basis: Offsets, Cumulative Increase]	Y	
Part O	Offsets requirements [basis: Offsets]	Y	
Part 15	Refinery fuel gas limits [basis: BACT]	Y	
Part 16	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	
Part 114	Source Test for VOC emissions [basis: Regulation 2-6-409.2]	Y	
BAAQMD Condition #			

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

Table IV – HHH
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
18618			
Part 1	Throughput limit (basis: Regulation 2-1-234.3, 2-1-307)	N	
Part 2	Recordkeeping (basis: Regulation 2-1-234.3, 2-1-307)	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	

Table IV - III
Source-specific Applicable Requirements
S4201 – DC Clean Fuels Flare

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 6 Rule 1	**Particulate Matter – General Requirements (08/01/18)**		
6-1-301	Ringelmann No. 1 Limitation	N	
6-1-305	Visible Particles	N	
6-1-310	Total Suspended Particulate (TSP) Concentration Limits	N	
SIP Regulation 6	**Particulate Matter and Visible Emissions (9/4/98)**		
6-301	Ringelmann No. 1 Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particulate Weight Limitation	Y	
BAAQMD Regulation 8, Rule 1	**Organic Compounds - General Provisions (6/15/94)**		
8-1-110	Exemptions	Y	
8-1-110.3	Reduction due to incineration	Y	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

Table IV - III
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 12 Rule 11	**Flare Monitoring at Petroleum Refineries (06/04/03)**		
12-11-401	Flare Data Reporting Requirements	N	
12-11-402	Flow Verification Report	N	
12-11-501	Vent Gas Flow Monitoring	N	
12-11-502	Vent Gas Composition Monitoring	N	
12-11-502.3	Vent Gas Composition Monitoring	N	
12-11-503	Pilot Monitoring	N	
12-11-504	Pilot and Purge Gas Monitoring	N	
12-11-505	Recordkeeping Requirements	N	
12-11-506	General Monitoring Requirements	N	
12-11-506.1	Periods of Inoperation of Vent Gas Monitoring	N	
12-11-507	Video Monitoring	N	
BAAQMD Regulation 12 Rule 12	**Flares at Petroleum Refineries (04/05/06)**		
12-12-301	Flare Minimization	N	
12-12-401	Flare Minimization Plan Requirements	N	
12-12-402	Submission of Flare Minimization Plans	N	
12-12-403	Review and Approval of Flare Minimization Plans	N	
12-12-404	Update of Flare Minimization Plans	N	
12-12-405	Notification of Flaring	N	
12-12-406	Determination of Reporting of Cause	N	
12-12-408	Designation of Confidential Information	N	
12-12-501	Water Seal Integrity Monitoring	N	
NSPS 40 CFR 60 Subpart A	**New Source Performance Standards – General Provisions (02/27/14)**		
60.7	Notification and record keeping	Y	
60.7(a)	Notification	Y	
60.7(g)	Alternative notification	Y	
60.7(h)	Specific provisions	Y	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

Table IV - III
Source-specific Applicable Requirements
S4201 – DC Clean Fuels Flare

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.11	Compliance with standards and maintenance requirements	Y	
60.11(d)	Control devices operated using good air pollution control practice	Y	
60.11(f)	Special provisions	Y	
60.11(g)	Any credible evidence or information	Y	
60.12	Circumvention	Y	
60.19	General notification and reporting requirements	Y	
NSPS 40 CFR 60 Subpart Ja	**Standards of Performance for Petroleum Refineries for Which Construction, Reconstruction, or Modification Commenced After May 14, 2007 (12/01/15)**		
60.100a	Applicability	Y	
60.100a(a)	Applicability: FCCUs, FCUs, delayed coking units, fuel gas combustion devices (including process heaters), flares, and sulfur recovery plants	Y	
60.100a(b)	Applicability: Flares which commenced construction, modification, or reconstruction after June 24, 2008	Y	
60.100a(c)	A modification to a flare is as defined by 60.100a(c)(1) or (2)	Y	
60.103a	Design, Equipment, Work Practice or Operational Standards	Y	
60.103a(f)	Compliance Dates for modified flares that were affected facilities subject to Subpart J prior to becoming affected facilities under 60.100a	Y	
60.103a(g)	An affected flare in BAAQMD may elect to comply with BAAQMD Reg 12-11 and Reg 12-12 as an alternative to 60.103a(a) through (e)	Y	
60.103a(h)	Do not burn in any flare fuel gas with an H_2S concentration in excess of 162 ppmv on a 3-hour rolling average basis. Combustion in a flare of process upset gas or fuel gas that is released as a result of relief valve leakage or other emergency malfunctions is exempt from this limit	Y	
60.107a	Monitoring of emissions and operations for flares	Y	
60.107a(a)(3)	Fuel gas streams exempt under 60.103a(h) and fuel gas streams that are inherently low in sulfur content are not required to comply with the monitoring requirements of 60.107(a)(2)	Y	
60.107a(a)(3)(i)	-- pilot gas for flares	Y	
40 CFR 63 Subpart CC	**NESHAPS - National Emission Standards for Hazardous Air Pollutants from Petroleum Refineries (7/13/2016)**		
63.670	Applicability: Flares used as a control device for an emission point subject to this subpart	Y	1/30/19

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

Table IV - III
Source-specific Applicable Requirements
S4201 – DC Clean Fuels Flare

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.671	Requirements for flare monitoring systems	Y	1/30/19
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	
Part 13	Flaring recordkeeping requirements (basis: Regulations 8-1-110.3; 2-6-409.2; 2-6-501)	Y	
Part 14	Inspection of flaring requirements (basis: Regulation 2-6-4092.)	Y	
Part 15	Inspection procedures (basis: Regulation 6-1-301; 2-1-403)	N	
Part 16	Visual inspection requirements (basis: Regulation 2-6-403)	Y	
Part 17	Recordkeeping requirements for flaring events (basis: Regulation 2-6-501; 2-6-409.2)	Y	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

Table IV – JJJ
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 (10/03/84)**		
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 – JJJ
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 Regulation 11 Rule 12	**National Emission Standard for Benzene Waste Operations (12/04/03); BAAQMD National Emission Standard for Benzene Emissions, From Benzene Transfer Operations, and Benzene Waste Operations (01/05/94)**		
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 – JJJ
Source-specific Applicable Requirements
S4211 - DC V-13222 ISOM MAINTENANCE DROP OUT VESSEL
S4212 - DC V-13441 ISOM MAINTENANCE DROP OUT VESSEL

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
61.343(c)	Inspect all fixed-roof, seal, access doors, and all other openings visually initially and quarterly for cracks and gaps and that doors and openings are closed and gasketed properly.	Y	
61.343(d)	When a broken seal or gasket is identified, or when detectable emissions are measured, first efforts at repair shall be made as soon as practicable, but not later than 45 calendar days after identification.	Y	
61.350	Delay of Repair	Y	
61.355	Test methods, procedures and compliance provisions	Y	
61.356	Recordkeeping requirements	Y	
61.357	Reporting requirements	Y	
61.357(d)	reporting requirements for facilities with 10 Mg/yr or more total benzene in waste	Y	
61.357(d)(8)	Reporting requirements	Y	
NESHAP 40 CFR 63 Subpart CC	**National Emissions Standards for Hazardous Air Pollutants from Petroleum Refineries (7/13/16)**		
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	
63.647(c)	Flare control device requirements	Y	1/30/2019
63.655	Reporting and recordkeeping requirements	Y	
63.655(a)	Owners/operators subject to the wastewater provisions of 63.647 shall comply with the recordkeeping and reporting requirements of 61.356 and 61.357 of 40 CFR 61, subpart FF, unless they comply with those specified in paragraph (o)(2)(ii) of 63.640. Recordkeeping and reporting for wastewater streams included in emission averages are specified in 63.653 and in paragraphs (f)(5) and (g)(8) of this section.	Y	
63.655(i)(6)	All information required to be reported under 63.655(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	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

Table IV – JJJ
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 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 52	Enclosed and vapor-tight and vented to S4201 [basis: BACT]	Y	
Part 53	MDO Vessel Requirements [basis: BACT]	Y	

Table IV – KKK
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	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

Table IV – KKK
Source-specific Applicable Requirements
S1802 - LOGV-1533 ODORANT STORAGE TANK
S4311 - DC V-12555 ISOM PERCHLOROETHYLENE VESSEL,
S4329 - TANK 13260 PENTANE, S4330 – TANK 13261 PENTANE,
S4349 - TANK 13262 PENTANE

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Notes
8-10-502	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 (10/03/84)**		
8-10-301	Process Vessel Depressurizing.	Y	
8-10-301.1	recovery to the fuel gas system	Y	
8-10-301.2	combustion at a firebox or incinerator	Y	
8-10-301.3	combustion at a flare	Y	
8-10-301.4	containment such that emissions to atmosphere do not occur	Y	
8-10-401	Turnaround Records.	Y	
8-10-401.1	date of depressurization event	Y	
8-10-401.2	approximate vessel hydrocarbon concentration when emissions to atmosphere begin	Y	
8-10-401.3	approximate quantity of POC emissions to atmosphere	Y	
BAAQMD Condition # 12271	Applies to S4311, S4329, S4330 and S4349		
Part A	Monthly and annual emission limits [basis: Offsets, Cumulative Increase]	Y	
Part B	Applicable sources [basis: Offsets, Cumulative Increase]	Y	
Part C	In the case of a process upset or other irregularity [basis: Offsets, Cumulative Increase]	N	
Part L	Recordkeeping [basis: BACT, Offsets, Cumulative Increase]	Y	
Part M	Monthly reports [basis: Offsets, Cumulative Increase]	Y	
Part N	Process vessel depressurization requirements [basis: BACT]	Y	
Part O	Offsets requirements [basis: Offsets]	Y	
Part 46	Pressure tank requirement [basis: BACT]	Y	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

Table IV – LLL
Source-specific Applicable Requirements
S4338 – LOG PENTANE LOADING FACILITY

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Notes
BAAQMD Regulation 8 Rule 6	Organic Compounds - Organic Liquid Bulk Terminals and Bulk Plants (02/02/94)		
8-6-117	Exemption, Liquified Organic Gases	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 74	Loading requirements [basis: BACT]	Y	

Table IV - MMM
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 Rule 1	**Particulate Matter – General Requirements (08/01/18)**		
6-1-301	Ringelmann Number 1 Limitation	N	
6-1-305	Visible Particles	N	
6-1-310	Total Suspended Particulate (TSP) Concentration Limits	N	
6-1-311	Total Suspended Particulate (TSP) Weight Limits	N	
6-1-330	Sulfur Recovery Units (SO3, H2SO4 emission limitations)	N	
6-1-401	Appearance of Emissions	N	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

Table IV - MMM
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
SIP Regulation 6	**Particulate Matter and Visible Emissions (9/4/98)**		
6-301	Ringelmann No. 1 Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particulate Weight Limitation	Y	
6-401	Appearance of Emissions	Y	
BAAQMD Condition # 12271			
Part 63	Sulfur pit and sulfur storage tank requirements [basis: BACT]	Y	

Table IV – NNN
Source-specific Applicable Requirements
Fixed Roof Tanks
S4319 – TANK 15096 RECOVERED OIL
S4350 – LOG TANK 13187 PROCESS WASTEWATER
S4356 – LOG TANK 13188 PROCESS WASTEWATER

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 8 Rule 5	**Organic Compounds - STORAGE OF ORGANIC LIQUIDS (10/18/06)**		
8-5-111	Tank Removal From and Return to Service	N	
8-5-111.1	Notification	N	
8-5-111.2	Tank in compliance at time of notification	N	
8-5-111.4	Use vapor recovery during filling and emptying tanks so equipped	Y	
8-5-111.5	Minimize emissions and, if required, degas per 8-5-328	N	
8-5-111.6	Self report if out of compliance during exemption period	N	
8-5-112	Tanks in Operation – maintenance and inspection	N	
8-5-112.1	Notification	N	
8-5-112.2	Tank in compliance at time of notification	N	
8-5-112.3	No product movement, Minimize emissions	Y	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

Table IV – NNN
Source-specific Applicable Requirements
Fixed Roof Tanks
S4319 – TANK 15096 RECOVERED OIL
S4350 – LOG TANK 13187 PROCESS WASTEWATER
S4356 – LOG TANK 13188 PROCESS WASTEWATER

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

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

Table IV – NNN
Source-specific Applicable Requirements
Fixed Roof Tanks
S4319 – TANK 15096 RECOVERED OIL
S4350 – LOG TANK 13187 PROCESS WASTEWATER
S4356 – LOG TANK 13188 PROCESS WASTEWATER

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-5-332.2	Sludge Handling Requirements; sludge container gap requirements	N	
8-5-403	Inspection Requirements for Pressure Relief Devices	N	
8-5-403.1	Inspection Requirements for Pressure Relief Devices; Pressure vacuum valves gas tight standards in 8-5-303	N	
8-5-404	Inspection, Abatement Efficiency Determination and Source Test Reports	N	
8-5-501	Records	Y	
8-5-501.1	Records; Type and amount of liquid, type of blanket gas, TVP-Retain 24 monhts	N	
8-5-501.3	Records; Retention	N	
8-5-501.4	Records; New pressure vacuum valve setpoints	N	
8-5-502	Annual Source Test Requirement and Exemption for Sources Vented to Fuel Gas	N	
8-5-502.1	Source Test Requirements; Annual source test for approved emission control systems and abatement devices for 8-5-303.2, 8-5-306.1, 8-5-307.3	N	
8-5-502.2	Source test requirements; Tank degassing and cleaning abatement devices	N	
SIP Regulation 8 Rule 5	**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	
8-5-303	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	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

Table IV – NNN
Source-specific Applicable Requirements
Fixed Roof Tanks
S4319 – TANK 15096 RECOVERED OIL
S4350 – LOG TANK 13187 PROCESS WASTEWATER
S4356 – LOG TANK 13188 PROCESS WASTEWATER

Applicable Requirement	Regulation Title or Description of Requirement		Federally Enforceable (Y/N)	Future Effective Date
8-5-502	Tank Degassing Annual Source Test Requirement		Y	
8-5-503	Portable Hydrocarbon Detector		Y	
NSPS 40 CFR 60 Subpart Kb	**Volatile Organic Liquid Storage Vessels REQUIREMENTS FOR FIXED ROOF TANK-CONTROL DEVICE (10/15/03)**			
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	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

Table IV – NNN
Source-specific Applicable Requirements
Fixed Roof Tanks
S4319 – TANK 15096 RECOVERED OIL
S4350 – LOG TANK 13187 PROCESS WASTEWATER
S4356 – LOG TANK 13188 PROCESS WASTEWATER

Applicable Requirement	Regulation Title or Description of Requirement		Federally Enforceable (Y/N)	Future Effective Date
60.116b(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 40 CFR 60 Subpart A	**New Source Performance Standards GENERAL PROVISIONS (02/27/14)**			
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 – NNN
Source-specific Applicable Requirements
Fixed Roof Tanks
S4319 – TANK 15096 RECOVERED OIL
S4350 – LOG TANK 13187 PROCESS WASTEWATER
S4356 – LOG TANK 13188 PROCESS WASTEWATER

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.14(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 Regulation 11Rule 12	**National Emission Standard for Benzene Waste Operations (12/04/03); BAAQMD National Emission Standard for Benzene Emissions, From Benzene Transfer Operations, and Benzene Waste Operations (01/25/94)**		
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	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

Table IV – NNN
Source-specific Applicable Requirements
Fixed Roof Tanks
S4319 – TANK 15096 RECOVERED OIL
S4350 – LOG TANK 13187 PROCESS WASTEWATER
S4356 – LOG TANK 13188 PROCESS WASTEWATER

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
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	
NESHAP 40 CFR 63 Subpart CC	**National Emissions Standards for Hazardous Air Pollutants from Petroleum Refineries (12/01/15)**		
63.640	Emission points at petroleum refinery	Y	
63.640(d)(5)	No testing, monitoring, recordkeeping,or reporting is required for	Y	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

Table IV – NNN
Source-specific Applicable Requirements
Fixed Roof Tanks
S4319 – TANK 15096 RECOVERED OIL
S4350 – LOG TANK 13187 PROCESS WASTEWATER
S4356 – LOG TANK 13188 PROCESS WASTEWATER

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	refinery fuel gas systems or emission points routed to refinery fuel gas systems		
63.647	Wastewater provisions	Y	
63.647(a)	Owners/operators of Group 1 wastewater streams shall comply with sections 61.340 to 61.355 of 40 CFR part 61, subpart FF for each stream that meets the definition of 63.641.	Y	
63.647(c)	Flare control device requirements	Y	
63.655	Reporting and recordkeeping requirements	Y	
63.655(a)	Owner/operators subject to the wastewater provisions of 63.647 shall comply with the recordkeeping and reporting requirements in 61.356 and 61.357 of 40 CFR part 61, subpart FF, unless they comply with those specified in paragraph (o)(2)(ii) of 63.640. Recordkeeping and reporting for wastewater streams included in emission averages are specified in 63.653 and in paragraphs (f)(5) and (g)(8) of this section.	Y	
63.655(i)(6)	All information required to be reported under 63.655(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	
Part 51	Degassing abatement requirements [basis: BACT]	Y	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

TABLE IV – OOO
SOURCE-SPECIFIC APPLICABLE REQUIREMENTS
FIXED ROOF TANKS
S5112 – LOG V-15112 MAIN PROTO VESSEL WITH NITROGEN BLANKET
S5113 – LOG V-15113 MAIN PROTO VESSEL WITH NITROGEN BLANKET
S5114 – LOG V-15114 MAIN PROTO VESSEL WITH NITROGEN BLANKET
S5125 LOG V-15117 STANDBY PROTO VESSEL

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 8 Rule 5	**Organic Compounds - STORAGE OF ORGANIC LIQUIDS (10/18/06)**		
8-5-111	Tank Removal From and Return to Service	N	
8-5-111.1	Notification	N	
8-5-111.2	Tank in compliance at time of notification	N	
8-5-111.4	Use vapor recovery during filling and emptying tanks so equipped	Y	
8-5-111.5	Minimize emissions and, if required, degas per 8-5-328	N	
8-5-111.6	Self report if out of compliance during exemption period	N	
8-5-112	Tanks in Operation – maintenance and inspection	N	
8-5-112.1	Notification	N	
8-5-112.2	Tank in compliance at time of notification	N	
8-5-112.3	No product movement, Minimize emissions	Y	
8-5-112.4	Tanks in Operation – maintenance and inspection; Not to exceed 7 days	N	
8-5-112.5	Self report if out of compliance during exemption period	N	
8-5-112.6	Keep records for each exemption	N	
8-5-118	Gas Tight Requirement for approved emission control system in 8-5-306.2 does not apply if facility is subject to BAAQMD 8-18	N	
8-5-301	Storage Tank Control Requirements	N	
8-5-306	Requirements for Approved Emission Control Systems	N	
8-5-306.1	Requirements for approved Emission Control System; Abatement Efficiency >=95%	N	
8-5-307	Requirements for fixed roof tanks, pressure tanks and blanketed tanks	N	
8-5-307.1	Requirements for fixed roof tanks, pressure tanks and blanketed tanks; no liquid leakage through shell	N	
8-5-307.2	Working pressure requirements for pressure tanks	N	
8-5-328	Tank Degassing Requirements	N	
8-5-328.2	Tank degassing requirements; Ozone Excess Day Prohibition	N	
8-5-328.3	Tank degassing requirements; BAAQMD notification required	N	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

TABLE IV – OOO
SOURCE-SPECIFIC APPLICABLE REQUIREMENTS
FIXED ROOF TANKS
S5112 – LOG V-15112 MAIN PROTO VESSEL WITH NITROGEN BLANKET
S5113 – LOG V-15113 MAIN PROTO VESSEL WITH NITROGEN BLANKET
S5114 – LOG V-15114 MAIN PROTO VESSEL WITH NITROGEN BLANKET
S5125 LOG V-15117 STANDBY PROTO VESSEL

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-5-331	Tank cleaning requirements; 90% Abatement efficiency if abatement device used	N	
8-5-331.1	Tank cleaning requirements; Cleaning materials properties	N	
8-5-331.2	Tank cleaning requirements; Steam cleaning prohibition	N	
8-5-331.3	Tank cleaning requirements; Steam cleaning exceptions	N	
8-5-332	Sludge Handling Requirements (applies to sludge removed from any tank that was subject to BAAQMD 8-5 at any time since it was last put in service)	N	
8-5-332.1	Sludge Handling Requirements; sludge container no leaks	N	
8-5-332.2	Sludge Handling Requirements; sludge container gap requirements	N	
8-5-404	Inspection, Abatement Efficiency Determination and Source Test Reports	N	
8-5-501	Records	Y	
8-5-501.1	Records; Type and amount of liquid, type of blanket gas, TVP- Retain 24 monhts	N	
8-5-501.3	Records; Retention	N	
8-5-501.4	Records; New pressure vacuum valve setpoints	N	
8-5-502	Annual Source Test Requirement and Exemption for Sources Vented to Fuel Gas	N	
8-5-502.1	Source Test Requirements; Annual source test for approved emission control systems and abatement devices for 8-5-303.2, 8-5-306.1, 8-5-307.3	N	
8-5-502.2	Source test requirements; Tank degassing and cleaning abatement devices	N	
SIP Regulation 8 Rule 5	**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	
8-5-306	Requirements for Approved Emission Control Systems	Y	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

TABLE IV – OOO
SOURCE-SPECIFIC APPLICABLE REQUIREMENTS
FIXED ROOF TANKS
S5112 – LOG V-15112 MAIN PROTO VESSEL WITH NITROGEN BLANKET
S5113 – LOG V-15113 MAIN PROTO VESSEL WITH NITROGEN BLANKET
S5114 – LOG V-15114 MAIN PROTO VESSEL WITH NITROGEN BLANKET
S5125 LOG V-15117 STANDBY PROTO VESSEL

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-5-328	Tank Degassing Requirements	Y	
8-5-404	Certification	Y	
8-5-501.1	Records	Y	
8-5-502	Tank Degassing Annual Source Test Requirement	Y	
BAAQMD Condition # 11504	Applies to S5112, S5113, and S5114		
Part 1	Controlled by A26 [basis: Cumulative Increase, Regulation 8-5-311]	Y	

Table IV – PPP
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 Collection and Separation Systems (09/15/04)**		
8-8-303	Gauging and Sampling Devices	Y	
8-8-305	Oil-Water Separator And/Or Air Flotation Unit Slop Oil Vessels	Y	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

Table IV – QQQ
Source-specific Applicable Requirements
S6049, S6051 THROUGH S6057, S6059, S6060, S6073
DIESEL ENGINES

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 6 Rule 1	**Particulate Matter – General Requirements (12/5/07)**		
6-1-303	Ringelmann Number 2 Limitation	N	
6-1-303.1	Ringelmann Number 2 Limitation	N	
6-1-305	Visible Particles	N	
6-1-310	Total Suspended Particulate (TSP) Concentration Limits	N	
6-1-401	Appearance of Emissions	N	
SIP Regulation 6	**Particulate Matter and Visible Emissions (9/4/98)**		
6-303	Ringelmann Number 2 Limitation	Y	
6-303.1	Ringelmann Number 2 Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particulate Weight Limitation	Y	
6-401	Appearance of Emissions	Y	
BAAQMD Regulation 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 (7/25/07)		
9-8-110	Exemptions	N	
9-8-110.5	Exemptions; Emergency Standby Engines	N	
9-8-330	Emergency Standby Engines, Hours Of Operation	N	
9-8-330.1	For emergency use for an unlimited number of hours	N	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

Table IV – QQQ
Source-specific Applicable Requirements
S6049, S6051 THROUGH S6057, S6059, S6060, S6073
DIESEL ENGINES

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
9-8-330.3	For reliability-related activities so long as total hours of operation for this purpose do not exceed 50 hours in a calendar year, or limitations contained in a District permit, whichever is lower. Hours of operation for reliability-related activities may exceed these limits only as necessary to comply with testing requirements of National Fire Protection Association (NFPA) 25 – "Standard for the Inspection, Testing, and Maintenance of Water-Based Fire Protection Systems," 1998 edition.	N	
9-8-502	Recordkeeping	N	
9-8-502.1	Monthly records of usage	N	
9-8-530	Emergency Standby and Low Usage Engines, Monitoring and Recordkeeping: Each emergency standby engine shall be equipped with a nonresettable totalizing meter that measures hours of operation or fuel usage.	N	
9-8-530.1	Keep a monthly log of usage that shall indicate the hours of operation (total)	N	
9-8-530.2	Keep a monthly log of usage that shall indicate the hours of operation (emergency)	N	
9-8-350.3	Keep a monthly log of usage that shall indicate for each emergency, the nature of the emergency condition	N	
CCR, Title 17, Section 93115	**ATCM for Stationary Compression Ignition Engines (05/19/11)**		
93115.5	Fuel Requirements	N	
93115.5(a)	Fuel and Fuel Additive Requirements: New stationary compression ignition engine requirements	N	
93115.6	ATCM for Stationary CI Engines – Emergency Standby Diesel-Fueled CI Engine (>50 bhp) Operating Requirements and Emission Standards	N	
93115.6(a)	S6049 and S6073 : New Emergency Standby Diesel-Fueled Compression Engine (> 50 bhp) Operating Requirements and Emission Standards	N	
93115.6(a)(4)	S6073 Only: New Direct-Drive Emergency Standby Fire Pump Engines – comply with 93115.6(a)(3) or 93115.6(a)(4)	N	
93115.6(a)(4)(A)	S6073 Only: New Direct-Drive Emergency Standby Fire Pump Engines: Standards & Hours of Operation	N	
93115.6(a)(4)(A)(1)	S6073 Only: New Direct-Drive Emergency Standby Fire Pump Engines: General Requirements	N	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

Table IV – QQQ
Source-specific Applicable Requirements
S6049, S6051 THROUGH S6057, S6059, S6060, S6073
DIESEL ENGINES

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
93115.6(a)(4)(A)(1)(a)	S6073 Only: Emission standards for all pollutants specified in Table 2 of 17 CCR 93115	N	
93115.6(a)(4)(A)(1)(b)	S6073 Only: Certification requirements and emission standards specified by 40 CFR 60.4202	N	
93115.6(a)(4)(A)(1)(c)	S6073 Only: Hours of operation limited to hours necessary to comply with testing requirements of NFPA 25. No limit for emergency and emission testing for compliance with this regulation	N	
93115.6(a)(4)(B)	S6073 Only: New Direct-Drive Emergency Standby Fire Pump Engines: District may establish more stringent limits and standards	N	
93115.6(b)	S6051 – S6057, S6059, S6060: In-Use Emergency Standby Diesel-Fueled CI Engine (> 50 bhp) Operating Requirements and Emission Standards	N	
93115.6(b)(3)	S6051 – S6057, S6059, S6060: Emission and operation standards	N	
93115.6(b)(3)(A)	S6051 – S6057, S6059, S6060: Diesel PM Standard and Hours of Operation Limitations	N	
93115.6(b)(3)(A)(1)	S6051 – S6057, S6059, S6060: General Requirements	N	
93115.6(b)(3)(A)(1)(a)	S6051 – S6057, S6059, S6060: 20 hours/yr for maintenance & testing	N	
93.115.10	Recordkeeping, Reporting and Monitoring	N	
93115.10(d)(1)	Monitoring Equipment	N	
93115.10(d)(3)	District may require additional monitoring	N	
93115.10(f)	Reporting Requirements for Emergency Standby Engines	N	
93115.10(f)(1)	Records and monthly summary required	N	
93115.10(f)(2)	Record retention	N	
93115.15	Severability	N	
40 CFR 63 Subpart ZZZZ	**NESHAPS for Stationary Reciprocating Internal Combustion Engines (3/3/2010) Requirements for New Stationary RICE > 500 bhp** **S6049 and S6073**		

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

Table IV – QQQ
Source-specific Applicable Requirements
S6049, S6051 THROUGH S6057, S6059, S6060, S6073
DIESEL ENGINES

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.6585	Applicability: stationary RICE at a major or area source of HAP emissions	Y	
63.6585(a)	Definition: stationary RICE	Y	
63.6585(b)	Definition: major source of HAPs	Y	
63.6590	Affected sources	Y	
63.6590(a)	Affected source is any existing, new, or reconstructed stationary RICE	Y	
63.6590(a)(2)	An new stationary RICE is:	Y	
63.6590(a)(2)(i)	More than 500 bhp located at a major source of HAPs which commenced construction on or after December 19, 2002	Y	
63.6590(b)	Stationary RICE subject to limited requirements	Y	
63.6590(b)(1)	Stationary RICE subject to limited requirements must only meet initial notification requirements of 63.6645(f) if	Y	
63.6590(b)(1)(i)	the stationary RICE is a new emergency RICE with a site rating of more than 500 bhp located at a major source of HAPs	Y	
63.6645	Notifications	Y	
63.6645(f)	Initial notification requirement when no other requirements apply	Y	
BAAQMD Condition # 22820	**S6051 through S6057, S6059, and S6060 only**		
Part 1	Operating limit for reliability-related activities (basis: "Stationary Diesel Engine ATCM", CA Code of Regulations, Title 17, Section 93115.6(b)(3)(A)(1)(a) or Regulation 2-5)	Y	
Part 2	Emergency standby engine operation (basis: Basis: "Stationary Diesel Engine ATCM", CA Code of Regulations, Title 17, Section 93115.6(b)(3)(A)(1)(a) and (b))	Y	
Part 3	Non-resettable totalizing hour meter (basis: "Stationary Diesel Engine ATCM", CA Code of Regulations, Title 17, Section 93115.10(d)(1))	Y	
Part 4	Records (Basis: "Stationary Diesel Engine ATCM", CA Code of Regulations, Title 17, Section 93115.10(f) and Regulation 2-6-501, 9-8-530)	Y	
BAAQMD Condition # 22850	**S6049 and S6073**		

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

Table IV – QQQ
Source-specific Applicable Requirements
S6049, S6051 THROUGH S6057, S6059, S6060, S6073
DIESEL ENGINES

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 1	Reliabilty-related testing limit [Basis: "Stationary Diesel Engine ATCM", CA Code of Regulations, Title 17, Section 93115.6(a)(3)(A)(1)(c)]	Y	
Part 2	Emergency standby engine operation purpose [Basis: "Stationary Diesel Engine ATCM", CA Code of Regulations, Title 17, Section 93115.6(a)(3)(A)(1)(c)]	Y	
Part 3	Monitoring of hours of operation of the emergency standby engine [Basis: "Stationary Diesel Engine ATCM", CA Code of Regulations, Title 17, Section 93115.10(d)(1)]	Y	
Part 4	Records [Basis: "Stationary Diesel Engine ATCM", CA Code of Regulations, Title 17, Section 93115.10(f) and BAAQMD Regulation 2-6-501, 9-8-530]	Y	
Part 5	At School and Near-School Operation [Basis: "Stationary Diesel Engine ATCM", CA Code of Regulations, Title 17, Section 93115.4(a)(67), Section 93115.6(a)(1)]	Y	

Table IV – RRR
Applicable Requirements
SUBPART GGG EQUIPMENT AND COMPONENTS

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
NSPS 40 CFR 60 Subpart A; BAAQMD 10-1	**General Provisions (02/27/14); BAAQMD General Provisions (02/16/00)**		
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 40 CFR 60 Subpart GGG; BAAQMD Regulation 10-59	**Standards of Performance for Equipment Leaks (Fugitive Emission Sources) (06/02/08); BAAQMD Standards of Performance for Equipment Leaks of VOC in Petroleum Refineries (02/16/00)**		

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

Table IV – RRR
Applicable Requirements
SUBPART GGG EQUIPMENT AND COMPONENTS

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.592	Subject to provisions of Part 60, Subpart VV	Y	
60.593	Exceptions	Y	
NSPS 40 CFR 60 Subpart VV; BAAQMD Regulation 10-52	**Standards of Performance for Equipment Leaks (Fugitive Emission Sources) (06/02/08); BAAQMD Standards of Performance for New Stationary Sources (02/16/00)**		
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	
60.482-3	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	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

Table IV – RRR
Applicable Requirements
SUBPART GGG EQUIPMENT AND COMPONENTS

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

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

Table IV – RRR
Applicable Requirements
SUBPART GGG EQUIPMENT AND COMPONENTS

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

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

Table IV – RRR
Applicable Requirements
SUBPART GGG EQUIPMENT AND COMPONENTS

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

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

Table IV – SSS
Applicable Requirements
SUBPART QQQ INDIVIDUAL DRAIN SYSTEMS

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
NSPS 40 CFR 60 Subpart A; BAAQMD 10-1	**General Provisions (02/27/14); BAAQMD General Provisions (02/16/00)**		
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 40 CFR 60 Subpart QQQ; BAAQMD Regulation 10-69	**Standards of Performance for VOC Emission From Petroleum Refinery Wastewater Systems (10/17/00); BAAQMD Standards of Performance for Petroleum Refineries Waste Water Systems (02/16/00)**		
60.692-1	Standards: General	Y	
60.692-1(a)	Comply with 60.692-2 except during periods of startup, shutdown or malfunction.	Y	
60.692-1(b)	Compliance will be determined by review of records and reports, performance test results and inspection using methods and procedures specified in 60.696.	Y	
60.692-1(c)	Standards: General; Alternative means of compliance	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(a)(1)	Standards: Individual drain systems; equip each drain with water seal	Y	
60.692-2(a)(2)	Standards: Individual drain systems; Drains in active service - Monthly visual or physical inspections for low water level or other problem	Y	
60.692-2(a)(3)	Standards: Individual drain systems; Drains out of active service - Weekly visual or physical inspections for low water level or other problem	Y	
60.692-2(a)(4)	Standards: Individual drain systems; Drains out of active service – Alternative to weekly inspection – tightly sealed cap or plug with semiannual inspections	Y	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

Table IV – SSS
Applicable Requirements
SUBPART QQQ INDIVIDUAL DRAIN SYSTEMS

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.692-2(a)(5)	Standards: Individual drain systems; Repair – first attempt within 24 hours of detection unless delay of repair (60.692-6)	Y	
60.692-2(b)(1)	Standards: Individual drain systems; Junction box requirements – vent pipes	Y	
60.692-2(b)(2)	Standards: Individual drain systems; Junction box requirements – sealed covers	Y	
60.692-2(b)(3)	Standards: Individual drain systems; Junction box requirements – sealed covers - semiannual visual inspections	Y	
60.692-2(b)(3)	Standards: Individual drain systems; Junction box requirements – Repairs – first attempt within 15 calendar days after detection except delay of repair (60.692-6)	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	
60.692-2(d)	Standards: Individual drain systems; Exemption for systems with catch basins installed prior to May 4, 1987	Y	
60.692-2(e)	Standards: Individual drain systems; Refinery wastewater routed through new process drains and a new first common downstream junction box as part of new or existing individual drain system, shall not be routed through a downstream catch basin.	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	
60.697(e)	For delay of repair in accordance with 60.692-6, record reason, estimated date, signature of decision maker and actual date of successful repair or corrective action.	Y	
60.697(f)(1)	Recordkeeping requirements; design specifications – retain for life of equipment	Y	
60.697(f)(2)	Recordkeeping requirements; design specifications – information required	Y	
60.697(g)	Recordkeeping requirements; plans showing location of drains with caps and plugs – retain for life of facility	Y	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

Table IV – SSS
Applicable Requirements
SUBPART QQQ INDIVIDUAL DRAIN SYSTEMS

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

Table IV – TTT
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
NESHAP 40 CFR 63 Subpart A	**General Provisions (06/25/13)**		
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	
NESHAP 40 CFR 63 Subpart CC	**National Emission Standards for Hazardous Air Pollutants from Petroleum Refineries (12/01/15)**		
63.648	Equipment Leak Standards	Y	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

Table IV – TTT
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
63.648(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.	Y	
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	
63.648(j)	Pressure relief device requirements	Y	63.648(j)(3), (j)(6), and (j)(7) become effective 1/30/19
63.655	Reporting and Recordkeeping Requirements	Y	
63.655(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	
63.655(d)(3)	For compressors that qualify for the hydrogen service exemption keep records of the demonstration required by 63.648(g)	Y	
63.655(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	
63.655(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	
63.655(e)(3)	Records include reports described in 63.655(h).	Y	
63.655(i)(6)	All information required to be reported under 63.655(a) through (h) shall be retained for 5 years.	Y	
NSPS 40 CFR 60 Subpart VV; BAAQMD Regulation 10-52	**Standards of Performance for Equipment Leaks (Fugitive Emission Sources) (06/02/08); BAAQMD Standards of Performance for Equipment Leaks of VOC in the Synthetic Organic Chemicals Manufacturing Industry (02/16/00)**		
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	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

Table IV – TTT
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
60.482-1(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	
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	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

Table IV – TTT
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
60.482-7(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	
60.485	Test Methods and Procedures	Y	
60.485(a)	Performance tests methods specified in Appendix A or 60.8(b)	Y	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

Table IV – TTT
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(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	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

Table IV – UUU
Source-specific Applicable Requirements
SUBPART FF CONTAINERS

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
NESHAP 40 CFR 61 Subpart A	**National Emission Standards for Hazardous Air Pollutants - General Provisions (02/27/14)**		
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 40 CFR 61 Subpart FF; BAAQMD Regulation 11 Part 12	**National Emission Standard for Benzene Waste Operations (12/04/03); BAAQMD National Emission Standard for Benzene Emissions, From Benzene Transfer Operations, and Benzene Waste Operations (01/05/94)**		
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	
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	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

Table IV – UUU
Source-specific Applicable Requirements
SUBPART FF CONTAINERS

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
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 40 CFR 63 Subpart A	**National Emission Standards for Hazardous Air Pollutants for Source Categories (06/25/13, 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	
NESHAP 40 CFR 63 Subpart CC	**National Emissions Standards for Hazardous Air Pollutants from Petroleum Refineries (7/13/2016)**		
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	
63.655	Reporting and Recordkeeping Requirements	Y	
63.655(a)	Owner/operators subject to the wastewater provisions of 63.647 shall comply with the recordkeeping and reporting requirements in 61.356 and 61.357 of 40 CFR 61, Subpart FF, unless they comply with those specified in paragraph (o)(2)(ii) of 63.640. Recordkeeping and reporting for wastewater streams included in emission averages are specified in 63.653 and in paragraphs (f)(5) and (g)(8) of this section.	Y	
63.655(i)(6)	All information required to be reported under 63.655(a) through (h) shall be retained for 5 years.	Y	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

Table IV – VVV
Source-specific Applicable Requirements
SUBPART FF INDIVIDUAL DRAIN SYSTEMS

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
NESHAP 40 CFR 61 Subpart A	**National Emission Standards for Hazardous Air Pollutants - General Provisions (02/27/14)**		
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 40 CFR 61 Subpart FF; BAAQMD Regulation 11 Part 12	**National Emission Standard for Benzene Waste Operations (12/04/03); BAAQMD National Emission Standard for Benzene Emissions, From Benzene Transfer Operations, and Benzene Waste Operations (01/05/94)**		
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 40 CFR 63 Subpart A	**National Emission Standards for Hazardous Air Pollutants for Source Categories (06/25/13)**	Y	
63.4	Prohibited Activities and Circumvention	Y	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

Table IV – VVV
Source-specific Applicable Requirements
SUBPART FF INDIVIDUAL DRAIN SYSTEMS

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
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	
NESHAP 40 CFR 63 Subpart CC	**National Emissions Standards for Hazardous Air Pollutants from Petroleum Refineries (7/13/16)**		
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(d)	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	
63.655	Reporting and Recordkeeping Requirements	Y	
63.655(a)	Owner/operators subject to the wastewater provisions of 63.647 shall comply with the recordkeeping and reporting requirements in 61.356 and 61.357 of 40 CFR 61, Subpart FF, unless they comply with those specified in paragraph (o)(2)(ii) of 63.640. Recordkeeping and reporting for wastewater streams included in emission averages are specified in 63.653 and in paragraphs (f)(5) and (g)(8) of this section.	Y	
63.655(i)(6)	All information required to be reported under 63.655(a) through (h) shall be retained for 5 years.	Y	

Table IV – WWW
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 (05/04/11)**		
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	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

Table IV – WWW
Source-specific Applicable Requirements
FACILITY

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
1-544	Monthly Summary	Y	
BAAQMD Regulation 2, Rule 1	**General Requirements (04/18/12)**		
2-1-429	Federal Emissions Statement	N	
SIP Regulation 2, Rule 1	**General Requirements (01/26/99)**		
2-1-429	Federal Emissions Statement	Y	
BAAQMD · Regulation 8, Rule 5	**Organic Compounds, Storage of Organic Liquids (10/18/06)**		
8-5-117	Limited Exemption, Low Vapor Pressure	N	
SIP · Regulation 8, Rule 5	**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 (10/03/84)**		
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	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

Table IV – WWW
Source-specific Applicable Requirements
FACILITY

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
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 16	**Solvent Cleaning Operations (10/16/02)**		
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	Cold Cleaner Requirements	Y	
8-16-303.1	General Operating Requirements	Y	
8-16-303.1.1	Maintain equipment in good working order.	Y	
8-16-303.1.2	Leak Repair Requirement	Y	
8-16-303.1.3	Solvent Storage or Disposal – Evaporation Prevention	Y	
8-16-303.1.4	Waste Solvent Disposal	Y	
8-16-303.1.4(a)	Covered Containers for Waste Solvent Awaiting Pick-up	Y	
8-16-303.1.4(b)	On-site Waste Treatment	Y	
8-16-303.1.5	Solvent Evaporation Minimization Devices shall not be Removed	Y	
8-16-303.1.6	Solvent Spray Requirements	Y	
8-16-303.2	Cold Cleaner 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	Y	
8-16-303.3.1	Container	Y	
8-16-303.3.2	Solvent Evaporation Reduction for Idle Equipment	Y	
8-16-303.3.3	Used Solvent Returned to Container	Y	
8-16-303.3.4	Label Stating Operating Requirements	Y	
8-16-303.4	Control Device (one of the following)	Y	
8-16-303.4.1	Freeboard Ratio > 0.75	Y	
8-16-303.5	VOC content < 0.42 pounds per gallon or comply with 8-16-303.4.1 and other options	Y	
8-16-501	Solvent Records	Y	
8-16-501.2	Facility-wide Monthly Solvent Usage Records	Y	
8-16-501.3	Annual Records of Type and Amount of Solvent Used for Wipe Cleaning	Y	
8-16-501.5	Records Retained	Y	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

Table IV – WWW
Source-specific Applicable Requirements
FACILITY

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD & SIP Regulation 8, Rule 40	**Aeration of Contaminated Soil and Removal of Underground Storage Tanks (**04/19/2001**)** **Note:** **BAAQMD rule effective date: 6/15/05** **Section 8-40-118 of BAAQMD rule amended 6/15/05.**		
8-40-116	Exemption, Small Volume	Y	
8-40-205	Contaminated Soil	Y	
8-40-304	Active Storage Piles	Y	
8-40-305	Inactive Storage Piles	Y	
8-40-306	Contaminated Soil – Excavation and Removal	Y	
8-40-306.4	Requirements and Schedule	Y	
8-40-601	Contaminated Soil Sampling	Y	
8-40-601.2	Sampling Requirements for Exemption under 8-40-116.2	Y	
8-40-601.3	Sampling Requirements for Projects Subject to 8-40_306.4 with 250 cubic yards or less	Y	
8-40-601.4	Sampling Requirements for Projects Subject to 8-40_306.4 with more than 250 cubic yards	Y	
8-40-604	Measurement of Organic Concentration	Y	
BAAQMD Regulation 8 Rule 53	**Organic Compounds, Vacuum Truck Operations (04/18/2012)**		
8-53-102.1	Applicability for Petroleum refineries	N	
8-53-103	Exemption, Emergences	N	
8-53-104	Limited Exemption, Positive Displacement Pump or Gravity Loading	N	
8-53-105	Exemption, Secondary Treatment Processes	N	
8-53-218	Regulated Material: Wastewater is not a 'regulated material'	N	
8-53-301	Emission Limit: For any loading event, the owner/operator shall control emissions, either ensuring the TOC concentration does not exceed 500 ppmv, or abated with an efficiency of at least 95 percent	N	
8-53-302	Liquid Leaks: Cannot exceed a rate in excess of three drops per minute	N	
8-53-303	Vapor Leaks: Cannot exceed 500 ppmv	N	
8-53-304	Unloading of Regulated Material: Materials must be either unloaded into a tank, vessel or sump that meets the requirements of Reg 8, Rule 5 or Reg 8, Rule 8 or into a non-compliant tank, vessel, or sump using a submerged fill pipe that meets requirements of Reg 8, Rule 5	N	
8-53-401	Loading Event Schedule Reporting Requirements – Upon request from the BAAQMD, provide the specified information within 30 working days for loading events that are scheduled within 30 days of the request (changes to loading event schedule must be reported to BAAQMD within 20 hours prior to loading event):	N	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

Table IV – WWW
Source-specific Applicable Requirements
FACILITY

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-53-501	Emissions Monitoring Requirements: monitor and record emissions of an affected facility using a vacuum truck operation	N	
8-53-502	Recordkeeping Requirements: record the specified information for the loading events	N	
8-53-601	Measurement of TOC Concentrations	N	
8-53-602	Analysis of Materials, True Vapor Pressure	N	
8-53-603	Analysis of Materials, Percent Water Volume	N	
8-53-604	Determination of Abatement Efficiency	N	
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	
11-2-305	Waste Disposal Sites	N	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

Table IV – WWW
Source-specific Applicable Requirements
FACILITY

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
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	
BAAQMD Regulation 12, Rule 15			
12-15-207	Fence-Line Monitoring System	N	1 yr after plan approval
12-15-403	Air Monitoring Plans	N	1 yr after plan approval
12-15-404	Review and Approval of Air Monitoring Plan	N	1 yr after plan approval
12-15-406	Air Monitoring Guidelines	N	1 yr after plan approval
12-15-407	Designation of Confidential Information	N	1 yr after plan approval
12-15-501	Fence-line Monitoring System	N	1 yr after plan approval
NSPS 40 CFR 60 Subpart A	**New Source Performance Standards – General Provisions (02/27/14)**		
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	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

Table IV – WWW
Source-specific Applicable Requirements
FACILITY

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.14	Modifications	Y	
60.15	Reconstruction	Y	
60.17	Incorporation by reference	Y	
60.19	General notification and reporting requirements	Y	
NESHAP 40 CFR 61 Subpart A	**National Emission Standards for Hazardous Air Pollutants - General Provisions (02/27/14)**		
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 40 CFR 61 Subpart M	**National Emission Standard for Asbestos (07/20/04)**		
NESHAP Part 61 Subpart FF; BAAQMD Regulation 11 Rule 12	**National Emission Standard for Benzene Waste Operations (12/04/03); BAAQMD National Emission Standard for Benzene Emissions, From Benzene Transfer Operations, and Benzene Waste Operations (01/05/94)**		
61.342	Standards: General	Y	
61.342(b)	Facilities with 10 Mg/yr or more of benzene in waste shall comply with 61.342(c) through 61.342(h)	Y	
61.342(e)	Alternative to 61.342(c) and 61.342(d) standards for facilities with 10 Mg/yr or more of benzene in waste	Y	
61.342(e)(1)	Non aqueous wastes (with a flow-weighted annual average water content of less than 10%) shall be treated in accordance with 61.342(c)(1)	Y	
61.342(e)(2)	Aqueous wastes (with a flow-weighted annual average water content of 10% or more by volume)shall be limited to 6 Mg/yr. Waste routed to enhanced biodegradation units is not included in this total.	Y	
61.342(g)	Compliance with 61.342(e) is determined by review of facility records and results from tests and inspections using methods and procedures specified in 61.355.	Y	
61.355	Test Methods, Procedures, and Compliance Procedures	Y	
61.355(a)	Procedures for determining total annual benzene quantity from facility waste.	Y	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

Table IV – WWW
Source-specific Applicable Requirements
FACILITY

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
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	
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 40 CFR 63 Subpart A	**National Emission Standards for Hazardous Air Pollutants for Source Categories (06/25/13)**		
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	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

Table IV – WWW
Source-specific Applicable Requirements
FACILITY

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.9	Notification Requirements	Y	
63.10	Recordkeeping and Reporting Requirements	Y	
NESHAP 40 CFR 63 Subpart A	**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 (06/25/13)**		
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 Process Heaters	Y	
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	
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	
NESHAP 40 CFR 63 Subpart CC	**National Emissions Standards for Hazardous Air Pollutants from Petroleum Refineries (7/13/16)**		
63.640(a)	Applicability applies to petroleum refining process units and to related emission points.	Y	
63.640(c)	Applicability and Designation of Affected Source--Includes all emission points at Refinery	Y	
63.640(h)	Applicability and Designation of Affected Source--Compliance dates as specified in Table 11	Y	
63.640(c)(1)	Applicability for miscellaneous process vents	Y	
63.642	General Standards	Y	
63.642(b)	Emission standards apply at all times	Y	
63.642(k)	Existing source owners/operators may comply, and owners/operators of new souces may comply with the applicable provisions in 63.643 through 63.645 or 63.660, 63.647, 63.650, and 63.651, as specified in 63.640(h).	Y	
63.642(k)(1)	Comply with applicable provisions of 63.648 and/or 63.649, 63.654, 63.655, 63.657, 63.658, 63.670, and 63.671.	Y	
63.642(k)(2)	Not required to calculate the annual emission rate specified in 63.642(g)	Y	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

Table IV – WWW
Source-specific Applicable Requirements
FACILITY

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.642(n)	General duty to minimize emissions	Y	
63.643	Miscellaneous process vent provisions	Y	
63.645	Test methods and procedures for miscellaneous process vents	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	
63.655	Reporting and Recordkeeping Requirements	Y	
63.655(a)	Owner/operators subject to the wastewater provisions of 63.647 shall comply with the recordkeeping and reporting requirements in 61.356 and 61.357 of 40 CFR 61, Subpart FF, unless they comply with those specified in paragraph (o)(2)(ii) of 63.640. Recordkeeping and reporting for wastewater streams included in emission averages are specified in 63.653 and in paragraphs (f)(5) and (g)(8) of this section.	Y	
63.655(h)(8)	Quarterly report contents for fenceline monitoring systems subject to 63.658. After obtaining 12 months of data, submit the following results within 45 days after the end of each quarterly reporting period covered by the periodic report via CEDRI as accessed through EPA's CDX	Y	5/15/2019
63.655(i)(6)	All information required to be reported under 63.655(a) through (h) shall be retained for 5 years.	Y	
63.655(i)(8)	Recordkeeping requirements for fenceline monitoring systems subject to 63.658	Y	
63.658	Fenceline monitoring procedures	Y	
63.658(a)	Conduct sampling along the facility property boundary and analyze samples in accordance with Methods 325A and 325B of Appendix A of Part 63 and 63.658(b) through (k)	Y	
63.658(b)	The target analyte is benzene	Y	
63.658(c)	Determine passive monitor locations in accordance with Section 8.2 of Method 325A	Y	
63.658(d)	Collect and record meteorological data according to the applicable requirements in (d)(1) through (3)	Y	
63.658(e)	Use a sampling period and sampling frequency as specified in paragraphs (e)(1) through (3)	Y	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

Table IV – WWW
Source-specific Applicable Requirements
FACILITY

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.658(f)	Within 45 days of completion of each sampling period, determine whether the results are above or below the action level	Y	1/30/2019
63.658(g)	Within 5 days of determining that the action level has been exceeded for any annual average Δc and no longer than 50 days after completion of the sampling period, initiate a root cause analysis to determine the cause of such exceedance and appropriate corrective actions, such as those described in 63.658(g)(1) through (4). The root cause and initial corrective action analyses shall be completed and initial corrective actions taken no later than 45 days after determining there is an exceedance.	Y	1/30/2019
63.658(h)	If, upon completion of the corrective action analysis and corrective actions the Δc value for the next 14-day sampling period for which the sampling start time begins after the completion of the corrective actions is greater than 9 µg/m3 or if all corrective action measures identified require more than 45 days to implement, develop a corrective action plan that describes the corrective action(s) completed to date, additional proposed measures to reduce fenceline concentrations below the action level, and a schedule for completion of these measures. Submit the corrective action plan to the Administrator within 60 days after receiving the analytical results indicating that the Δc value for the 14-day sampling period following the completion of the initial corrective action is greater than 9 µg/m3 or, if no initial corrective actions were identified, no later than 60 days following the completion of the corrective action analysis required in 65.658(g)	Y	1/30/2019
63.658(i)	Approval from the Administrator may be requested for a site-specific monitoring plan to account for offsite upwind sources or onsite sources excluded under 63.640(g) according to the requirements in 63.658(i)(1) through (4)	Y	
63.658(j)	Comply with the applicable recordkeeping and reporting requirements in 63.655(h) and (i)	Y	
63.658(k)	As outlined in 63.7(f), the owner or operator may submit a request for an alternative test method. At a minimum, the request must follow the requirements outlined in 63.658(k)(1) through (7)	Y	
63.658(k)(7)	For purposes of averaging data points to determine the Δc for the 14-day average high sample result, all results measured under the method detection limit must use the method detection limit. For purposes of averaging data points for the 14-day average low sample result, all results measured under the method detection limit must use zero	Y	
Appendix Table 1	Hazardous Air Pollutants	Y	
Appendix Table 6	General Provisions Applicability to Subpart CC	Y	
Appendix Table 11	Compliance Dates and Requirements	Y	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

Table IV – WWW
Source-specific Applicable Requirements
FACILITY

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
40 CFR Part 63 Subpart DDDDD	**NESHAP Subpart DDDDD Industrial, Commercial, and Institutional Boilers and Process Heaters (11/20/2015)**		
63.7485	Applicable to boilers and heaters located at a major source of HAP emissions	Y	
63.7490(a)	Applicable to any new or reconstructed industrial boiler or process heater	Y	
63.7490(a)(2)	The affected source is each new or reconstructed source at a major source;	Y	
63.7490(b)	A boiler or process heater is new if construction commences after June 4, 2010 and meets the applicability criteria for construction	Y	
63.7490(c)	A boiler or process heater is reconstructed if reconstruction commences after June 4, 2010 and meets the applicability criteria for reconstruction	Y	
63.7491	Boilers or process heaters not subject to this subpart	Y	
63.7495(a)	Comply with the requirements for new or reconstructed boilers and process heaters upon startup	Y	
63.7495(d)	Meet the notification requirements according to 63.7545 and 40 CFR Part 63, Subpart A	Y	
63.7499	Subcategories of boiler and process heaters	Y	
63.7499(l)	Units designed to burn gas 1 fuels	Y	
63.7500	Emission limitations, work practice standards, and operating limits	Y	
63.7500(a)	Meet the requirements in paragraphs (a)(1) through (3) except as provided in (b) through (e)	Y	
63.7500(a)(1)	Meet each emission limit and work practice standards in Tables 1 through 3, and 11 through 13.	Y	
63.7500(a)(2)	For new or reconstructed boiler or process heater, comply with each operating limit in Table 4 that applies to the affected source.	Y	
63.7500(a)(3)	At all times operate and maintain any affected source including associated air pollution control equipment and monitoring equipment in a manner consistent with safety and good air pollution control practices for minimizing emissions	Y	
63.7500(b)	For new or reconstructed boilers or process heaters, EPA may approve use of an alternative work practice standard	Y	
63.7500(c)	For new or reconstructed boilers or process heaters, limited-use boilers and process heaters must complete a tune-up every 5 years and are not subject to Tables 1 and 2 or 11 through 13, the annual tune-up, or the energy assessment requirements in Table 3 or the operating limits in Table 4	Y	
63.7500(e)	Boilers and process heaters designed to burn gas 1 fuels subcategory: - With a heat input capacity of less than or equal to 5 MMBtu/hr designed to burn gas 1 fuels subcategory must	Y	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

Table IV – WWW
Source-specific Applicable Requirements
FACILITY

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	complete a tune-up every 5 years. - With a heat input capacity greater than 5 and less than 10 MMBtu/hr must complete a tune-up every 2 years. - Are not subject to the emission limits in Tables 1 and 2 or 11 through 13, or the operating limits in Table 4		
63.7500(f)	For new or reconstructed boilers or process heaters, the standards apply at all time the affected unit is operating, except during periods of startup and shutdown during which time you must comply only with Table 3	Y	
63.7505	General requirements for compliance	Y	
63.7505(a)	Comply with the applicable emission limits, work practice standards, and operating limits at all times of operation except for the periods noted in 63.7500(f)	Y	
63.7505(c)	For new or reconstructed boilers or process heaters, comply with all applicable emission limits using the specified method	Y	
63.7505(d)	For new or reconstructed boilers or process heaters, compliance with an applicable emission limit through performance testing and subsequent compliance with operating limits with a CMS requires a site-specific monitoring plan as defined by paragraphs (d)(1) through (4) for the use of any CMS.	Y	
63.7510	Initial compliance requirements and dates	Y	
63.7510(a)	Initial compliance requirements for new or reconstructed boilers or process heaters demonstrating through performance testing	Y	
63.7510(b)	Initial compliance requirements for new or reconstructed boilers or process heaters demonstrating through fuel analysis	Y	
63.7510(c)	Initial compliance requirements for new or reconstructed boilers or process heaters demonstrating through performance testing for CO limit	Y	
63.7510(d)	Initial compliance requirements for new or reconstructed boilers or process heaters demonstrating through performance testing for PM limit	Y	
63.7510(f)	For new or reconstructed boilers or process heaters complete initial compliance demonstration with applicable emission limit within 180 days after startup of the source	Y	
63.7510(g)	For new or reconstructed boilers or process heaters complete initial compliance demonstration with applicable work practice standards in Table 3 within the applicable annual, biennial, or 5-year schedule following the initial compliance date specified in 63.7495(a), thereafter complete the tune-up as specified by 63.7515(d)	Y	
63.7515	Subsequent performance tests, fuel analyses, and tune-up requirements	Y	
63.7515(a)	Annual performance test frequency for new or reconstructed boilers	Y	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

Table IV – WWW
Source-specific Applicable Requirements
FACILITY

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	or process heaters		
63.7515(b)	Allowance for reduced frequency of performance tests for new or reconstructed boilers or process heaters	Y	
63.7515(c)	Provisions to revert back to annual frequency of performance tests for new or reconstructed boilers or process heaters	Y	
63.7515(d)	Conduct applicable tune-up work practice on an annual, biennial, or 5-yr basis according to 63.7540(a)(10), (11), or (12). For each new or reconstructed boiler or process heater: - The first annual, biennial, or 5-year tune-up must be no later than 13 months, 25 months, or 61 months, respectively, after initial startup	Y	
63.7515(e)	Monthly fuel analysis compliance option frequency for new or reconstructed boilers or process heaters	Y	
63.7515(f)	Reporting requirements for performance test and fuel analyses for new or reconstructed boilers or process heaters	Y	
63.7515(i)	Special allowances for new or reconstructed boilers or process heaters demonstrating compliance with a CO CEMS	Y	
63.7520	Stack tests and procedures for new or reconstructed boilers or process heaters	Y	
63.7521	Fuel analyses, fuel specifications, and procedures for new or reconstructed boilers or process heaters	Y	
63.7522	Emissions averaging compliance options for new or reconstructed boilers or process heaters	Y	
63.7525	Monitoring, installation, operation, and maintenance requirements	Y	
63.7525(a)	CO and O2 monitoring requirements for new or reconstructed boilers or process heaters	Y	
63.7525(c)	Monitoring requirements for new or reconstructed boilers or process heaters with an applicable opacity operating limit	Y	
63.7525(d)	Monitoring requirements for new or reconstructed boilers or process heaters with an applicable operating limit that requires the use of a CMS other than a PM CPMS or COMS	Y	
63.7525(e)	Monitoring requirements for new or reconstructed boilers or process heaters with an applicable operating limit that requires the use of a flow monitoring system	Y	
63.7525(f)	Monitoring requirements for new or reconstructed boilers or process heaters with an applicable operating limit that requires the use of a pressure monitoring system	Y	
63.7525(g)	Monitoring requirements for new or reconstructed boilers or process heaters with an applicable operating limit that requires the use of a pH monitoring system	Y	
63.7525(k)	Recordkeeping requirements for new or reconstructed boilers or process heaters that meet the definition of limited-use boiler or	Y	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

Table IV – WWW
Source-specific Applicable Requirements
FACILITY

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	process heater		
63.7525(l)	Monitoring requirements for new or reconstructed boilers or process heaters with an applicable mercury or HCl emissions limit with a CEMS	Y	
63.7525(m)	Monitoring requirements for new or reconstructed boilers or process heaters with an applicable mercury or HCl emissions limit with control technology and an SO2 CEMS	Y	
63.7530	Initial compliance demonstration with emission limits, fuel specifications and work practice standards for new or reconstructed boilers or process heaters subject to emission limits	Y	
63.7533	Use of efficiency credits for compliance for new or reconstructed boilers or process heaters	Y	
63.7535	Minimum monitoring data requirements for new or reconstructed boilers or process heaters with CMS	Y	
63.7540	Continuous compliance demonstration requirements for emission limits, fuel specifications, and work practice standards	Y	
63.7540(a)	Continuous compliance requirements for emission limits, work practice standards, and operating limits	Y	
63.7540(a)(1)	Continuous compliance requirements for new or reconstructed boilers or process heaters with operating limits	Y	
63.7540(a)(2)	Continuous compliance requirements for new or reconstructed boilers or process heaters electing fuel analysis options	Y	
63.7540(a)(7)	Continuous compliance requirements for new or reconstructed boilers or process heaters electing fabric filter compliance options	Y	
63.7540(a)(8)	Continuous compliance requirements for new or reconstructed boilers or process heaters with CO CEMS emission limits	Y	
63.7540(a)(9)	Continuous compliance requirements for new or reconstructed boilers or process heaters with PM CPMS or PM CEMS compliance option	Y	
63.7540(a)(10)	Continuous compliance requirements for new or reconstructed boilers or process heaters with heat input greater than 10 MMBtu/hr, conduct an annual tune-up as specified in (a)(10)(i) through (vi), excluding limited-use sources or units with a continuous O2 trim system used to maintain optimum air to fuel ratio	Y	
63.7540(a)(10)(i)	-- Inspect the burner and clean or replace any components of the burner as necessary	Y	
63.7540(a)(10)(ii)	-- Inspect the flame pattern and adjust as necessary to optimize the flame pattern. Adjustments should be consistent with manufacturer's specifications	Y	
63.7540(a)(10)(iii)	-- Inspect the system controlling the air-to-fuel ratio, as applicable, and ensure that it is correctly calibrated and functioning properly (inspection may be delayed until the next scheduled unit shutdown)	Y	
63.7540(a)(10)(iv)	-- Optimize total emissions of CO consistent with any applicable manufacturer's specifications and any applicable NOx requirements	Y	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

Table IV – WWW
Source-specific Applicable Requirements
FACILITY

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.7540(a)(10)(v)	-- Measure concentration of CO in the effluent stream in ppm, by volume, and oxygen in volume percent, before and after adjustments are made. Measurements may be taken using a portable CO analyzer.	Y	
63.7540(a)(10)(vi)	-- Maintain on-site and submit, if requested by EPA, an annual report containing the following information:	Y	
63.7540(a)(10)(vi)(A)	-- The concentrations of CO in the effluent stream in ppm by volume, and oxygen in volume percent, measured at high fire or typical operating load, before and after the tune-up	Y	
63.7540(a)(10)(vi)(B)	-- A description of any corrective actions taken as part of the tune-up	Y	
63.7540(a)(11)	Continuous compliance requirements for boilers or process heaters with heat input less than 10 MMBtu/hr, conduct a biennial tune-up as specified in (a)(10)(i) through (vi)	Y	
63.7540(a)(12)	Continuous compliance requirements for new or reconstructed boilers or process heaters with a continuous O2 trim system, or boilers or process heaters with heat input less than 5 MMBtu/hr, conduct a tune-up every 5 years as specified in (a)(10)(i) through (vi)	Y	
63.7540(a)(13)	If the unit is not operating on the date for a tune-up, the tune-up must be conducted within 30 calendar days of startup	Y	
63.7540(a)(14)	Continuous compliance requirements for new or reconstructed boilers or process heaters with a CEMS for mercury	Y	
63.7540(a)(15)	Continuous compliance requirements for new or reconstructed boilers or process heaters with a CEMS for HCl	Y	
63.7540(a)(18)	Continuous compliance requirements for new or reconstructed boilers or process heaters with a PM CPMS	Y	
63.7540(a)(19)	Continuous compliance requirements for new or reconstructed boilers or process heaters with a PM CEMS	Y	
63.7540(b)	Continuous reporting requirements for new or reconstructed boilers or process heaters subject to emission limits	Y	
63.7540(c)	Continuous compliance requirements for new or reconstructed boilers or process heaters subject to the mercury requirements for gas 1 subcategory fuels	Y	
63.7540(d)	For startup and shutdown, meet the work practice standards according to Items 5 and 6 of Table 3	Y	
63.7541	Continuous compliance demonstration requirements for new or reconstructed boilers or process heaters subject to the emissions averaging provisions	Y	
63.7545	Notifications	Y	
63.7545(a)	Submit all notifications in 63.7(b) and (c), 63.8(e), (f)(4) and (6), and 63.9(b) through (h) that apply by the specified dates	Y	
63.7545(c)	For new or reconstructed sources, submit an Initial Notification no later than 15 days after the actual startup date	Y	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

Table IV – WWW
Source-specific Applicable Requirements
FACILITY

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.7545(d)	For new or reconstructed sources required to conduct a performance test, submit a Notification of Intent at least 60 days before the test is scheduled to begin	Y	
63.7545(e)	For new or reconstructed sources required to conduct an initial compliance demonstration, submit a Notification of Compliance Status according to 63.9(h)(2)(ii) before the close of business on the 60th day following compliance of all performance tests and/or compliance demonstrations. The Notice must contain all the information in (e)(1) through (8), as applicable	Y	
63.7545(e)(1)	A description of the affected units, including identification of the fuel subcategory, the design heat input capacity, and the fuel burned	Y	
63.7545(e)(2)	For new or reconstructed process heaters or boilers, a summary of the results of all applicable performance tests and fuel analyses, and calculations conducted to demonstrate initial compliance	Y	
63.7545(e)(3)	For new or reconstructed process heaters or boilers, a summary of the applicable maximum CO emission levels recorded during performance testing	Y	
63.7545(e)(4)	For new or reconstructed process heaters or boilers, identification of whether compliance was demonstrated through performance testing, a CEMS, or fuel analysis	Y	
63.7545(e)(5)	For new or reconstructed process heaters or boilers, identification of whether compliance was demonstrated through emissions averaging or use of efficiency credits	Y	
63.7545(e)(6)	For new or reconstructed process heaters or boilers, a signed certification of compliance with all applicable emission limits and work practice standards	Y	
63.7545(e)(7)	For new or reconstructed process heaters or boilers, a description of any deviation from any work practice standard or operating limit	Y	
63.7545(e)(8)	In addition to the information in 63.9(h)(2), the NOCS must include the following certifications of compliance and signed by a responsible official:	Y	
63.7545(e)(8)(i)	"This facility complies with the required initial tune-up according to the procedures in 63.7540(a)(10)(i) through (vi)."	Y	
63.7545(e)(8)(ii)	"This facility has had an energy assessment performed according to 63.7530(e)."	Y	
63.7550	Reports	Y	
63.7550(a)	Submit each report in Table 9 that applies	Y	
63.7550(b)	Submit each report by the date in Table 9 and according to paragraphs (b)(1) through (4). For units only subject to tune-up requirements and not subject to emission or operating limits, submit a tune-up compliance report as specified in (b)(1) through (4), instead of a report	Y	
63.7550(c)	Each compliance report must contain the information in (c)(1)	Y	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

Table IV – WWW
Source-specific Applicable Requirements
FACILITY

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	through (5) depending upon the facility chooses to comply		
63.7550(d)	For each new or reconstructed boiler or process heater subject to an emission or operating limit, submit a compliance report for each deviation from a limit including the information in (d)(1) through (3)	Y	
63.7550(e)	For each new or reconstructed boiler or process heater subject to an emission, operating limit, or monitoring requirement where a CMS is used, submit a compliance report for each deviation including the information in (e)(1) through (9)	Y	
63.7550(h)	Submit the reports according to the electronic reporting procedures for use of EPA's WebFIRE, CEDRI, and CDX interface as specified in (h)(1) through (3)	Y	
63.7550(h)(1)	EPA WebFIRE, CEDRI, and CDX reporting requirements	Y	
63.7550(h)(2)	EPA WebFIRE, CEDRI, and CDX reporting requirements for new or reconstructed boilers subject to CEMS performance evaluation tests	Y	
63.7550(h)(3)	EPA WebFIRE, CEDRI, and CDX reporting requirements for reports required by Table 9, or if reporting form is not yet available, submit the report to the address listed in 63.13	Y	
63.7555	Recordkeeping Requirements	Y	
63.7555(a)	Keep records according to paragraphs (a)(1) and (2) of this section	Y	
63.7555(a)(1)	A copy of each notification and report submitted to comply with this subpart, including all documentation supporting any Initial Notification or Notification of Compliance Status or compliance report that you submitted according to the requirements of 63.10(b)(2)(xiv)	Y	
63.7555(a)(2)	Records of performance tests, fuel analyses, or other compliance demonstrations and performances evaluations as required in 63.10(b)(2)(viii)	Y	
63.7555(b)	Records for each CEMS, COMS, or CMS for new or reconstructed process heaters or boilers	Y	
63.7555(c)	Records of monitoring data and calculated averages for applicable operating limits for new or reconstructed process heaters or boilers	Y	
63.7555(d)	Records to demonstrate compliance with applicable emission limits for new or reconstructed process heaters or boilers	Y	
63.7555(e)	Records to demonstrate compliance with emissions averaging for new or reconstructed process heaters or boilers	Y	
63.7555(f)	Records to demonstrate use of efficiency credits for new or reconstructed process heaters or boilers	Y	
63.7555(g)	Records to demonstrate compliance with the mercury specification for new or reconstructed process heaters or boilers	Y	
63.7560	Record Retention Requirements	Y	
63.7560(a)	Records must be in a form suitable and readily available for review according to 63.10(b)(1)	Y	
63.7560(b)	Keep records for 5 years following the date of each occurrence,	Y	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

Table IV – WWW
Source-specific Applicable Requirements
FACILITY

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	measurement, maintenance, corrective action, report, or record.		
63.7560(c)	Keep records on site, or they must be accessible from on site (e.g., through a computer network), for at least 2 years. Records can be kept off site for the remaining 3 years	Y	
63.7565	Applicability of General Provisions (Table 10)	Y	
63.7575	Definition: Subpart DDDDD is applicable to boilers and process heaters as defined by 63.7575	Y	
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 – XXX
Source-specific Applicable Requirements
EXEMPT TANKS

S1-Tank 1, S2-Tank 2, S8-Tank 8, S10-Tank 10, S25-Tank 25, S49-Tank 49, S50-Tank 50, S53-Tank 53, S130-Tank 130, S145-Tank 145, S146-Tank 146, S147-Tank 147, S148-Tank 148 S149-Tank 149, S222-Tank 222, S258-Tank 258, S263-Tank 263, S267-Tank 267, S332-Tank 332, S334-Tank 334, S335-Tank 335, S336-Tank 336, S337-Tank 337, S356-Tank 356, S393-Tank 393, S394-Tank 394, S400-Tank 400, S401-Tank 401, S419-Tank 419, S467-Tank 467, S468-Tank 468, S475-Tank 475 S476-Tank 476, S477-Tank 477, S478-Tank 478, S485-Tank 485, S536-Tank 536 S537-Tank 537, S597-Tank 597, S608-Tank 608, S609-Tank 609, S713-Tank 713, S714-Tank 714, S806-Tank 806, S833-Tank 833 S834-Tank 834, S835-Tank 835, S839-Tank 839, S850-Tank 850, S851-Tank 851, S869-Tank 869, S879-Tank 879, S888-Tank 888, S890-Tank 890, S902-Tank 902, S903-Tank 903, S929-Tank 929, S932-Tank 932, S933-Tank 933, S934-Tank 934, S935-Tank 935, S953-Tank 953, S954-Tank 954, S955-Tank 955, S956-Tank 956 S959-Tank 959, S962-Tank 962, S965-Tank 965, S966-Tank 966, S968-Tank 968, S980-Tank 980 (Butane Sphere), S981-Tank 981, S987-Tank 987, S988-Tank 988, S1003-Tank 1003, S1012-Tank 1012, S1020-Tank 1020, S1027-Tank 1027 S1032-Tank 1032, S1034-Tank 1034, S1047-Tank 1047 (Butane Sphere), 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, S1062-Tank 1062, S1066-Tank 1066, S1068-Tank 1068, S1069-Tank 1069, S1073-Tank 1073, S1081-Tank 1081, S1084-Tank 1084, S1112-Tank 1112, S1125-Tank 1125, 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, S1174-Tank 1174, S1175-Tank 1175, S1190-Tank 1190, S1231-Tank 1231 Fresh DEA, S1347-Tank 1347, S1348-Tank 1348, S1780- Tank 1338 Butane Sphere, S1781- Tank 1341 Propane Bullet, S2006-Tank 906 Caustic Service, S5123-LOG V-15115 Standby Proto Vessel, S5124-LOG V-15116 Standby Proto Vessel, S12166-Tank 12166

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 8, Rule 5	**Organic Compounds, Storage of Organic Liquids (10/18/06)**		
8-5-117	Exemption, Low Vapor Pressure	N	
SIP · Regulation 8, Rule 5	**Storage of Organic Liquids (06/05/03)**		
8-5-117	Exemption, Low Vapor Pressure	Y	
NESHAP 40 CFR 63 Subpart CC	**NESHAP for Petroleum Refineries** **REQUIREMENTS FOR RECORDKEEPING ONLY – GROUP 2 TANKS (7/13/16)** **(Does not apply to: S485, S850, S851, S980, S1047, S1149, S1150, S1151, S1152, S1153, S1154, S1175, S1190, S1780, S1781, S2006, S5123, S5124, and S12166)**		
The tanks in this table will be subject to the provisions of 40 CFR 63.646 and the referenced requirements of 40 CFR 63, Subpart G until compliance with 40 CFR 63.660 and the referenced requirements contained in 40 CFR 63, Subpart WW is demonstrated, as specified in 40 CFR 63.640(h), 63.660, and 63.1063			
63.642(e)	**General recordkeeping requirements:** 63.642(e) & 63.655(i)(6) **keep all other records 5 years, retrievable within 24 hr**	Y	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

Table IV – XXX
Source-specific Applicable Requirements
EXEMPT TANKS

S1-Tank 1, S2-Tank 2, S8-Tank 8, S10-Tank 10, S25-Tank 25, S49-Tank 49, S50-Tank 50, S53-Tank 53, S130-Tank 130, S145-Tank 145, S146-Tank 146, S147-Tank 147, S148-Tank 148 S149-Tank 149, S222-Tank 222, S258-Tank 258, S263-Tank 263, S267-Tank 267, S332-Tank 332, S334-Tank 334, S335-Tank 335, S336-Tank 336, S337-Tank 337, S356-Tank 356, S393-Tank 393, S394-Tank 394, S400-Tank 400, S401-Tank 401, S419-Tank 419, S467-Tank 467, S468-Tank 468, S475-Tank 475 S476-Tank 476, S477-Tank 477, S478-Tank 478, S485-Tank 485, S536-Tank 536 S537-Tank 537, S597-Tank 597, S608-Tank 608, S609-Tank 609, S713-Tank 713, S714-Tank 714, S806-Tank 806, S833-Tank 833 S834-Tank 834, S835-Tank 835, S839-Tank 839, S850-Tank 850, S851-Tank 851, S869-Tank 869, S879-Tank 879, S888-Tank 888, S890-Tank 890, S902-Tank 902, S903-Tank 903, S929-Tank 929, S932-Tank 932, S933-Tank 933, S934-Tank 934, S935-Tank 935, S953-Tank 953, S954-Tank 954, S955-Tank 955, S956-Tank 956 S959-Tank 959, S962-Tank 962, S965-Tank 965, S966-Tank 966, S968-Tank 968, S980-Tank 980 (Butane Sphere), S981-Tank 981, S987-Tank 987, S988-Tank 988, S1003-Tank 1003, S1012-Tank 1012, S1020-Tank 1020, S1027-Tank 1027 S1032-Tank 1032, S1034-Tank 1034, S1047-Tank 1047 (Butane Sphere), 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, S1062-Tank 1062, S1066-Tank 1066, S1068-Tank 1068, S1069-Tank 1069, S1073-Tank 1073, S1081-Tank 1081, S1084-Tank 1084, S1112-Tank 1112, S1125-Tank 1125, 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, S1174-Tank 1174, S1175-Tank 1175, S1190-Tank 1190, S1231-Tank 1231 Fresh DEA, S1347-Tank 1347, S1348-Tank 1348, S1780- Tank 1338 Butane Sphere, S1781- Tank 1341 Propane Bullet, S2006-Tank 906 Caustic Service, S5123-LOG V-15115 Standby Proto Vessel, S5124-LOG V-15116 Standby Proto Vessel, S12166-Tank 12166

Applicable Requirement	Regulation Title or Description of Requirement		Federally Enforceable (Y/N)	Future Effective Date
	General recordkeeping requirements: Keep all reports and notification for the specified period of time.	63.642(e) & 63.655(i)(6) **required**	Y	
63.655(i)	**Applicability records:** Time period for keeping records of applicability determination, unless specified otherwise.	63.655(i)(1) 63.123(a) **Keep record readily accessible for the service life of the tank**	Y	
	Applicability records: Records of dimensions & capacity required for non-exempt tanks?	63.655(i)(1) 63.123(a) **Required Keep record readily accessible for service life of the tank** *	Y	
	Applicability records: Additional recordkeeping requirements for certain tanks.	63.655(i)(1)(iv) and (vi) **determination of HAP content Keep record readily accessible for service life of the tank**	Y	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

Table IV – YYY
Source-specific Applicable Requirements
S6061 – FLEXICOKER UNIT (FXU) TRANSLOADING

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 6 Rule 1	**Particulate Matter – General Requirements (08/01/18)**		
6-1-301	Ringelmann No. 1 Limitation	N	
6-1-305	Visible Particles	N	
6-1-310	Total Suspended Particulate (TSP) Concentration Limits	N	
6-1-311	Total Suspended Particulate (TSP) Weight Limits	N	
6-1-401	Appearance of Emissions	N	
SIP Regulation 6	**Particulate Matter and Visible Emissions (9/4/98)**		
6-301	Ringelmann No. 1 Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particulate Weight Limitation	Y	
6-311	General Operations (process weight rate limitation)	Y	
6-401	Appearance of Emissions	Y	
BAAQMD Condition # 21671			
Part 1	Abatement Requirement [basis: Regulation 6-1-301]	N	
Part 2	Annual throughput limit [basis: Cumulative Increase]	Y	
Part 3	Recordkeeping Requirements [basis: Regulation 2-6-501]	Y	

Table IV – ZZZ
Source-specific Applicable Requirements
S6068, TANK

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
NESHAP 40 CFR 63 Subpart CC	**NESHAP for Petroleum Refineries REQUIREMENTS FOR RECORDKEEPING ONLY – GROUP 2 TANKS (7/13/16)**		

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

Table IV – ZZZ
Source-specific Applicable Requirements
S6068, TANK

Applicable Requirement	Regulation Title or Description of Requirement		Federally Enforceable (Y/N)	Future Effective Date
The tanks in this table will be subject to the provisions of 40 CFR 63.646 and the referenced requirements of 40 CFR 63, Subpart G until compliance with 40 CFR 63.660 and the referenced requirements contained in 40 CFR 63, Subpart WW is demonstrated, as specified in 40 CFR 63.640(h), 63.660, and 63.1063				
63.642(e)	**General recordkeeping requirements:** Time period for keeping records, unless specified otherwise.	63.642(e) & 63.655(i)(6) **keep all other records 5 years, retrievable within 24 hr**	Y	
	General recordkeeping requirements: Keep all reports and notification for the specified period of time.	63.642(e) & 63.655(i)(6) **required**	Y	
63.655(i)	**Applicability records:** Time period for keeping records of applicability determination, unless specified otherwise.	63.655(i)(1) 63.123(a) **Keep record readily accessible for the service life of the tank**	Y	
	Applicability records: Records of dimensions & capacity required for non-exempt tanks?	63.655(i)(1) 63.123(a) **Required Keep record readily accessible for service life of the tank** *	Y	
	Applicability records: Additional recordkeeping requirements for certain tanks.	63.655(i)(1)(iv) and (vi) **determination of HAP content Keep record readily accessible for service life of the tank**	Y	
BAAQMD Condition # 18618				
Part 1	Throughput limit (basis: Regulation 2-1-234.3, 2-1-307)		N	
Part 2	Recordkeeping (basis: Regulation 2-1-234.3, 2-1-307)		N	
BAAQMD Condition # 23605				
Part 1	Throughput limit (Basis: Cumulative increase, Regulation 2, Rule 5)		Y	
Part 2	Loading rates and temperature requirements (Basis: Regulation 2-1-403)		Y	
Part 3	Storage restriction (Basis: Regulation 2-1-305)		N	
Part 4	Pre-startup and Post-startup requirements (Basis: 6-310 and 40 CFR 60, Subpart UU, Section 60.472(c))		Y	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

Table IV – ZZZ
Source-specific Applicable Requirements
S6068, TANK

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 5	Opacity limitation (Basis: 40 CFR 60, Subpart UU, Section 60.472 (c))	Y	
Part 6	Procedures for demonstrating initial compliance with NSPS UU opacity limit using EPA Method 9 and the procedures in 40 CFR 60.11. (Basis: 40 CFR 60, Subpart UU, Section 60.474(c)(5))	Y	
Part 7	Procedures for demonstrating ongoing compliance with NSPS UU opacity limit using EPA Method 22. (Basis: BAAQMD Regulation 2-6-409.2.2, 2-6-503)	N	
Part 8	Recordkeeping requirements. (Basis: Cumulative Increase, Regulation 2, Rules 5 and 6)	Y	

Table IV – AAAA
Source-specific Applicable Requirements
BIOTREATERS & BIOCLARIFIERS
S1467 (ETP 1), S5117 THROUGH S5119 (ETP 2), AND S7000 (ETP 3)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 8 Rule 8	**Organic Compounds, Wastewater Collection and Separation Systems (09/15/2004)**		
8-8-113	Exemption, Secondary Wastewater Treatment Processes and Stormwater Sewer Systems	N	
SIP Regulation 8 Rule 8	**Organic Compounds, California Wastewater (Oil-Water) Separators (08/29/1994)**		
8-8-113	Exemption, Secondary Wastewater Treatment Processes and Stormwater Sewer Systems	Y	
BAAQMD Condition # 18618	S7000 only		
Part 1	Throughput limit (basis: Regulation 2-1-234.3, 2-1-307)	N	
Part 2	Recordkeeping (basis: Regulation 2-1-234.3, 2-1-307)	N	
BAAQMD Condition # 24795	S7000 Only		

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

Table IV – AAAA
Source-specific Applicable Requirements
BIOTREATERS & BIOCLARIFIERS
S1467 (ETP 1), S5117 THROUGH S5119 (ETP 2), AND S7000 (ETP 3)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 1	POC emissions limitations [Basis: Cumulative Increase, Offsets]	Y	
Part 2	Sampling influent POC concentration [Basis: Offsets, Cumulative Increase]	Y	
Part 3	POC emission calculation methodology [Basis: Cumulative Increase, Recordkeeping, Regulation 2-6-502]	Y	
Part 4	Monthly Recordkeeping [Basis: Cumulative Increase, Recordkeeping]	Y	

Table IV - BBBB
Source-Specific Applicable Requirements
S1466: LOG Wastewater Pond 8
S1468: LOG Wastewater Pond 6
S2014: Final ETP 1 & 2 Wastewater Equalization Ponds

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 8 Rule 8	**Wastewater Collection and Separation Systems (09/15/2004)**		
8-8-113	Exemption, Secondary Wastewater Treatment Processes and Stormwater Sewer Systems	N	
8-8-114	Exemption, Bypassed Oil-Water Separator or Air flotation Influent	Y	
8-8-501	API Separator or Air Flotation Bypassed Wastewater Records	N	
8-8-601	Wastewater Analysis for Critical Organic Compounds	N	
SIP · Regulation 8 Rule 8	**Organic Compounds, California Wastewater (Oil-Water) Separators (08/29/1994)**		
8-8-501	API Separator or Air Flotation Bypassed Wastewater Records	Y	
8-8-601	Wastewater Analysis for Critical Organic Compounds	Y	
NESHAP 40 CFR 61Subpart FF; BAAQMD	**National Emission Standard for Benzene Waste Operations (12/04/03); BAAQMD National Emission Standard for Benzene Emissions, From Benzene Transfer Operations, and Benzene Waste Operations (01/25/94) Requirements for benzene wastewater diverted to S-2014**		

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

Table IV - BBBB
Source-Specific Applicable Requirements
S1466: LOG Wastewater Pond 8
S1468: LOG Wastewater Pond 6
S2014: Final ETP 1 & 2 Wastewater Equalization Ponds

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Regulation 11 Rule 12			
61.342(e)	Standards: General; Compliance option – Treat to 6 or 6BQ Option	Y	
61.342(e)(2)	Standards: General; Treatment of waste with a flow-weighted annual average water content of 10% or more by volume.	Y	
61.342(e)(2)(i)	Requirements for treating aqueous wastes (greater than 10% water) for compliance with 61.342(e) compliance option;	Y	
61.342(e)(2)(ii)	Standards: General; Determine 61.342(e)(2) benzene quantity in each uncontrolled aqueous waste stream per 61.355(k)	Y	
61.355(k)(1)	Target Benzene Quantity in waste streams not controlled for air emissions – use 61.355(a) methods	Y	
61.356(b)	Recordkeeping Requirements: Waste Stream records	Y	
61.356(b)(4)	Recordkeeping Requirements: Waste Stream records; records for streams controlled under 61.342(e)	Y	
NESHAP 40 CFR 63 Subpart CC	**NESHAPS for Petroleum Refineries (07/13/16)**		
63.640(c)(3)	Wastewater streams and treatment operations associated with petroleum refining process units meeting the criteria of section 63.640(a)	Y	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

Table IV – CCCC
Source-specific Applicable Requirements
Summary of Applicable requirements pertaining to fugitive sources

Process Unit	BAAQMD Regulation 8 Rule 18 Note 1	NSPS 40 CFR 60, Subpart GGG; BAAQMD Regulation 10- 59 [references NSPS 40 CFR 60 Subpart VV] Note 2	NSPS 40 CFR 60 Subpart GGGa [references NSPS 40 CFR 60 Subpart VVa] Note 3	BAAQMD Regulation 8 Rule 8 Note 4	NSPS 40 CFR 60, Subpart QQQ; BAAQMD Regulation 10- 69 Note 5	NESHAP 40 CFR 61, Subpart J and V BAAQMD Regulation 11 Rule 7 Note 6	NESHAP 40 CFR 61, Subpart FF; BAAQMD Regulation 11, Rule 12 Note 7	NESHAP 40 CFR 63, Subpart CC [40 CFR Part 60 Subpart VV] Note 8
Refinery-wide applicability	**Y**	**Y**	**N**	**Y**	**N**	**N**	**Y**	**Y**
Specific Unit Applicability if not refinery-wide (by exception)								
S4001 DC Delayed Coking Unit	**Y**	**Y**	**N**	**Y**	**Y**	**N**	**Y**	**Y**
S4020 DC Distillate Hydrotreater	**Y**	**Y**	**N**	**Y**	**Y**	**N**	**Y**	**Y**
S4050 DC Catalytic Gas Depentanizer	**Y**	**Y**	**N**	**Y**	**Y**	**N**	**Y**	**Y**
S4080 DC Isomerization Unit	**Y**	**Y**	**N**	**Y**	**Y**	**N**	**Y**	**Y**

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

Table IV – CCCC
Source-specific Applicable Requirements
Summary of Applicable requirements pertaining to fugitive sources

Process Unit	BAAQMD Regulation 8 Rule 18 Note 1	NSPS 40 CFR 60, Subpart GGG; BAAQMD Regulation 10- 59 [references NSPS 40 CFR 60 Subpart VV] Note 2	NSPS 40 CFR 60 Subpart GGGa [references NSPS 40 CFR 60 Subpart VVa] Note 3	BAAQMD Regulation 8 Rule 8 Note 4	NSPS 40 CFR 60, Subpart QQQ; BAAQMD Regulation 10- 69 Note 5	NESHAP 40 CFR 61, Subpart J and V BAAQMD Regulation 11 Rule 7 Note 6	NESHAP 40 CFR 61, Subpart FF; BAAQMD Regulation 11, Rule 12 Note 7	NESHAP 40 CFR 63, Subpart CC [40 CFR Part 60 Subpart VV] Note 8
S4140 Heavy Cracked Gasoline Hydrotreater	Y	Y	N	Y	Y	N	Y	Y
S4160 Hydrogen Plant 3	Y	Y	N	Y	Y	N	Y	Y
S4180 OPCEN Sulfur Plant 4	Y	Y	N	Y	Y	N	Y	Y
S4350 LOG Tank 13187 Process Wastewater	Y	Y	N	Y	Y	N	Y	Y
S4356 LOG Tank 13188 Process Wastewater	Y	Y	N	Y	Y	N	Y	Y
S4210 Cooling Water Tower	Y	Y	N	Y	Y	N	Y	Y
S4190 UTIL Boiler 6 Gas Turbine 1	Y	Y	N	Y	Y	N	Y	Y

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

Table IV – CCCC
Source-specific Applicable Requirements
Summary of Applicable requirements pertaining to fugitive sources

Process Unit	BAAQMD Regulation 8 Rule 18 Note 1	NSPS 40 CFR 60, Subpart GGG; BAAQMD Regulation 10- 59 [references NSPS 40 CFR 60 Subpart VV] Note 2	NSPS 40 CFR 60 Subpart GGGa [references NSPS 40 CFR 60 Subpart VVa] Note 3	BAAQMD Regulation 8 Rule 8 Note 4	NSPS 40 CFR 60, Subpart QQQ; BAAQMD Regulation 10- 69 Note 5	NESHAP 40 CFR 61, Subpart J and V BAAQMD Regulation 11 Rule 7 Note 6	NESHAP 40 CFR 61, Subpart FF; BAAQMD Regulation 11, Rule 12 Note 7	NESHAP 40 CFR 63, Subpart CC [40 CFR Part 60 Subpart VV] Note 8
S4191 UTIL Boiler 6 Supplemental Steam Generator 1	Y	Y	N	Y	Y	N	Y	Y
S4192 UTIL Boiler 6 Gas Turbine 2	Y	Y	N	Y	Y	N	Y	Y
S4193 UTIL Boiler 6 Supplemental Steam Generator 2	Y	Y	N	Y	Y	N	Y	Y
S1426 Catalytic Cracking Unit (CCU)	Y	Y	N	Y	Y	N	Y	Y
S1427 Catalytic Gas Plant (CGP)	Y	Y	N	Y	Y	N	Y	Y

NOTES:

1. The entire refinery is subject to Regulation 8 Rule 18 with exemptions as noted in the Rule. The group of equipment subject to the standards includes valves, pumps, compressors, pressure relief devices, diaphragms, hatches, fittings, sampling ports, pipes, plugs, open-ended lines, gauges and sight-glasses.
2. The entire refinery is subject to NSPS Subpart GGG with exemptions as noted in the rule. The group of equipment subject to the rule includes valves, pumps, pressure relief devices, sampling connection systems, open-ended valve or

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

line and flange or other connector in VOC service.

3. No components in the refinery are currently subject to NSPS Subpart GGGa, which applies to equipment in petroleum refineries for which construction, reconstruction or modification commenced after 11/7/06.
4. This rule applies to wastewater collection and treatment systems throughout the refinery. Wastewater collection system components include structures used to collect and transport wastewater such as process drains, manholes, junction boxes, etc.
5. NSPS Subpart QQQ applies to wastewater system equipment in petroleum refineries for which construction, reconstruction or modification commenced after 5/4/87 including the drain systems installed for the Clean Fuels Units. Applicable requirements and the associated monitoring requirements for individual drain systems subject to NSPS Subpart QQQ are summarized under Table's IV-SSS and VII-UUU, respectively.
6. There is no equipment subject to NESHAP Subpart J or V or BAAQMD Reg 11 Rule 12 because there is no equipment in benzene service as defined in these rules.
7. The entire refinery is subject to Benzene Waste NESHAPs (40 CFR 61 Subpart FF).
8. The entire refinery is subject to NESHAP 40 CFR Part 63 Subpart CC. Equipment leaks subject to Subpart CC are emissions of organic hazardous air pollutants from pumps, compressors, pressure relief devices, sampling connection systems, open-ended valve or lines, or instrumentation systems in organic hazardous air pollutant service as defined in the rule.

Table IV – DDDD
Applicable Requirements
FUGITIVE COMPONENTS (FACILITY-WIDE EXCEPT AS NOTED IN TABLE CCCC)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 8, Rule 8	**Wastewater Collection and Separation Systems (09/15/04)**		
8-8-100	General/Applicability	Y	
8-8-200	Definitions	Y	
8-8-302	Wastewater Separators Larger than or Equal to 18.9 Liters/Sec	Y	
8-8-303	Gauging and Sampling Devices	Y	
8-8-304	Sludge Dewatering Unit	Y	
8-8-305	Oil-Water Separator And/or Air Floatation Unit Slop Oil Vessels	Y	
8-8-307	Air Flotation Unit	Y	
8-8-308	Junction Box	Y	
8-8-312	Controlled Wastewater Collection System Components	Y	
8-8-313	Uncontrolled Wastewater Collection System Components	Y	
8-8-314	New Wastewater Collection System Components	Y	
8-8-402.1	Wastewater Inspection and Maintenance Plan	Y	
8-8-403	Petroleum Refinery Compliance Schedule	Y	
8-8-501	API Separator or Air Flotation Bypassed Wastewater Records	Y	
8-8-502	Wastewater Critical Organic Compound Concentration	Y	
8-8-503	Inspection and Repair Records	Y	
8-8-504	Portable Hydrocarbon Detector	Y	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

Table IV – DDDD
Applicable Requirements
FUGITIVE COMPONENTS (FACILITY-WIDE EXCEPT AS NOTED IN TABLE CCCC)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-8-505	Records for Wastewater Collection System Components	Y	
BAAQMD Regulation 8, Rule 18	**Organic Compounds-Equipment Leaks (12/16/15)**		
8-18-110	Exemption, Controlled Seal Systems and Pressure Relief Devices	N	
8-18-113	Limited Exemption, Initial Boiling Point	N	
8-18-115	Limited Exemption, Storage Tanks	Y	
8-18-116	Limited Exemption, Vacuum Service	Y	
8-18-119	Limited Exemption, Open-ended Valve or Line	N	
8-18-120	Limited Exemption, Non-repairable Equipment	N	
8-18-301	General Standard	Y	
8-18-302	Valves	Y	
8-18-303	Pumps and compressors	Y	
8-18-304	Connections	Y	
8-18-305	Pressure relief devices	N	
8-18-306	Non-repairable equipment	Y	
8-18-307	Liquid Leaks	Y	
8-18-308	Alternate compliance	Y	
8-18-309	Open-ended Valve or Line	N	
8-18-310	Recurrent Leaks	N	
8-18-311	Mass Emissions	N	
8-18-401	Inspection	N	
8-18-402	Identification	N	
8-18-403	Visual inspection schedule	N	
8-18-404	Alternate inspection schedule	N	
8-18-405	Alternate inspection reduction plan	Y	
8-18-406	Interim Compliance	Y	
8-18-407	Recurrent Leak Schedule	N	
8-18-501	Portable Hydrocarbon Detector	Y	
8-18-502	Records	Y	
8-18-503	Reports	N	
SIP Regulation 8, Rule 18	**Organic Compounds – Equipment Leaks (06/05/03)**		
8-18-110	Exemption, Controlled Seal Systems and Pressure Relief Devices	Y	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

Table IV – DDDD
Applicable Requirements
FUGITIVE COMPONENTS (FACILITY-WIDE EXCEPT AS NOTED IN TABLE CCCC)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-18-113	Limited Exemption, Initial Boiling Point	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	
8-18-401	Inspection	Y	
8-18-402	Identification	Y	
8-18-403	Visual Inspection Schedule	Y	
8-18-404	Alternate Inspection Schedule	Y	
8-18-501	Portable Hydrocarbon Detector	Y	
8-18-502	Records	Y	
NSPS 40 CFR 60, Subpart GGG; BAAQMD Regulation 10-59	**Standards of Performance for Equipment Leaks (Fugitive Emission Sources) (06/02/08); BAAQMD Standards of Performance for Equipment Leaks of VOC in Petroleum Refineries (02/16/00) (SEE TABLE IV-RRR)**	Y	
NSPS 40 CFR 60, Subpart QQQ; BAAQMD Regulation 10-69	**Standards of Performance for VOC Emissions From Petroleum Refinery Wastewater Systems (10/17/00); BAAQMD Standards of Performance for Petroleum Refinery Wastewater Systems (02/16/00) (SEE TABLE IV-SSS)**	Y	
NESHAP 40 CFR 63, Subpart CC	**National Emission Standards for Hazardous Air Pollutants from Petroleum Refineries SEE TABLE IV-UUU (7/13/2016)**	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 and refractory materials. The owner/operator may also use this facility to store and/or handle materials that do not result in air emissions, or materials that are exempt from permit requirements, per Regulation 2, Rule 1. Before storing and/or handling any other material which would require a permit, the owner/operator shall apply for, and receive approval of, a modification to S1803 to include the additional material. [basis: Cumulative Increase]

2. Prior to leaving the S1803 OPCEN Coke Corral all vehicles shall have the tires and wheels washed to remove and collect fines any time that coke fines and/or sulfur fines are stockpiled. [basis: Cumulative Increase; Public Nuisances]

3. Visible particulate emissions from all activity at S1803 shall not exceed Ringelmann No. 0.5 (10% opacity), and/or result in fallout on adjacent property in such quantities as to cause annoyance to any other person. [basis: Cumulative Increase]

4. The A1803 Water Spray Sprinklers for OPCEN Coke Corral shall be maintained and shall operate as necessary to meet the limitation of Condition No. 3. [basis: Cumulative Increase]

5. Any stockpiles and/or containers in the S1803 OPCEN Coke Corral (Coke Recovery and Temporary Storage Facility) shall be covered at all times except during periods of when:

   a. material is being added or removed from the stockpile and/or containers,
   b. manual removal of undesirable objects (such gloves, wood) in the material is being conducted, and
   c. samples are being taken from the stockpile and/or container for analyses.

   It may be covered with a tarp or other covering provided no head space where wind

VI. Permit Conditions

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 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 Inside T/T:

1. S1523 shall be abated by A3 whenever S1523 is in operation. [basis: Cumulative Increase]

VI. Permit Conditions

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

VI. Permit Conditions

(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 which shall be available for District inspection for a period of at least 5 years following the date on which such data are recorded.

8. A/C Condition deleted.

9. A leak test shall be conducted on all vessels loading under positive pressure prior to loading more than 20% of the cargo. The leak test shall include all vessel relief valves, hatch covers, butterworth plates, gauging connections, and any other potential leak points. [basis: Regulation 8-44-304]

10. The owner/operator shall not exceed a loading pressure greater than 80% of the lowest relief valve set pressure of the vessel being loaded. [basis: Regulation 8-44-303]

11. All maintenance records required for the vapor recovery system at this facility, which is subject to Regulation 8, Rule 44, shall be kept on site for five years and made available to the District upon request. [basis: Regulation 8-44-501]

12. Alternative Monitoring for H2S

a. For gasoline and finished gasoline component vapors with sulfur specifications, the owner/operator shall obtain a single sample from the gas inlet to the thermal oxidizer using a Gastec #4LL H2S tube. If the gas stream composition changes, or if the gas stream will no longer be required to meet product specifications, then the gas stream must be resubmitted for approval under the alternative monitoring plan.

b. For non-gasoline/non-finished gasoline component vapors mixed with natural gas, where the products have sulfur specifications, the owner/operator shall take a single detector tube sample and submit an alternative monitoring plan similar to the plan for the gasoline and finished gasoline component vapors each time the new product is loaded.

c. For non-gasoline/non-finished gasoline component vapors mixed with natural gas, where the products have no sulfur specifications, the owner/operator shall sample the gas stream at least every two hours while the marine vessel recovery system is processing the vessel vapors to assure that the gas stream complies with the 230 mg/dscm (0.10 gr/dscf or 162 ppmvd) requirement. For each product, the owner/operator may propose a less frequent sampling schedule if the measured H2S concentration is insignificant.
(Basis: Alternate Monitoring Plan)

13. Recordkeeping Requirements for Alternative H2S Monitoring.

VI. Permit Conditions

a. The owner/operator shall record each gas sampling performed pursuant to Section 1.0. Each record shall identify the date and location of sampling.

b. The owner/operator shall maintain records for a period of five (5) years after the generation of such documentation, except this alternative monitoring plan, which shall be kept permanently, or until it has been replaced with a different alternative monitoring plan or five years after the date the marine vapor recory system is permanently taken out of service.
(Basis: Alternate Monitoring Plan)

14. Reporting Requirements for Alternative H2S Monitoring.

The owner/operator shall submit a written report to USEPA within 5 days of exceeding the Subpart J requirement for H2S concentration when loading the products without product sulfur specifications. The report shall include at a minimum the date and location of sampling and the duration of the exceedance.
(Basis: Alternate Monitoring Plan)

Condition # 4298
For S1805, Tank 12038:

1. The annual material throughput for S1805 Tank 12038 shall not exceed 563,000 bbl/year. (Basis: cumulative increase)

2. Source S1805 shall be vented at all times to abatement device A1805, consisting of two 55-gallon minimum capacity activated carbon vessels, arranged in series, except when maintenance or repair of the source cannot be completed without a shutdown of the abatement device. (basis: 40CFR 61, Section 61.343(a) and (b))

3. The owner/operator of this source shall monitor with a photo-ionization detector (PID), flame-ionization detector (FID), or other method approved in writing by the Air Pollution Control Officer at the following locations:

a. At the outlet of the primary carbon vessel in series.
b. At the outlet of the secondary carbon vessel in series.

When using an FID to monitor breakthrough, readings may be taken with and without a carbon filter tip fitted on the FID probe. Concentrations measured with the carbon filter tip in place shall be considered methane for the purpose of these permit conditions. (basis: 40 CFR 61, Section 61.354(d))

4. These monitor readings shall be recorded in a monitoring log at the time they are taken. The monitoring results shall be used to estimate the frequency of carbon

VI. Permit Conditions

change-out necessary to maintain compliance with condition numbers 5 and 6, and shall be conducted on a daily basis. The owner/operator of this source may propose for District review, based on actual measurements taken at the site during operation of the source, that the monitoring schedule be changed based on the decline in organic emissions and/or the demonstrated breakthrough rates of the carbon vessels. Written approval by the District's Permit Services Division must be received by the 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]

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

VI. Permit Conditions

retained for at least five years from the date of entry. This log shall be kept on site and made available to District staff upon request. [basis: Cumulative Increase]

4. The spray booth filters shall be in place when the spray booth is in operation. [basis: Cumulative Increase; Regulation 6-1-301]

Condition # 4364
For S2000, OPCEN Corrosion Inhibitor Injection:

1. Condition deleted.

2. Not more than 90 gallons per day of Corrosion Inhibitor C-135VT shall be injected into the flexigas header. [basis: Cumulative Increase]

3. Condition deleted.

4. The owner/operator shall keep records of the composition and daily usage of corrosion inhibitor to demonstrate compliance with condition number 2. These records shall be maintained for 5 years from date of entry and be made available for District review upon request. [basis: Cumulative Increase]

Condition # 5077
For S1465, LOG Light Oil Products Gross Oil Separator
S1469, LOG API Separator (ETP 1)
S1779, OPCEN CPI Oil/Water Separator

For S1469:

1. The LGO API Separator (ETP1) (S1469) shall not be operated over the design rated capacity of 6000 gpm or the maximum allowable capacity of the unit. [basis: Cumulative Increase]

2. Condition deleted.

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.

VI. Permit Conditions

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.

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]

VI. Permit Conditions

Condition # 6503
For S2013, Tank 12467:

1. Total throughput for the external floating roof tank (S2013) shall not exceed 27,000,000 barrels during any consecutive 12 months period. [basis: Cumulative Increase]

2. Only unleaded gasoline shall be stored in S2013. [basis: Cumulative Increase, Toxics]
3. To demonstrate compliance with the above conditions, the following records shall be kept on site and made available for District inspection for a period of 5 years from the date on which a record is made.
   a. The material stored.
   b. The monthly throughput.
   [basis: Cumulative Increase, Toxics]

4. Condition deleted.

5. Tank 12467 (S2013) shall be controlled by a liquid-mounted primary seal, and a zero-gap secondary seal. There shall be no ungasketed roof fittings. Except for roof legs, each roof fitting shall be of the design, which yields the minimum roof fitting losses (per EPA Compilation of Air Pollution Emission Factors, AP-42, Supplement E, Section 12.3.2, Table 12.3-11). The following list indicates the type of control required for a variety of typical roof fittings. Control techniques for roof fittings not included in this list shall be subject to District approval, prior to installing the roof on the tank.

Fitting Type	Control Technique
Access hatch	Bolted cover, gasketed
Guide pole / Well	Solid, or Slotted with controls per API 2517 Addendum (See Note 1)
Gauge float well	Bolted cover, gasketed
Gauge hatch /Sample	Weighted mechanical well actuation, gasketed
Vacuum breaker	Weighted mechanical actuation, gasketed
Roof drain	Roof drain does not drain water into product
Roof leg	Fixed; or Adjustable, with vapor seal boot, or gasket between

VI. Permit Conditions

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

VI. Permit Conditions

of typical roof fittings. Control techniques for roof fittings not included in this list shall be subject to District approval.

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 # 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

VI. Permit Conditions

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]

Condition # 7382
S1072, Tank 1072

Condition deleted.
Condition deleted.

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]

VI. Permit Conditions

Condition # 7618
For S14, Tank 14,
S20, Tank 20,
S483, Tank 483
S484, Tank 484
S532, Tank 532
S1067, Tank 1067
S1139, Tank 1139
S1140, Tank 1140
S1141, Tank 1141
S1420, DH Crude Unit

S1480, LUBS F-69 Asphalt Circulation,
S1481, OPCEN F-30 DSU,
S1483, LUBS F-32 Asphalt Circulation,

S1486, DH F-40 CU Feed,
S1487, DH F-41B VFU Feed,
S1488, DH F-41A VFU Feed,
S1490, DH F-43 GOHT Feed
S1491, DH F-44 NHT Feed,
S1492, DH F-45 Primary Column Reboil,
S1493, DH F-46 Stabilizer Reboil,
S1494, DH F-47 Secondary Column Reboil
S1495, DH F-49 CRU Preheat,
S1496, DH F-50 CRU,
S1497, DH F-51 CRU,
S1498, DH F-52 CRU Reboil
S1499, DH F-53 CRU Regen
S1500, DH F-55 SGP Heat Medium
S1502, DH F-57 HCU First Stage Feed
S1503, DH F-58 HCU Second Stage Feed
S1504, DH F-59 HCU Second Stage Reboil
S1505, DH F-60 HP1 Steam Methane Reformer
S1506, CP F-61 CGP Feed,
S1507, UTIL CO Boiler .1
S1508, CP F-63 CFH Feed, S1510 - CP F-66 CCU Preheat,
S1509, UTIL CO Boiler 2
S1510, CP F-66 CCU Preheat,
S1511, CP F-67 CCU LGO Reboil
S1512, UTIL CO Boiler 3
S1515, DH F-71 HCU First Stage Reboil
S1751, Tank 1330
S1752, Tank 1331

VI. Permit Conditions

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)
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)

VI. Permit Conditions

Tables II, III, IV, V, and VIII adjusted for CARB marine fuel sulfur standards, effective upon implementation of California Code of Regulations, Title 17 #93118 (AN 22045, December 2011)

Table II – NOx Baseline reduced by 996 lb/day to reflect BAAQMD Regulation 9-10-307 limit for partial-burn CO boilers (AN 27866)

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 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

VI. Permit Conditions

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.

c. 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).

d. The hydrocarbon baseline profile has been increased by 2300 lb/day due to abatement on tankage (tankage is not included under the cap).

e. The hydrocarbon baseline profile has been decreased by 1543 lb/day due to increases in fugitive emissions from process units.

f. The hydrocarbon baseline profile has been increased by 243 lb/day due to shutdown of chemical plants not under the cap (application 29376).

g. The actual emissions due to shipping in the base year 1977 were added to the adjusted refinery baseline.

h. 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,

VI. Permit Conditions

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 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

VI. Permit Conditions

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.

   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.

VI. Permit Conditions

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 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]

VI. Permit Conditions

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]

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]

VI. Permit Conditions

2. Except during periods of startup and shutdown, while the refinery is processing more than 50 % San Joaquin Valley (SJV) crudes, the H2S concentration of Flexigas shall not exceed 80 ppmv on a daily average, nor 60 ppmv on an annual average. At all other times, except during periods of startup and shutdown, the H2S concentration of the Flexigas shall not exceed 35 ppmv. If the owner/operator can demonstrate that the Flexsorb® cannot achieve the 35 ppmv H2S concentration on the Flexigas while processing less than 50% SJV crudes, the owner/operator may apply to the APCO for re-evaluation and possible revision of this permit condition.
   a. For the purpose of this condition, startup and shutdown of the Flexicoker (S1759) operation shall not exceed 48 hours and 96 hours, respectively.
   b. Flaring of untreated flexigas at the OPC1_FXG Flare (S1771) during startup of the Flexicoker (S1759) shall not exceed 48 hours. SO2 emissions during startup at the OPC1_FXG Flare (S1771) from untreated flexigas burning will not exceed 5 tons per startup. Startup is defined as the period of time between the initiation of feed to the Flexicoker (S1759) and when the Flexsorb Unit (A-751) is online and flexigas composition has stabilized at H2S levels sufficient to meet Condition No. 7618 Part E.2.
   c. Flaring of untreated flexigas at the OPC1_FXG Flare (S1771) during shutdown of the Flexicoker (S1759) shall not exceed 96 hours. SO2 emissions during shutdown at the the OPC1_FXG Flare (S1771) from untreated flexigas burning shall not exceed 8 tons per shutdown. Shutdown is defined as the period of time between the cessation of normal operation of the Flexsorb Unit (A-751) and when flexigas production at the Flexicoker (S1759) ends.
   d. The owner/operator must calculate SO2 emissions for each start-up and shutdown of the Flexicoker (S1759). These startup and shutdown SO2 emissions are to be included in their SO2 cap specified in Table IV of this condition.

[basis: Cumulative Increase]

3. Sulfur content of fuel oil used by tankers larger than 170 MDWEIGHT will not exceed 0.5% (by weight) while discharging crude oil at a rate greater than 35,000 Bbl/hr. [basis: Cumulative Increase]

F. REPORTING

1. The oner/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]

VI. Permit Conditions

G. RECORDS

1. The owner/operator shall make available to the District, upon request, all records relating to the operation of the equipment covered by this permit. [basis: Cumulative Increase]

TABLE I.

Units and Operations to be Included in Audit:

All refinery combustion devices (including flexigas burned in flares)
Dimersol Unit
Hydrogen Plants
Crude Units
CCU
Sulfur Plants and Tail Gas Units
Wharf Operations
Lightering and Ballasting while within District boundaries

VI. Permit Conditions

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); NOx baseline reduced by 7,121 lbs/day under Application 6904.

Adjustment for CARB marine fuel sulfur standards, effective upon implementation of California Code of Regulations, Title 17 §93118). NOx baseline will be reduced 165.1 lb/day for CARB marine fuel standards (AN 22045, December 2011).

Adjustment for BAAQMD Regulation 9-10-307 limit for CO boilers: NOx baseline reduced by 996 lb/day (AN 27866, May 2017).

No. of days	Pounds per day
1	11,433.6
2	10,934.9
3	10,570.8
4	10,434.3
5	10,288.7
6	10,281.4
7	10,234.1
8	10,203.1
9	10,190.4
10	10,183.1
11 to 12	110150.3
13	10,148.5
14	10,146.7
15	10,128.5
16	10,108.5
17	10,103.0
18	10,008.4
19	10,006.5
20	9,968.3
21	9,926.5
22	9,910.1
23	9,891.9
24	9,880.9

No. of days	Pounds per day
25	9,866.4
26	9,857.3
27	9,846.4
28 to 29	9,828.2
30	9,804.5
31	9,764.5
32 to 33	9,759.0
34	9,746.2
35	9,739.0
36	9,733.5
37	9,728.0
38	9,709.8
39	9,698.9
40	9,684.4
41	9,664.3
42	9,657.1
43 to 44	9,651.6
45	9,651.6
46	9,649.8
47	9,635.2
48	9,604.3
49	9,573.3
50	9,566.0

VI. Permit Conditions

No. of days	Pounds per day
51	9,564.2
52	9,553.3
53	9,540.6
54	9,531.5
55 to 56	9,515.1
57	9,504.2
58	9,449.5
59 to 60	9,427.7
61 to 63	9,389.5
64	9,374.9
65 to 67	9,344.0
68	9,336.7
69	9,331.2
70	9,320.3
71	9,309.4
72 to 73	9,302.1
74	9,296.6
75	9,291.2
76	9,283.9
77	9,273.0
78	9,263.9
79 to 80	9,242.0
81	9,240.2
82	9,225.7
83	9,214.7
84	9,207.5
85	9,203.8
86	9,202.0
87	9,183.8
88	9,180.2
89	9,172.9
90	9,163.8
91	9,161.9
92	9,096.4
93 to 94	9,083.7
95 to 96	9,065.5
97	9,009.0
98	8,992.7

No. of days	Pounds per day
99	8,976.3
100	8,932.6
101	8,925.3
102	8,910.8
103	8,894.4
104	8,892.6
105	8,890.7
106	8,845.2
107	8,796.1
108	8,787.0
109 to 110	8,776.1
111	8,763.3
112	8,761.5
113	8,757.9
114	8,745.1
115	8,741.5
116	8,728.7
117	8,726.9
118	8,719.6
119	8,716.0
120	8,714.2
121	8,706.9
122	8,701.4
123	8,697.8
124	8,694.1
125	8,690.5
126	8,679.6
127 to 128	8,666.8
129	8,661.3
130	8,641.4
131	8,639.5
132	8,628.6
133	8,626.8
134	8,614.1
135	8,612.2
136 to 137	8,603.1
138 to 139	8,599.5
140 to 142	8,597.7

VI. Permit Conditions

No. of days	Pounds per day
143	8,584.9
144 to 145	8,583.1
146	8,581.3
147	8,579.5
148	8,577.6
149 to 150	8,572.2
151	8,568.5
152 to 154	8,566.7
155 to 158	8,564.9
159	8,561.3
160	8,559.4
161 to 162	8,546.7
163	8,544.9
164	8,543.1
165	8,539.4
166 to 168	8,535.8
169	8,530.3
170	8,523.0
171	8,519.4
172	8,517.6
173	8,515.8
174 to 176	8,512.1
177	8,504.8
178	8,501.2
179	8,499.4
180	8,493.9
181 to 182	8,492.1
183 to 184	8,490.3
185	8,488.5
186	8,484.8
187 to 188	8,481.2
189 to 200	8,479.4
201 to 202	8,463.0
203	8,461.2
204 to 206	8,457.5
207	8,455.7
208 to 209	8,453.9
210 to 213	8,452.1

No. of days	Pounds per day
214 to 216	8,450.2
217 to 220	8,448.4
221 to 225	8,446.6
226 to 228	8,443.0
229 to 230	8,439.3
231	8,437.5
232	8,433.8
233 to 234	8,430.2
235 to 236	8,424.7
237	8,422.9
238 to 239	8,421.1
240 to 241	8,415.6
242	8,413.8
243	8,412.0
244	8,410.2
245	8,408.4
246 to 247	8,406.5
248	8,402.9
249	8,395.6
250	8,392.0
251 to 252	8,386.5
253	8,384.7
254	8,381.1
255 to 259	8,377.4
260	8,372.0
261 to 278	8,362.9
279	8,351.9
280	8,350.1
281 to 282	8,342.8
283	8,341.0
284 to 285	8,339.2
286 to 290	8,337.4
291 to 294	8,335.6
295 to 297	8,333.7
298 to 301	8,331.9
302 to 304	8,330.1
305 to 308	8,328.3
309 to 312	8,326.5

VI. Permit Conditions

No. of days	Pounds per day
313	8,322.8
314	8,321.0
315	8,293.7
316	8,288.2

No. of days	Pounds per day
317	8,279.1
318	8,275.5
319 to 325	8,260.9
326 to 365	8,246.4

TABLE III.
FACILITY BASELINE PROFILE -- HYDROCARBON EMISSIONS (LB/DAY)

Adjustment for CARB marine fuel sulfur standards, effective upon implementation of California Code of Regulations, Title 17 §93118) POC baseline will be reduced 3.3 lb/day for CARB marine fuel sulfur standards (AN 22045, December 2011).

No. of days	Pounds per day
1	3,207.4
2	3,176.2
3	3,051.4
4	3,020.2
5	2,955.4
6	2,902.6
7	2,825.8
8	2,821.0
9	2,701.0
10	2,413.0
11	2,353.0
12	2,345.3
13	2,292.9
14	2,270.3
15	2,261.8
16	2,227.0
17	2,218.5
18	2,194.0
19	2,187.4
20	2,166.8
21	2,163.7
22	2,162.6
23	2,160.0
24	2,158.4

No. of days	Pounds per day
25	2,157.5
26	2,143.2
27	2,127.6
28	2,119.8
29	2,107.0
30	2,066.2
31	2,066.0
32	2,063.5
33	2,063.3
34	2,052.1
35	2,043.3
36	2,030.3
37	2,028.3
38	2,026.0
39	2,023.5
40	2,014.5
41	2,009.7
42	2,003.0
43	2,002.5
44	2,000.9
45	1,998.8
46	1,996.5
47	1,990.5
48	1,988.6

VI. Permit Conditions

No. of days	Pounds per day
49	1,976.3
50	1,964.1
51	1,962.1
52	1,954.0
53	1,951.0
54	1,946.9
55	1,944.9
56	1,944.4
57	1,940.1
58	1,937.3
59	1,932.6
60	1,929.0
61	1,928.1
62	1,923.3
63	1,920.9
64	1,920.9
65	1,913.7
66	1,906.5
67	1,906.2
68	1,906.1
69	1,904.9
70	1,904.1
71	1,904.1
72	1,901.7
73	1,901.7
74	1,901.0
75	1,900.8
76	1,900.6
77	1,900.3
78	1,900.3
79	1,900.0
80	1,900.0
81	1,899.8
82	1,899.8
83	1,899.7
84	1,899.5
85	1,899.5
86	1,899.3
87	1,899.1
88	1,897.4

No. of days	Pounds per day
89	1,895.9
90	1,893.2
91	1,893.0
92	1,889.7
93	1,886.2
94	1,885.2
95	1,884.5
96	1,883.3
97	1,882.3
98	1,879.1
99	1,877.7
100	1,876.3
101	1,875.5
102	1,875.3
103	1,873.9
104	1,872.9
105	1,865.7
106	1,863.3
107	1,856.3
108	1,856.1
109	1,856.1
110	1,856.1
111	1,855.6
112	1,853.7
113	1,853.7
114	1,852.1
115	1,851.6
116	1,851.3
117	1,851.3
118	1,850.9
119	1,848.9
120	1,848.9
121	1,848.9
122	1,848.9
123	1,846.5
124	1,846.2
125	1,836.9
126	1,836.5
127	1,834.5
128	1,834.5

VI. Permit Conditions

No. of days	Pounds per day
129	1,834.5
130	1,833.7
131	1,832.1
132	1,832.1
133	1,829.7
134	1,829.7
135	1,829.6
136	1,827.3
137	1,827.3
138	1,826.8
139	1,826.6
140	1,824.9
141	1,822.5
142	1,822.3
143	1,817.7
144	1,816.8
145	1,815.3
146	1,815.3
147	1,815.3
148	1,815.3
149	1,812.9
150	1,812.9
151	1,810.8
152	1,810.5
153	1,810.5
154	1,810.5
155	1,808.1
156	1,808.1
157	1,806.2
158	1,805.7
159	1,805.7
160	1,804.3
161	1,803.3
162	1,803.3
163	1,803.3
164	1,799.2
165	1,798.5
166	1,797.8
167	1,796.8
168	1,796.8

No. of days	Pounds per day
169	1,796.1
170	1,796.1
171	1,783.4
172	1,781.7
173	1,779.6
174	1,776.9
175	1,776.9
176	1,772.1
177	1,760.1
178	1,760.1
179	1,760.1
180	1,757.7
181	1,755.3
182	1,748.6
183	1,746.5
184	1,744.3
185	1,742.2
186	1,742.2
187	1,742.2
188	1,740.1
189	1,740.1
190	1,740.1
191	1,737.9
192	1,735.8
193	1,735.8
194	1,735.8
195	1,735.8
196	1,731.5
197	1,731.5
198	1,729.4
199	1,729.4
200	1,729.4
201	1,729.4
202	1,729.4
203	1,729.4
204	1,729.4
205	1,729.4
206	1,729.4
207	1,729.4
208	1,729.4

VI. Permit Conditions

No. of days	Pounds per day
209	1,727.2
210	1,727.2
211	1,727.2
212	1,727.2
213	1,727.2
214	1,727.2
215	1,725.1
216	1,725.1
217	1,725.1
218	1,725.1
219	1,725.1
220	1,725.1
221	1,725.1
222	1,725.1
223	1,725.1
224	1,725.1
225	1,725.1
226	1,723.0
227	1,723.0
228	1,723.0
229	1,723.0
230	1,723.0
231	1,723.0
232	1,723.0
233	1,723.0
234	1,720.8
235	1,720.8
236	1,720.8
237	1,720.8
238	1,720.8
239	1,720.8
240	1,720.8
241	1,720.8
242	1,720.8
243	1,720.8
244	1,720.8
245	1,720.8
246	1,718.7
247	1,718.7
248	1,718.7

No. of days	Pounds per day
249	1,718.7
250	1,718.7
251	1,718.7
252	1,718.7
253	1,718.7
254	1,718.7
255	1,718.7
256	1,716.6
257	1,716.6
258	1,716.6
259	1,716.6
260	1,716.6
261	1,716.6
262	1,716.6
263	1,716.6
264	1,716.6
265	1,716.6
266	1,716.6
267	1,716.6
268	1,714.4
269	1,714.4
270	1,714.4
271	1,714.4
272	1,714.4
273	1,714.4
274	1,714.4
275	1,714.4
276	1,714.4
277	1,714.4
278	1,714.4
279	1,714.4
280	1,714.4
281	1,714.4
282	1,714.4
283	1,714.4
284	1,714.4
285	1,714.4
286	1,714.4
287	1,714.4
288	1,714.4

VI. Permit Conditions

No. of days	Pounds per day
289	1,714.4
290	1,714.4
291	1,714.4
292	1,714.4
293	1,714.4
294	1,714.4
295	1,714.4
296	1,714.4
297	1,714.4
298	1,714.4
299	1,714.4
300	1,714.4
301	1,714.4
302	1,712.3
303	1,712.3
304	1,712.3
305	1,712.3
306	1,712.3
307	1,712.3
308	1,712.3
309	1,712.3
310	1,712.3
311	1,712.3
312	1,710.1
313	1,710.1
314	1,710.1
315	1,710.1
316	1,710.1
317	1,710.1
318	1,710.1
319	1,710.1
320	1,710.1
321	1,710.1
322	1,710.1
323	1,710.1
324	1,710.1
325	1,710.1
327	1,708.0
328	1,708.0
329	1,708.0

No. of days	Pounds per day
330	1,708.0
331	1,708.0
332	1,708.0
333	1,708.0
334	1,708.0
335	1,708.0
336	1,708.0
337	1,708.0
338	1,708.0
325	1,708.0
326	1,708.0
327	1,708.0
328	1,708.0
329	1,708.0
330	1,708.0
331	1,708.0
332	1,708.0
333	1,708.0
334	1,708.0
335	1,708.0
336	1,708.0
337	1,708.0
338	1,708.0
339	1,708.0
340	1,708.0
341	1,708.0
342	1,708.0
343	1,708.0
344	1,708.0
345	1,708.0
346	1,708.0
347	1,708.0
348	1,708.0
349	1,708.0
350	1,708.0
351	1,708.0
352	1,708.0
353	1,708.0
353	1,708.0
354	1,708.0

VI. Permit Conditions

No. of days	Pounds per day
355	1,708.0
356	1,708.0
357	1,708.0
358	1,708.0
359	1,708.0
360	1,708.0

No. of days	Pounds per day
361	1,708.0
362	1,708.0
363	1,708.0
364	1,708.0
365	1,708.0

VI. Permit Conditions

TABLE IV.
FACILITY BASELINE PROFILE -- SOX EMISSIONS (LB/DAY)

SO2 baseline reduced 1398 lb/day per Condition ID# 12271. (AN 1362, Feb. 2002)
SO2 baseline reduced by 80 lb/day for Flexsorb project
(AN 4106, June 2002)
Note: the 110.2 lb/day reduction was a calculation error. The 14.6 Ton/yr reduction for the Flexsorb Project is equal to 80.0 lb/day.

SO2 baseline reduced 1,802.9 lb/day for CARB marine fuel sulfur standard (AN 22045, December 2011).

No. of days	Pounds per day
1	14,983.2
2	14,982.6
3	14,972.7
4	14,969.4
5	14,965.6
6	14,957.3
7	14,944.5
8	14,943.4
9	14,939.8
10	14,939.1
11	14,936.9
12	14,926.7
13	14,926.6
14	14,922.3
15	14,918.6
16	14,912.3
17	14,908.3
18	14,907.3
19	14,906.0
20	14,889.0
21	14,886.5
22	14,885.2
23	14,879.1
24	14,878.6
25	14,872.1
26	14,868.3
27	14,865.0
28	14,864.7
29	14,861.9

No. of days	Pounds per day
30	14,861.8
31	14,860.8
32	14,860.0
33	14,859.0
34	14,856.6
35	14,853.0
36	14,840.2
37	14,838.5
38	14,817.1
39	14,816.4
40	14,816.3
41	14,809.0
42	14,806.6
43	14,795.4
44	14,795.0
45	14,794.7
46	14,789.7
47	14,789.6
48	14,788.6
49	14,784.1
50	14,783.8
51	14,781.0
52	14,780.6
53	14,773.4
54	14,770.3
55	14,765.7
56	14,762.5
57	14,759.4
58	14,750.5

VI. Permit Conditions

No. of days	Pounds per day
59	14,750.2
60	14,748.0
61	14,747.1
62	14,746.3
63	14,743.1
64	14,742.7
65	14,741.8
66	14,741.6
67	14,741.0
68	14,739.9
69	14,732.9
70	14,730.8
71	14,730.5
72	14,730.4
73	14,730.2
74	14,729.0
75	14,724.1
76	14,723.4
77	14,719.2
78	14,717.5
79	14,716.0
80	14,713.5
81	14,710.9
82	14,710.8
83	14,710.1
84	14,707.3
85	14,707.2
86 to 87	14,706.7
88	14,706.4
89	14,706.2
90	14,705.1
91	14,705.0
92	14,702.5
93	14,700.7
94	14,699.2
95	14,698.4
96	14,698.2
97	14,697.2
98	14,696.5
99	14,696.0

No. of days	Pounds per day
100	14,694.8
101	14,694.2
102	14,693.7
103	14,693.2
104	14,693.1
105	14,691.2
106	14,689.5
107	14,689.2
108	14,688.7
109	14,688.6
110	14,686.5
111	14,685.9
112	14,685.8
113	14,684.7
114	14,684.0
115	14,683.2
116	14,682.3
117	14,682.1
118	14,682.0
119	14,681.3
120	14,680.0
121	14,678.3
122	14,678.2
123	14,677.6
124	14,677.1
125	14,676.3
126	14,676.1
127	14,675.3
128	14,675.2
129	14,674.9
130	14,673.5
131	14,673.2
132	14,672.6
133	14,671.8
134	14,671.2
135	14,670.5
136	14,669.8
137	14,668.1
138	14,667.8
139 to 140	14,667.0

VI. Permit Conditions

No. of days	Pounds per day
141 to 142	14,665.5
143	14,665.3
144	14,665.2
145	14,664.9
146	14,664.7
147	14,664.6
148	14,661.9
149	14,658.9
150	14,658.2
151	14,656.9
152 to 153	14,656.7
154	14,656.6
155	14,656.1
156	14,656.0
157	14,655.6
158	14,654.5
159 to 160	14,654.4
161	14,654.2
162	14,652.8
163	14,651.7
164	14,651.3
165	14,650.9
166	14,650.7
167	14,650.2
168	14,649.8
169	14,649.4
170	14,646.3
171	14,645.9
172	14,645.5
173	14,644.2
174	14,643.5
175	14,643.0
176	14,642.7
177	14,642.4
178	14,641.2
179	14,640.9
180	14,640.2
181	14,639.9
182 to 183	14,639.1
184	14,638.7

No. of days	Pounds per day
185	14,637.1
186	14,636.8
187	14,635.1
188 to 189	14,634.0
190	14,633.3
191	14,632.9
192	14,632.5
193 to 194	14,632.4
195	14,631.4
196 to 197	14,631.1
198 to 199	14,630.2
200	14,629.1
201	14,627.1
202	14,626.2
203	14,624.9
204	14,621.9
205 to 207	14,621.0
208	14,620.5
209	14,620.3
210	14,619.9
211	14,619.8
212	14,619.7
213	14,619.5
214	14,619.4
215	14,619.1
216	14,618.9
217	14,618.8
218	14,618.7
219	14,618.6
220 to 221	14,618.4
222	14,618.3
223	14,618.1
224	14,617.2
225	14,617.0
226	14,616.8
227 to 229	14,616.7
230	14,616.5
231	14,616.2
232	14,615.9
233 to 234	14,615.8

VI. Permit Conditions

No. of days	Pounds per day
235	14,615.7
236	14,615.3
237	14,615.0
238	14,614.6
239	14,614.5
240	14,614.3
241	14,614.1
242	14,613.2
243	14,613.1
244	14,613.0
245	14,612.9
246	14,612.8
247	14,612.6
248 to 250	14,612.5
251 to 252	14,612.4
253 to 254	14,612.2
255	14,612.1
256 to 257	14,611.9
258	14,611.6
259	14,610.7
260	14,610.5
261	14,610.3
262	14,610.2
263	14,610.1

No. of days	Pounds per day
264	14,610.0
265	14,608.8
266	14,608.7
267 to 268	14,608.5
269 to 270	14,608.3
271	14,608.1
272	14,607.9
273	14,607.8
274	14,607.6
275	14,605.8
276	14,605.1
277	14,601.5
278	14,599.4
279	14,597.8
280	14,597.7
281	14,597.2
282	14,594.1
283 to 287	14,593.6
288 to 294	14,593.0
295	14,581.1
296	14,580.5
297 to 307	14,580.0
308 to 325	14,579.5
326 to 365	14,579.0

TABLE V
(revised10/94,App.No.13814)
MODIFIED FACILITY BASELINE PROFILE—PARTICULATE EMISSIONS

Particulate matter baseline reduced 99.0 lb/day for CARB marine fuel sulfur standards (AN 22045, December 2011).

No. of days	Pounds per day
1	1,658.6
2	1,642.4
3	1,636.1
4	1,633.8

No. of days	Pounds per day
5	1,630.3
6	1,629.1
7	1,628.0
8	1,627.4

VI. Permit Conditions

No. of days	Pounds per day
9	1,625.7
10	1,624.5
11	1,623.3
12	1,622.8
13	1,621.6
14	1,621.0
15	1,616.4
16 to17	1,615.3
18 to19	1,614.7
20	1,614.1
21	1,612.9
22	1,612.4
23	1,611.2
24	1,610.6
25	1,608.9
26	1,608.3
27	1,607.7
28	1,604.3
29	1,603.7
30	1,602.6
31	1,600.8
32	1,594.5
33	1,592.7
34	1,592.1
35	1,591.6
36	1,591.0
37 to 38	1,590.4
39	1,589.8
40	1,587.5
41	1,586.4
42 to 43	1,585.2
44	1,584.6
45	1,582.3
46	1,578.8
47	1,577.7
48	1,575.4
49	1,572.5
50 to 52	1,571.9
53	1,571.3
54 to 55	1,570.8

No. of days	Pounds per day
56 to57	1,570.2
58	1,567.9
59 to 61	1,567.3
62 to 63	1,566.7
64	1,566.1
65	1,565.0
66	1,563.8
67 to 69	1,562.1
70 to 71	1,558.6
72	1,557.5
73	1,556.9
74	1,556.3
75	1,555.7
76 to 78	1,555.1
79	1,554.6
80	1,554.0
81	1,552.8
82	1,552.3
83 to 86	1,551.7
87 to 88	1,551.1
89 to 90	1,550.5
91	1,549.9
92 to 94	1,548.8
95 to 96	1,548.2
97 to 99	1,547.7
100	1,547.1
101 to 102	1,546.5
103 to 104	1,545.9
105 to 106	1,544.8
107 to 110	1,543.6
111	1,543.0
112 to 116	1,542.4
117 to 119	1,541.9
120 to 121	1,541.3
122	1,540.7
123 to 124	1,540.1
125 to 126	1,539.5
127 to 128	1,539.0
129 to 133	1,538.4
134 to 135	1,537.8

VI. Permit Conditions

No. of days	Pounds per day
136 to 140	1,537.2
141 to 143	1,536.7
144 to 148	1,536.1
149 to 151	1,535.5
152 to 154	1,534.3
155 to 157	1,533.8
158 to 159	1,533.2
160 to 167	1,532.0
168 to 170	1,531.5
171 to 173	1,530.9
174 to 178	1,529.7
179 to 180	1,529.1
181	1,528.6
182 to 186	1,528.0
187 to 188	1,527.4
189	1,526.8
190	1,526.3
191	1,525.7
192 to 195	1,525.1
196 to 197	1,524.5
198 to 199	1,523.9
200 to 202	1,523.4
203 to 204	1,522.8

No. of days	Pounds per day
205 to 206	1,522.2
207 to 209	1,521.7
210 to 211	1,521.0
212 to 214	1,520.5
215 to 218	1,519.9
219 to 225	1,519.3
226 to 235	1,518.8
236 to 247	1,518.2
248 to 252	1,517.6
253 to 263	1,517.0
264 to 267	1,516.4
268 to 271	1,515.9
272 to 276	1,515.3
277	1,514.1
278 to 280	1,513.5
281 to 283	1,513.0
284 to 288	1,512.4
289	1,511.2
290 to 296	1,510.6
297 to 307	1,510.1
308 to 325	1,508.3
326 to 365	1,506.6

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

VI. Permit Conditions

C5/180 Hydrocrackate	1.4
Dis Light Naphtha	1.4
Heavy Gasoline Components	
Reformate	1.4
240/450 Cat Crk	1.4
Dist Heavy Naphtha	1.4
Cat Reformer Feed	1.4
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

VI. Permit Conditions

Shell Thin F.U.280	.002
Shell Thin F.O. 320	.002
Shell Thin F.O. 380	.002
Shell Thin F.O. MV 240/11.4	.002
Shell Thin F.O. MV 280/11.4	.002
Shell Thin F.O. MV 320/11.4	.002
Shell Thin F.O. MV 380/11.4	.002
Miscellaneous Cutter Stock	.002
Shell Special Industrial Fuel Oil	.002
Shell UMF Grade C	.002
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

VI. Permit Conditions

TABLE VIII.

SHIPPING COMBUSTION EMISSION FACTORS
(lb/1000 gallon fuel)

Adjustment of emission factors in Table VIII for CARB marine fuel sulfur standards, effective upon implementation of California Code of Regulations, Title 17 §93118)

	Organic	**SO_2**		**NOx**	**Particulate Matter**	
		0.0015%	0.1%		0.0015%	0.1%
Steamships						
Hoteling	0.25		14.20	20.00		3.30
Other (also listed as "Full Load" in some versions)	0.25		14.20	24.00		3.30
Internal Combustion Engines						
Marine Diesel Oil	32.80		13.39	367.00		13.16
CARB Diesel (Tugs)	12.99	0.12	--	571.22	14.33	--

SHIPPING FUEL COMBUSTION RATES (gal/hr)

VI. Permit Conditions

Ship Size	Fuel	Combustion Rate (gal/hr)							
		Maneuvering	Hotelling	Cargo Discharge Rate (bbl/hr)					
				3,000	7,500	11,000	20,000	50,000	85,000
Steamships									
30 MDWT	Marine Diesel Oil	326	42	157	315				
45 MDWT	Marine Diesel Oil	447	50	197		540			
60 MDWT	Marine Diesel Oil	608	81			676			
70 MDWT	Marine Diesel Oil	714	100			696			
200 MDWT	Marine Diesel Oil	1,133	153				1,071	1,273	1,774
Motorships									
30 MDWT	Marine Diesel Oil or Marine Gas Oil for use in boilers		90	158	315				
	Diesel	420	42	42	42				
70 MDWT	Marine Diesel Oil or Marine Gas Oil for use in boilers		90			696			
	Diesel	420	42			42			
150 MDWT	Marine Diesel Oil or Marine Gas Oil for use in boilers		90				813	962	
	Diesel	588	42				42	42	
120/135 MDWT	Marine Diesel Oil or Marine Gas Oil for use in boilers		90				813	962	
	Diesel	588	42				42	42	
Tugs									
	CARB Diesel	30							

TABLE IX.

VI. Permit Conditions

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)

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)

Condition # 7761
For S601 – Flare for Vine Hill Vapor Recovery System
S602 – Flare for Crude String Vapor Recovery System
S603 – Flare for Interim Gasoline Vapor Recovery System

For S603:

1. The flare (S603) 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.

VI. Permit Conditions

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 S601:

6. The flare (S601) 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.]

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 S602:

11. The flare (S602) 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.]

VI. Permit Conditions

13. A pilot indicator shall be installed to determine the status of the flare. [basis: Regulation 8-5-301.]

14. The flare ystem shall be equipped with a flare failure alarm system. [basis: Regulation 8-5-301.1]

15. The tanks abated by this flare are subject to the applicable conditions for the tank(s) in Condition # 7618, Section D. [basis: Cumulative Increase]

Condition # 7878:
For Gasoline Dispensing Facility #7114 (S1598)

1. Pursuant to BAAQMD Toxic Section policy, this facility's annual throughput shall not exceed 600,000 gallons in any consecutive 12 month period.

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)
S5116, LOG Dissolved Nitrogen Flotation Unit South ETP 2 (DNF)

For S5115 and S5116:

VI. Permit Conditions

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 condition number 2.
b. To maintain compliance with condition number 5 the monitoring shall be conducted

VI. Permit Conditions

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.]

VI. Permit Conditions

Condition # 11806
For S3000, Portable Vacuum Distillation Unit (CCR Technologies Inc.):

1. No more than one unit may operate at the facility at any one time. The combined operating time for all units shall not exceed 8 weeks in any 12 month period. (basis: cumulative increase)

2. All liquid transfers to and from the distillation unit, including waste, shall be made via hard-piped connections. (basis: cumulative increase)

3. All non-condensable gases from the condenser vent shall be combusted in the ehater 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. Deleted per Application 22045 as S544 has been replaced by S 6070.

VI. Permit Conditions

Condition # 11951
For S540, Tank 540:

1. Total throughput of S540 shall not exceed 340 million gallons in any consecutive twelve-month period. The owner/operator shall keep monthly throughput records for Tank 540 in a log. These records shall be retained for at least five years from the date of entry, and shall be made available to the District upon request. [basis: Cumulative Increase]

2. Condition deleted.

3. On Tank 540 (S540), there shall be no ungasketed roof fittings. Except for roof legs, each roof fitting shall be of the design that yields the minimum roof fitting losses, per EPA Compilation of Air Pollution Emission Factors, AP-42, Supplement E, Section 12.3.2, Table 12.3-11. The following list indicates the type of control required for a variety of typical roof fittings. Control techniques for roof fittings not included in this list shall be subject to District approval, prior to installing the roof on the tank.

Fitting Type	Control Technique
Access hatch	Bolted cover, gasketed
Guide pole/Well	Unslotted guide pole, gasketed sliding cover (See Note 1 below)
Gauge float well	Bolted cover, gasketed
Gauge hatch/Sample well	Weighted mechanical actuation, gasketed
Vacuum breaker	Weighted mechanical actuation, gasketed
Roof drain	Roof drain does not drain water into product
Roof leg	Adjustable, with vapor seal boot
Rim vent	Weighted mechanical actuation, gasketed

Note 1: Tank 540 does not have a guide pole/gauge well.
[basis: BACT/TBACT]

Condition # 12174
For S545, Tank 545:

1. The steam coils shall not be used when the tank is with storing material with an API gravity greater than 20. The owner/operator shall keep sufficient records to demonstrate to compliance with this condition. These records shall be retained for five years from the date of entry and shall be made available to the District upon request. [basis: Cumulative Increase]

VI. Permit Conditions

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

S1129, Tank 1129
S1130, Tank 1130
S1131, Tank 1131
S1507, UTIL CO Boiler 1
S1509, UTIL CO BOILER 2
S1512, UTIL CO Boiler 3
S4001, DC Delayed Coking Unit (DCU)
S4002, DC -F-13425-A DCU
S4003, DC F-13425-B DCU
S4005, DC Coke Handling Facility
S4020, DC Distillate Hydrotreater (DHT)
S4021, DC F-13909 DHT Recycle
S4031, DC F-14012 HGHT Reboil
S4050, DC Catalytic Gas Depentanizer (CGDP)
S4080, DC Isomerization Unit (ISOM)
S4140, DC Heavy Cracked Gasoline Hydrotreater (HGHT)
S4141, DC F-14011 HGHT Feed
S4160, DC Hydrogen Plant –3 (HP3)
S4161, DC H-101 HP3 Steam Methane Reformer
S4180, OPCEN Sulfur Plant 4 (SRU4)
S4190, UTIL Boiler 6 Gas Turbine 1
S4191, UTIL Boiler 6 Supplemental Steam Generator 1
S4192, UTIL Boiler 6 Gas Turbine 2
S4193, UTIL Boiler 6 Supplemental Steam Generator 2
S4201, DC Clean Fuels Flare
S4210, Cooling Water Tower (CWT-13278)
S4211, DC V-13222 ISOM Maintenance Drop Out Vessel
S4212, DC V-13441 ISOM Maintenance Drop Out Vessel
S4307, Tank 14687 MDEA Make-up S4309, Tank 14687 DEA
S4310, Tank 13285 Sour Water
S4311, DC V-12555 ISOM Perchloroethylene Vessel
S4319, Tank 15096 Recovered Oil

VI. Permit Conditions

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; Part 69 source test frequency reduction allowance added in 2016 renewal; allowable emissions in Parts 85, 86, 90, and 91 revised in 2016 renewal)

Unless specified otherwise, the following permit conditions apply only to sources installed or modified as part of the Clean Fuels Project (CFP).

GENERAL PERMIT CONDITIONS
Monthly and Annual Emission Limits

A. Emissions from the Clean Fuels Project sources described in Condition B shall not exceed the limits indicated in Table A.1 below, for any consecutive twelve-month period. Table A.2 provides monthly trigger levels for CFP sources indicated in Condition B. If monthly emissions exceed a trigger level, the owner/operator shall include a Compliance Plan in the next monthly report for that pollutant. The Compliance Plan shall indicate the necessary action to avoid exceeding the annual limit for the pollutant(s) in question.

Table A.1

12-Month Emission Limits	
NOx	199.4 TPY
CO	252.4 TPY
SO2	139.7 TPY
PM/PM10	59.1 TPY
POC	132.0 TPY

Table A.2

Monthly Trigger Levels	
NOx	20.8 Ton/Mo.
CO	26.3 Ton/Mo.
SO2	14.6 Ton/Mo.
PM/PM10	6.2 Ton/Mo.
POC	13.7 Ton/Mo.

Emissions shall be calculated in accordance with the emission calculation procedures used in this permit application, and summarized in Appendix B, including subsequent revisions. Where CEM data is available (S4002, 4003, 4021, 4031, 4141, 4161, 4190, 4191, 4192, 4193, and A4180 and 4181) emission calculations shall be based upon the CEM data. [Tables A1 and A2 revised per Application No.'s 14577 (3/95) and 25078 (8/95) and 18185 (7/98).] [basis: offsets, cumulative increase]

VI. Permit Conditions

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
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

S1129	Tank 1129
S1130	Tank 1130
S1131	Tank 1131
S4307	Tank 14687 MDEA Make-up
S4309	Tank 14517 DEA S4310 Tank 13285 Sour Water
S4319	Tank 15096 Recovered Oil
S4322	Tank 14571 Sour Water
S4334	Tank 13276 Alkylate
S4350	LOG Tank 13187 Process Wastewater
S4356	LOG Tank 13188 Process Wastewater

Table B.3 - SRU No.4

A4180	SCOT No. 4
A4181	Thermal Oxidizer for Sulfur Plant 4S-S4347 OPCEN Pit for Sulfur Plant 4

Table B.4 - Miscellaneous (Included Emissions)

S-S4210	Cooling Water Tower (CWT-13278)
S-S4338	LOG Pentane Loading Facility

Table B.5 - Miscellaneous (Excluded Emissions)

S-S4005	DCCoke Handling Facility
S-S4201	DC Clean Fuels Flare
S-S4211	DC V-13222 ISOM Maintenance Drop Out Vessel
S-S4212	DC V-13441 ISOM Maintenance Drop Out Vessel

Table B.6 - Process Units (Fugitives)

S-S4001	DC Delayed Coking Unit (DCU)
S-S4020	DC Distillate Hydrotreater (DHT)
S-S4050	DC Catalytic Gas Depentanizer (CGDP)
S-S4080	DC Isomerization Unit (ISOM)
S-S4140	DC Heavy Cracked Gasoline Hydrotreater (HGHT)g
S-S4160	DC Hydrogen Plant – 3 (HP3)
S-S4180	OPCEN Sulfur Plant –4 (SRU4)

VI. Permit Conditions

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

VI. Permit Conditions

concentrations. These average concentrations shall be summarized in the monthly report. [basis: cumulative emissions, offsets]

K. CEM data shall be used for compliance verification. As such, CEM data may be used by the District Enforcement Division to document a violation of District regulations or permit conditions. [basis: BACT, offsets]

Record Keeping & Monthly Reporting

L. The owner/operator shall keep records of all necessary information to demonstrate compliance with all permit conditions associated with the Clean Fuels Project. All records shall be retained for at least five years from the date of entry, and shall be made available to the District upon request. This includes, but is not limited to, records of source test data, CEM data, fuel usage, emission calculations, fugitive component counts, product shipments, coke production, sulfur production, and rail emissions. The owner/operator shall also keep all records required by NSPS. [basis: BACT, offsets, cumulative increase]

M. Upon startup of the first process unit associated with the CFP, the owner/operator shall submit monthly reports of all information deemed necessary by the District permit engineer to determine compliance with all permit conditions required for this project. The format of the monthly reports shall be subject to approval by the District permit engineer 60 days prior to startup, and shall include (but is not limited to) the information listed below. Changes to the original format shall be subject to approval by both the owner/operator and the District permit engineer.

Fuel usage type and amount, for:
- Cogeneration plant;
- Hydrogen plant SMR furnace;
- Furnaces > 50 MM BTU/hr; and
- Furnaces < 50 MM BTU/hr.

Combustion emissions per source, or per group of sources with same emission factors;

CEM data and emission calculations;

CEM indicated excesses;

Fuel gas H2S and TRS concentrations;

PSA gas H2S concentrations;

SRU No.4 SO2 emissions and sulfur production rates;

VI. Permit Conditions

Product rail shipment emissions for coke and pentane;

Storage tank emissions;

Emission calculations from flaring event: the owner/operator is not required to specifically measure flow to the flares, but must use knowledge of process depressurization rates and duration of venting to calculate emissions;

Pressure relief valve ventings and emissions;

Breakdown requests and associated BAAQMD ID #'s.
[basis: offsets, cumulative increase]

Miscellaneous

N. Any process vessel depressurization shall be vented to a control device with an overall capture and destruction efficiency of 95%, on a mass basis. [basis: BACT]

O. Offsets for this project will be required as specified by permit conditions below. If after completion of the Clean Fuels Project a source was not constructed, the project emissions will be adjusted and offsets (including the appropriate offset ratio) that were provided for the source, including fugitive components, will be returned. [basis: offsets]

FUGITIVES
Conditions 1 through 14 for fugitive emissions apply only to POC gaseous, light liquid, and toxic services.

1. Any new pump in light liquid or toxic service installed, modified or replaced as part of the Clean Fuels Project (CFP) shall be:

a. equipped with dual mechanical seals, having a heavy liquid barrier fluid. The barrier fluid reservoir shall be vented to a 95% efficient control device, or the barrier fluid shall be operated at a pressure higher than the process stream pressure; or

b. a "canned" pump or magnetically driven pump; or any other sealless pump technology approved by the District. [basis: BACT]

2. Condition deleted.

3. For the purpose of these permit conditions, light liquid service shall be defined as a hydrocarbon liquid having an initial boiling point of 302oF or less. Toxic service shall be defined as hydrocarbon service with greater than 1% benzene or 0.1% 1,3

VI. Permit Conditions

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 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,

VI. Permit Conditions

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 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 (162 ppm) H2S averaged over 3 hours (per NSPS 40 CFR 60 subpart J); and
c. 70 ppm total reduced sulfur (hydrogen sulfide, methyl mercaptan, carbon disulfide, dimethyl sulfide, dimethyl disulfide, and carbonyl sulfide), expressed as H2S equivalent, averaged over any consecutive 12-month period. (TRS limit amended 7/98, AN 18185) [basis: BACT]

16. MRC shall install a continuous gaseous fuel monitor/recorder to determine the H2S content of the refinery fuel gas prior to combustion in any of the CFP combustion

VI. Permit Conditions

sources. MRC shall also install a continuous monitor/recorder, or equivalent as approved by the District, to measure total reduced sulfur compounds in the refinery fuel gas, expressed as H2S equivalent. [basis: BACT]

16A. To verify compliance with the H2S and TRS limits of Condition No. 15 for the CO Boilers (S1507, 1509 and 1512), MRC shall install a natural gas line connection upstream of the CO Boilers in order to combine natural gas with the refinery fuel gas. MRC shall also operate a fuel flow ratio control system, consisting of fuel flow meters, a ratio detector, and a ratio controller, as described in permit application number 18185. This ratio controller set point shall be the same natural gas to refinery fuel gas ratio as occurs in the fuel supply system for the Clean Fuels Project combustion sources. Compliance with the H2S and TRS limits for the CO Boilers will be inferred by directly measuring the H2S and TRS contents of the refinery fuel gas supply for the Clean Fuels Project combustion sources. The flow meters, ratio detector and ratio controller shall be maintained and calibrated according to manufacturer specifications. (Added 7/98 per AN 18185) [basis: offsets]

17. The owner/operator shall calculate and record the: (1) 3-hour H2S content; (2) 24-hour rolling average H2S content; and (3) TRS content of the refinery fuel gas, for determining compliance with Condition No. 15, based on the previous 24 individual hourly averages. On a monthly basis, the owner/operator shall report daily fuel consumption and the 3-hour average, 24-hour average, and maximum daily H2S content of the refinery fuel gas, for combustion sources associated with the CFP. The owner/operator shall also report the daily, monthly, and 12-month average TRS concentrations in the refinery fuel gas. [basis: cumulative emissions]

COMBUSTION SOURCES

General Combustion

The following are general requirement for all new or modified combustion sources associated with the Clean Fuels Project (CFP):

18. All combustion sources installed, modified or replaced as part of the CFP shall fire natural gas, refinery fuel gas, pressure swing absorber (PSA) gas, ultra low sulfur distillate (ULSD), liquified petroleum gases, or flexigas. In no case shall any combustion source, except for S4002 and S4003 burn any combination of fuels with: (1) an H2S concentration exceeding 50 ppm, 24 hour average; [basis: BACT] or (2) a total reduced sulfur content exceeding 70 ppm, annual average. [basis: offsets, cumulative increase]

18.a. Sources S4002 and S4003 shall fire natural gas, refinery fuel gas, pressure swing absorber (PSA) gas, ultra low distillate (ULSD), liquefied petroleum gases, or flexigas. In no case shall source S4002 or S4003 burn any combination of fuels with: (1) and

VI. Permit Conditions

H2S concentration exceeding 50 ppm, 24 hour average; or (2) a total reduced sulfur content exceeding 100 ppm, annual average. [basis: BACT, cumulative increase]

19. For the purposes of these conditions ULSD is defined as a gaseous hydrocarbon mixture composed of C6 and lighter components, produced by the Straight Run Hydrotreater, Saturated Gas Plant, Cracked Gasoline Depentanizer, and Alky Depentanizer. [basis: offsets, cumulative increase]

20. Every combustion source (or group of sources with the same emission factors) installed, modified or replaced as part of the CFP shall be equipped with a continuous fuel flow monitor in order to determine fuel consumption. Fuel rates shall be recorded by a process computer or recorder. This condition does not apply to flare pilots that are fueled with natural gas at a constant rate. [basis: offsets, cumulative increase]

21. The owner/operator shall calculate and record emissions from all combustion sources (or group of sources with the same emission factors) on a monthly basis, and include those emissions in the monthly reports in accordance with conditions L and M. [basis: offsets, cumulative increase]

22. For purposes of this permit, unless otherwise specified in a permit condition, startup and shutdown of combustion sources are limited to a maximum of 8 hours in duration for non-SCR controlled combustion sources, or 24 hours in duration for SCR controlled combustion sources.

a. Upon approval by the District, the startup or shutdown period may be extended to a period not to exceed 72 hours for the following situations:
   1. the startup or shutdown has been proceeding continuously, and the owner/operator has been increasing or decreasing temperatures at a rate limited by metallurgy or other physical constraints prescribed in their startup/shutdown procedure.
   2. startup following installation or replacement of refractory lining.
   3. startup following initial catalyst pre-sulfiding following catalyst replacement or catalyst regeneration.

b. For the Cogeneration Units (Sources S4190 through 4193), the startup period following initial construction also includes a commissioning period, consisting of an initial gas turbine roll, steam blowing, and turbine/generator synchronization. Natural gas is the only fuel to be used during commissioning. Emissions of 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]

VI. Permit Conditions

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

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),

VI. Permit Conditions

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, 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]

VI. Permit Conditions

30. For the hydrogen plant steam methane reformer furnace (S4161), emissions of CO shall not exceed 25 ppmv, dry, corrected to 3% oxygen, averaged over 8 hours, except during startup and shutdown, as defined by Condition 22. [basis: BACT]

31. S4161 shall be abated at all times by A4161, Selective Catalytic Reduction for HP3 Steam Methane Reformer. Ammonia emissions (ammonia slip) from the SCR unit (A4161) shall not exceed 20 ppm of ammonia, dry, corrected to 3% oxygen. [basis: BACT]

32. On source S4161, the owner/operator shall install, calibrate, maintain, and operate a District-approved continuous emission monitor and recorder for NOx and O2. [basis: BACT]

33. Except during emergency upsets, the condensate striping system must be operated while feed gas is present in the process, unless the deaerator vent is vented to S4161, HP-3 SMR Furnace. While the condensate stripping system is in operation, the stripper overheads must be returned to the feed gas stream. In the event of a shutdown of the condensate stripping system while feed gas is present in the process, the condensate stripping system may be bypassed and the deaerator vented to S4161, HP-3 SMR Furnace for abatement. The dearator must be vented to S4161 within 3 hours of stripper shutdown. There shall be no more than 12 bypasses in any 12-month period. For each bypass, the owner/operator shall keep a record of the date, duration of bypass, and reason for bypass. These records shall be retained on site for at least five years, and shall be made available to the District upon request. (Added 2/98, Amended 4/02, AN 4192. AN 18235. Original Cond. 33 – A/C start-up source test requirement deleted) [basis: Reg. 8-2]

34. Combined refinery fuel gas and flexigas, on a heat input basis, shall not exceed 57.6% of the design duty (524 MM BTU/hr HHV) for source S4161, DC H-101 HP3 Steam Methane Reformer. [basis: offsets]

Furnaces with Selective Catalytic Reduction (S4002, 4003, 4031 and 4141)
(Conditions 35 through 39 amended per AN 14577; 3/95)

35. For sources S4002, 4003, 4031 and 4141, emissions of nitrogen oxides, as NO2, shall not exceed 10 ppmv, dry, corrected to 3% oxygen, averaged over 3 hours, except during startup and shutdown, as defined by Condition 22. [basis: BACT]

36. For sources S4002, 4003, 4031 and 4141, emissions of CO shall not exceed 50 ppm, dry, corrected to 3% oxygen averaged over 8 hours, except during startup and shutdown, as defined by Condition 22. [basis: BACT]

37. Sources S4002, 4003, 4031 and 4141 shall be abated at all times by the corresponding abatement device (A4002, 4003 and 4141, Selective Catalytic

VI. Permit Conditions

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 (S4021)
(Conditions 40 through 44 amended per AN 14577; 3/95)

40. For all natural draft furnaces (S4021), emissions of nitrogen oxides, as NO2, shall not exceed 25 ppmv, dry, corrected to 3% oxygen, averaged over 3 hours, except during startup and shutdown, as defined by Condition 22. [basis: BACT]

41. In the event that any furnace (S4021) is installed as a forced draft furnace, emissions of nitrogen oxides for that furnace, as NO2, shall not exceed 20 ppmv, dry, corrected to 3% oxygen, averaged over 3 hours, except during startup and shutdown, as defined by Condition 22. [basis: BACT]

42. For source S4021, emissions of CO shall not exceed 50 ppm, dry, corrected to 3% oxygen averaged over 8 hours, except during startup and shutdown, as defined by Condition 22. [basis: BACT]

43. The owner/operator shall install low NOx burners on source S4021, to comply with the limit in Condition No. 43. [basis: BACT]

44. Start-up condition deleted.

TANKAGE

45. Tanks 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]

VI. Permit Conditions

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
Roof leg	Fixed; or Adjustable, with vapor seal boot, or gasket between roof leg and leg sleeve (amended 2/9/96)

VI. Permit Conditions

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 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]

VI. Permit Conditions

53. Each MDO vessel that is installed as part of the Clean Fuels Project (CFP), shall meet the following operating requirements:

    a. All recycled or recovered oil and oil emulsions shall be transferred through closed, leak tight systems (100 ppm, as methane).

    b. Except for wastewater flow from, and S4180 OPCEN Sulfur Plant 4 (SRU4), all wastewater streams from the CFP units shall be transferred to the existing Effluent Treatment Plant through closed systems.

    c. All wastewater flow from 4180 shall be transferred to the existing Effluent Treatment Plant through covered systems that meet the requirements of Regulation 8, Rule 8.

    d. All pressure relief valves shall vent to the DC Clean Fuels Flare gas recovery system (S4201). [basis: BACT]

54. Condition deleted.

55. The owner/operator shall install a District-approved continuous hydrocarbon analyzer/recorder to determine hydrocarbon vapor concentration from the cooling water in Cooling Water Tower (CWT-13278) (S4210). The purpose of this analyzer is to serve as an early warning/detection device to indicate a possible heat exchanger leak of process fluid into the cooling water system. The analyzer will provide baseline data, which will be statistically evaluated to determine an Action Level. Any hydrocarbon reading above the Action Level will trigger an alarm. The owner/operator'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. [basis: BACT]

FLARE

56. Start-up condition deleted.

57. In order to prevent smoking, the first stage of the DC Clean Fuels Flare (S4201) shall be provided with steam-assist. [basis: BACT]

58. Start-up condition deleted.

59. Start-up condition deleted.

60. All flare pilots shall be fueled continuously with natural gas or LPG. The flare will be

VI. Permit Conditions

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 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]

VI. Permit Conditions

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. 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: BACT, Regulation 2-6-409.2]

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), SCOT No. 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), SCOT No. 4 (A4180), or Thermal Oxidizer for Sulfur Plant 4 (A4181).

VI. Permit Conditions

and the District shall be notified of all such occurrences within 48 hours. [basis: BACT, offsets]

The owner/operator shall calculate excess emissions resulting from any unplanned shutdown of SRU4, SCOT No. 4 or SCOT Tailgas Thermal Oxidizer. These excess emissions shall be included for the purposes of determining compliance with Condition A. If inclusion of these excess emissions causes the owner/operator to exceed the monthly trigger level in Condition A, Facility's Compliance Plan shall describe how the owner/operator will achieve the additional emission reductions necessary to maintain compliance with the consecutive twelve-month limit. These reductions will be provided to the extent necessary by one or more of the following:

c. Additional reductions in SO2 emissions from the CO Boilers (S1507, 1509, and/or 1512);
d. the use of banked emissions reduction credits; and
e. other means approved by the District.

For the purposes of determining compliance with the twelve-month emission limits of Condition A, an SRU4 outage will not result in immediate violation of Condition A, when the owner/operator would have otherwise complied, had the outage not occurred. If an SRU outage occurs, the District will only include the SRU excess emissions for calculating the twelve-month totals beginning five months prior to the month in which the outage occurred. Therefore, the owner/operator will have six months following an SRU4 outage to reduce emissions sufficiently to keep their twelve-month emission totals below the limit indicated in Condition A. [basis: offsets]

72. The loading of elemental sulfur or sulfuric acid (fresh or spent) into trucks or railcars shall be controlled by a scrubber with an overall capture/removal efficiency of at least 95%, on a mass basis. H2S emissions from the scrubber shall not exceed 5 ppm. [basis: BACT, odors]

73. Start-up condition deleted.

PENTANE RAILCAR LOADING RACK

74. Source S4338 shall only be used to load pentane, butane, or LPG into railcars under pressure, with a minimum PRV set pressure of 15 psig. Vapors from the loading operation shall be collected and controlled by S1470, LOG LPG Loading Flare. [basis: BACT]

VI. Permit Conditions

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]

79. The owner/operator shall use water sprays, as necessary to minimize particulate emissions from the surfaces of the coke piles within the Coke Barn. The Coke Barn shall be enclosed and controlled by A4005, Particulate Collection Device for Delayed Coking Unit for Coke Barn , at all times during operation of the Coke Barn.

VI. Permit Conditions

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 Barn shall be kept closed except for ingress or egress. The Coke Barn shall be equipped with a vehicle wash off area, inside of the Coke Barn, to remove coke dust from the vehicle prior to exiting the Coke Barn.

    If particulate emissions from the Coke Barn result in 3 or more visible emission violations within a six month period, or two public nuisance violations within a 5 year period, the owner/operator shall install additional controls, as approved by the District, which may include one or more of the following:

    a. Additional water sprays;
    b. Chemical suppressant in water spray system;
    c. Additional/improved enclosures;
    d. Wind screens;
    e. Coke silos abated by fabric filters; or
    f. Equivalent, as approved by the District. [basis: BACT]

81. The Truck/Railcar Loading Hopper shall be completely enclosed and controlled by A4006, Particulate Collection Device for Delayed Coking Unit for Hopper Loading , at all times during railcar loading. Particulate emissions from A4006 shall not exceed 0.01 grain/DSCF (grain per dry standard cubic foot) of exhaust. (modified 8/96, AN 15942) [basis: BACT]

82a. A Wind Shield shall be used to shroud the discharge point from the Truck/Railcar Loading Hopper and the opening of the truck or railcar at all times during truck or railcar loading. The trucks and railcars shall be loaded so that the level of coke is not higher than the top of the truck trailer or railcar. After loading onto railcars, the coke surface shall be sprayed with a surface binding agent to minimize particulate entrainment during transit. After loading onto trucks, the coke shall be completely covered with tarpaulin or other similar material, to minimize particulate spillage and entrainment during transit. [basis: BACT]

82b. Before leaving the coke loading area, the truck shall pass through a water wash system to remove coke from the truck and trailer tires, wheels and undercarriage, in order to minimize the tracking of coke onto the roadway. [basis: BACT]

82c. At least twice per week, the owner/operator shall use a “street sweeper” that is equipped with a vacuum device to clean the road that is used by coke haul trucks. At a minimum, the road shall be cleaned between the Truck/Railcar Loading Hopper and the final point at which the trucks depart facility property onto the public roadway. Both directions of the roadway shall be cleaned. [basis: BACT]

VI. Permit Conditions

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, S1509, and S1512) shall not exceed 4,456 lb/day , averaged over any consecutive 365-day period.
(Amended 3/95 per AN 14577; baseline reduced by 5.9% on June 2, 1995; reduced 5/18 per AN 27866) [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 calculate NOx emissions on a daily basis. If a NOx CEM on a CO Boiler is not

VI. Permit Conditions

functioning for more than one day, then NOx emissions from that CO Boiler will be assumed to be 1,485 lb/day (4,456 / 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; reduced 5/18 per AN 27866)

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, S1509, and S1512) shall not exceed 6,805 lb/day, 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]

VI. Permit Conditions

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, the owner/operator shall conduct a District approved source test semi-annually for S4021 to determine the nitrogen oxide emissions from each source to verify compliance with Part 40 and 41, respectively. For S4021, the interval between source tests shall not exceed eight months. The results of the source test shall be made available to the District within 60 days of the source test and kept for a minimum of 5 years from the date of the report. The frequency of source testing required under this condition shall be reduced from 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

VI. Permit Conditions

testing shall revert back to annually or semi-annually, if a source test documents that emissions are 50 percent of the standard or more. The source testing frequency can again be reduced if another three consecutive annual or four consecutive semi-annual source tests document that emissions are less than 50 percent of the standard. [basis: Regulation 2-6-409.2]

105. Effective April 1, 2004, for S4002, S4003, S4031, and S4141, the owner/operator shall conduct a District approved source test semi-annually to determine the carbon monoxide emissions from each source to verify compliance with Part 36. The 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, the owner/operator shall conduct a District approved source test semi-annually for S4021 to determine the carbon monoxide emissions from each source to verify compliance with Part 42. For S4021, the interval between source tests shall not exceed eight months. The results of the source test shall be made available to the District within 60 days of the source test and kept for a minimum of 5 years from the date of the report. The frequency of source testing required under this condition shall be reduced from 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

VI. Permit Conditions

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]

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. Ef fective 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. Efffective 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

VI. Permit Conditions

of the standard. The frequency of source testing shall revert back to once per year, if a source test documents that emissions are 50 percent of the standard or more. The source testing frequency can again be reduced to once every five years if another three consecutive annual source tests document that emissions are less than 50 percent of the standard. [basis: Regulation 2-6-409.2]

111. Effective April 1, 2004, for S4002, S4003, S4031, and S4141, the owner/operator shall conduct a District approved source test annually to determine the ammonia (NH3) emissions to verify compliance with Part 37. The results of the source test shall be made available to the District within 60 days of the source test and kept for minimum of 5 years from the date of the report. The frequency of source testing required under this condition shall be reduced to once every five years if three consecutive annual source tests document that emissions are less than 50 percent of the standard. The frequency of source testing shall revert back to once per year, if a source test documents that emissions are 50 percent of the standard or more. The 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]

VI. Permit Conditions

114. Effective April 1, 2004, for S4190, S4191, S4192, and S4193, the owner/operator shall conduct a District approved source test annually to determine the VOC emissions to verify compliance with Part 25b. The results of the source test shall be made available to the District within 60 days of the source test and kept for a minimum of 5 years from the date of the report. The frequency of source testing required under this condition shall be reduced to once every five years if three consecutive annual source tests document that emissions are less than 50 percent of the standard. The frequency of source testing shall revert back to once per year, if a source test documents that emissions are 50 percent of the standard or more. The source testing frequency can again be reduced to once every five years if another three consecutive annual source tests document that emissions are less than 50 percent of the standard. [basis: Regulation 2-6-409.2]

VI. Permit Conditions

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

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

VI. Permit Conditions

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
4161	Hydrogen Plant	910	47.83	9.59	83.70	16.55	42.98
4190	Turbine	470	35.00	32.94	32.94	10.29	33.95
4191	HRSG Boiler	56	4.17	3.92	3.92	1.23	4.05
4192	Turbine	470	35.00	32.94	32.94	10.29	33.95
4193	HRSG Boiler	56	4.17	3.92	3.92	1.23	4.05
	SRU4 Oxidizer (a)	25	10.95	0.33	1.75	0.55	1.81
4201	LRGO Flare (a)	4	1.19	2.45	6.48	0.09	0.29
	Pentane Flare (a)	1	0.30	0.61	1.62	0.02	0.07
Total	Combustion Emissions		194.56	99.25	297.28	58.82	181.35
Total	Emissions to be Offset (a)		182.12	95.86	287.42	58.16	179.18

NOTES:

a. Secondary combustion emissions from the SRU tailgas thermal oxidizer and flares are not subject to Reg. 2-2-301, 2-2-302 and 2-2-303 (BACT and offsets)

b. S02 emissions are based on a maximum of 100 ppm TRS in the fuel, and H2 plant which burns 43.4% PSA gas at 3.6 ppm H2S.

c. NOx based on 25 ppm for < 50 MM BTU/hr

d. Hydrogen plant CO based on 25 ppm BACT limit

e. Cogen NOx and CO based on 5 and 6.5 ppm at 15% 02, respectively

11/18/93

VI. Permit Conditions

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.

11/18/93

VI. Permit Conditions

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

VI. Permit Conditions

Appendix B-2 Fugitive Emissions						
Summary of Emissions [Using BACT Emission Factors]					Page 1 of 4	
Stream Description	PM Emissions (lb/hr)	PM Subtotal (lb/hr)	non-PM Emissions (lb/hr)	non-PM Subtotal (lb/hr)	POC Emissions (TPY)	non-POC Emissions (TPY)
Hydrogen Plant - 3 (HP3)		2.79		0.42		
stream 1	0.32				1.39	
stream 6A	0.25				1.08	
streams 2,8,10,11,14	1.38				6.05	
stream 12	0.18				0.78	
stream 5	0.33				1.45	
stream 8	0.33				1.45	
stream 3			0.05			0.22
stream 17			0.37			1.62
Light Cracked Gasoline 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	

VI. Permit Conditions

Alky Dopentanizer CS streams	0.10				0.43	
Alky Depentanizor feed and bottoms streams	0.29				1.26	

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	

VI. Permit Conditions

stream 164, 360, 370,102	0.16				0.69	
stream 161	0.19				0.85	
stream 162	0.12				0.52	
stream 163	0.18				0.80	
stream 142	0.07				0.30	
stream 423, 140	0.10				0.43	
stream 424	0.05				0.21	
stream 200	0.05				0.22	
stream 143	0.05				0.22	
stream 135			0.10			0.44
streams 302, 154, 15313, 141	4.34				19.01	
stream 158, 153A	1.32				5.76	
stream 156			0.09			0.40
C3/C4 Merox typo II stream	0.05				0.24	
C3/C4 Merox typo 111	0.34				1.51	
C3/C4 Merox type IV A stream			0.10			0.44
C3/C4 Merox typo N B	0.01				0.03	

SUMMARY OF EMISSIONS					Page 3 of 4	
Stream Description	POC Emissions (lb/hr)	POC Subtotal (lb/hr)	non-POC Emissions (lb/hr)	non-POC Subtotal (lb/hr)	POC Emissions (TPY)	non-POC Emissions (TPY)
Sulfur Recovery Unit - 4 (SRU4)		0.28		0.46		
organic gas streams	0.14				0.61	
non-organic gas streams			0.28			1.23
non-organic light liquid streams			0.13			0.58
organic heavy liquid streams	0.14				0.63	
non-organic heavy liquid streams			0.04			0.19
Boiler 6 (BLR)		0.58				
fuel gas stream	0.58				2.52	
Lube Hydrotreater (LHT)		1.06		0.60		
gas streams	0.41				1.79	
light liquid stream	0.49				2.14	
sour water streams			0.14			0.61
feed and product oil streams	0.08				0.37	
KO pot liquid streams	0.00				0.02	
hydrogen streams			0.46			2.00

VI. Permit Conditions

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	

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	

VI. Permit Conditions

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 (lb/hr)	44.18	44.18	3.37	3.37		
TOTAL EMISSIONS (lb/day) [24 hrs/day]	1060.33	1060.33	80.78	80.78		
TOTAL EMISSIONS (TPY) [365 days/yr)	193.51	193.51	14.74	14.74	193.51	14.74

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

VI. Permit Conditions

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
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

VI. Permit Conditions

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

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

VI. Permit Conditions

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.

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

VI. Permit Conditions

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,
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 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 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.

VI. Permit Conditions

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 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.

VI. Permit Conditions

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
There will be no hauling of any kind of the DCU coke on paved or unpaved roads: 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

VI. Permit Conditions

Iron	348	15.36	4.754
Manganese	1.3	0.057	0.018
Nickel	700	30.90	9.563
Selenium	2.6	0.115	0.036
Vanadium	500	22.07	6.831
Zinc	7	0.309	0.096
Chromium	4	0.177	0.055
$Chromium_{+6}$	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

VI. Permit Conditions

CRITERIA POLLUTANT EMISSIONS

Pollutant	Emission Factor (lb/1000 gal)	Emissions (TPY)
CO	160	10.6
HC	28	1.9
NOx	330	21.9
SOx	57	3.8
PM	25	1.7

* From AP-42: CO, HC, and NOx from Table II-2.2, and Sox and PM from Table II-2.1 (Dated 4 / 73)

APPENDIX B-5 RAIL TRANSPORT EMISSIONS

ASSUMPTIONS:

• All products delivered to either Stockton or out-of-state via eastern Route

• One-way haul distance [miles]: 23 Estimated rail distance between MMC railcar departure point and eastern air district boundary (Travis Air Force Base/Vacaville area).

• Railcar increase [cars/yr]

Coke:	10,950
Pentane:	1,500
Butane:	750
LPG:	750
Sulfur/Sulfuric Acid:	500

• Product Production

Coke:	3000	(tons/day)
Pentane:	6.30E+06	(bbl/yr)
Butane:	1.10E+06	(bbl/yr)
LPG:	1.80E+06	(bbl/yr)
Sulfur/Sulfuric Acid:	7.00E+05	(bbl/yr)

• Product Densities [lb/gal]

Coke:	-
Pentane:	5.3
Butane:	4.9
LPG:	5.3
Sulfur/Sulfuric Acid:	15

VI. Permit Conditions

- 2-Stroke turbocharged road engine emissions factors for hauling and switching activities
- Southern Pacific Railroad (SP) operates switching and hauling/transport
- Empty railcar weight [tons] = 39 (for hopper and tank cars)

- Switching distances (distance from car loading to main rail line) [feet]

Coke: .	4,200	(K/L B - F 4/5 on facility grid)
Pentane:	1,500	(E/L 8 - F 4/5 on facility grid)
Butane:	1,500	(E/L 8 - F 4/5 on facility grid)
LPG:	1,500	(E/L 8 - F 4/5 on facility grid)
Sulfur/Sulfuric Acid:	3,300	(I 11 - F 4/5 on facility grid)

- Fuel usage factors (provided by Sandra Lopez, BAAQMD) [gal/1000 gross ton miles]

SP Railroad (switching)	0.0526
SP Railroad (transport)	1.67

APPENDIX B.6
COOLING TOWER POC EMISSIONS

Per EPA publication entitled "Compilation of Air Pollutant Emission Factors", (AP 42) Table 9.1-2, the POC emission factor for cooling towers is 0.70 pounds per 106 gallons of cooling water.

POC emissions:

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

= 10.1 ton/yr POC

APPENDIX B-7
SULFUR RECOVERY UNIT NO. 4 EMISSIONS

From information provided by owner, the SRU-4 is being designed based upon the sulfur loading to the Tailgas Thermal Oxidizer provided below.

	Sulfur Loading lb-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

VI. Permit Conditions

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:

(50×10^{-6}) (1395.81b-m/hr) = 0.06981b-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 lb-m/hr) = 0.12491b-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 Injection System) for a period or periods aggregating more than three minutes in any hour. [basis: BACT]

3. The exhaust from S1426 shall be vented to S1507, S1509, and/or S1512, unless allowed per Condition 18407. [basis: Regulation 2-6-409.2]

4. The water seal of the CCU (S-1426) dump stack shall be maintained such that a water seal exists. If a breakthrough of the water seal at the CCU (S-1426) dump stack is detected, the District may assume the opacity of unabated emissions vented via the dump stack (hereinafter bypass event) has exceeded the Ringelmann No. 1 standard (20% opacity) in Regulation 6-1-302, except where it can be confirmed that the dump stack was not used or an opacity excess did not occur. When a breakthrough of the water seal occurs, CARB certified personnel may be employed/contracted by the owner/operator to conduct a visible emission evaluation to confirm that the bypass event did not result in an opacity excess, and the owner/operator shall initiate corrective action to restore the water seal. The BAAQMD shall be notified within 24 hours if breakthrough of the water seal is detected, and a report summarizing the root cause of the problem shall be

VI. Permit Conditions

submitted to the Director of the District's Compliance & Enforcement Division within 60 days of the date the facility delivers its notification to the District. For each bypass event, the Causal Analysis report shall quantify emissions of particulate matter, precursor organic compounds, carbon monoxide, and sulfur dioxide. In addition, the Causal Analysis report shall evaluate compliance with Regulations 6-1-305, 6-1-310, 6-1-311, 8-2-301, 9-1-310, and the emission limits/standards outlined in 40 CFR 60, Subpart J and 40 CFR 63, Subpart UUU.
[basis: Regulations 1-441, 2-1-403, 6-1-302]

5. A continuous level monitor shall be installed on the water seal compartment of the CCU (S-1426) dump stack, including continuous data historization for the parametric level monitor, and maintain the instrument in good operating condition at all times.[basis Regulation 1-523]. Water level records shall be maintained for a period of at least 5 years from the date of entry and shall be made available to the APCO upon request.

VI. Permit Conditions

Condition # 16688
For
S1480, LUBS F-69 Asphalt Circulation
S1481, OPCEN F-30 DSU
S1483, LUBS F-32 Asphalt Circulation
S1486, DH F-40 CU Feed
S1487, DH F-41B VFU Feed
S1488, DH F-41A VFU Feed
S1490, DH F-43 GOHT Feed
S1491, DH F-44 NHT Feed
S1492, DH F-45 Primary Column Reboil
S1493, DH F-46 Stabilizier Reboil
S1494, DH F-47 Secondary Column Reboil
S1495, DH F-49 CRU Preheat
S1496, DH F-50 CRU
S1497, DH F-51 CRU
S1498, DH F-52 CRU Reboil
S1499, DH F-53 CRU Regen
S1500, DH F-55 SGP Heat Medium
S1502, DH F-57 HCU First Stage Feed
S1503, DH F-58 HCU Second Stage Feed
S1504, DH F-59 HCU Second Stage Reboil
S1505, DH F-60 HP1 Steam Methane Reformer
S1506, CPF-61 CGP Feed
S1508, CP F-63 CFH Feed
S1510, CP F-66 CCU Preheat
S1511, CP F-67 CCU LGO Reboil
S1515, DH F-71 HCU First Stage Reboil
S1760, OPCEN F-102 FXU Steam Superheater
S1761, OPCENF-104 HP2 Steam Methane Reformer
S1762, DH F-128 CRU Interheater
S1763, DH F-126 CU Feed
S1800, UTIL F-88 Boiler 5
S4002, DC F-13425-A DCU
S4003, DC F-13425-B DCU
S4021, DC F-13909 DHT Recycle
S4031, DC F-14012 HGHT Reboil
S4141, DC F-14011 HGHT Feed
S4161, DC H-101 HP3 Steam Methane Reformer

1. Each combustion source listed below shall not exceed its indicated maximum firing rate (higher heating value), expressed in the units of million BTU per day (MM BTU/day). These firing rates are sustainable maximum firing rates. The sustainable

VI. Permit Conditions

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
S1480 LUBS F-69 Asphalt Circulation	599	25
S1481 OPCEN F-30 DSU	599	25
S1483 LUBS F-32 Asphalt Circulation	480	20
S1486 DH F-40 CU Feed	8976	374
S1487 DH F-41B VFU Feed	3600	150
S1488 DH F-41A VFU Feed	3600	150
S1490 DH F-43 GOHT Feed	792	33
S1491 DH F-44 NHT Feed	1248	52
S1492 DH F-45 Primary Reboil	2496	104
S1493 DH F-46 Stabilizer Reboil	1320	55
S1494 DH F-47 Secondary Column Reboil	1104	46
S1495 DH F-49 CRU Preheat	4560	190
S1496 DH F-50 CRU	5400	225
S1497 DH F-51 CRU	2544	106
S1498 DH F-52 CRU Reboil	936	39
S1499 DH F-53 CRU Regen	744	31
S1500 DH F-55 SGP Heat Medium	4008	167
S1502 DH F-57 HCU First Stage Feed	1464	61
S1503 DH F-58 HCU Second Stage Feed	1548	66
S1504 DH F-59 HCU Second Stage Reboil	4224	176
S1505 DH F-60 HP1 Steam Methane Reformer	13200	550
S1506 CP F-61 CGP Feed	599	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

VI. Permit Conditions

S4141 DC F-14011 HGHT Feed	768	32
S4161 DC H-101 HP3 Steam Methane Reformer	21840	910

[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)

2. Startup Condition Deleted.

3. The owner/operator shall operate S1514 to not exceed 0.045 lb NOx/MMBTU (HHV) based on a rolling hourly 8760-hour average heat input. Compliance with the NOx emission rate (in lb NOx/MMBTU) shall be determined using data gathered by NOx CEMS and fuel flow meters. [basis: Shell-EPA Consent Decree]

4. The owner/operator shall ensure that the allowable NOx emissions from S1514 do not exceed 80.61 tons per year. The allowable NOx emissions shall include emissions associated with startups, shutdowns, upsets and malfunctions.
(Basis: Shell-EPA Consent Decree)

Condition # 17533
For S1507, UTIL CO Boiler 1
S1509, UTIL CO Boiler 2
S1512, UTIL CO Boiler 3:

1. Condition deleted.

2. In no event shall the ammonia (NH3) exhaust outlet concentration exceed 50 ppmv, at 3% O2, averaged over 3 hours. [basis: Toxics]

3. The owner/operator of this source shall install a continuous emission monitor (CEM) and recording system for NH3 in each CO Boiler stack if there are 3 separate violations of condition number 2 in any consecutive 12 month period. The NH3 CEM and recording system shall be installed within 12 months after the first time three violations, in a consecutive 12 month period, of condition number 2 occurs. The type of NH3 CEM and recording instrumentation installed is subject to prior approval from the District Source Test Section. The owner/operator, upon installation of the CEM, shall conduct a Field Accuracy Test that meets the approval of the District Source Test Section. [basis: Toxics]

VI. Permit Conditions

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 50 percent of the standard. The frequency of source testing shall revert back to once per year, if a source test documents that emissions are 50 percent of the standard or more. The source testing frequency can again be reduced to once every five years if another three consecutive annual source tests document that emissions are less than 50 percent of the standard. [basis:Toxics]

9. The owner/operator of this source shall maintain daily records of Urea usage, temperature, and stack NOx (in ppmv corrected to 3% oxygen averaged over 1 hour and in pounds per day). The record keeping format is subject to the approval of the District Source Test Section. [basis: Offsets]

10. A temperature indicator and recorder shall be installed in the CO Boiler to measure the temperature at the area of Urea injection. [basis: Offsets]

11. In the event the APCO determines that the stack opacity is in excess of District Regulation 6, Rule 1, Visible emissions, the owner/operator shall immediately curtail use of the Urea injection system to the extent required to abate the excessive emissions. [basis: Regulation 6-1-301

12. The owner/operator shall retain and make available upon request by the District any additional source test results performed to evaluate the Urea injection system. [basis: Offsets, Toxics]

13. Each CO Boiler exhaust point shall be equipped with a District approved NOx and O2 continuous emission monitor and recording system. [basis: Offsets]

VI. Permit Conditions

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 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)

VI. Permit Conditions

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.

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]

VI. Permit Conditions

Condition # 18265
For
S1480, LUBS F-69 Asphalt Circulation
S1481, OPCEN F-30 DSU
S1483, LUBS F-32 Asphalt Circulation
S1486, DH F-40 CU Feed
S1487, DH F-41B VFU Feed
S1488, DH F-41A VFU Feed
S1490, DH F-43 GOHT Feed
S1491, DH F-44 NHT Feed
S1492, DH F-45 Primary Column Reboil
S1493, DH F-46 Stabilizer Reboil
S1494, DH F-47 Secondary Column Reboil
S1495, DH F-49 CRU Preheat
S1496, DH F-50 CRU
S1497, DH F-51 CRU
S1498, DH F-52 CRU Reboil
S1499, DH F-53 CRU Regen
S1500, DH F-55 SGP Heat Medium
S1502, DH F-55 SGP Heat Medium
S1503, DH F-58 HCU Second Stage Feed
S1504, DH F-59 HCU Second Stage Reboil
S1505, DH F-60 HP1 Steam Methane Reformer
S1506, CP F-61 CGP Feed
S1508, CP F-63 CFH Feed
S1510, CP F-66 CCU Preheat
S1511, CP F-67 CCU LGO Reboil
S1514, UTIL F-70 Boiler 4
S1515, DH F-71 HCU First Stage Reboil
S1760, OPCEN F-102 FXU Steam Superheater
S1761, OPCEN F-104 HP2 Steam Methane Reformer
S1762, DH F-128 CRU Interheater
S1763, DH F-126 CU Feed Heater
S1800, UTIL F-88 Boiler 5
S4002, DC F-13425-A DCU
S4003, DC F-13425-B DCU
S4021, DC -F-13909 DHT Recycle
S4031, DC F-14012 HGHT Reboil
S4141, DC F-14011 HGHT Feed
S4161, DC H-101 HP3 Steam Methane Reformer

Regulation 9-10 Refinery-Wide Compliance

VI. Permit Conditions

*1. Effective January 1, 2005, the following sources are subject to the refinery-wide NOx emission rate and CO concentration limits in Regulation 9-10: (basis: Regulation 9-10-301 & 305)

S#	Description	CEM (Y/N)
S1480	LUBS F-69 Asphalt Circulation	N
S1481	OPCEN F-30 DSU	N
S1483	LUBS F-32 Asphalt Circulation	N
S1486	DH F-40 CU Feed	Y
S1487	DH F-41B VFU Feed	Y
S1488	DH F-41A VFU Feed	Y
S1490	DH F-43 GOHT Feed	Y
S1491	DH F-44 NHT Feed	Y
S1492	DH F-45 Primary Column Reboil	Y
S1493	DH F-46 Stabilizer Reboil	Y
S1494	DH F-47 Secondary Column Reboil	Y
S1495	DH F-49 CRU Preheat	Y
S1496	DH F-50 CRU	Y
S1497	DH F-51 CRU	Y
S1498	DH F-52 CRU Reboil	Y
S1499	DH F-53 CRU Regen	Y
S1500	DH F-55 SGP Heat Medium	Y
S1502	DH F-57 HCU	Y
S1503	DH F-58 HCU Second Stage Feed	Y
S1504	DH F-59 HCU Second Stage Reboil	Y
S1505	DH F-60 HP1 Steam Methane Reformer	Y
S1506	CP F-61 CGP Feed	N
S1508	CP F-63 CFH Feed	Y
S1510	CP F-66 CCU Preheat	Y
S1511	CP F-67 CCU LGO Reboil	Y
S1514	UTIL F-70 Boiler 4	Y
S1515	DH F-71 HCU First Stage Reboil	Y
S1760	OPCEN F-102 FXU Steam Superheater	Y
S1761	OPCEN F-104 HP2 Steam Methane Reformer	Y
S1762	DH F-128 CRU Interheater	Y
S1763	DH F-126 CU Feed Heater	Y
S1800	UTIL F-88 Boiler 5	Y
S4002	DC F-13425-A DCU	Y
S4003	DC F-13425-B DCU	Y
S4021	DC -F-13909 DHT Recycle	N
S4031	DC F-14012 HGHT Reboil	Y
S4141	DC F-14011 HGHT Feed	Y
S4161	DC H-101 HP3 Steam Methane Reformer	Y

VI. Permit Conditions

*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 MMBTU/hror more shall be established using the procedures in Part 4.

B. The NOx Box for units with a maximum firing rate less than 25 MMBTU/hr shall be established as follows: High-fire shall be the maximum rated capacity. Low-fire shall be 20% of the maximum rated capacity. There shall be no maximum or minimum O2.

*4. The owner/operator shall establish the initial NOx box for each source subject to Part 3 by January 1, 2005. The NOx Box may consist of two operating ranges in order to allow for operating flexibility and to encourage emission minimization during standard operation. (Reg. 9-10-502)The procedure for establishing the NOx box is

A. Conduct district approved source tests for NOx and CO, while varying the oxygen concentration and firing rate over the desired operating ranges for the furnace;

B. Determine the minimum and maximum oxygen concentrations and firing rates for the desired operating ranges (Note that the minimum O2 at low-fire may be different than the minimum O2 at high-fire. The same is true for the maximum O2). The owner/operator shall also verify the accuracy of the O2 monitor on an annual basis.

C. Determine the highest NOx emission factor (lb/MMBTU) 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

VI. Permit Conditions

polygon formed by connecting the source test parameters that lie about the perimeter of successful approved source tests. The source test parameters forming the corners of the NOx box are listed in Part 5.

E. Upon establishment of each NOx Box, the owner/operator shall prepare a graphical representation of the box. The representation shall be made available on-site for APCO review upon request. The box shall also be submitted to the BAAQMD with permit amendments.

(basis: Regulation 9-10-502)

*5. Except as provided in part 5B & C, the owner/operator shall operate each source within the NOx Box ranges listed below at all times of operation. This part shall not apply to any source that has a properly operated and properly installed NOx CEM. (Reg. 9-10-502)

VI. Permit Conditions

A. NOx Box ranges

Source No.	Emission Factor (lb/MMBtu)	Min O2 at Low Firing (O2% , MMBtu/hr)	Max O2 at Low Firing (O2% , MMBtu/hr)	Min O2 at High Firing (O2% , MMBtu/hr)	Mid O2 at Mid/High Firing (polygon) (O2% , MMBtu/hr)	Max O2 at High Firing (O2% , MMBtu/hr)
S1480	0.20	n/a	n/a	n/a	n/a	n/a
S1481	0.16	n/a	n/a	n/a	n/a	n/a
S1483	0.16	n/a	n/a	n/a	n/a	n/a
S1506	0.2	n/a	n/a	n/a	n/a	n/a
S4021	0.029	0.7, 11.9	5.6, 11.9	0.7, 33.7	n/a	5.6, 33.7

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

B. Part 5A. does not apply to periods of low firing rate conditions (i.e., firing rate less than or equal to 20% of the unit's rated capacity), or during startup or shutdown periods, or during periods of curtailed operation (ex. during heater idling, refractory dryout, etc.) lasting 5 days or less. During these conditions the means for determining compliance with the refinery wide limit shall be accomplished using the method described in 9-10-301.2 (i.e. units out of service & 30-day averaging data).

C. Part 5A. does not apply during any source test required or permitted by this condition. (Reg. 9-10-502). See Part 7 for the consequences of source test results that exceed the emission factors in Part 5.

(basis: Regulation 9-10-502)

*6. NOx Box Deviations [Effective January 1, 2005] (Reg. 9-10-502)

A. The owner/operator may deviate from the NOx Box (either the firing rate or oxygen limit) provided that the owner/operator conducts a district approved source test which reasonably represents the past operation outside of the established ranges. The source test representing the new conditions shall be conducted no later than the next regularly scheduled source test period, or within eight months, whichever is sooner. The source test results will establish whether the source was operating outside of the emission factor utilized for the source. The source test results shall be submitted to the district source test manager within 60 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.

VI. Permit Conditions

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."

   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 60 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.

VI. Permit Conditions

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 60 days of the test. (Reg.9-10-502)

3. If a source has been shutdown longer than the period allowed between source testing periods (e.g. <25 MMBtu/hr - > 12 mos or > 25 MMBtu/hr - > 8 mos), the owner/operator shall conduct the required semi-annual source test within 30 days of start up of the source. However, any source that within any 12-month rolling period operates fewer than 5 consecutive days and no more than a total of 15 days at a time does not require such a source test.

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)

VI. Permit Conditions

*11. Effective January 1, 2005, the owner/operator shall operate a continuous emission monitor (CEM) to measure the NOx and O2 concentrations from the following sources that are subject to this Alternative Compliance Plan. In the case where two or more sources exhaust through a common stack (Chimney #1, Chimney #2, S4002 & S4003, and S4031 & S4141), a single NOx and O2 CEM may be used to measure the combined concentrations from all sources that exhaust through the stack.

Sources exhausting through Chimney #1: S1486, S1487, S1488, S1490, S1491, S1492, S1493, S1494, S1495, S1496, S1497, S1498, and S1499.

Sources exhausting through Chimney #2: S1500, S1502, S1503, S1504, S1505, and S1515.

Sources with dedicated exhaust stacks: S1508, S1510, S1511, S1514, S1760, S1761, S1762, S1763, S1800, , and S4161.

DCU heaters (S4002 & S4003) exhaust through a single exhaust stack. Likewise, the HGHT heaters (S4031 & S4141) exhaust through a single exhaust stack.

*12. For the following sources for which there is not a CEM, NOx emissions shall not exceed the emission rates indicated below, in the units of pounds of NOx per million BTU of fuel fired (lb NOx/MM BTU). These emission rates shall be used to calculate daily NOx emissions. These emission rates may be adjusted, subject to District approval, based on source testing results. The Permit Holder may elect to use a more conservative (higher) emission factor than would be 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

Phase II (effective July 1, 2002)		lb/MM BTU
S1480	LUBS F-69 Asphalt Circulation	0.20
S1481	OPCEN F-30 DSU	0.160
S1483	LUBS F-32 Asphalt Circulation	0.160
S1506	CP F-61 CGP Feed	0.20

*13. On a daily basis, the owner/operator shall determine the amount of IERC's necessary for compliance with Regulation 9, Rule 10. IERC's shall be calculated using a District-approved spreadsheet that calculates actual daily NOx emissions and allowable NOx emissions based on the Reg. 9-10 limit of 0.033 lb/MM BTU. (Table 2 of the Engineering Evaluation Report for AN 498 is an example of a District-approved daily spreadsheet.)

VI. Permit Conditions

*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.

*20.The owner/operator shall operate and maintain a fuel flow meter for each fuel line on each source included in this ACP.

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)

VI. Permit Conditions

Condition # 18618

General Throughput Conditions and other miscellaneous monitoring requirements for Title V:

1a. The following throughput limits are based upon District records at the time of MFR permit issuance. Exceedance of those limits for which Regulation 2-1-234.3 was the identified basis are not a violation of the permit if the operator can, within 60 days, provide documentation demonstrating the throughput limit should be higher, established in accordance with 2-1-234.3, and the excess throughput complies with the new limit. (basis: Regulation 2-1-234.3).

S-#	Description	Daily Limit	Annual Limit
3	Tank 3		S3+S4+S1076 ≤ 130,971 bbl/day x 365
4	Tank 4		S3+S4+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		S21+ S23+S24+S26+S497+S560+S561+ S572+S573+S598+S815+S985+S1 043+S1044+S1045+ S1160+S6068 ≤ 42,000 bbl/day x 365
23	Tank 23		S21 +S23+S24+S26+S497+S560+S561 +S572+S573+S598+S815+S985+S 1043+S1044+S1045+S1160+S606 8 ≤ 42,000 bbl/day x 365
24	Tank 24		S21+ S23+S24+S26+S497+S560+S561+ S572+S573+S598+S815+S985+S1 043+S1044+ S1045+1160+S6068 ≤ 42,000 bbl/day x 365
26	Tank 26		S21 +S23+S24+S26+S497+S560+S561 +S572+S573+S598+S815+S985+S

VI. Permit Conditions

S-#	Description	Daily Limit	Annual Limit
			1043+S1044+S1045+S1160+S6068 ≤ 42,000 bbl/day x 365
257	Tank 257		10,526 bbl/day x 365
483	Tank 483		S483+S484+S530 + S532+S545 < 217,097 bbl/day x 365
484	Tank 484		S483+S484+S530 + S532+S545 < 217,097 bbl/day x 365
497	Tank 497		S21+ S23+S24+S26+S497+S560+S561+ S572+S573+S598+S815+S985+S1043+S1044+ S1045+S1160+S6068 ≤ 42,000 bbl/day x 365
530	Tank 530		S483+S484+S530 + S532+S545 < 217,097 bbl/day x 365
532	Tank 532		S483+S484+S530 + S532+S545 < 217,097 bbl/day x 365
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
549	Tank 549		S548+S549+S1006+S1235+ S1236 < 5,412 bbl/day x 365
552	Tank 552		S552+S553+S554+S555+S556+S557+S558+S559 +S567 + S568< 10,650 bbl/day x 365
553	Tank 553		S552+S553+S554+S555+S556+S557+S558+S559 +S567 + S568< 10,650 bbl/day x 365
554	Tank 554		S552+S553+S554+S555+S556+S557+S558+S559 +S567 + S568< 10,650 bbl/day x 365
555	Tank 555		S552+S553+S554+S555+S556+S557+S558+S559 +S567 + S568< 10,650 bbl/day x 365
556	Tank 556		S552+S553+S554+S555+S556+S557+S558+S559 +S567 + S568< 10,650 bbl/day x 365

VI. Permit Conditions

S-#	Description	Daily Limit	Annual Limit
557	Tank 557		S552+S553+S554+S555+S556+S557+S558+S559 +S567 + S568< 10,650 bbl/day x 365
558	Tank 558		S552+S553+S554+S555+S556+S557+S558+ S559 +S567 + S568 < 10,650 bbl/day x 365
559	Tank 559		S552+S553+S554+S555+S556+S557+S558+S559 +S567 + S568< 10,650 bbl/day x 365
560	Tank 560		S21+ S23+S24+S26+S497+S560+S561+ S572+S573+S598+S815+S985+S1043+S1044+ S1045+S1160+S6068 ≤ 42,000 bbl/day x 365
561	Tank 561		S21+ S23+S24+S26+S497+S560+S561+ S572+S573+S598+S815+S985+S1043+S1044+ S1045+S1160+S6068 ≤ 42,000 bbl/day x 365
567	Tank 567		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		S21+ S23+S24+S26+S497+S560+S561+ S572+S573+S598+S815+S985+S1043+S1044+ S1045+S1160+S6068 ≤ 42,000 bbl/day x 365
573	Tank 573		S21+ S23+S24+S26+S497+S560+S561+ S572+S573+S598+S815+S985+S1043+S1044+ S1045+S1160+S6068 ≤ 42,000

VI. Permit Conditions

S-#	Description	Daily Limit	Annual Limit
			bbl/day x 365
598	Tank 598		S21+ S23+S24+S26+S497+S560+S561+ S572+S573+S598+S815+S985+S1 043+S1044+ S1045+S1160+S6068 ≤ 42,000 bbl/day x 365
610	Tank 610		S610+S1133 ≤ 48,000 bbl/day x 365
611	Tank 611		82,217 bbl/day x 365
612	Tank 612		S612+S613 < 210,686 bbl/day x 365
613	Tank 613		S612+S613 < 210,686 bbl/day x 365
815	Tank 815		S21+ S23+S24+S26+S497+S560+S561+ S572+S573+S598+S815+S985+S1 043+S1044+ S1045+ S1160+S6068 ≤ 42,000 bbl/day x 365
985	Tank 985		S21+ S23+S24+S26+S497+S560+S561+ S572+S573+S598+S815+S985+S1 043+S1044+ S1045+S1160+S6068 ≤ 42,000 bbl/day x 365
1006	Tank 1006		S548+S549+S1006+S1235+ S1236 < 5,412 bbl/day x 365
1031	Tank 1031		S1031+S1046+S1051+S1134+ S1159+S1753+S1754+S1755+ S1756 < 508,114 bbl/day x 365
1043	Tank 1043		S21+ S23+S24+S26+S497+S560+S561+ S572+S573+S598+S815+S985+S1 043+S1044+ S1045+S1160+S6068 ≤ 42,000 bbl/day x 365
1044	Tank 1044		S21+

VI. Permit Conditions

S-#	Description	Daily Limit	Annual Limit
			S23+S24+S26+S497+S560+S561+S572+S573+S598+S815+S985+S1043+S1044+S1045+S1160+S6068 ≤ 42,000 bbl/day x 365
1045	Tank 1045		S21 +S23+S24+S26+S497+S560+S561+S572+S573+S598+S815+S985+S1043+S1044+S1045+S1160+S6068 ≤ 42,000 bbl/day x 365
1046	Tank 1046		S1031+S1046+S1051+S1134+S1159+S1753+S1754+S1755+S1756 < 508,114 bbl/day x 365
1051	Tank 1051		S1031+S1046+S1051+S1134+S1159+S1753+S1754+S1755+S1756 < 508,114 bbl/day x 365
1076	Tank 1076		S3+S4+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		S1031+S1046+S1051+S1134+S1159+S1753+S1754+S1755+S1756 < 508,114 bbl/day x 365
1140	Tank 1140		27,840 bbl/day x365
1146	Tank 1146		S1146+S1147 < 14,640 bbl/day x 365
1147	Tank 1147		S1146+S1147 < 14,640 bbl/day x 365
1159	Tank 1159		S1031+S1046+S1051+S1134+S1159+S1753+S1754+S1755+S1756 < 508,114 bbl/day x 365
1160	Tank 1160		S21+

VI. Permit Conditions

S-#	Description	Daily Limit	Annual Limit
			S23+S24+S26+S497+S560+S561+ S572+S573+S598+S815+S985+S1 043+S1044+ S1045+ S1160+S6068 ≤ 42,000 bbl/day x 365
1161	Tank 1161		240,000 bbl/day x 365
1235	Tank 739 Chem Storage		S548+S549+S1006+S1235+ S1236 < 5,412 bbl/day x 365
1236	Tank 740 Chem Storage		S548+S549+S1006+S1235+ S1236 < 5,412 bbl/day x 365
1423	DH Gas Oil Straightrun Hydrotreater (GOHT)	28,000 bbl/day	365 x Daily Limit
1425	DH Catalytic Reformer Unit (CRU)	32,000 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
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
1751	Tank 1330		S1751+S1752 < 45,953 bbl/day x 365
1752	Tank 1331		S1751+S1752 < 45,953 bbl/day x 365
1753	Tank 1332 Gasoline		S1031+S1046+S1051+S1134+ S1159+S1753+S1754+S1755+ S1756 < 508,114 bbl/day x 365
1754	Tank 1333 Gasoline		S1031+S1046+S1051+S1134+ S1159+S1753+S1754+S1755+ S1756 < 508,114 bbl/day x 365
1755	Tank 1334 Gasoline		S1031+S1046+S1051+S1134+ S1159+S1753+S1754+S1755+ S1756 < 508,114 bbl/day x 365
1756	Tank 1335 Gasoline		S1031+S1046+S1051+S1134+ S1159+S1753+S1754+S1755+ S1756 < 508,114 bbl/day x 365
1757	Tank 1336	S1757+S1758+S4334 ≤125,829 bbl/day	365 x Daily Limit

VI. Permit Conditions

S-#	Description	Daily Limit	Annual Limit
1758	Tank 1337	S1757+S1758+S4334 ≤125,829 bbl/day	365 x Daily Limit
1764	OPCEN Dimersol Plant (DIMER)	4,000 bbl/day dimate produced	365 x Daily Limit
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
6068	Heated Tank 22		S21+ S23+S24+S26+S497+S560+S561+ S572+S573+S598+S815+S985+S1 043+S1044+ S1045+ S1160+S6068 ≤ 42,000 bbl/day x 365
4334	Tank 13276 Alkylate	S1757+S1758+S4334 ≤125,829 bbl/day	365 x Daily Limit

1b. The following throughput limits are those which have permit conditions or application information as the basis. Exceedance of these limits is a violation of Regulation 2-1-307 immediately upon exceedance of the limit. (basis: Regulation 2-1-307).

S-#	Description	Daily Limit	Annual Limit
19	Tank S19		S19+S1139 < 7,300,000 bbl/yr (Condition 18646, Part 1)
540	Tank 540		340,000,000 gal/yr (AN 14163)
967	Tank 967		7,3000,000 bbl/year (AN 22045)
1070	Tank 1070		175,200,000 gal/year (AN 2736)
1114	Tank 1114		S1114+S1115 ≤365,000 bbl/yr (AN 12025)
1115	Tank 1115		S1114+S1115 ≤365,000 bbl/yr (AN 12025)
1128	Tank 1128	55,000 bbl/day	20,075,000 bbl/year

VI. Permit Conditions

S-#	Description	Daily Limit	Annual Limit
			(AN 22045)
1139	Tank 1139		S19+S1139 < 7,300,000 bbl/yr (Condition 18646, Part 1)
1417	OPCEN Distillate Saturation Unit (DSU)	26,000 bbl/day	365 x Daily Limit (AN 2991)
1420	DH Crude Unit (CU)	178,800 bbl/day	59,568,000 bbl/yr (AN 9504)
1424	DH Naphtha Straightrun Hydrotreater (NHT)	31,500 bbl/day	10,609,974 bbl/yr (Condition 24162, Part 1)
1426	CP Catalytic Cracking Unit (CCU)	79,500 bbl/day	365 x Daily Limit (Condition 25345, Part 1)
1431	CP Sulfur Plant 1 (SRU1)	S1431+S1432 < 331 Equivalent Long Tons/Day	365 x Daily Limit (AN 5722)
1432	CP Sulfur Plant 2 (SRU2)	S1431+S1432 < 331 Equivalent Long Tons/Day	365 x Daily Limit (AN 5722)
1507	UTIL CO Boiler 1	5,568 MMBTU/day (LHV) 6,125 MMBTU/day (HHV)	365 x Daily Limit (Condition 12271)
1509	UTIL CO Boiler 2	5,568 MMBTU/day (LHV) 6,125 MMBTU/day (HHV)	365 x Daily Limit (Condition 12271)
1512	UTIL CO Boiler 3	5,568 MMBTU/day (LHV) 6,125 MMBTU/day (HHV)	365 x Daily Limit (Condition 12271)
1759	OPCEN Flexicoker (FXU)	48,300 bbl/day	16,245,500 bbl/yr (AN 26786)
1765	OPCEN Sulfur Plant 3 (SRU3)	150 equivalent long ton/day	365 x Daily Limit (AN 4106, AN 26786)
1774	OPCEN Hydrogen Plant 2 (HP2)	43,500,000 scf/day H2	14,600,000,000 scf/yr H2 (AN 26786)
4001	DC Delayed Coking Unit (DCU)	32,500 bbl/day	365 x Daily Limit (AN 8407)
4020	DC Distillate Hydrotreater (DHT)	30,000 bbl/day	365 x Daily Limit (AN 8407)
1805	Tank 12038		563,000 bbl/yr (AN 2365)
2013	Tank 12467		17,000,000 bbl/yr (AN 1583)
2445	Tank 12445		S2445+S2446 ≤73,000,000 bbl/yr (Condition 6707, Part 1)
2446	Tank 12446		S2445+S2446 ≤73,000,000 bbl/yr

VI. Permit Conditions

S-#	Description	Daily Limit	Annual Limit
			(Condition 6707, Part 1)
4080	DC Isomerization Unit (ISOM)	15,100 bbl/day	365 x Daily Limit (AN 8407)
4140	DC Heavy Cracked Gasoline Hydrotreater (HGHT)	23,200 bbl/day	365 x Daily Limit (AN 6225)
4160	DC Hydrogen Plant –3 (HP3)	90,000,000 scf/day	365 x Daily Limit (AN 8407)
4180	OPCEN Sulfur Plant 4 (SRU4)	140 long tons/day	365 x Daily Limit (AN 8407)
4190	UTIL Boiler 6 Gas Turbine 1	13,152 MMBTU/day	365 x Daily Limit (AN 8407)
4191	UTIL Boiler 6 Supplemental Steam Generator 1	6,192 MMBTU/day	365 x Daily Limit (AN 8407)
4192	UTIL Boiler 6 Gas Turbine 2	13,152 MMBTU/day	365 x Daily Limit (AN 8407)
4193	UTIL Boiler 6 Supplemental Steam Generator 2	6,192 MMBTU/day	365 x Daily Limit (AN 8407)
6062	Ethanol Tank		1,500,000 bbl/yr (AN 14224)
6069	Tank 17596	300,000 bbl/day	43,800,000 bbl/yr (AN 22045)
6070	Tank 17597	300,000 bbl/day	43,800,000 bbl/yr (AN 22045)
6071	Tank 17598	300,000 bbl/day	43,800,000 bbl/yr (AN 22045)
6072	Tank 17595	110,000 bbl/day (constant level operation)	550,000 bbl/yr (constant level operation) (AN 22045)
7000	ETP-3 Aeration Tank and Clarifier	N/A	(AN 21359, Condition # 24795)
17095	Tank 17095		27,000,000 bbl/yr (AN 5700)

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

VI. Permit Conditions

inspection for a period of 60 months from the date that the record was made. (basis: Regulation 2-1-234.3)

3. Effective April 1, 2004, for S1486, S1487, S1488, S1491, S1492, S1493, S1495, S1496, S1497, S1498, S1500, S1504, S1508, S1510, S1511, S1763, S4002, and S4003, the owner/operator shall conduct a visible emissions inspection at each source after every 1 million gallon of liquid fuel combusted, to be counted cumulatively over a 5 year period. If a visible emissions inspection documents opacity, a method 9 evaluation shall be completed within 3 working days, or during the next scheduled operating period if the unit ceases firing on diesel fuel within the 3 working day time frame. (basis: Regulation 2-6-409.2).

4. Effective April 1, 2004, for S1486, S1487, S1488, S1491, S1492, S1493, S1495, S1496, S1497, S1498, S1500, S1504, S1507, S1508, S1509, S1510, S1511, S1512, S1763, S4002, and S4003, the owner/operator shall sample and analyze the liquid fuel to determine its sulfur content after every 1 million gallon of liquid fuel is combusted, to be counted cumulatively over a 5 year period, or at least once every 5 years, whatever comes first. Such quantity 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 (S1480, S1481, S1483, S1486, S1487, S1488, S1491, S1492, S1493, S1495, S1496, S1497, S1498, S1500, S1504, S1506, S1508, S1510, S1511, S1760, S1763, S1490, S1499, S1494, S1502, S1503, S1504, S1505, S1515, S1761, S1762, S1800, S4002, S4003, S4021, S4031, S4141, S4161, S4191, and S4193), the owner/operator shall check for visible emissions The visible emissions check shall take place while the tube is being cleaned and during daylight hours. If 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]

VI. Permit Conditions

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]

8. Effective April 1, 2004, for the sources subject to Regulation 6-1-330 (S1431, S1432, S1765, and S4180) the owner/operator shall conduct a District approved source test annually to determine the concentration of SO3 or H2SO4, or both, expressed as 100% H2SO4 . The results of the source test shall be made available to the District within 60 days of the source test and kept for a minimum of 5 years from the date of the report. The frequency of source testing required under this condition shall be reduced to once every five years if three consecutive annual source tests document that emissions are less than 50 percent of the standard. The frequency of source testing shall revert back to once per year, if a source test documents that emissions are 50 percent of the standard or more. The source testing frequency can again be reduced to once every five years if another three consecutive annual source tests document that emissions are less than 50 percent of the standard. [basis: Regulation 2-6-409.2]

9. Effective April 1, 2004, for the CO Boilers (S1507, S1509, and S1512), the owner/operator shall conduct a District approved source test annually on each source to determine its grain loading rate. The results of the source tests shall be made available to the District within 60 days of the source test and kept for a minimum of 5 years from the date of the report. The frequency of source testing required under this condition shall be reduced to once every five years if three consecutive annual source tests document that emissions are less than 50 percent of the standard. The frequency of source testing shall revert back to once per year, if a source test documents that emissions are 50 percent of the standard or more. The source testing frequency can again be reduced to once every five years if another three consecutive annual source tests document that emissions are less than 50 percent of the standard. [basis: Regulation 2-6-409.2]

(Condition Deleted)

11. The owner/operator shall notify the District in writing by fax or email no less than three calendar days in advance of any scheduled startup or shutdown of any process unit and as soon as feasible for any unscheduled startup or shutdown of a process unit, but no later than 48 hours after the unscheduled startup/shutdown or within the next normal business day. The notification shall be sent in writing by fax or email to the Director of Enforcement and Compliance. The requirement is not federally enforceable.
[basis: Regulation 2-1-403]

VI. Permit Conditions

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. 1772 OPCEN HC Flare 510,000 lbs/hr
    d. S4201 Clean Fuels Flare 2,000,000 lbs/hr

(basis: Regulation 8-1-110.3; 2-1-403)

13. Effective January 1, 2005, in order to demonstrate compliance with Part 12 of this condition, the owner/operator shall record on an hourly basis the pounds of vent gas flared at S1471, S1472, S1771, S1772, and S4201 Flares. The owner/operator shall maintain these records for a period of five years from the date of entry and make sure records are available for the APCO upon request. (basis: Regulation 8-1-110.3; 2-6-409.2; 2-6-501)

14. Conditions for monitoring smoking flares (except for those flares that exclusively burn flexicoker gas with or without supplemental natural gas). Effective January 1, 2005, for the purposes of these conditions, a flaring event is defined as a flow rate of vent gas flared in any consecutive 15 minutes period that continuously exceeds 330 standard cubic feet per minute (scfm) for S1471, S1472, S1772, and S4201. 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 2-6-409.20

15. Effective January 1, 2005, the owner/operator shall use the following procedure for the initial inspection and each 30-minute inspection of a flaring event for S1471, S1472, S1772, and S4201 .

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

    b. If the owner/operator cannot determine that there are no visible emissions using video monitoring, the owner/operator shall conduct a visual inspection outdoors using either:

VI. Permit Conditions

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 6-1-301, 2-1-403)

16. Effective January 1, 2005, the owner/operator shall comply with one of the following requirements if visual inspection is used:
    a. If EPA Method 9 is used, the owner/operator shall comply with Regulation 6-1-301 when operating the flare.
    b. If the procedure of 15.b.ii is used, the owner/operator shall not operate a flare that has visible emissions for three consecutive minutes.
    c. (basis: Regulation 2-6-403)

17. Effective January 1, 2005, the owner/operator shall keep records of all flaring events, as defined in Part 14. The owner/operator shall include in the records the name of the person performing the visible emissions check, whether video monitoring or visual inspection (EPA Method 9 or visual inspection procedure of Part 15 of this condition) was used, the results of each inspection, and whether any violation of this condition (using visual inspection procedure in Part 15 of this condition) or Regulation 6-1-301 occurred (using EPA Method 9). (basis: Regulation 2-6-501; 2-6-409.2)

18. Effective January 1, 2005, for those flares that exclusively burn flexicoker gas with or without supplemental natural gas the owner/operator shall conduct a visual emission inspection weekly following the protocol in Part 16 a, b or c and shall comply with Parts 17 and 18 of this condition. If no visible emissions are observed after 52 weekly inspections, then this condition no longer applies to the flare. (basis: Regulation 2-6-501; 2-6-409.2)

VI. Permit Conditions

19. The owner/operator shall operate S601, S602, and S603 Flares in a manner that complies with H2S fuel gas limit in 60.104(a)(1) and the monitoring requirements in 60.105 at all times, except during periods that the owner/operator burns fuel gas that was released to the flare as a result of relief valve leakage or other emergency malfunctions, or burns process upset gases as defined in 60.101(e).. (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)

VI. Permit Conditions

5. All new centrifugal compressors installed as a new or as a replacement, as part of the MTBE Removal Project shall be equipped with "wet" dual mechanical seals with a heavy liquid barrier fluid, or dual dry gas mechanical seals buffered with inert gas. The barrier fluid pressure pot or inert gas system shall be vented to a control device with a 95% efficiency. All reciprocating compressors installed as part of the MTBE Removal Project shall be vented to a 95% efficient control device. In accordance with the NSPS of 40 CFR 60, Subpart GGG, any new compressor in hydrocarbon service (< 50% hydrogen) shall be equipped with an automatic leak indicator. (basis: BACT/TBACT, Cumulative Increase)

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:

VI. Permit Conditions

i. POC emissions, based on the maximum throughput in Condition 1, do not exceed 20,731 pounds per year, as calculated by the EPA Tanks Program version 4.08 with a 99.5% reduction for vapor recovery; and
ii. toxic emissions in lb/yr, based on the maximum throughput in Condition 1, do not exceed any risk screening trigger level specified in Table 2-1-316.

(basis: Cumulative Increase, Toxics)

3. Sources S19 and S1139 shall be vented to A26 whenever they contain organic liquids. (basis: BACT/TBACT)

4. In order to demonstrate compliance with the condition 1, the owner/operator of S19 and S1139 shall either maintain the total monthly throughput of each material stored, summarized on a consecutive 12-month basis in a District approved log, or shall be able to generate these records on short notice. These records shall be kept on site and made available for District inspection for a period of 60 months from the date that the record was made. (Basis: Cumulative Increase)

Condition # 19748
For S1765

REVISED PERMIT CONDITIONS
(Amended Part 7, for correction to averaging period and Part 14, source test frequency reduction allowance added in 2016 Renewal)

1. The owner/operator shall ensure that SCOT-3 (A76), and Thermal Oxidizer (A2023) abate SRU-3 (S1765) all times of operation. (Basis: Cumulative Increase)

2. The owner/operator shall ensure that the supplemental fuel used at A2023 is PUC quality natural gas. (Basis: Cumulative Increase)

3. The owner/operator shall not emit more than 50 ppmvd NOx @ 15% O2 (0.20 lb/MMBTU) from A2023. (Basis: RACT, Source Test Method 13A)

4. The owner/operator shall not emit more than 350 ppmvd CO @ 15% O2 (0.80 lb/MMBTU) from A2023. (Basis: RACT, Source Test Method 6)

5. No later than 60 days from the startup of A2023, the owner/operator shall conduct District approved source tests to determine initial compliance with the limits in parts 3 and 4 of this permit condition. The owner/operator shall submit the source test results

VI. Permit Conditions

to the District staff no later than 60 days after the source test.
(Basis: RACT, Cumulative Increase)

6. The owner/operator shall obtain approval for all source test procedures from the District's Source Test Section prior to conducting any tests to demonstrate compliance with the limits in parts 3 and 4 of this permit condition. The owner/operator shall comply with all applicable testing requirements as specified in Volume V of the District's Manual of Procedures. The owner/operator shall notify the District's Source Test Section, in writing, of the source test protocols and projected test dates at least 7 days prior to testing.
(Basis: RACT, Cumulative Increase)

7. The owner/operator shall operate A2023 in such a manner, which ensures that the concentration of SO2 in gases exhausting out of its stack does not exceed 250 ppmvd at 0 percent oxygen, averaged over 12 hours. (Basis: Cumulative Increase; NSPS Subpart J)

8. To demonstrate compliance with Part 7 of this permit condition, the owner/operator of A2023 shall operate a SO2 continuous emission monitor/recorder (SO2 CEMS) at its exhaust stack. (Basis: Cumulative Increase; NSPS Subpart J)

9. The owner/operator shall operate A2023 in such a manner that ensures that the SO2 emissions associated with gases exhausting out of its stack do not exceed 34.0 tons during any twelve-month rolling period. (Basis: Cumulative Increase)

10. To demonstrate compliance with Part 9 of this permit condition, the owner/operator shall calculate the SO2 mass emissions on a daily basis using the SO2 CEMS data in concert with total stack flow data obtained from a flow rate monitor/recorder at A2023's exhaust stack, or by employing calculations to estimate the total stack flow approved by the APCO. The total stack flow calculation methodology approved by the APCO must utilize the absorber overhead flow meter and the thermal oxidizer natural gas flow meter in conjunction with the methodology prescribed in 40 CFR Part 60, Appendix A, Method 19. These records, including the total stack flow calculations, shall be summarized on a monthly basis, and may be in the form of computer-generated data, which is available to District personnel on short notice (rather than actual paper copies of throughput data). These records shall be kept on file for a minimum of 5 years from the date of entry. (Basis: Cumulative Increase, Regulation 2-1-403)

11. The owner/operator shall operate A2023 in such a manner, which ensures that the mass emissions of H2S in gases exhausting out of its stack do not exceed 5.22 pounds per day (0.95 tons per consecutive twelve-month period). (Basis: Cumulative Increase)

VI. Permit Conditions

12. The owner/operator of A2023 shall conduct a District-approved source test at its exhaust stack to determine the concentration of H2S within 60 days following the installation of A2023 and annually thereafter. The owner/operator shall use the results from the source tests to demonstrate compliance with Part 11 of this permit condition, and shall submit supporting calculations verifying compliance with the daily and annual mass emission limits to the District's Permit Evaluation Section. Prior to each source test, the owner/operator shall notify the District's Source Test Section in writing of the projected test dates at least 7 days prior to testing and obtain the District'sapproval of the source test procedures. The frequency of source testing required under this condition shall be reduced to once every five years if three consecutive annual source tests document that emissions are less than 50% of the standard. The frequency of source testing shall revert back to once per year, if a source test documents that emissions are 50% of the standard or more. The source testing frequency may again be reduced to once every five years if three consecutive annual source tests document that emissions are less than 50% of the standard. (Basis: Cumulative Increase)

13. The owner/operator shall operate A2023 in such a manner, which ensures that the Sulfuric Acid Mist emissions associated with gases exhausting out of its stack does not exceed 7.47 tons per consecutive twelve-month period. (Basis: Cumulative Increase)

14. The owner/operator of A2023 shall conduct a District-approved source test at its exhaust stack to determine the concentration of Sulfuric Acid Mist emissions (in grains/dry standard cubic feet @ 0% oxygen) within 60 days following the installation of A2023 and annually thereafter. The owner/operator shall use the results from the source tests to demonstrate compliance with Part 13 of this permit condition, and shall submit supporting calculations verifying compliance with the annual Sulfuric Acid Mist mass emission limit to the District's Permit Evaluation Section. Prior to each source test, the owner/operator shall notify the District's Source Test Section in writing of the projected test dates at least 7 days prior to testing and obtain their approval of the source test procedures. 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: Cumulative Increase, Regulation 6-1-330, Regulation 2-6-409.2)

VI. Permit Conditions

15. In the event that SRU-3 (S1765), SCOT-3 (A76), and/or the thermal oxidizer (A2023) are shut down, the owner/operator shall curtail all acid gas feed to SRU-3 or reallocate the acid gas to other sulfur recovery units such that no acid gas is vented to the flare and unabated SRU-3 tailgas (tailgas not treated in SCOT-3) is not routed to the thermal oxidizer. The owner/operator shall complete the above actions prior to any planned shutdown or within 24 hours of any unplanned shutdown. The owner/operator shall notify the District of all such occurrences within 48 hours of an event. Flaring emissions associated with such events, shall be calculated and included into the SO2 baseline emissions profile (of the REFEMS cap) by the owner/operator.
(Basis: Cumulative Increase)

16. The owner/operator shall operate A2023 at or above 1,000 degrees F. The District may adjust this minimum temperature, if source test data demonstrates that an alternate temperature is necessary for or capable of maintaining compliance with Parts 7 and 11 of this permit condition. (Basis: Cumulative Increase; BACT/TBACT)

17. To determine compliance with the temperature requirement in Part 16 of this permit condition, the owner/operator of A2023 shall be equipped with a temperature measuring device capable of continuously measuring and recording the temperature in A2023. The owner/operator shall install, and maintain in accordance with manufacturer's recommendations, a temperature measuring device that meets the following criteria: the minimum and maximum measurable temperatures with the device are 0 degrees F and 2,000 degrees F, respectively, and the minimum accuracy of the device over this temperature range shall be 1.0 percent of full-scale. (Basis: Regulation 1-521)

18. The owner/operator shall report any non-compliance with Parts 7, 9, 11, 13, and 16 of this permit condition to the Director of the Compliance & Enforcement Division within 96 hours from the time that the owner/operator discovers the non-compliance. The submittal shall detail the corrective action taken and shall include the data showing the exceedance as well at the time of occurrence. (Basis: Regulations 1-523.8 and 2-1-403)

19. The temperature limit in Part 16 of this permit condition shall not apply during an "Allowable Temperature Excursion", provided that the temperature controller setpoint complies with the temperature limit. An Allowable Temperature Excursion is one of the following:
    a. A temperature excursion not exceeding 20 degrees F; or
    b. A temperature excursion for a period or periods which when combined are less than or equal to 15 minutes in any hour; or

VI. Permit Conditions

c. A temperature excursion for a period or periods which when combined are more than 15 minutes in any hour, provided that all three of the following criteria are met.

i. the excursion does not exceed 50 degrees F;

ii. the duration of the excursion does not exceed 24 hours; and

iii. the total number of such excursions does not exceed 12 per calendar year (or any consecutive 12 month period).

d. Any temperature excursion of more than 50 degrees Fahrenheit for more than 15 minutes in any hour is not an "Allowable Temperature Excursion".

Two or more excursions greater than 15 minutes in duration occurring during the same 24-hour period shall be counted as one excursion toward the 12-excursion limit.

(Basis: Regulation 2-1-403)

20. For each Allowable Temperature Excursion that exceeds 20 degrees F and 15 minutes in duration, the Permit Holder shall keep sufficient records to demonstrate that they meet the qualifying criteria described above. Records shall be retained for a minimum of five years from the date of entry, and shall be made available to the District upon request. Records shall include at least the following information:

    a. Temperature controller setpoint;

    b. Starting date and time, and duration of each Allowable Temperature Excursion;

    c. Measured temperature during each Allowable Temperature Excursion;

    d. Number of Allowable Temperature Excursions per month, and total number for the current calendar year; and

    e. All strip charts or other temperature records.

    (Basis: Regulation 2-1-403)

21. For the purposes of Parts 19 and 20 of this permit condition, a temperature excursion refers only to temperatures below the limit.
    (Basis: Regulation 2-1-403)

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

VI. Permit Conditions

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]

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]

VI. Permit Conditions

Condition #20755
For S1769, OPC1-Dry Fines Silo V-1021

1. The owner/operator shall not route coke fines from S-1769 to the portable filter truck (A-771) more than 96 hours during any consecutive 12-month basis. (Basis: Regulation 6-1-301, 6-1-310, and/or 6-1-311)

2. In order to demonstrate compliance with the above permit conditions, the following records shall be maintained in a Disctrict approved log. These records shall be kept on site and made available for District inspection for a period of at least five years from the date on which a record is made.

   a. Date and time when A-771 is put in use; the hours shall be summarized for each consecutive 12-month period.
   b. Recordsof all inspections and all maintenance work including filter replacement for the filter truck. Records of each inspection shall consist of a log containing the date of inspection and the initials of the personnel that inspects the filter. (Basis: Regulation 1-441)

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)

VI. Permit Conditions

Condition # 21593:
For Gasoline Dispensing Facility #7114 (S1598)

1. The EBW EVR Phase I Vapor Recovery System, including all associated plumbing and components, shall be operated and maintained in accordance with the most recent version of California Air Resources Board (CARB) Executive Order VR-104. Section 41954(f) of the California Health and Safety Code prohibits the sale, offering for sale, or installation of any vapor control system unless the system has been certified by the state board.

2. The owner or operator shall conduct and pass a Rotatable Adaptor Torque Test (CARB Test Procedure TP201.1B) and either a Drop Tube/Drain Valve Assembly Leak Test (TP201.1C) or, if operating drop tube overfill prevention devices ("flapper valves"), a Drop Tube Overfill Prevention Device and Spill Container Drain Valve Leak Test (TP201.1D) at least once in each 36-month period. Measured leak rates of each component shall not exceed the levels specified in VR-104. Results shall be submitted to BAAQMD within 15 days of the test date in a District-approved format.

The applicant shall notify Source Test by email at gdfnotice@baaqmd.gov or by FAX at (510) 758-3087, at least 48 hours prior to any testing required for permitting. Test results for all performance tests shall be submitted within fifteen (15) days of testing. Start-up tests results submitted to the District must include the application number and the GDF number. (For annual test results submitted to the District, enter "Annual" in lieu of the application number.) Test results may be submitted by email (gdfresults@baaqmd.gov), FAX (510) 758-3087) or mail (BAAQMD Source Test Section, 939 Ellis Street, San Francisco CA 94109).

Condition # 21671
For S6061

1. The owner/operator shall ensure that the hopper trucks that are used to transload flexicoker bed coke from silos S-1767 and S-1768 into rail cars within the refinery are equipped with self-contained particulate control filters which will ensure compliance with the Ringelmann 1 standard in Regulation 6 Rule 1, Section 301. (Basis: Regulation 6-1-301)

2. The owner/operator shall ensure the transloading of flexicoker bed coke from hopper trucks into rail cars within the refinery does not exceed 164,250 tons in any consecutive twelve-month period. (Basis: Cumulative Increase)

3. The owner/operator shall maintain daily records of the amount of flexicoker bed coke transloaded from the hopper trucks into the rail cars. The owner/operator shall retain the records on site for five years from the date of entry, and shall make the records available to District staff for inspection upon request. (Basis: Regulation 2-6-501)

VI. Permit Conditions

Condition # 21896: For Hydrogen Plants (HP-1) and (HP-2)

REVISED PERMIT CONDITIONS
(Amended Part 1, source test frequency reduction allowance added, 2016 Renewal)

1. Effective 1/1/05, the owner/operator shall conduct a District-approved annual source test at the deaerator vent and CO2 vent at S1445 (HP-1) and S1774 (HP-2) to demonstrate compliance with Regulation 8-2-301 in accordance with District source test methods or other methods approved in advance by the District. A copy of the test report shall be provided to the District Director of Compliance and Enforcement within 60 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. 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 one of the emissions limits is 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 both emissions limits 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 one of the emissions limits is less than 50 percent of the standard.
   (Basis: Regulation2-6-409.2)

Condition # 22119
For S1760

1. Only gaseous fuel shall be burned in S-1760.
   [Basis: Reg. 1-520.1]
2. The owner/operator shall operate S1760 to not exceed 0.033 lb NOx/MMBTU (HHV) based on a rolling hourly 8760-hour average heat input. Compliance with the NOx emission rate (in lb NOx/MMBTU) shall be determined using the data produced by NOx CEMS and fuel flow meters for the applicable time period.
   [Basis: Shell-EPA Consent Decree]
3. The owner/operator shall operate in a manner that the NOx emissions from S1760 do not exceed 20.09 tons per year. The limit shall include all NOx emissions, including those associated with startups, shutdowns, upsets and malfunctions.
   [Basis: Shell-EPA Consent Decree]

VI. Permit Conditions

Condition # 22165
For ESPs A12, A13, and A14 abating CO Boilers S1507, S1509, and S1512, respectively.

1. The owner/operator of Electrostatic Precipitators (ESP) A12, A13, and A14 that abate CO Boilers S1507, S1509, and S1512, respectively, shall conduct continuous ESP opacity monitoring for reasonable assurance of compliance with Regulations 6-1-310. (Basis: Regulation 2-6-503)
2. Deleted [Basis: Initial compliance demonstration conducted.]
3. Deleted [Basis: Established a range of compliance based on the results of the initial compliance demonstration.]
4. Deleted [Basis: Opacity CEM at A-12, A-13, and A-14 would ensure continued compliance. Therefore, source test not necessary.]
5. Deleted [Basis: Deviation reporting redundant to Title V regulation and BAAQMD Regulation 2-6.]
6. The owner/operator shall operate A12, A13, and A14 that abate CO Boilers S1507, S1509, and S1512, respectively, with no more than one 6-minute average in an hour that exceeds 30% opacity. An exceedance of the opacity limit shall be deemed an exceedance of the particulate limit in Regulation 6-1-310. (Basis: Regulation 2-6-503)

Condition #22820
For S6051 through S6057, S6059, S6060 Diesel Engines:

1. Operating for reliability-related activities is limited to 20 hours per year per engine.
   [Basis: “Stationary Diesel Engine ATCM” CA Code of Regulations, Title 17, Section 93115.6(b)(3)(A)(1)(a) or Regulation 2-5]

2. The owner or operator shall operate each emergency standby engine only for the following purposes: to mitigate emergency conditions, for emission testing to demonstrate compliance with a District, state or Federal emission limit, or for reliability-related activities (maintenance and other testing, but excluding emission testing). Operating while mitigating emergency conditions or while emission testing to show compliance with District, state or Federal emission limits is not limited.
   [Basis: "Stationary Diesel Engine ATCM", CA Code of Regulations, Title 17, Section 93115.6(b)(3)(A)(1)(a) and (b)]

3. The owner/operator shall operate each emergency standby engine only when a non-resettable totalizing meter (with a minimum display capability of 9,999

VI. Permit Conditions

hours) that measures the hours of operation for the engine is installed, operated and properly maintained.
[Basis:"Stationary Diesel Engine ATCM", CA Code of Regulations, Title 17, Section 93115.10(d)(1)]

4. Records: The owner/operator shall maintain the following monthly records in a District-approved log for at least 36 months from the date of entry (60 months if the facility has been issued a Title V Major Facility Review Permit or a Synthetic Minor Operating Permit). Log entries shall be retained on-site, either at a central location or at the engine's location, and made immediately available to the District staff upon request.

   a. Hours of operation for reliability-related activities (maintenance and testing).
   b. Hours of operation for emission testing to show compliance with emission limits.
   c. Hours of operation (emergency)
   d. For each emergency, the nature of the emergency condition.
   e. Fuel usage for each engine(s).

   [Basis: "Stationary Diesel Engine ATCM", CA Code of Regulations, Title 17, Section 93115.10(f) and Regulation 2-6-501, 9-8-530]

Condition # 22850
For S6049, Emergency Standby Diesel Engine and S6073, On-Site Portable Emergency Standby Diesel Fire Pump Engine

1. The owner/operator shall not exceed 50 hours per year per engine for reliability-related testing.
   [Basis: “Stationary Diesel Engine ATCM”, CA Code of Regulations, Title 17, Section 93115.6(a)(3)(A)(1)(c)]

2. The owner/operator shall operate each emergency standby engine only for the following purposes: to mitigate emergency conditions, for emission testing to demonstrate compliance with a District, State or Federal emission limit, or for reliability-related activities (maintenance and other testing, but excluding emission testing). Operating while mitigation emergency conditions or while emission testing to show compliance with District, State or Federal emission limits is not limited.
   [Basis: “Stationary Diesel Engine ATCM”, CA Code of Regulations, Title 17, Section 93115.6(a)(3)(A)(1)(c)]

VI. Permit Conditions

3. The owner/operator shall operate each emergency standby engine only when a non-resettable totalizing meter (with a minimum display capability of 9,999 hours) that measures the hours of operation for the engine is installed, operated and properly maintained.
   [Basis: "Stationary Diesel Engine ATCM", CA Code of Regulations, Title 17, Section 93115.10(d)(1)]

4. Records: The owner/operator shall maintain the following monthly records in a District-approved log for at least 36 months from the date of entry (60 months if the facility has been issued a Title V Major Facility Review Permit or a Synthetic Minor Operating Permit). Log entries shall be retained on-site, either at a central location or at the engine's location, and made immediately available to the District staff upon request.
   a. Hours of operation for reliability-related activities (maintenance and testing).
   b. Hours of operation for emission testing to show compliance with emission limits.
   c. Hours of operation (emergency).
   d. For each emergency, the nature of the emergency condition.
   e. Fuel usage for each engine(s).
   [Basis: "Stationary Diesel Engine ATCM", CA Code of Regulations, Title 17, Section 93115.10(f) and Regulation 2-6-501, 9-8-530]

5. At School and Near-School Operation:
   If the emergency standby engine is located on school grounds or within 500 feet of any school grounds, the following requirements shall apply:

   The owner/operator shall not operate each stationary emergency diesel-fueled engine for non-emergency use, including maintenance and testing, during the following periods:
   a. Whenever there is a school sponsored activity (if the engine is located on school grounds)
   b. Between 7:30 a.m. and 3:30 p.m. on days when school is in session.

   "School" or "School Grounds" means any public or private school used for the purposes of the education of more than 12 children in kindergarten or any of grades 1 to 12, inclusive, but does not include any private school in which education is primarily conducted in a private home(s). "School" or "School Grounds" includes any building or structure, playground, athletic field, or other areas of school property but does not include unimproved school property.
   [Basis: "Stationary Diesel Engine ATCM", CA Code of Regulations, Title 17, Section 93115.4(a)(67), Section 93115.6(a)(1)]

VI. Permit Conditions

Condition # 23003
For S6062: Ethanol Tank.

1. The owner/operator of S-6062 shall not exceed 1,500,000 bbl of denatured ethanol throughput during any twelve-month period. The owner operator may store materials other than denatured ethanol provided that the owner/operator demonstrates by submitting to the District a Data Form X, an MSDS, and a demonstration that there is no increase in emissions and the toxic emissions will not exceed the respective toxic trigger levels in Rule 2-5 (Basis: Cumulative increase, Rule 2-5)

2. The owner/operator of S-6062 shall maintain records of storage tank throughput, material type, and all inspection records. These records shall be summarized on a monthly basis, and may be in the form of computer-generated data, which is available to District personnel on short notice (rather than actual paper copies of throughput data). These records shall be kept on file for a minimum of 5 years. (Basis: Cumulative Increase, Rule 2-5)

Condition # 23559
For S1510

1. Only gaseous fuel shall be burned in S1510.
   [Basis: Regulation 2-1-301]

2. The owner/operator shall operate S1510 to not exceed 0.05 lb NOx/MMBTU (HHV) based on a rolling hourly 8,760-hour average heat input. Compliance with the NOx emission rate (in lb NOx/MMBTU) shall be determined using data gathered by NOx CEMS and fuel flow meters.
   [Basis: Shell-EPA Consent Decree]

3. The owner/operator shall ensure that the allowable NOx emissions from S1510 do not exceed 43.8 tons per year. The allowable NOx emissions shall include emissions associated with startups, shutdowns, upsets and malfunctions.
   [Basis: Shell-EPA Consent Decree]

VI. Permit Conditions

Condition # 23560
For S1511

1. Only gaseous fuel shall be burned in S1511.
   [Basis: Regulation 2-1-301]

2. The owner/operator shall operate S1511 to not exceed 0.033 lb NOx/MMBTU (HHV) based on a rolling hourly 8,760-hour average heat input. Compliance with the NOx emission rate (in lb NOx/MMBTU) shall be determined using data gathered by NOx CEMS and fuel flow meters.
   [Basis: Shell-EPA Consent Decree]

3. The owner/operator shall ensure that the allowable NOx emissions from S1511 do not exceed 8.6724 tons per year. The allowable NOx emissions shall include emissions associated with startups, shutdowns, upsets and malfunctions.
   [Basis: Shell-EPA Consent Decree]

Condition # 23605:
For S6068

1. The owner/operator of S6068 shall not exceed 1,983,600 bbl of asphalt throughput during any consecutive twelve-month period. The owner operator may store materials other than asphalt provided that the owner/operator demonstrates by submitting to the District a Data Form X, an MSDS, and a demonstration that there is no increase in emissions and the toxic emissions will not exceed the respective toxic trigger levels in Rule 2-5. (Basis: Cumulative increase, Regulation 2, Rule 5)

2. The owner/operator of S6068 shall not exceed the following loading rates and their loading termperature limits. Each loading rate is associated with a temperature. During asphalt loading into or out of S6068, the liquid in the tank and the liquid that is loaded shall be at or below the temperature limit for that loading rate.

Temperature, degrees F	Loading rate, bbls/day
300	26,400
310	20,000
320	15,200

   (Basis: Regulation 2-1-403)

3. The owner/operator of S6068 shall not store in S6068 asphalt that is above 320 degrees F. (Basis: Regulation 2-1-305)

VI. Permit Conditions

4. Within 60 days of achieving maximum production rate after initial start-up but no more than 180 days after initial startup, the owner/operator of S6068 shall control the tank with mist eliminator A57 during all loading operations. Prior to startup of the mist eliminator , the owner/operator of S6068 shall not store asphalt in this tank at a temperature above 300 degrees F.
(Basis: Regulation 6-1-310 and 40 CFR 60, Subpart UU, Section 60.472(c).

5. The owner/operator of S6068 shall prevent the discharge into the atmosphere exhaust gases with opacity greater than 0 percent, except for one consecutive 15-minute period in any 24-hour period when the asphalt loading transfer lines are blown clear of liquid/asphalt (what?). If any opacity is observed, the owner/operator shall cease loading immediately and take corrective action. (Basis: 40 CFR 60, Subpart UU, Section 60.472 (c))

6. In order to demonstrate initial compliance with the NSPS standard, the owner/operator shall use EPA Method 9 and the procedures in 40 CFR 60.11. The owner/operator shall demonstrate compliance during loading.
(Basis: 40 CFR 60, Subpart UU, Section 60.474(c)(5))

7. In order to demonstrate ongoing compliance with the NSPS standard, the owner/operator shall use EPA Method 22 once every quarter. The owner/operator shall demonstrate compliance during loading. If loading does not occur during the quarter, the owner/operator shall use EPA Method 22 at the next loading event and resume the quarterly schedule thereafter. The owner/operator shall maintain visible emissions monitoring logs on site for a period of up to 5 years from the first date of entry. The owner/operator shall include the name of the person performing the visible emission check, the results of each inspection and the other records requirements listed in EPA Method 22. (Basis: Regulation 2-6-409.2.2, 2-6-503)

8. The owner/operator of S6068 shall maintain records of storage tank throughput, temperature of the tank, temperature of the loaded asphalt during loading, material type, and all inspection records. These records shall be summarized on a monthly basis, and may be in the form of computer-generated data, which is available to District personnel on short notice (rather than actual paper copies of throughput data). These records shall be kept on file for a minimum of 5 years.
(Basis: Cumulative Increase, Regulation 2, Rules 5 and 6)

VI. Permit Conditions

Condition # 24162:
For S1424

1. The owner/operator of S-1424 "DH Naphtha Straightrun Hydrotreater (NHT) shall ensure that the daily and annual throughput of naphtha range material at the above source does not exceed 31,500 barrels per day and 10,609,974 barrels per year, respectively. (Basis: Regulation 2-1-302)

2. To demonstrate compliance with part 1 of this permit condition, the owner/operator of S-1424 shall maintain records of materials throughput at the above source on a daily basis. These records shall be summarized on a monthly basis, and may be in the form of computer-generated data, which is available to District personnel on short notice (rather than actual paper copies of throughput data). These records shall be kept on file for a minimum of 5 years from the date of entry.
   (Basis: Cumulative Increase, Regulation 2-1-403)

Condition # 24263:
For S-1490, S-1491, S-1492, S-1493, S-1494, S-1495, S-1496, S-1497, S-1498, and S-1499.

1. Only gaseous fuel shall be burned in S-1490, S-1491, S-1492, S-1493, S-1494, S-1495, S-1496, S-1497, S-1498, and S-1499. [Basis: Regulation 2-1-301]

2. The owner/operator shall operate S-1490, S-1491, S-1492, S-1493, S-1494, S-1495, S-1496, S-1497, S-1498, and S-1499 to not exceed 0.033 lb NOx/MMBTU (HHV) based on a rolling hourly 8,760-hour average heat input.
   [Basis: Shell-EPA Consent Decree]

3. The owner/operator shall ensure that the allowable NOx emissions from S-1490, S-1491, S-1492, S-1493, S-1494, S-1495, S-1496, S-1497, S-1498, and S-1499 do not exceed 127.34 tons per year. The allowable NOx emissions shall include emissions associated with startups, shutdowns, upsets and malfunctions.
   [Basis: Shell-EPA Consent Decree]

VI. Permit Conditions

Condition #24298
For Gasoline Dispensing Facility #7114 (S1598)

1. The VST EVR Phase II Vapor Recovery System with the Veeder-Root Vapor Polisher without ISD, including all associated underground plumbing, shall be installed,operated, and maintained in accordance with the most recentrevision of the California Air Resources Board (CARB)Executive Order (E.O.). VR-203. Section 41954(f) of theCalifornia Health and Safety Code prohibits the sale,offering for sale, or installation of any vapor controlsystem unless the system has been certified by the stateboard.

2. The owner/operator of the facility shall maintain recordsin accordance with the following requirements. Records shallbe maintained on site and made available for inspection for a period of 24 months from the date the record is made. Monthly throughput of gasoline pumped, summarized on an annual basis
3. All applicable components shall be maintained to be leakfree and vapor tight. Leak Free, as per BAAQMD (District)Regulation 8-7-203, is a liquid leak of no greater thanthree drops per minute. Vapor Tight, as per DistrictRegulation 8-7-206, is a leak of less than 100 percent ofthe lower explosive limit on a combustible gas detectormeasured at a distance of 1 inch from the source or absenceof a leak as determined by the District Manual ofProcedures, Volume IV, ST-30 or CARB Method TP-201.3.

4. The VST EVR Phase II system with the Veeder-Root VaporPolisher without ISD shall be capable of demonstrating on-going compliance with the vapor integrity requirements ofCARB Executive Order E.O. VR-203. The owner or operatorshall conduct and pass the following tests at least once ineach consecutive 12-month period following successfulcompletion of start-up testing. Tests shall be conducted andevaluated using the below referenced test methods andstandards.
   a. Static Pressure Performance Test - TP-201.3
   b. Dynamic Back Pressure Test - TP-201.4 (7/3/02) inaccordance with the condition listed in item 1 of theVapor Collection Section of E.O. VR-203, Exhibit 2. Thedynamic back pressure shall not exceed 0.35" WC @ 60CFH and 0.62" WC @ 80 CFH Liquid Removal Test - E.O. VR-203, Exhibit 5, Option 1(Only test hoses containing more than 25 ml liquid)
   c. Vapor Pressure Sensor Verification Test - E.O. VR-203, Exhibit 8,
   d. Veeder-Root Vapor Polisher Operability Test. E.O. VR-203, Exhibit 11
   e. Veeder-Root Vapor Polisher Emissions Test - E.O. VR-203, Exhibit 12

5. The applicant shall notify Source Test by email atgdfnotice@baaqmd.gov or by FAX at (510) 758-3087, at least48 hours prior to any testing required for permitting. Testresults for all performance tests shall be submitted in a District-approved format within thirty

VI. Permit Conditions

days of testing.Start-up tests results submitted to the District mustinclude the application number and the GDF number. (Forannual test results submitted to the District, enter "Annual" in lieu of the application number.) Test results may be submitted by email (gdfresults@baaqmd.gov), FAX (510)758-3087) or mail (BAAQMD Source Test Section, 939 EllisStreet, San Francisco CA 94109).

6. The maximum length of the coaxial hose assembly,including breakaway, swivels, and whip hoses, shall befifteen (15) feet..

7. The dispensing rate shall not exceed ten (10.0) gallonsper minute (gpm), nor be less than six (6.0) gpm with thenozzle trigger at the highest setting. Compliance with thiscondition shall be verified using the applicable provisionsof E.O. VR-203, Ex. 5. Flow limiters may not be used.

8. The TLS console controlling the Veeder-Root VaporPolisher shall be equipped with a printer and have an openRS232 port that is accessible to District staff duringoperating hours.

9. Except when necessary for testing and maintenance, theVeeder-Root Vapor Polisher shall be on and in automaticvapor processor mode with the inlet valve in the openposition per E.O. VR-203, Ex. 2. The handle shall not beremoved for any reason.

10. The station shall maintain OSHA-approved access to theVeeder-Root Vapor Polisher. This access should be providedimmediately upon request by District personnel

11. Security tags shall be installed and maintained on theVeeder-Root Vapor Polisher. A Veeder-Root Vapor Polisher Operability Test and a Veeder-Root Vapor Polisher EmissionsTest shall be performed after the replacement of any damaged or missing tags using the above referenced test methods andsubject to the above notification and reporting requirements.

12. Each storage tank vent pipe shall be equipped with a CARB certified pressure/vacuum relief valve as required by the applicable Phase I E.O.. Vents pipes may be manifolded to reduce the number of relief valves needed. No relief valve shall be installed on the Veeder-Root Vapor Polisher outlet.

VI. Permit Conditions

AMP Condition #24335:
For S-1426

1. In lieu of the daily testing using Method 8 (40 CFR Part 60, Appendix A) and for the purposes of demonstrating compliance with the sulfur oxides (SOx) limit (calculated as sulfur dioxide) of 20 lb/ton of coke burn-off in Section 60.104(b)(2), the owner/operator of the CCU (S-1426) shall be permitted to use information recorded by the sulfur dioxide (SO2) CEMS at each of the three CO boiler stacks located at S-1507, S-1509, and S-1512 in concert with the appropriate mass balance calculations. The owner/operator shall use a factor of 1.072 to correct the SO2 CEMS concentration for unmeasured sulfur trioxide (SO_3). (Basis: Alternative Monitoring Plan, 40 CFR 60.13(i))

2. The owner/operator shall certify the SO_2 CEMs at each of the three CO boiler stacks located at S-1507, S-1509, and S-1512 by Performance Specification 2 of Appendix B of 40 CFR Part 60, and the CEMs will be quality assured through annual relative accuracy test audits (RATA).
(Basis: Alternative Monitoring Plan, 40 CFR 60.13(i))

3. The owner/operator shall measure oxygen (O_2), carbon monoxide (CO) and carbon dioxide (CO_2) in the CCU regenerator off-gas with O_2, CO and CO_2 CEMS in place of using Methods 1,2,3 and 4 in 40 CFR Part 60, Appendix A. The CEMS data shall be used to determine the flue gas flow rate and moisture content by nitrogen balance around the CCU regenerator and fuel combustion stoichiometry. (Basis: Alternative Monitoring Plan, 40 CFR 60.13(i))

The owner/operator shall certify the O_2, CO and CO_2 CEMs by the appropriate performance specifications in Appendix B of 40 CFR Part 60 and quality assured through annual RATA. (Basis: Alternative Monitoring Plan, 40 CFR 60.13(i))

4. Credits for the portion of SO2 derived from auxiliary fuels, such as refinery fuel gas and flexigas, burned in the CO boilers would be determined through hydrogen sulfide (H2S) CEMS that are in place to demonstrate compliance with the NSPS J H2S limit. The H2S measured by the CEMS would be converted into equivalent SO2 value and would be subtracted from the total SOx. The owner/operator shall use the corrected SO_x emission rates for auxiliary fuel credits, the CO boiler dry stack flow rate, and approved mass balance assumptions in order to calculate the equivalent SO_x/Mg coke burn-off. The rolling 7-day average SO_x emission rate from S-1426 would be based on using the calendar day averages of each measured parameter. (Basis: Alternative Monitoring Plan, 40 CFR 60.13(i))

VI. Permit Conditions

AMP Condition #24336:
For S-4002, S-4003, and S-4141

1. For the purposes of demonstrating compliance with Section 60.104(a)(1), the owner/operator shall test the caustic strength of the regenerated caustic at the Caustic Regenerator #2 (CR-2) once per day to ensure a minimum caustic strength of 2 percent by weight of sodium hydroxide. If the measured value of the caustic is less than 2 percent by weight of sodium hydroxide the owner/operator shall conduct Dräger-Tube ® sampling at unit pressure control valve "49 PV-137A" and initiate corrective action.
(Basis: Alternative Monitoring Plan, 40 CFR 60.13(i))

2. The owner/operator shall maintain the following records for a period of up to 5 years from the last date of entry on site and shall make them available to District representatives for review upon request:
a. Daily test results of the caustic strength of the regenerated caustic at CR-2.
b. The time and date of the Dräger-Tube ® sampling; the Dräger-Tube ® sampling test results; the time and date of when the corrective actions were taken; and a report summarizing the root cause of the incident that triggered the sampling.
(Basis: Regulation 2-6-501)

AMP Condition #24337:
For S-1470

1. Deleted. [Basis: Fuel gas streams inherently low in sulfur content are exempt from monitoring per 40 CFR 60.105(a)(4)(iv)]

2. Deleted. [Basis: Fuel gas streams inherently low in sulfur content are exempt from monitoring per 40 CFR 60.105(a)(4)(iv)]

3. Deleted. [Basis: Fuel gas streams inherently low in sulfur content are exempt from monitoring per 40 CFR 60.105(a)(4)(iv)]

4. Deleted. [Basis: Fuel gas streams inherently low in sulfur content are exempt from monitoring per 40 CFR 60.105(a)(4)(iv)]

VI. Permit Conditions

AMP Condition #24338:
For S-4180

1. For the purposes of demonstrating compliance with the NSPS J SO2 limit of 250 ppmv (dry basis) at zero percent excess in Section 60.104(a)(2)(i), the owner/operator shall be permitted to install a SO2 CEM analyzer at SRU #4 (S-4180) that shall be spanned at 250 ppm and 2,500 ppm. (Basis: Alternative Monitoring Plan, 40 CFR 60.13(i))

AMP Condition #24339:
For S-4161

1. Deleted [Basis: Purposed for AMP superseded by 40CFR60.105(a)(4)(iv)(C)]

2. Deleted [Basis: Purposed for AMP superseded by 40CFR60.105(a)(4)(iv)(C)]

Condition # 24795
For S7000 (ETP-3 Aeration Tank), SPM-18141

1. The owner/operator shall ensure that the total POC emissions from S7000 aeration tank at ETP-3 do not exceed 1.814 tons in any consecutive twelve-month period. [Basis: Cumulative Increase, Offsets]

2. The owner/operator shall use the following schedule to sample influent POC concentration:

   Upon initial startup of S7000, the owner/operator shall sample influent POC concentration monthly for 12 months, and calculate POC emissions from S7000. Upon APCO approval, the sample frequency will be reduced from monthly to quarterly after the initial 12 consecutive months of testing. [Basis: Offsets, Cumulative Increase]

3. In order to demonstrate compliance with Part 1, the owner/operator of S7000 aeration tank shall use the following calculation methodology:

   POC emissions from S7000 shall be calculated on a consecutive 12-month period, using POC emission results from TOXCHEM+ (or any other District-approved methodology), calculated monthly or quarterly based on the prior 12-month period, as provided in Part

VI. Permit Conditions

2. Input data for TOXCHEM+ shall include:

    a. Average air rate to S7000 – measured by an inline flow meter, cfm
    b. Average inlet effluent rate to S7000 – measured by an inline flow meter, gpm
    c. Influent POC concentration to S7000 – analyzed for Total Petroleum Hydrocarbons – Gasoline Range (TPHg) ppm expressed as toluene.

    Within 30 days of sampling influent POC concentration, the owner/operator shall demonstrate compliance with Part 1 by calculating POC emissions from S7000 using the above calculation methodology. Any instance of non-compliance with Part 1 shall be reported in accordance with Major Facility Review (Title V) reporting requirements set forth in Regulation 2-6-502. [Basis: Cumulative Increase, Recordkeeping, Regulation 2-6-502]

4. The owner/operator shall maintain monthly records for each operating day of the following:

    a. Air rate to S7000 measured in cfm
    b. Inlet effluent rate to S7000 measured in gpm
    c. Sample results of influent POC concentration
    d. POC emissions from S7000 calculated by TOXCHEM+ (or other District-approved methodology)
    e. POC consecutive twelve-month emissions

    The records shall be kept on site and made available for District inspection for a period of five years from the date that the record was made. [Basis: Cumulative Increase, Recordkeeping]

Condition #25134

For S6069 (TK-17596), Crude Oil Storage Tank, EFR, 300,000 Barrel Capacity
S6070 (TK-17597), Crude Oil Storage Tank, EFR, 300,000 Barrel Capacity
S6071 (TK-17598), Crude Oil Storage Tank, EFR, 300,000 Barrel Capacity
S6072 (TK-17595), Crude Oil Mix Tank, EFR, 55,000 Barrel Capacity
S967 (TK-967), Jet Fuel Storage Tank, IFR, 69,000 Barrel Capacity
S1128 (TK-1128), Crude Oil Storage Tank, IFR, 55,000 Barrel Capacity
S1486, DH F-40 Crude Unit Feed Air Preheater Installation
S1495, DH F-49, Catalytic Reformer Unit (CRU) Preheat Furnace
S1507, EMSR1 – CO Boiler #1

VI. Permit Conditions

S1509, EMSR1 – CO Boiler #2
S1512, EMSR1 – CO Boiler #3
S4021, DHT Recycle Gas Heater

For S6069, S6070, S6071, S6072, and S1128, TANKS

1. The owner/operator shall not exceed the following material throughput limits during any consecutive twelve-month period:
a. 43,800,000 barrels for S6069, S6070, S6071, and S1128
b. 550,000 barrels for S6072c. If either material throughput limit in Parts 1.a or 1.b is exceeded in any 12-month period, the owner/operator shall conduct a district-approved emissions calculation in order to demonstrate that POC emissions did not exceed the total POC emissions listed in Part 2 in any consecutive twelve-month period. POC emissions for crude oil storage tanks S6069, S6070, S6071, and S1128 shall be calculated assuming drain/fill operations and for mix tank, S6072, assuming constant level operations.
[Basis: Cumulative Increase, Offsets]

2. The owner/operator of tanks S6069, S6070, S6071, S6072, and S1128 shall ensure that total POC emissions based on the combined maximum throughput limits in parts 1.a and 1.b, do not exceed 22,200 pounds in any consecutive twelve-month period. [Basis: Cumulative Increase, Offsets]

3. The owner/operator shall not exceed the following material throughput limits in any calendar day. If an annual material throughput limit is exceeded, the owner/operator shall conduct a district-approved emissions calculation in order to demonstrate that POC emissions did not exceed the following maximum permitted emissions limits in any calendar day.

POC emissions for crude oil storage tanks S6069, S6070, S6071, and S1128 shall be calculated assuming drain/fill operations and for mix tank, S6072, assuming constant level operations.

Tank	Throughput Limit, barrels/day	Emissions Limit, lb POC/day
S6069	300,000	88
S6070	300,000	88
S6071	300,000	88
S1128	55,000	24
S6072	110,000	52

[Basis: Regulation 2-1-234]

VI. Permit Conditions

4. The owner/operator shall not exceed the following material throughput limits in any consecutive twelve-month period. If an annual material throughput limit is exceeded, the owner/operator shall conduct a district-approved emissions calculation in order to demonstrate that POC emissions did not exceed the following maximum permitted emissions limits in any consecutive twelve-month period.

POC emissions for crude oil storage tanks S6069, S6070, S6071, and S1128 shall be calculated assuming drain/fill operations and for mix tank, S6072, assuming constant level operations.

Tank	Throughput Limit, barrels/day	Emissions Limit, tons POC/year
S6069	43,800,000	8
S6070	43,800,000	8
S6071	43,800,000	8
S1128	20,075,000	4
S6072	550,000	2

[Basis: Regulation 2-1-234]

5. The owner/operator shall ensure that only the following materials be stored in the external floating roof tanks S6069, S6070, S6071, and S6072:
a. Contents must be at least 97% by volume crude oil;
b. True vapor pressure must be less than 11 psia.
[Basis: Cumulative Increase, BACT, Regulation 2, Rule 5]

6. The owner/operator shall ensure that materials stored in S1128 meet the following criteria:
a. True vapor pressure must be less than 11 psia;
b. The storage of these materials does not increase toxic emissions above any risk screening trigger level of Table 2-5-1 in Regulation 2-5.
[Basis: Cumulative Increase, Regulation 2, Rule 5]

7. The owner/operator shall comply with all applicable requirements of 40 CFR Part 60, Subpart Kb and the requirements of District Regulation 8, Rule 5 for tanks S6069, S6070, S6071, S6072 and S1128. [Basis: BACT, NSPS]

8. The owner/operator shall equip tanks S6069, S6070, S6071, S6072 and S1128 with a temperature monitoring device. [Basis: Cumulative Increase]

9. In order to demonstrate compliance with Parts 1 through 6, the owner/operator shall maintain a district approved log with monthly summaries of all material throughput including

VI. Permit Conditions

emissions calculations as required per parts 1.c, 2, 3 and 4, vapor pressures of tanks, and contents stored in external floating roof tanks as required per part 5a. This log shall be kept on site for at least 5 years from the date of entry and made available to district staff upon request. [Basis: Cumulative Increase, Recordkeeping]

For S967, JET FUEL STORAGE TANK, INTERNAL FLOATING ROOF, 69,000 BARREL CAPACITY

10. The owner/operator of S967 shall not exceed total material throughput of 7,300,000 barrels in any consecutive twelve-month period. [Basis: Cumulative Increase, Offsets, CEQA]

11. The owner/operator of S967 shall ensure that POC emissions based on the maximum throughput in part 10, do not exceed 800 pounds in any consecutive twelve-month period. [Basis: Cumulative Increase, Offsets, CEQA]

12. The owner/operator shall ensure that materials stored in S967 meet the following criteria:
a. True vapor pressure must be less than 0.5 psia;
b. The storage of these materials does not increase toxic emissions above any risk screening trigger level of Table 2-5-1 in Regulation 2-5.
[Basis: Cumulative Increase, Regulation 2, Rule 5]

13. In order to demonstrate compliance with Parts 10 and 11, the owner/operator of S967 shall maintain the total monthly throughput of each material stored including emissions calculations summarized on a consecutive twelve-month basis in a district approved log. This log shall be kept on site for at least 5 years from the date of entry and made available to district staff upon request. [Basis: Cumulative Increase, Recordkeeping]

FUGITIVE COMPONENTS

14. The owner/operator shall submit a count of installed pumps, valves and flanges/connectors and provide each component's unique permanent identification code in this project every 6 months after startup of the first tank until completion of the CTRP. Upon project completion, the owner/operator shall provide the District's Engineering Division with a final count of all fugitive components. The owner/operator has been permitted to install the following fugitive components:

415 valves in hydrocarbon service;
890 flanges/connectors in hydrocarbon service;
6 pumps in hydrocarbon service;

[Basis: Cumulative Increase, Offsets, Regulation 2-5]

VI. Permit Conditions

15. If any of the fugitive component counts exceed the count stated in Part 14, the plant's cumulative emissions for the project shall be adjusted, subject to APCO approval, to reflect the difference between emissions based on predicted versus actual component counts. The owner/operator shall provide to the District all additional required offsets at an offset ratio of 1.15:1 no later than 21 days after submittal of the final POC fugitive count. If the component count increase triggers any additional regulatory review, the owner/operator shall submit an application to address the increased emissions. The owner/operator submitted 1.610 tons per year of POC offset credits corresponding to the fugitive component counts in Part 14. If the actual component count is less than the predicted, the total emissions in Part 19 may be adjusted accordingly, subject to APCO approval, and all emission offsets applied by the owner/operator in excess of the fully offset permitted total POC emissions may be credited back to the owner/operator upon approval by the APCO. [Basis: Offsets, Cumulative Increase]

16. The owner/operator of tanks S6069-S6072, S967, and S1128 shall install only the following types of fugitive components:

a. For valves in hydrocarbon service: (1) bellows sealed, (2) live loaded, (3) graphitic packed, (4) quarter-turn (e.g., ball valves or plug valves), or equivalent technology to comply with provisions in Regulation 8, Rule 18 as determined by the APCO.

b. For flanges in hydrocarbon service: graphitic-based gaskets, metal ring joints, or equivalent technology to comply with provisions in Regulation 8, Rule 18 as determined by the APCO.

c. For pumps in hydrocarbon service: double mechanical seal with barrier fluid, or equivalent technology to comply with provisions in Regulation 8, Rule 18 as determined by the APCO.
[Basis: Cumulative Increase, Regulation 8, Rule 18]

17. The owner/operator shall comply with a leak standard of 100 ppm of TOC (measured as C1) at valves and flanges and 500 ppm at any pumps installed as part of the application 22045 in hydrocarbon service, unless the owner/operator complies with the applicable minimization and repair provisions contained in Regulation 8-18.
[Basis: Cumulative Increase, Regulation 8 Rule 18]

18. The owner/operator shall conduct inspections of fugitive components installed as part of application 22045 in hydrocarbon service in accordance with the frequency below:
Pumps: Quarterly
Valves: Quarterly
Flanges: Annual
[Basis: Cumulative Increase, Regulation 8 Rule 18]

VI. Permit Conditions

19. The owner/operator shall not exceed 1.4 tons of POC emissions per consecutive 365-day period measured as C1 from for all fugitive components installed as part of application 22045 in hydrocarbon service. Reporting for this provision shall be performed quarterly and results shall be submitted to the District's Engineering Divison on a quarterly basis for two years commencing with the completion of the CTRP. The quarterly reports are due within 30 days of the close of each calendar quarter after the District's issuance of the Permit to Operate for Application 22045. [Basis: Cumulative Increase, Offsets]

20. The owner/operator shall keep a District-approved log of fugitive component counts installed as part of application 22045, each component's unique permanent identification codes, monitoring results, and any annual emissions estimates required per part 19 for at least five years from date of entry. The log shall be retained on site and made available to district staff upon request. [Basis: Offsets, Recordkeeping]

For S1486, DH F-40 Crude Unit Feed Air Preheater Installation

21. The owner/operator of S1486 shall not exceed total NOx emissions of 91.6 tons in any consecutive twelve-month period. [Basis: Regulation 2-1-234]

22. To demonstrate compliance with NOx limit of Part 21:
a. Deleted. [Basis: Initial NOx source test completed]
b. The heat input rate used to calculate the NOx emissions shall be determined monthly and expressed as a daily average heat input rate (MMBTU/day-HHV) for each month.
c. Monthly firing rates for S1486 shall be determined using a District-approved fuel flow monitor and recorder.
[Basis: Regulation 2-6-503]

23. The owner/operator shall keep monthly records of S1486 fuel gas firing rates for Part 21 and the initial NOx source test results required by Part 22 for at least five years from the date of entry, and shall make these records available to the District staff upon request. [Basis: Recordkeeping]

For S1507, S1509, and S1512, CO BOILERS

24. The owner/operator shall ensure that total emissions of nitrogen oxides, as NO2, from the three existing CO Boilers (S1507, S1509, and S1512) do not exceed 468 tons in any consecutive twelve-month period. [Basis: CEQA, Offsets]

VI. Permit Conditions

25. The owner/operator shall continue to operate the NOx continuous emission monitors on the CO Boilers (S1507, S1509, and S1512) in accordance with the District's Manual of Procedures, to verify compliance with Part 24. The owner/operator shall use the CEM data to calculate NOx emissions on a monthly basis. [Basis: CEQA, Offsets, Regulation 2-6-503]

For S1486 (DH F-40 CRUDE UNIT FURNACE), S1495 (DH F-49 CRU PREHEAT FURNACE) AND S4021 (DHT RECYCLE FURNACE)

26. The owner/operator shall ensure that total carbon dioxide equivalents (CO_{2e}) emission reductions from S1486 F-40 Air Preheater, S1495 and S4021 combined meet or exceed 17,874 metric tons per year over any consecutive three year rolling average. [Basis: CEQA]

27. Annual CO_{2e} emissions from S1486 Air Preheater, S1495 and S4021 shall be calculated based on the following:
a. Emission factors for natural gas for carbon dioxide (CO_2, methane (CH_4) and nitrous oxide (N_2O):

Carbon dioxide (CO_2)	53.02 kg/MMBtu
Methane (CH_4)	0.9 g/MMBtu
Nitrous Oxide (N_2O)	0.1 g/MMBtu

b. Monthly firing rates for S1495 and S4021 as determined by fuel flow monitors.
c. Monthly inlet and outlet air flow rate and temperature for S1486 Air Preheater
d. CEQA Baseline Actual Firing Rate (BAFR)
1) S1495 114.8 MMBTU/HR HHV
2) S4021 21.9 MMBTU/HR HHV
e. Efficiency Factor 0.45
(Note: S1495 furnace produces incremental steam which is added to the overall steam make of the Refinery. Reducing the S1495 firing rate also reduces the steam it produces; therefore, this steam must be produced by another steam producing unit in the Refinery. The emission reductions for this project must be reduced by the emissions generated by the additional steam production. S1495 is less efficient at steam production by a factor of 0.45 compared to facility's team producing units. Calculation of S1495 fuel reduction must be decreased by this factor because of the additional firing at other steam producing units.)
f. Global Warming Potential Factors
1) CO_2 1
2) CH_4 21
3) N_2O 310
[Basis: CEQA, Regulation 2-6-503]

VI. Permit Conditions

28. Calculation of CO_{2e} emission reductions from S1486 Air Preheater, S1495, and S4021 shall be based on the following methodology. All firing rate duties are in HHV.
a. Total Firing Rate Reduction
i. S1495 and S4021
Total Firing Rate Reduction = [BAFR (S1495) – Actual Firing (S1495)] + [(BAFR(S4021) – Actual Firing(S4021)] – (S1495 Efficiency Factor)[(BAFR(S1495)-Actual Firing(S1495)]
ii. S1486 Air Preheater
Total Firing Rate Reduction = Air Preheater Combustion Inlet Air Heat Content – Air Preheater Combustion Outlet Air Heat Content
b. Emission reductions for each pollutant in Part 27.a.=
[Sum Total Firing Rate Reduction (from Part 28.a.i and 28.a.ii)] [Emission Factor (from Part 27.a)](pollutant Global Warming Potential Factor from Part 27.f)
c. Calculation of CO_{2e} Emission Reductions = Sum of CO_{2e} reductions for each pollutant from Part 28.b.
[Basis: CEQA, Regulation 2-6-503]

RECORDKEEPING

29. The owner/operator shall keep records of all necessary information to demonstrate compliance with Parts 24-28 of this condition. All records shall be retained for at least five years from the date of entry, and shall be made available to the District staff upon request. This includes, but is not limited to, NOx CEM data, fuel usage, air flow rates, air temperature, and emissions calculations. [Basis: CEQA, Recordkeeping]

REPORTING

30. Commencing 30 days after start-up of the first tank, and continuing 5 years thereafter, the owner/operator shall submit a copy of the annual report to the District's Engineering Division required by Land Use Permit #LP10-2006 (Condition 3) summarizing the facility's compliance with the Land Use Permit Conditions of Approval. For each condition, the report shall identify the compliance with the measure, the procedures or stnadards used to judge the compliance as applicable, times and the dates of the monitoring as applicable. The annual reports shall be submitted not later than 60 days after the end of each calendar year. [Basis: CEQA, Recordkeeping]

31. Commencing 30 days after start-up of the first tank, the owner/operator shall submit to the District's Engineering Division a report detailing any non-compliance with the emission limits listed in Land Use Permit #LP10-2006 for Air Quality Condition #7 (LUP Mitigation Measures 4.3-3a & 4.3-3b), and Greenhouse Gas Emissions #14 (LUP Mitigation Measure 4.8-2).
[Basis: CEQA, Recordkeeping]

VI. Permit Conditions

Condition # 25247
For S1507, UTIL CO Boiler 1 (COB 1)
S1509, UTIL CO Boiler 2 (COB 2)
S1512, UTIL CO Boiler 3 (COB 3)

1. SO_2 limits: CO Boiler 1 (S1507), CO Boiler 2 (S1509), and CO Boiler 3 (S1512) associated with operation of the CCU (S1426) shall comply with the following short-term (7-day) and long-term (365-day) rolling average SO_2 limits when abating CCU flue gas:

CO Boiler Operation	Compliance Period	SO_2 Limit, ppmvd @ 0% O_2
2 or 3 CO Boilers	365-day rolling average	109.1
3 CO Boilers	7-day rolling average	156.0
2 CO Boilers	7-day rolling average	204.2

A flow-weighted average SO_2 concentration, based on the combination of CO boilers abating CCU flue gas, shall be used to demonstrate compliance with the above SO_2 limits, subject to the following methodology:

a. Long-Term Limit (365-day rolling average):
   i. The long-term SO_2 limit shall apply to the CO boilers abating CCU flue gas at all times that the CCU is operating, including periods of startup, shutdown, and malfunction.
   ii. For each operating day in which the CCU is not operating, no SO_2 value shall be used in the average, and those days shall be skipped in determining the 365-day average.
b. Short-Term Limits (7-day rolling average):
   i. The short-term SO_2 limits shall apply to the CO boilers abating CCU flue gas at all times that the CCU is operating, excluding periods of CCU startup, shutdown, and malfunction, and except as provided in 1.b.ii. below.
   ii. During hydrotreater outages of the Catalytic Feed Hydrotreater (CFH) S1428 and/or Distillate Hydrotreater (DHT) S4020, the Refinery may comply with the Hydrotreater Outage plan (See Application 22287, 2012), or with the short-term SO_2 limits.
   iii. For each operating day in which the CCU is not operating, no SO_2 value shall be used in the average, and those days shall be skipped in determining the 7-day average.
c. The daily flow-weighted average SO_2 concentration used in calculating the 7-day and 365-day rolling averages shall be monitored and recorded for each operating day, and will be determined from the clock hour averages of CEM data and calculated stack flow rates for each CO boiler abating CCU flue gas.

[Basis: Equilon Consent Decree, paragraphs 13, 14, 42, and 43]

VI. Permit Conditions

2. NO_x limits: CO Boiler 1 (S1507), CO Boiler 2 (S1509), and CO Boiler 3 (S1512) associated with the operation of CCU (S1426) shall comply with the following short-term (24-hour) and long-term (365-day) rolling average NO_x limits when abating CCU flue gas:

CO Boiler	Compliance Period	NO_x limit, ppmvd @ 0% O_2
COB 1	365-day rolling average	130.6
COB 1	24-hour rolling average	168.4
COB 2	365-day rolling average	127.4
COB 2	24-hour rolling average	156.9
COB 3	365-day rolling average	113.1
COB 3	24-hour rolling average	142.7

Compliance with the above NO_x concentration limits for each CO boiler shall be subject to the following methodology:

a. Long-Term Limit (365-day rolling average)
   i. The long-term NO_x limit for each COB shall apply to the CO boilers abating CCU flue gas at all times that the CCU is operating, including periods of startup, shutdown, and malfunction.
   ii. For each operating day in which the CCU is not operating, no NO_x value shall be used in the average, and those days shall be skipped in determining the 365-day average.
   iii. The daily average NO_x concentration used in calculating the 365-day rolling average shall be monitored and recorded for each operating day, and will be determined from the clock hour averages of CEM data for each CO boiler abating flue gas.

b. Short-Term Limit (24-hour rolling average)
   i. The short-term NO_x limit for each COB shall apply to the CO boilers abating CCU flue gas at all times that the CCU is operating, excluding periods of startup, shutdown, and malfunction.
   ii. For each clock hour in which the CCU is not operating, no NO_x value shall e used in the average, and those hours shall be skipped in determining the 24-hour average.
   iii. The hourly average NO_x concentrations used in calculating the 24-hour rolling average shall be monitored and recorded for each operating day, and will be determined from the clock hour averages of CEM data for each CO boiler abating CCU flue gas.

[Basis: Equilon Consent Decree, paragraphs 13, 14, 42, and 43]

VI. Permit Conditions

Condition # 25345
S-1426 (CP Catalytic Cracking Unit (CCU)
S-1427 (CP Catalytic Gas Plant (CGP)

1. The owner/operator of S-1426 and S-1427 shall not exceed a Fluid Catalytic Cracking Unit feed throughput of 79,500 barrels during any day.
   [Basis: Alteration 2-1-233]
2. Deleted. [Basis: The five year recordkeeping and reporting time period has been completed.]
3. In order to demonstrate compliance with part 1 above, the owner/operator of S-1426 and S-1427 shall report and maintain records to comply with the above condition part 1. All records shall be recorded in a District-approved 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: Alteration 2-1-233, 40 CFR 52.21]

FUGITIVE COMPONENTS

4. Deleted. [Basis: Startup condition deleted.]
5. Deleted. [Basis: Startup condition deleted.]

6. The owner/operator S-1426 and S-1427 shall install only the following types of fugitive components:
   a. For valves in hydrocarbon service: (1) bellows sealed, (2) live loaded, (3) graphitic packed, (4) quarter-turn (e.g., ball valves or plug valves), or equivalent technology to comply with provisions in Regulation 8, Rule 18 as determined by the APCO.
   b. For flanges in hydrocarbon service: graphitic-based gaskets, metal ring joints, or equivalent technology to comply with provisions in Regulation 8, Rule 18 as determined by the APCO.
   c. For pumps in hydrocarbon service: double mechanical seal with barrier fluid, or equivalent technology to comply with provisions in Regulation 8, Rule 18 as determined by the APCO.

   [Basis: Cumulative Increase, Regulation 8, Rule 18]
7. Condition deleted. [Basis: Fugitive POC emission reporting completed.]

8. The owner/operator shall keep a District-approved log of fugitive component counts installed as part of application 19872, each component's unique permanent identification codes, monitoring results, and any annual emissions estimates required per part 7 for at least five years from date of entry. The log shall be retained on site and made available to district staff upon request.
   [Basis: Offsets, Recordkeeping]

VI. Permit Conditions

Condition 26555
FUGITIVE COMPONENTS for CGP Energy Recovery Project

1. Within 30 days of project completion, the owner/operator shall submit a final count of installed pumps, valves and flanges/connectors and provide each component's unique permanent identification code. The owner/operator has been permitted to install the following fugitive components:
   77 valves in hydrocarbon service;
   225 flanges/connectors in hydrocarbon service;
   2 pumps in hydrocarbon service;

[Basis: Cumulative Increase, offsets, toxics]

2. If any of the fugitive component counts exceed the count stated in Part 1, the owner/operator shall provide to the District adjusted fugitive component emission estimates to confirm that permit exemption of Regulation 2- 1-128.21 still applies. If the adjusted fugitive component emission estimates exceed the Regulation 2-1-128.21 thresholds, required offsets at an offset ratio of 1.15:1 shall be supplied no later than 21 days after submittal of the final POC fugitive count. If the component count increase triggers any additional regulatory review, the owner/operator shall submit an application to address the increased emissions.

[Basis: Cumulative Increase, offsets, toxics]

3. The owner/operator shall install only the following types of fugitive components:
   a. For valves in hydrocarbon service: (1) bellows sealed, (2) live loaded, (3) graphitic packed, (4) quarterturn (e.g., ball valves or plug valves), or equivalent technology to comply with provisions in Regulation 8,Rule 18 as determined by the APCO.
   b. For flanges in hydrocarbon service: graphitic-based gaskets, metal ring joints, or equivalent technology to comply with provisions in Regulation 8, Rule 18 as determined by the APCO.
   c. For pumps in hydrocarbon service: double mechanical seal with barrier fluid, or equivalent technology to comply with provisions in Regulation 8, Rule 18 as determined by the APCO.

[Basis: Cumulative increase, offsets, toxics]

4. The owner/operator shall keep a District- approved log of fugitive component counts installed as part the project, each component's unique permanent identification codes, and monitoring results for at least five years from date of entry. The log shall be retained on site and made available to district staff upon request.

[Basis: Recordkeeping]

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.

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

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – A
Applicable Limits and Compliance Monitoring Requirements
S3 - Tank 3, S4 - Tank 4, S257 - Tank 257, S548 - Tank 548, S967 - Tank 967,
S1235 - Tank 739 Chem Storage, S1236 - Tank 740 Chem Storage

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Through-put	BAAQMD Condition #18618, Part 1	N		For S3, S4, S1076 Daily throughput limit S3+S4+S1076 ≤ 130,971 bbl/day Annual throughput limits S3+S4+S1076 ≤ 47,804,415 bbl/yr For S257 Daily throughput limit ≤ 10,526 bbl/day Annual throughput limit ≤ 3,841,990 bbl/yr For S548, S1235, S1236 Daily throughput limit S548+S549+S1006 +S1235+S1236 < 5,412 bbl/day Annual throughput limits S548+S549+S1006 +S1235+S1236 < 1,975,380 bbl/yr For S967 Annual throughput limit ≤ 7,300,000 bbl/yr	BAAQMD Condition #18618, Part 2	P/A	Records
Through-put	BAAQMD Condition # 25134, Part 10	Y		For S967 Annual throughput limit < 7,300,000 bbl /consecutive 12-month period	BAAQMD Condition # 25134, Part 13	P/M	Records of material throughput
POC	BAAQMD Condition # 25134, Part 11	Y		For S967 Annual POC emissions shall not exceed 800 pounds/consecutive 12-month period	BAAQMD Condition # 25134, Part 13	P/A	Emission calculations

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	P/A	Source Test

Table VII – C
Applicable Limits and Compliance Monitoring Requirements
CLOSED VENT SYSTEMS & CONTROL DEVICES
S14 – TANK 14, S19 - TANK 19, S20 – TANK 20, S483 – TANK 483, S484 – TANK 484,
S530 – TANK 530, S534 – TANK 534,
S610 – TANK 610, S611 – TANK 611, S612 – TANK 612, S613 – TANK 613,
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 8-5-303.1	N		Pressure vacuum valve set to 90% of tank's maximum allowable working pressure or at least 0.5 psig	BAAQMD 8-5-501.4	P/initial	Records
VOC	BAAQMD 8-5-303.2	N		Pressure vacuum valve sealing mechanism must be gas-tight: < 500 ppm	BAAQMD 8-5-403 8-5-605	P/SA	Method 21 portable hydrocarbon detector

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – C
Applicable Limits and Compliance Monitoring Requirements
CLOSED VENT SYSTEMS & CONTROL DEVICES
S14 – TANK 14, S19 - TANK 19, S20 – TANK 20, S483 – TANK 483, S484 – TANK 484,
S530 – TANK 530, S534 – TANK 534,
S610 – TANK 610, S611 – TANK 611, S612 – TANK 612, S613 – TANK 613,
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	SIP 8-5-303.1	Y		Pressure vacuum valve set pressure within 10% of MAWP of tank, or at least 0.5 psig	SIP 8-5-403	P/SA	Visual inspection
VOC	SIP 8-5-303.2	Y		Pressure vacuum valve gas tight: < 500 ppm (as methane) above background	SIP 8-5-403 8-5-503 8-5-605	P/SA	Method 21 portable hydrocarbon detector
VOC	BAAQMD 8-5-306.1	N		Control device standards; includes 95% efficiency requirement	BAAQMD 8-5-502 and 8-5-603	P/E	Records of liquids stored. Emissions of organic compounds measured using MOP, Vol. IV, ST-34
VOC	BAAQMD 8-5-306.2	N		Pressure vacuum valve must be gas-tight: <500 ppm (as methane) above background	BAAQMD 8-5-403	P/SA	Method 21 portable hydrocarbon detector
VOC	BAAQMD 8-5-328.1	N		Tank cleaning control by abatement of degassing emissions to < 10,000 ppm	BAAQMD 8-5-331 and 8-5-501	P/E	Records
VOC	BAAQMD Condition #7618, Part D.1.a	Y		No more than 12 tanks shall be used to store a liquid with a true vapor pressure of 1.5 psig or greater. (Condition applies to S14, S20, S483, S484, S530, S531, S532, S1139, S1140, S1141 S1751, S1752, S1753, S1754, S1757, S1758,)	BAAQMD Condition #7618, Part G	P/A	Reporting

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – C
Applicable Limits and Compliance Monitoring Requirements
CLOSED VENT SYSTEMS & CONTROL DEVICES
S14 – TANK 14, S19 - TANK 19, S20 – TANK 20, S483 – TANK 483, S484 – TANK 484, S530 – TANK 530, S534 – TANK 534, S610 – TANK 610, S611 – TANK 611, S612 – TANK 612, S613 – TANK 613, 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 Condition #18646, Part 2bi	Y		Applies to S19 and S1139 POC emissions, based on the maximum throughput in Part 1, do not exceed 20,731 pounds per year, as calculated by the EPA Tanks Program version 4.08 (or subsequent version) with a 99.5% reduction for vapor recovery	BAAQMD Condition #18646, Part 4	P/M	Records
VOC	BAAQMD Condition # 20398 Part 1	Y		Applies to S534 and S1141 Throughput of S543+S1141 < 4,755,000 bbl/yr	BAAQMD Condition # 20398 Part 4	PM	Records
VOC	BAAQMD Condition # 20398 Part 2	Y		Applies to S534 and S1141 RVP < 11 psia	BAAQMD Condition # 20398 Part 4	PM	Records
HAP	BAAQMD Condition #18646, Part 2bii	N		Applies to S19 and S1139 Toxic emissions in lb/yr, based on the maximum throughput in Condition 1, do not exceed any risk screening trigger level specified in Table 2-1-316	BAAQMD Condition #18646, Part 4	P/M	Records

VII. Applicable Limits and Compliance Monitoring Requirements

Through-put	BAAQMD Condition #18618, Part 1	N		Applies to S14 Daily throughput ≤ 143,657 BPD Annual throughput ≤ 52,434,805 BPY Applies to S19 and S1139 Annual throughput S19+S1139 < 7,300,000 BYP Applies to S20 Daily throughput ≤ 13,131 BPD Annual throughput ≤ 4,792,815 BPY Applies to S483, S484, & S530 Daily throughput S483+S484+S530 + S532+S545 < 217,097 BPD Annual throughput < 79,240,405 BPY Applies to S610 and S1133 Daily throughput S610+S1133 ≤ 48,000 BPD Annual throughput ≤ 17,520,000 BPY Applies to S611 Daily throughput < 82,217 BPD Annual throughput < 30,009,205 BPY Applies to S612 and S613 Daily throughput S612+S613 < 210,686 BPD Annual throughput < 76,900,390 BPY	BAAQMD Condition #18618, Part 2	P/A	Records
				Applies to S1134 Daily throughput S1031+S1046+S1051+ S1134+S1159+S1753+ S1754+S1755+ S1756 < 508,114 BPD Annual throughput			

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – C
Applicable Limits and Compliance Monitoring Requirements
CLOSED VENT SYSTEMS & CONTROL DEVICES
S14 – TANK 14, S19 - TANK 19, S20 – TANK 20, S483 – TANK 483, S484 – TANK 484, S530 – TANK 530, S534 – TANK 534, S610 – TANK 610, S611 – TANK 611, S612 – TANK 612, S613 – TANK 613, 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
				< 185,461,610 BPY Applies to S1140 Daily throughput < 27,840 BPD Annual throughput < 10,161,600 BPY			
Through-put	BAAQMD Condition #18646, Part 1	Y		Applies to S19 and S1139 Combined throughput shall not exceed 7,300,000 barrels in any 12-month period and combined gasoline throughput shall not exceed 1,650,000 barrels in any 12-month period	BAAQMD Condition #18646, Part 4	P/M	Records

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – D
Applicable Limits and Compliance Monitoring Requirements
CLOSED VENT SYSTEMS & CONTROL DEVICES
S13 - TANK 13
S1751 – TANK 1330, S1752 – TANK 1331,
S1753 – TANK 1332 GASOLINE, S1754 – TANK 1333 GASOLINE,
S1757 – TANK 1336, S1758 – TANK 1337

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	BAAQMD 8-5-303.1	N		Pressure vacuum valve set to 90% of tank's maximum allowable working pressure or at least 0.5 psig	BAAQMD 8-5-501.4	P/initial	Records
VOC	BAAQMD 8-5-303.2	N		Pressure vacuum valve sealing mechanism must be gas-tight: < 500 ppm	BAAQMD 8-5-403 8-5-605	P/SA	Method 21 portable hydrocarbon detector
VOC	SIP 8-5-303.1	Y		Pressure vacuum valve set pressure within 10% of MAWP of tank, or at least 0.5 psig	SIP 8-5-403	P/SA	Visual inspection
VOC	SIP 8-5-303.2	Y		Pressure vacuum valve gas tight: < 500 ppm (as methane) above background	SIP 8-5-403 8-5-503 8-5-605	P/SA	Method 21 portable hydrocarbon detector
VOC	BAAQMD 8-5-306.1	N		Control device standards; includes 95% efficiency requirement	BAAQMD 8-5-502 and 8-5-603	P/E	Records of liquids stored. Emissions of organic compounds measured using MOP, Vol. IV, ST-34
VOC	BAAQMD 8-5-306.2	N		Pressure vacuum valve must be gas-tight: <500 ppm (as methane) above background	BAAQMD 8-5-403	P/SA	Method 21 portable hydrocarbon detector
VOC	BAAQMD 8-5-328.1	N		Tank cleaning control device standards; includes 90% efficiency requirement	BAAQMD 8-5-331 8-5-502.2 and 8-5-603	P/A	Annual source test using MOP, Vol. IV, ST-7

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – D
Applicable Limits and Compliance Monitoring Requirements
CLOSED VENT SYSTEMS & CONTROL DEVICES
S13 - TANK 13
S1751 – TANK 1330, S1752 – TANK 1331,
S1753 – TANK 1332 GASOLINE, S1754 – TANK 1333 GASOLINE,
S1757 – TANK 1336, S1758 – TANK 1337

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	NSPS 40 CFR 60 Subpart Ka 60.112a(a)(3)	Y		Control device standards; at least 95% efficient	NSPS 40 CFR 60 Subpart Ka 60.115a(d)(2)	N	Storage vessels equipped with a closed vent system and control device are exempt from monitoring
VOC	BAAQMD Condition #7618, Part D.1.a	Y		No more than 12 tanks shall be used to store a liquid with a true vapor pressure of 1.5 psig or greater. (Condition applies to S14, S20, S483, S484, S530, S531, S532, S1139, S1140, S1141,S1751, S1752, S1753, S1754, S1757, S1758,)	BAAQMD Condition #7618, Part G	P/A	Reporting

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – D
Applicable Limits and Compliance Monitoring Requirements
CLOSED VENT SYSTEMS & CONTROL DEVICES
S13 - TANK 13
S1751 – TANK 1330, S1752 – TANK 1331,
S1753 – TANK 1332 GASOLINE, S1754 – TANK 1333 GASOLINE,
S1757 – TANK 1336, S1758 – TANK 1337

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Through-put	BAAQMD Condition #18618, Part 1	N		Applies to S13 Daily throughput limit ≤ 36,000 BPD Annual throughput limit ≤ 13,140,000 BPY Applies to S1751 and S1752 Daily throughput S1751+S1752 < 45,953 BPD Annual throughput < 16,772,845 BPY Applies to S1753 and S1754 Daily throughput S1031+S1046+S1051+ S1134+S1159+S1753+ S1754+S1755+ S1756 < 508,114 BPD Annual throughput < 185,461,610 BPY Applies to S1757 and S1758 Daily throughput S1757+S1758+S4334 ≤ 125,829 BPD Annual throughput ≤ 45,927,585 BPY	BAAQMD Condition #18618, Part 2	P/A	Records

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII - E
Applicable Limits and Compliance Monitoring Requirements
S21 –TANK 21, S23 –TANK 23, S24 –TANK 24, S26 –TANK 26, S497 –TANK 497,
S552 –TANK 552, S553 –TANK 553, S554 –TANK 554, S555 –TANK 555,S556 –TANK 556,
S557 –TANK 557, S558 –TANK 558, S559 –TANK 559, S560 –TANK 560, S561 –TANK 561,
S567 –TANK 567, S571 –TANK 571, S572 –TANK 572, S573 –TANK 573, S598 –TANK 598,
S815 –TANK 815, S867 –TANK 867, S868 –TANK 868, S876 –TANK 876, S961 –TANK 961,
S985 –TANK 985, S1017 –TANK 1017, S1018 –TANK 1018, S1041 –TANK 1041, S1043 –TANK 1043,
S1044 –TANK 1044, S1045 –TANK 1045, 1048 –TANK 1048, S1075 - TANK 1075,
S1160 –TANK 1160,
S1408 – LUBS BLENDING AND SHIPPING,
S1523 – LUBS LOADING RACK INSIDE T/T,
S1524 – LUBS LOADING RACK OUTSIDE T/T AND T/C,
S1525 – LUBS LOADING RACK PAVING,

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Through-put	BAAQMD Condition #18618, Part 1	N		Applies to S21,S23, S24, S26, S497, S560, S561, S572, S573, S598, S815, S985, S1043, S1044, S1045, and S1160 Daily throughput S21+ S23+S24+S26+S497+S560+ S561+S572+S573+S598+S8 15+S985+S1043+S1044+S1 045+ S1160+S6068 ≤ 42,000 BPD Annual throughput ≤ 15,330,000 BPY Applies to S552, S553, S554, S555, S556, S557, S558, S559, S567 Daily throughput S552+S553+S554+S555+S5 56+S557+S558+S559 +S567 + S568 < 10,650 BPD Annual throughput < 3,887,250 BPY	BAAQMD Condition #18618, Part 2	P/A	Records

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – F
Applicable Limits and Compliance Monitoring Requirements
EXTERNAL FLOATING-ROOF TANKS
S540 – TANK 540, 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	P/Semi-A	Inspections
VOC	BAAQMD 8-5-321	Y			BAAQMD 8-5-401.1	P/Semi-A	Inspections
VOC	BAAQMD 8-5-322	N			BAAQMD 8-5-401.1	P/Semi-A	Inspections
VOC	BAAQMD 8-5-328.1	N		Tank cleaning control device standards; includes 90% efficiency requirement	BAAQMD 8-5-331 8-5-502.2 and 8-5-603	P/A	Annual source test using MOP, Vol. IV, ST-7
VOC	BAAQMD Condition # 7382 Part 4 and 5	Y		Applies to S1072 Total liquid throughput shall not exceed 18.2 million barrels during any consecutive twelve-month period	BAAQMD Condition # 7382 Part 6	P/M	Records
VOC	BAAQMD Condition #12174, Part 1	Y		Applies to S545 Steam coils shall not be used when the stored material has an API greater than 20	BAAQMD Condition #12174, Part 1	P/E	Records
VOC	BAAQMD Condition #12271, Part 51	Y		Applies to S1129 Tank cleaning VOC emissions shall be vented to a control device with 95% capture and destruction efficiency on a mass basis until concentration of organic compounds in tank is less than 10,000 ppm as methane	BAAQMD Regulation 8-5-404, 8-5-502.2, and 8-5-603	P/A	Source Test
HAP	NESHAP 40 CFR 63 Subpart CC 63.646(a), 63.120(b)(3) and 63.120(b)(5)	Y		Primary rim-seal standards; includes gap criteria	NESHAP 40 CFR 63 Subpart CC 63.646(a), 63.120 (b)(1) and 63.120(b)(2)	P/5 yr intervals	Measurement and visual inspection

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – F
Applicable Limits and Compliance Monitoring Requirements
EXTERNAL FLOATING-ROOF TANKS
S540 – TANK 540, 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
HAP	NESHAP 40 CFR 63 Subpart CC 63.646(a) 63.120(b)(4) and 63.120(b)(6)	Y		Secondary rim-seal standards; includes gap criteria	NESHAP 40 CFR 63 Subpart CC 63.646(a), 63.120 (b)(1) and 63.120(b)(2)	P/A	Measurement and visual inspection
HAP	NESHAP 40 CFR 63 Subpart CC 63.660 and Subpart WW according to the provisions of 63.660	Y		Rim-seal standards, deck fitting standards, operational requirements, inspection and repair requirements		P/A or periodic each time eptied & degassed, at least every 10 years	Measurement and visual inspection
NOx, CO, SO_2, PM and VOC	BAAQMD Condition #12271, Part A	Y		Applies to S1129 Emissions from Clean Fuels Project sources shall not exceed 199.4 tpy NOx, 252.4 tpy CO, 139.7 tpy SO_2, 59.1 tpy PM, 132.0 tpy VOC, 20.8 ton/mon NOx, 26.3 ton/mon CO, 14.6 ton/mon SO_2, 6.2 ton/mon PM and 13.7 ton/mon VOC	BAAQMD Condition #12271, Part A, B, C, L and M	P/M and A	Calculation, records and reporting
Through-put	BAAQMD Condition #11951, Part 1	Y		Applies to S540 Throughput shall not exceed 340 million gallons in any 12-month period	BAAQMD Condition #11951, Part 1	P/M	Records

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – F
Applicable Limits and Compliance Monitoring Requirements
EXTERNAL FLOATING-ROOF TANKS
S540 – TANK 540, S545 – TANK 545,
S1031 – TANK 1031, S1046 – TANK 1046, S1051 – TANK 1051,
S1072 – TANK 1072, S1129 –TANK 1129,
S1159 – TANK 1159, S1161 - TANK 1161

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Through-put	BAAQMD Condition #18618, Part 1	N		Applies to S540Annual throughput < 340,000,000 GPY Applies to S545 Daily throughput S483+S484+S530 + S532+S545 < 217,097 BPD Annual throughput < 79,240,405 BPY Applies to S1031, S1046, S1051, and S1159 Daily throughput S1031+S1046+S1051+ S1134+S1159+S1753+ S1754+S1755+ S1756 < 508,114 BPD Annual throughput < 185,461,610 BPY Applies to S1129 Daily throughput < 120,000 BPD Annual throughput < 43,800,000 BPY Applies to S1161 Daily throughput < 240,000 BPD Annual throughput < 87,600,000 BPY	BAAQMD Condition #18618, Part 2	P/A	Records

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – G
Applicable Limits and Compliance Monitoring Requirements
EXTERNAL FLOATING-ROOF TANKS
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	P/Semi-A	Inspections
VOC	BAAQMD 8-5-321	Y			BAAQMD 8-5-401.1	P/Semi-A	Inspections
VOC	BAAQMD 8-5-322	N			BAAQMD 8-5-401.1	P/Semi-A	Inspections
VOC	BAAQMD 8-5-401.1				BAAQMD 8-5-501.2	P/Semi-Annual	Records
VOC	BAAQMD 8-5-328.1	N		Tank cleaning control device standards; includes 90% efficiency requirement	BAAQMD 8-5-331, 8-5-502.2 and 8-5-603	P/A	Annual source test using MOP, Vol. IV, ST-7
VOC	BAAQMD Condition #7618, Part D.2	Y		Applies to S1076 Liquid vapor pressure limit of less than 1.5 psia	BAAQMD Condition #7618, Part G	P/A	Records
VOC	BAAQMD Condition #12271, Part 51	Y		Applies to S1130 and S1131 Tank cleaning VOC emissions shall be vented to a control device with 95% capture and destruction efficiency on a mass basis until concentration of organic compounds in tank is less than 10,000 ppm as methane	BAAQMD Regulation 8-5-404, 8-5-502.2, and 8-5-603	P/A	Source Test
NOx, CO, SO_2, PM and VOC	BAAQMD Condition #12271, Part A	Y		Applies to S1130 and S1131 Emissions from Clean Fuels Project sources shall not exceed 199.4 tpy NOx, 252.4 tpy CO, 139.7 tpy SO_2, 59.1 tpy PM, 132.0 tpy VOC, 20.8 ton/mon NOx, 26.3 ton/mon CO, 14.6 ton/mon SO_2, 6.2 ton/mon PM and 13.7 ton/mon VOC	BAAQMD Condition #12271, Part A, B, C, L and M	P/M and A	Calculation, records and reporting

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – G
Applicable Limits and Compliance Monitoring Requirements
EXTERNAL FLOATING-ROOF TANKS
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
Through-put	BAAQMD Condition #18618, Part 1	N		Applies to S1130 and S1131 Daily throughput limit S1130+S1131 < 47,314 bbl/day Annual throughput limits < 17,269,610 bbl/yr For S1076 Daily throughput limit S3+S4+ S1076 ≤ 130,971 bbl/day Annual throughput limits S3+S4+ S1076 ≤ 47,804,415 bbl/yr	BAAQMD Condition #18618, Part 2	P/A	Records

Table VII – H
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	P/Semi-A	Inspections
VOC	BAAQMD 8-5-321	Y			BAAQMD 8-5-401.1	P/Semi-A	Inspections
VOC	BAAQMD 8-5-322	N			BAAQMD 8-5-401.1	P/Semi-A	Inspections
VOC	BAAQMD 8-5-328.1	N		Tank cleaning control device standards; includes 90% efficiency requirement	BAAQMD 8-5-331, 8-5-502.2 and 8-5-603	P/A	Annual source test using MOP, Vol. IV, ST-7
VOC	NSPS 40 CFR 60 Subpart Ka 60.112a(a)(1)	Y		External Floating Roof requirements, including primary and secondary seal requirements and gap limits	NSPS 40 CFR 60Subpart Ka 60.113a(a)(1)	P/5 year interval for primary seals; P/A for secondary seals	Measurement and visual inspection

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – H
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
HAP	NESHAP 40 CFR 63 Subpart CC 63.646(a), 63.120(b)(3) and 63.120(b)(5)	Y		Primary rim-seal standards; includes gap criteria	NESHAP 40 CFR 63 Subpart CC 63.646(a), 63.120 (b)(1) and 63.120(b)(2)	P/5 yr intervals	Measurement and visual inspection
HAP	NESHAP 40 CFR 63 Subpart CC 63.646(a) 63.120(b)(4) and 63.120(b)(6)	Y		Secondary rim-seal standards; includes gap criteria	NESHAP 40 CFR 63 Subpart CC 63.646(a), 63.120 (b)(1) and 63.120(b)(2)	P/A	Measurement and visual inspection
HAP	NESHAP 40 CFR 63 Subpart CC 63.660 and Subpart WW according to the provisions of 63.660	Y		Rim-seal standards, deck fitting standards, operational requirements, inspection and repair requirements		P/A or periodic each time eptied & degassed, at least every 10 years	Measurement and visual inspection
Through-put	BAAQMD Condition #18618, Part 1	N		Applies to S1755 and S1756 Daily throughput S1031+S1046+S1051+ S1134+S1159+S1753+ S1754+S1755+ S1756 < 508,114 BPD Annual throughput < 185,461,610 BPY	BAAQMD Condition #18618, Part 2	P/A	Records

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – I
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 8-5-303.1	N		Pressure vacuum valve set to 90% of tank's maximum allowable working pressure or at least 0.5 psig	BAAQMD 8-5-501.4	P/initial	Records
VOC	BAAQMD 8-5-303.2	N		Pressure vacuum valve sealing mechanism must be gas-tight: < 500 ppm	BAAQMD 8-5-403 8-5-605	P/SA	Method 21 portable hydrocarbon detector
VOC	SIP 8-5-303.1	Y		Pressure vacuum valve set pressure within 10% of MAWP of tank, or at least 0.5 psig	SIP 8-5-403	P/SA	Visual inspection
VOC	SIP 8-5-303.2	Y		Pressure vacuum valve gas tight: < 500 ppm (as methane) above background	SIP 8-5-403 8-5-503 8-5-605	P/SA	Method 21 portable hydrocarbon detector
VOC	BAAQMD 8-5-328.1	N		Tank cleaning control device standards; includes 90% efficiency requirement	BAAQMD 8-5-331, 8-5-502.2 and 8-5-603	P/A	Annual source test using MOP, Vol. IV, ST-7
VOC	BAAQMD Condition #7618, Part D.1.a	Y		No more than 12 tanks shall be used to store a liquid with a true vapor pressure of 1.5 psig or greater. (Condition applies to S14, S20, S483, S484, S530, S531, S532, S1139, S1140, S1141, S1751, S1752, S1753, S1754, S1757, S1758,)	BAAQMD Condition #7618, Part G	P/A	Reporting

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – I
Applicable Limits and Compliance Monitoring Requirements
CLOSED VENT SYSTEMS & CONTROL DEVICES
S532 – TANK 532

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
HAP	NESHAP 40 CFR 61 Subpart FF 61.343(a)(1)(i)(A) and NESHAP 40 CFR 63 Subpart CC 63.647(a)	Y		VOC concentrations shall not exceed 500 ppmv above background	NESHAP 40 CFR 61Subpart 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 40 CFR 63 Subpart CC 63.655(i)(6)	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 40 CFR 61 Subpart FF 61.349(a)(1)(i)	Y		Closed vent system leak tightness standards (< 500 ppmw - unless maintained under negative pressure)	NESHAP 40 CFR 61 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)
HAP	NESHAP 40 CFR 61 Subpart FF 61.349(a)(2)(ii)	Y		Abatement efficiency of at least 95% by weight	NESHAP 40 CFR 61 Subpart FF 61.340(d)	N	Exempt from monitoring for streams routed to a fuel gas system
Through-put	BAAQMD Condition #18618, Part 1	N		Daily throughput S483+S484+S530 + S532+S545 < 217,097 BPD Annual throughput < 79,240,405 BPY	BAAQMD Condition #18618, Part 2	P/A	Records

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – J
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
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
HAP	BAAQMD Condition #6111, Part 3	N		Benzene content of material stored in this tank shall not exceed 1 mg/l	BAAQMD Condition #6111, Part 4	P/E	Records
Through-put	BAAQMD Condition #18618, Part 1	N		For S549 Daily throughput limit S548+S549+S1006 +S1235+S1236 < 5,412 bbl/day Annual throughput limit S548+S549+S1006 +S1235+S1236 < 1,975,380 bbl/yr	BAAQMD Condition #18618, Part 2	P/A	Records

Table VII – K
Applicable Limits and Compliance Monitoring Requirements
INTERNAL FLOATING-ROOF TANKS,
S952 – TANK 952, S1070 – TANK 1070, S1128 – TANK 1128, S2445 – TANK 12445,
S2446 – TANK 12446, S4322 – TANK 14571 SOUR WATER , S6062 – ETHANOL TANK

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	BAAQMD 8-5-401.1	N			BAAQMD 8-5-501.2	P/Semi-Annual	Records
VOC	BAAQMD 8-5-328.1	N		Tank cleaning control device standards; includes 90% efficiency requirement	BAAQMD 8-5-331, 8-5-502.2 and 8-5-603	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 40 CFR 60 Subpart Kb 60.116b(c)	Y		True vapor pressure determination	NSPS 40 CFR 60 Subpart Kb 60.116b(e)	P/E (Upon change of service)	Calculate

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – K
Applicable Limits and Compliance Monitoring Requirements
INTERNAL FLOATING-ROOF TANKS,
S952 – TANK 952, S1070 – TANK 1070, S1128 – TANK 1128, S2445 – TANK 12445,
S2446 – TANK 12446, S4322 – TANK 14571 SOUR WATER , S6062 – ETHANOL TANK

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	BAAQMD Condition #6707, Part 2a			Applies to S2445 and S2446 For the months of November through February, Gasoline or Gasoline components not exceeding RVP 13.5; and for the remaining months only Gasoline or Gasoline components not exceeding RVP 8	BAAQMD Condition #6707, Part 4	P/M	Records
VOC	BAAQMD Condition #6707, Part 2bi	Y		Applies to S2445 and S2446 POC emissions, based on the maximum throughput in Condition 1, do not exceed 10,779 pounds per year, as calculated by the EPA Tanks Program version 4.08 (or subsequent version)	BAAQMD Condition #6707, Part 4	P/M	Records
Materials Stored	BAAQMD Condition #18153 Part 2	Y		Applies to S1070 Materials stored in S1070 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
VOC	BAAQMD Condition #12271, Part 51	Y		Applies to S4322 Tank cleaning VOC emissions shall be vented to a control device with 95% capture and destruction efficiency on a mass basis until concentration of organic compounds in tank is less than 10,000 ppm as methane	BAAQMD Regulation 8-5-404, 8-5-502.2, and 8-5-603	P/A	Source Test

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – K
Applicable Limits and Compliance Monitoring Requirements
INTERNAL FLOATING-ROOF TANKS,
S952 – TANK 952, S1070 – TANK 1070, S1128 – TANK 1128, S2445 – TANK 12445,
S2446 – TANK 12446, S4322 – TANK 14571 SOUR WATER , S6062 – ETHANOL TANK

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
POC	BAAQMD Condition # 25134, Part 2	Y		Applies to S1128 POC emissions based on the maximum throughput limits in Parts 1a and 1b for S6069, S6070, S6071, S6072, and S1128 do not exceed 22,200 pounds in any consecutive 12-month period	BAAQMD Condition # 25134, Part 9	P/M	Emission calculations
POC	BAAQMD Condition # 25134, Part 3	Y		Applies to S1128 Daily POC emissions limit of 24 lb / day	BAAQMD Condition # 25134, Part 9	P/M	Emission calculations
POC	BAAQMD Condition # 25134 Part 4	Y		Applies to S1128 Annual POC emissions limit of 4 ton / year (12-month consecutive period)	BAAQMD Condition # 25134, Part 9	P/M	Emission calculations
TOC	BAAQMD Condition # 25134, Part 17	Y		Applies to S1128 Leak standard of 100 ppm of TOC at valves and flanges and 500pm at any pumps	BAAQMD Condition # 25134 Part 18	Pumps: P/Q Valves: P/Q Flanges: P/A	Inspections
POC	BAAQMD Condition # 25134, Part 19	Y		Applies to S1128 Owner/operator shall not exceed a project total of 1.4 tons of POC emission per consecutive 365-day period	BAAQMD Condition # 25134 Part 19	P/Q	Records
HAP	BAAQMD Condition #6707, Part 2bii	N		Applies to S2445 and S2446 Toxic emissions in lb/yr, based on the maximum throughput in Condition 1, do not exceed any risk screening trigger level specified in Table 2-1-316, except for benzene $\leq$ 27 lb/yr	BAAQMD Condition #6707, Part 4	P/M	Records

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – K
Applicable Limits and Compliance Monitoring Requirements
INTERNAL FLOATING-ROOF TANKS,
S952 – TANK 952, S1070 – TANK 1070, S1128 – TANK 1128, S2445 – TANK 12445,
S2446 – TANK 12446, S4322 – TANK 14571 SOUR WATER , S6062 – ETHANOL TANK

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NOx, CO, SO_2, PM and VOC	BAAQMD Condition #12271, Part A	Y		Applies to S4322 Emissions from Clean Fuels Project sources shall not exceed 199.4 tpy NOx, 252.4 tpy CO, 139.7 tpy SO_2, 59.1 tpy PM, 132.0 tpy VOC, 20.8 ton/mon NOx, 26.3 ton/mon CO, 14.6 ton/mon SO_2, 6.2 ton/mon PM and 13.7 ton/mon VOC	BAAQMD Condition #12271, Part A, B, C, L and M	P/M and A	Calculation, records and reporting
Through-put	BAAQMD Condition #6707, Part 1	Y		Applies to S2445 and S2446 Combined throughput shall not exceed 73,000,000 barrels in any 12-month period and combined gasoline throughput shall not exceed 1,650,000 barrels in any 12-month period	BAAQMD Condition #6707, Part 4	P/M	Records
Through-put	BAAQMD Condition #18153 Part 1	Y		Applies to S1070 Total liquid throughput shall not exceed 175,200 thousand gallons during any consecutive twelve month period	BAAQMD Condition # 18153	P/M	Records
Through-put	BAAQMD Condition # 18618 Part 1	Y		Applies to S1070 Annual throughput limit of 175,200,000 gal/year Applies to S1128: Daily throughput limit of 55,000 gal/day Annual throughput limit of 20,075,000 bbl/year Applies to S2445 and S2446: Annual throughput limit of 73,000,000 bbl/year for S2445 and S2446 combined Applies to S6062: Annual throughput limit of 1,500,000 bbl/year	BAAQMD Condition # 18618 Part 2	P/A	Records

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – K
Applicable Limits and Compliance Monitoring Requirements
INTERNAL FLOATING-ROOF TANKS,
S952 – TANK 952, S1070 – TANK 1070, S1128 – TANK 1128, S2445 – TANK 12445,
S2446 – TANK 12446, S4322 – TANK 14571 SOUR WATER , S6062 – ETHANOL TANK

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Through-put	BAAQMD Condition # 23003, Part 1	Y		Applies to S6062 Throughput < 1,500,000 bbl /consecutive 12-month	BAAQMD Condition # 23003, Part 2	P/M	Material throughput records
Through-put	BAAQMD Condition # 25134, Part 1	Y		Applies to S1128 Throughput < 43,800,000 bbl /consecutive 12-month period for S6069, S-6070, S6071, and S1128 combined	BAAQMD Condition # 25134, Part 9	P/M	Material throughput records
Through-put	BAAQMD Condition # 25134, Part 3	Y		Applies to S1128 Throughput < 55,000 bbl / day	BAAQMD Condition # 25134, Part 9	P/M	Material throughput records
Through-put	BAAQMD Condition # 25134, Part 4	Y		Applies to S1128 Annual throughput limit of 20,075,000 bbl / consecutive 12-month period	BAAQMD Condition # 25134, Part 9	P/M	Material throughput records
Vapor Pressure	BAAQMD Condition # 25134, Part 6a	Y		Applies to S1128 True vapor pressure < 11 psia	BAAQMD Condition # 25134, Part 9	P/M	Vapor pressure records

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – L
Applicable Limits and Compliance Monitoring Requirements
EXTERNAL FLOATING-ROOF TANKS
S1006 – TANK 1006,
S2013 – TANK 12467, S4310 – TANK 13285 SOUR WATER,
S17095 – TANK 17095, S6069 – TANK 17596, S-6070 – TANK 17597,
S6071 – TANK 17598, S6072 – TANK 17595

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	P/Semi-A	Inspections
VOC	BAAQMD 8-5-321	Y			BAAQMD 8-5-401.1	P/Semi-A	Inspections
VOC	BAAQMD 8-5-322	N			BAAQMD 8-5-401.1	P/Semi-A	Inspections
VOC	BAAQMD 8-5-328.1	N		Tank cleaning control device standards; includes 90% efficiency requirement	BAAQMD 8-5-331 8-5-502.2 and 8-5-603	P/A	Annual source test using MOP, Vol. IV, ST-7
VOC	NSPS 40 CFR 60 Subpart Kb 60.113b (b)(4)(i)	Y		Primary rim-seal standards; Accumulated area of gaps shall not exceed 212 cm^2/m of tank diameter and 3.81 cm at any point	NSPS 40 CFR 60 Subpart Kb 60.113b(b)(1), 60.113b(b)(2) and 60.113b(b)(3)	P/(5 yr intervals)	Measure-ment and visual inspection
VOC	NSPS 40 CFR 60 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 1.27 cm at any point	NSPS 40 CFR 60 Subpart Kb 60.113b(b)(1), 60.113b(b)(2) and 60.113b(b)(3)	P/A	Measureme nt and visual inspection
VOC	NSPS 40 CFR 60 Subpart Kb 60.116b(c)	Y		True vapor pressure determination	NSPS 40 CFR 60 Subpart Kb 60.116b(e)	P/E (Upon change of service)	Measureme nt and visual inspection
VOC	BAAQMD Condition #12271, Part 51	Y		Applies to S4310 Tank cleaning VOC emissions shall be vented to a control device with 95% capture and destruction efficiency on a mass basis until concentration of organic compounds in tank is less than 10,000 ppm as methane	BAAQMD Regulation 8-5-404, 8-5-502.2, and 8-5-603	P/A	Source Test

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – L
Applicable Limits and Compliance Monitoring Requirements
EXTERNAL FLOATING-ROOF TANKS
S1006 – TANK 1006,
S2013 – TANK 12467, S4310 – TANK 13285 SOUR WATER,
S17095 – TANK 17095, S6069 – TANK 17596, S-6070 – TANK 17597,
S6071 – TANK 17598, S6072 – TANK 17595

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
POC	BAAQMD Condition # 25134, Part 2	Y		Applies to S6069, S6070, S6071, and S6072 Total POC emissions based on the combined maximum throughput limits in Parts 1a and 1b for S6069, S6070, S6071, S6072, and S1128 do not exceed 22,000 in any consecutive 12-month period	BAAQMD Condition # 25134, Part 9	P/M	Emission calculations
POC	BAAQMD Condition # 25134, Part 3	Y		Applies to S6069, S6070, S6071, and S6072 Daily emissions limit: S6069: 88 lb / day S6070: 88 lb / day S6071: 88 lb / day S6072: 52 lb / day	BAAQMD Condition # 25134, Part 9	P/M	Emission calculations
POC	BAAQMD Condition # 25134, Part 4	Y		Applies to S6069, S6070, S6071, and S6072 Annual emissions limit: S6069: 8 ton / year S6070: 8 ton / year S6071: 8 ton / year S6072: 2 ton / year (12-month consecutive period)	BAAQMD Condition # 25134, Part 9	P/M	Emission calculations
TOC	BAAQMD Condition # 25134, Part 17	Y		Applies to S6069, S6070, S6071, and S6072 Leak standard of 100 ppm of TOC at valves and flanges and 500 ppm at any pumps	BAAQMD Condition # 25134 Part 18	Pumps: P/Q Valves: P/Q Flanges: P/A	Inspections
POC	BAAQMD Condition # 25134, Part 19	Y		Applies to S6069, S6070, S6071, and S6072 Owner/operator shall not exceed a project total of 1.4 tons of POC emissions per consecutive 365-day period	BAAQMD Condition # 25134 Part 19	P/Q	Records

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – L
Applicable Limits and Compliance Monitoring Requirements
EXTERNAL FLOATING-ROOF TANKS
S1006 – TANK 1006,
S2013 – TANK 12467, S4310 – TANK 13285 SOUR WATER,
S17095 – TANK 17095, S6069 – TANK 17596, S-6070 – TANK 17597,
S6071 – TANK 17598, S6072 – TANK 17595

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NOx, CO, SO_2, PM and VOC	BAAQMD Condition #12271, Part A	Y		Applies to S4310 Emissions from Clean Fuels Project sources shall not exceed 199.4 tpy NOx, 252.4 tpy CO, 139.7 tpy SO_2, 59.1 tpy PM, 132.0 tpy VOC, 20.8 ton/mon NOx, 26.3 ton/mon CO, 14.6 ton/mon SO_2, 6.2 ton/mon PM and 13.7 ton/mon VOC	BAAQMD Condition #12271, Part A, B, C, L and M	P/M and A	Calculation, records and reporting
Through-put	BAAQMD Condition #6503, Part 1	Y		Applies to S2013 Throughput shall not exceed 27,000,000 barrels in any 12-month period	BAAQMD Condition #6503, Part 3	P/M	Records

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – L
Applicable Limits and Compliance Monitoring Requirements
EXTERNAL FLOATING-ROOF TANKS
S1006 – TANK 1006,
S2013 – TANK 12467, S4310 – TANK 13285 SOUR WATER,
S17095 – TANK 17095, S6069 – TANK 17596, S-6070 – TANK 17597,
S6071 – TANK 17598, S6072 – TANK 17595

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Through-put	BAAQMD Condition #18618, Part 1	N		Applies to S2013 Annual throughput ≤ 27,000,000 bbl/yr Applies to S1006: Daily throughput limit S548+S549+S1006 +S1235+S1236 < 5,412 bbl/day Annual throughput limits S548+S549+S1006 +S1235+S1236 < 1,975,380 bbl/yr Applies to S6069, S6070, and S6071 Daily throughput limit S6069+S6070+S6071 ≤ 300,000 bbl/day Annual throughput limit S6069+S6070+S6071 ≤ 43,800,000 bbl/year Applies to S6072 Daily throughput limit ≤ 110,000 bbl/day Annual throughput limit ≤ 550,000 bbl/year Applies to S17095 Annual throughput limit ≤ 27,000,000 bbl/year	BAAQMD Condition #18618, Part 2	P/A	Records
Through-put	BAAQMD Condition # 20042 Part 1	Y		Applies to S17095 Throughput ≤ 27,000,000 bbl/yr	BAAQMD Condition # 20042 Part 3	P/M	Records

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – L
Applicable Limits and Compliance Monitoring Requirements
EXTERNAL FLOATING-ROOF TANKS
S1006 – TANK 1006,
S2013 – TANK 12467, S4310 – TANK 13285 SOUR WATER,
S17095 – TANK 17095, S6069 – TANK 17596, S-6070 – TANK 17597,
S6071 – TANK 17598, S6072 – TANK 17595

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 # 25134, Part 1a	Y		Applies to S6069, S6070, and S6071 Throughput ≤ 43,800,000 bbl / consecutive 12-month period for S6069, S6070, S6071, and S1128 combined	BAAQMD Condition # 25134, Part 9	P/M	Material throughput records
Through-put	BAAQMD Condition # 25134, Part 1b	Y		Applies to S6072 Throughput < 550,000 bbl / 12-month period	BAAQMD Condition # 25134, Part 9	P/M	Material throughput records
Vapor Pressure	BAAQMD Condition # 25134, Part 5b	Y		Applies to S6069, S6070, S6071, and S6072 True vapor pressure must be less than 11 psia	BAAQMD Condition # 25134, Part 9	P/M	Vapor pressure records

Table VII – M
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	P/Semi-A	Inspections
VOC	BAAQMD 8-5-321	Y			BAAQMD 8-5-401.1	P/Semi-A	Inspections
VOC	BAAQMD 8-5-322	N			BAAQMD 8-5-401.1	P/Semi-A	Inspections
VOC	BAAQMD 8-5-328.1	N		Tank cleaning control device standards; includes 90% efficiency requirement	BAAQMD 8-5-331 8-5-502.2 and 8-5-603	P/A	Annual source test using MOP, Vol. IV, ST-7

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – M
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
HAP	NESHAP 40 CFR 61 Subpart FF 61.351(a)(2)and NSPS 40 CFR 60 Subpart Kb 60.112b(a)(2) and NESHAP 40 CFR 63 Subpart CC 63.647(a)	Y		VOC concentrations shall not exceed 500 ppmv above background	NESHAP 40 CFR 61 Subpart FF 61.350, 61.356(k) and 61.357(f) and NESHAP 40 CFR 63 Subpart CC 63.655(i)(6)	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 – N
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	P/Semi-A	Inspections
VOC	BAAQMD 8-5-321	Y			BAAQMD 8-5-401.1	P/Semi-A	Inspections
VOC	BAAQMD 8-5-322	N			BAAQMD 8-5-401.1	P/Semi-A	Inspections
VOC	BAAQMD 8-5-328.1	N		Tank cleaning control device standards; includes 90% efficiency requirement	BAAQMD 8-5-331, 8-5-502.2 and 8-5-603	P/A	Annual source test using MOP, Vol. IV, ST-7
VOC	NSPS 40 CFR 60 Subpart Kb 60.113b (b)(4)(i)	Y		Primary rim-seal standards; includes gap criteria	NSPS 40 CFR 60 Subpart Kb 60.113b(b)(1), 60.113b(b)(2) and 60.113b(b)(3)	P/(5 yr intervals)	Measurement and visual inspection

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – N
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 40 CFR 60 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 40 CFR 60 Subpart Kb 60.113b(b)(1), 60.113b(b)(2) and 60.113b(b)(3)	P/A	Measurement and visual inspection
VOC	NSPS 40 CFR 60 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 40 CFR 60 Subpart Kb 60.116b(e)	P/E (Upon change of service)	Measurement and visual inspection
HAP	NESHAP 40 CFR 61 Subpart FF 61.351(a)(2) and NSPS 40 CFR 60 Subpart Kb 60.112b(a)(2) and NESHAP 40 CFR 63 Subpart CC 63.647(a)	Y		VOC concentrations shall not exceed 500 ppmv above background	NESHAP 40 CFR 61 Subpart FF 61.350, 61.356(k), and 61.357(f) NESHAP 40 CFR 63 Subpart CC 63.655(i)(6)	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 – O
Applicable Limits and Compliance Monitoring Requirements
CLOSED VENT SYSTEMS & CONTROL DEVICES
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 8-5-303.1	N		Pressure vacuum valve set to 90% of tank's maximum allowable working pressure or at least 0.5 psig	BAAQMD 8-5-501.4	P/initial	Records
VOC	BAAQMD 8-5-303.2	N		Pressure vacuum valve sealing mechanism must be gas-tight: < 500 ppm	BAAQMD 8-5-403 8-5-605	P/SA	Method 21 portable hydrocarbon detector
VOC	SIP 8-5-303.1	Y		Pressure vacuum valve set pressure within 10% of MAWP of tank, or at least 0.5 psig	SIP 8-5-403	P/SA	Visual inspection
VOC	SIP 8-5-303.2	Y		Pressure vacuum valve gas tight: < 500 ppm (as methane) above background	SIP 8-5-403 8-5-503 8-5-605	P/SA	Method 21 portable hydrocarbon detector
VOC	BAAQMD 8-5-328.1	N		Tank cleaning control device standards; includes 90% efficiency requirement	BAAQMD 8-5-331, 8-5-502.2 and 8-5-603	P/A	Annual source test using MOP, Vol. IV, ST-7
VOC	NSPS 40 CFR 60 Subpart Kb 60.112b (a)(3)(i)	Y		Closed vent system leak tightness standards, VOC concentrations shall not exceed 500 ppmv above background.	NSPS 40 CFR 60 Subpart Kb 60.113b(c)(1) and (2)	N	Operate and monitor per the plan
VOC	NSPS 40 CFR 60 Subpart Kb 60.112b (a)(3)(ii)	Y		Control device standards; includes 95% efficiency requirement	NSPS 40 CFR 60 Subpart Kb 60.113b(c)(1) and (2)	N	Operate and monitor per the plan
VOC	BAAQMD Condition #12271, Part 45	Y		Applies to S4334 Tank shall be kept leak free, less than 500 ppm above background as methane	NESHAP 40 CFR 61 Subpart FF 61.350, 61.356(k) and 61.357(d)(8) and NESHAP 40 CFR 63 Subpart CC 63.642(e), 63.642(f) and 63.655(i)(6)	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 – O
Applicable Limits and Compliance Monitoring Requirements
CLOSED VENT SYSTEMS & CONTROL DEVICES
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 Condition #12271, Part 51	Y		Applies to S4334 Tank cleaning VOC emissions shall be vented to a control device with 95% capture and destruction efficiency on a mass basis until concentration of organic compounds in tank is less than 10,000 ppm as methane	BAAQMD Regulation 8-5-404, 8-5-502.2, and 8-5-603	P/A	Source Test
NOx, CO, SO_2, PM and VOC	BAAQMD Condition #12271, Part A	Y		Applies to S4334 Emissions from Clean Fuels Project sources shall not exceed 199.4 tpy NOx, 252.4 tpy CO, 139.7 tpy SO_2, 59.1 tpy PM, 132.0 tpy VOC, 20.8 ton/mon NOx, 26.3 ton/mon CO, 14.6 ton/mon SO_2, 6.2 ton/mon PM and 13.7 ton/mon VOC	BAAQMD Condition #12271, Part A, B, C, L and M	P/M and A	Calculation, records and reporting
Through-put S1114 and S1115	BAAQMD Condition #7215, Part 2	Y		Applies to S1114 and S1115 Combined throughput shall not exceed 365,000 barrels in any 12-month period	BAAQMD Condition #7215, Part 3	P/M	Records
Through-put	BAAQMD Condition #18618, Part 1	N		Applies to S1114, S1115 Annual throughput S1114+S1115 ≤365,000 BPY Applies to S4334 Daily throughput S1757+S1758+S4334 ≤ 125,829 BPD Annual throughput ≤ 45,927,585 BPY	BAAQMD Condition #18618, Part 2	P/A	Records

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – P
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 8-5-303.1	N		Pressure vacuum valve set to 90% of tank's maximum allowable working pressure or at least 0.5 psig	BAAQMD 8-5-501.4	P/initial	Records
VOC	BAAQMD 8-5-303.2	N		Pressure vacuum valve sealing mechanism must be gas-tight: < 500 ppm	BAAQMD 8-5-403 8-5-605	P/SA	Method 21 portable hydrocarbon detector
VOC	SIP 8-5-303.1	Y		Pressure vacuum valve set pressure within 10% of MAWP of tank, or at least 0.5 psig	SIP 8-5-403	P/SA	Visual inspection
VOC	SIP 8-5-303.2	Y		Pressure vacuum valve gas tight: < 500 ppm (as methane) above background	SIP 8-5-403 8-5-503 8-5-605	P/SA	Method 21 portable hydrocarbon detector
VOC	BAAQMD 8-5-306.1	N		Control device standards; includes 95% efficiency requirement	BAAQMD 8-5-502.1 and 8-5-603	P/E	Records of liquids stored. Emissions of organic compounds measured using MOP, Vol. IV, ST-34
VOC	BAAQMD 8-5-306.2	N		Pressure vacuum valve must be gas-tight: <500 ppm (as methane) above background	BAAQMD 8-5-403	P/SA	Method 21 portable hydrocarbon detector
VOC	BAAQMD 8-5-328.1	N		Tank cleaning control device standards; includes 90% efficiency requirement	BAAQMD 8-5-331, 8-5-502.2 and 8-5-603	P/A	Annual source test using MOP, Vol. IV, ST-7

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – P
Applicable Limits and Compliance Monitoring Requirements
CLOSED VENT SYSTEMS & CONTROL DEVICES
S1805 TANK 12038

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
HAP	NESHAP 40 CFR 61 Subpart FF 61.343(a)(1)(i)(A) and NESHAP 40 CFR 63 Subpart CC 63.647(a)	Y		VOC concentrations shall not exceed 500 ppmv above background	NESHAP 40 CFR 61 Subpart FF 61.343(c), 61.350, 61.355(h), 61.356(d), 61.356(h) and 61.357(d)(8) and NESHAP 40 CFR 63 Subpart CC 63.655(i)(6)	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 40 CFR 63 Subpart FF 63.649(a)(2)(ii)	Y		Abatement efficiency of at least 95% by weight	NESHAP 40 CFR 61 Subpart FF 61.340(d)(5)	N	Exempt from monitoring for streams routed to a fuel gas system
HAP	NESHAP 40 CFR 61 Subpart FF 61.349(a)(1)(ii))	Y		Closed vent system leak tightness standards (< 500 ppmw - unless maintained under negative pressure)	NESHAP 40 CFR 61 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)
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
Through-put	BAAQMD Condition # 18618, Part 1	N		Applies to S1805 Annual throughoput S1805 <563,000 BPY	BAAQMD Condition # 18618, Part 2	P/A	Records

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – Q
Applicable Limits and Compliance Monitoring Requirements
S1116 – TANK 1116 FRESH ACID

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Opacity	BAAQMD 6-1-301	N		Ringelmann No. 1 for no more than 3 minutes/hour	None	N	None
Opacity	SIP 6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour	None	N	None
FP	BAAQMD 6-1-310.3	N		0.15 grain per dscf at 6% O_2	None	N	None
FP	SIP 6-310.3	Y		0.15 grain per dscf at 6% O_2	None	N	None

Table VII – R
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 8-5-303.1	N		Pressure vacuum valve set to 90% of tank's maximum allowable working pressure or at least 0.5 psig	BAAQMD 8-5-501.4	P/initial	Records
VOC	BAAQMD 8-5-303.2	N		Pressure vacuum valve sealing mechanism must be gas-tight: < 500 ppm	BAAQMD 8-5-403 8-5-605	P/SA	Method 21 portable hydrocarbon detector
VOC	SIP 8-5-303.1	Y		Pressure vacuum valve set pressure within 10% of MAWP of tank, or at least 0.5 psig	SIP 8-5-403	P/SA	Visual inspection
VOC	SIP 8-5-303.2	Y		Pressure vacuum valve gas tight: < 500 ppm (as methane) above background	SIP 8-5-403 8-5-503 8-5-605	P/SA	Method 21 portable hydrocarbon detector
VOC	BAAQMD Condition #12190, Part 1	Y		Applies to S1117 only: 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 – S
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	P/Semi-A	Inspections
VOC	BAAQMD 8-5-328.1	N		Tank cleaning control device standards; includes 90% efficiency requirement	BAAQMD 8-5-331, 8-5-502.2 and 8-5-603	P/A	Annual source test using MOP, Vol. IV, ST-7
HAP	NESHAP 40 CFR 61 Subpart FF 61.351(a)(2) and NESHAP 40 CFR 63 Subpart CC 63.647(a)	Y		VOC concentrations shall not exceed 500 ppmv above background	NESHAP 40 CFR 61 Subpart FF 61.350, 61.356(k) and 61.357(f) and NESHAP 40 CFR 63 Subpart CC 63.655(i)(6)	P/Q-visual and A-measurements and reports	Visual inspections, portable HC detector (EPA Method 21) and records of detectable emissions, inspections and repairs
Through-put	BAAQMD Condition #18618, Part 1	N		Applies to S1146 and S1147 Daily throughput limit S1146+S1147 < 14,640 bbl/day Annual throughput limits < 5,343,600 bbl/yr	BAAQMD Condition #18618, Part 2	P/A	Records

VII. Applicable Limits and Compliance Monitoring Requirements

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

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC Applicable to sources S1445 & S1774	BAAQMD Regulation 8-2-301	Y		15 lb/day and 300 ppm (dry basis) total carbon	BAAQMD Permit Condition 21896, Part 1	P/A, or every 5 yrs if results of one emission < 50% of limit	Source Test
VOC	BAAQMD 8-10-301	Y		Abatement of emissions from process vessel depressurization is required until pressure is reduced to less than 1000 mm Hg	BAAQMD 8-10-401.2 (SIP) and 8-10-501 & 502 (SIP)	P/E	Records
VOC	BAAQMD & SIP 8-18-301	Y		Equipment that leaks > 100 ppm shall not be used unless the leak is discovered and minimized within 24 hours and repaired within 7 days	BAAQMD & SIP 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 – T
Applicable Limits and Compliance Monitoring Requirements
S1417 – OPCEN DISTILLATE SATURATION UNIT (DSU), S1420 – DH CRUDE UNIT (CU),
S1421 – DH VACUUM FLASHER UNIT (VFU), S1422 – DH MARINE FUEL OIL BLENDER,
S1423 – DH GAS OIL STRAIGHTRUN HYDROTREATER (GOHT),
S1424 – DH NAPHTHA STRAIGHTRUN HYDROTREATER (NHT), S1427 – CP CATALYTIC GAS PLANT (CGP),
S1428 – CP CATALYTIC FEED HYDROTREATER (CFH), S1429 – CP CATALYTIC GASOLINE HYDROTREATER (CGH),
S1430 – CP ALKYLATION PLANT (ALKY), S1433 – CP LIGHT CC GASOLINE TREATER,
S1434 – CP UNSATURATED C3/C4 TREATER, S1435 – CP FUEL GAS TREATER 1, S1436 – CP FUEL GAS TREATER 2,
S1445 – DH HYDROGEN PLANT 1 (HP1), S1446 – DH SATURATES GAS PLANT (SGP),
S1447 – DH SATURATES DRY GAS TREATER, S1448 – DH SATURATES GAS PLANT C3/C4 TREATER,
S1449 – DH HYDROCRACKING UNIT (HCU), S1462 – LOG DISTILLATE BLENDER (JET & DIESEL FUEL),
S1463 – LOG GASOLINE BLENDER, S1464 – LOG THIN FUEL BLENDER (WHARF),
S1759 – OPCEN FLEXICOKER (FXU), S1764 – OPCEN DIMERSOL PLANT (DIMER),
S1770 – OPCEN C3/C4 SPLITTER, S1774 – OPCEN HYDROGEN PLANT 2 (HP2),
S4001 – DC DELAYED COKING UNIT (DCU), S4020 – DC DISTILLATE HYDROTREATER (DHT),
S4050 – DC CATALYTIC GAS DEPENTANIZER (CGDP), S4080 – DC ISOMERIZATION UNIT (ISOM),
S4140 – DC HEAVY CRACKED GASOLINE HYDROTREATER (HGHT),
S4160 – DC HYDROGEN PLANT 3 (HP3)

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	SIP 8-18-302	Y		Valves that leak > 100 ppm shall not be used unless the leak is discovered and minimized within 24 hours and repaired within 7 days	SIP 8-18-306, 8-18-401, 8-18-402, 8-18-404, 8-18-501, 8-18-502, and BAAQMD 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	N		Valves that leak > 100 ppm shall not be used unless the leak is discovered and minimized within 24 hours and repaired within 7 days	BAAQMD 8-18-306, 8-18-401, 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	SIP 8-18-303	Y		Pumps and compressors that leak > 500 ppm shall not be used unless the leak is discovered and minimized within 24 hours and repaired within 7 days	SIP 8-18-306, 8-18-401, 8-18-402, 8-18-403, 8-18-501, 8-18-502, and BAAQMD 8-18-602	P/D – visual inspection and Q - monitoring	Visual inspections, portable HC detector (EPA Method 21) and records of inspections and repairs

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – T
Applicable Limits and Compliance Monitoring Requirements
S1417 – OPCEN Distillate Saturation Unit (DSU), S1420 – DH Crude Unit (CU),
S1421 – DH Vacuum Flasher Unit (VFU), S1422 – DH Marine Fuel Oil Blender,
S1423 – DH Gas Oil Straightrun Hydrotreater (GOHT),
S1424 – DH Naphtha Straightrun Hydrotreater (NHT), S1427 – CP Catalytic Gas Plant (CGP),
S1428 – CP Catalytic Feed Hydrotreater (CFH), S1429 – CP Catalytic Gasoline Hydrotreater (CGH),
S1430 – CP Alkylation Plant (ALKY), S1433 – CP Light CC Gasoline Treater,
S1434 – CP Unsaturated C3/C4 Treater, S1435 – CP Fuel Gas Treater 1, S1436 – CP Fuel Gas Treater 2,
S1445 – DH Hydrogen Plant 1 (HP1), S1446 – DH Saturates Gas Plant (SGP),
S1447 – DH Saturates Dry Gas Treater, S1448 – DH Saturates Gas Plant C3/C4 Treater,
S1449 – DH Hydrocracking Unit (HCU), S1462 – LOG Distillate Blender (Jet & Diesel Fuel),
S1463 – LOG Gasoline Blender, S1464 – LOG Thin Fuel Blender (Wharf),
S1759 – OPCEN Flexicoker (FXU), S1764 – OPCEN Dimersol Plant (DIMER),
S1770 – OPCEN C3/C4 Splitter, S1774 – OPCEN Hydrogen Plant 2 (HP2),
S4001 – DC Delayed Coking Unit (DCU), S4020 – DC Distillate Hydrotreater (DHT),
S4050 – DC Catalytic Gas Depentanizer (CGDP), S4080 – DC Isomerization Unit (ISOM),
S4140 – DC Heavy Cracked Gasoline Hydrotreater (HGHT),
S4160 – DC Hydrogen Plant 3 (HP3)

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	BAAQMD 8-18-303	N		Pumps and compressors that leak > 500 ppm shall not be used unless the leak is discovered and minimized within 24 hours and repaired within 7 days	BAAQMD 8-18-306, 8-18-401, 8-18-402, 8-18-403, 8-18-404 (pumps only), 8-18-501, 8-18-502, and 8-18-602	P/D – visual inspection and Q or A (pumps only) - monitoring	Visual inspections, portable HC detector (EPA Method 21) and records of inspections and repairs
VOC	SIP 8-18-304	Y		Connections that leak > 100 ppm shall not be used unless the leak is discovered by an operator and minimized within 24 hours and repaired within 7 days or if the leak is discovered by an APCO and repaired within 24 hours	SIP 8-18-401, 8-18-402, 8-18-501, 8-18-502, and BAAQMD 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 – T
Applicable Limits and Compliance Monitoring Requirements
S1417 – OPCEN DISTILLATE SATURATION UNIT (DSU), S1420 – DH CRUDE UNIT (CU),
S1421 – DH VACUUM FLASHER UNIT (VFU), S1422 – DH MARINE FUEL OIL BLENDER,
S1423 – DH GAS OIL STRAIGHTRUN HYDROTREATER (GOHT),
S1424 – DH NAPHTHA STRAIGHTRUN HYDROTREATER (NHT), S1427 – CP CATALYTIC GAS PLANT (CGP),
S1428 – CP CATALYTIC FEED HYDROTREATER (CFH), S1429 – CP CATALYTIC GASOLINE HYDROTREATER (CGH),
S1430 – CP ALKYLATION PLANT (ALKY), S1433 – CP LIGHT CC GASOLINE TREATER,
S1434 – CP UNSATURATED C3/C4 TREATER, S1435 – CP FUEL GAS TREATER 1, S1436 – CP FUEL GAS TREATER 2,
S1445 – DH HYDROGEN PLANT 1 (HP1), S1446 – DH SATURATES GAS PLANT (SGP),
S1447 – DH SATURATES DRY GAS TREATER, S1448 – DH SATURATES GAS PLANT C3/C4 TREATER,
S1449 – DH HYDROCRACKING UNIT (HCU), S1462 – LOG DISTILLATE BLENDER (JET & DIESEL FUEL),
S1463 – LOG GASOLINE BLENDER, S1464 – LOG THIN FUEL BLENDER (WHARF),
S1759 – OPCEN FLEXICOKER (FXU), S1764 – OPCEN DIMERSOL PLANT (DIMER),
S1770 – OPCEN C3/C4 SPLITTER, S1774 – OPCEN HYDROGEN PLANT 2 (HP2),
S4001 – DC DELAYED COKING UNIT (DCU), S4020 – DC DISTILLATE HYDROTREATER (DHT),
S4050 – DC CATALYTIC GAS DEPENTANIZER (CGDP), S4080 – DC ISOMERIZATION UNIT (ISOM),
S4140 – DC HEAVY CRACKED GASOLINE HYDROTREATER (HGHT),
S4160 – DC HYDROGEN PLANT 3 (HP3)

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	BAAQMD 8-18-304	N		Connections that leak > 100 ppm shall not be used unless the leak is discovered by an operator and minimized within 24 hours and repaired within 7 days or if the leak is discovered by an APCO and repaired within 24 hours	BAAQMD 8-18-401, 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 & SIP 8-18-305	N/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 & SIP 8-18-306, 8-18-401, 8-18-402, 8-18-501, 8-18-502, and BAAQMD 8-18-602	P/Q or A	Visual inspections, portable HC detector (EPA Method 21) and records of inspections and repairs
VOC	SIP 8-18-306	Y		Limitations on non-repairable equipment	SIP 8-18-501, 8-18-502, and BAAQMD 8-18-602, SIP 8-18-604	P/5 years or next turnaround	Records And Sampling

VII. Applicable Limits and Compliance Monitoring Requirements

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

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	BAAQMD 8-18-306	N		Limitations on non-repairable equipment	BAAQMD8-18-501, 8-18-502, 8-18-503, 8-18-602, and 8-18-604	P/5 years or next turnaround	Records And Sampling
VOC	BAAQMD & SIP 8-18-307 and 8-18-211	Y		Equipment that leaks liquid > 3 drops per minute and > 100 ppm VOC shall not be used unless the leak is discovered and minimized within 24 hours and repaired within 7 days	BAAQMD & SIP 8-18-306, 8-18-401, 8-18-402, 8-18-501, 8-18-502, and BAAQMD 8-18-602	P/Q or A	Visual inspections, portable HC detector (EPA Method 21) and records of inspections and repairs
VOC	BAAQMD 8-18-309.3	N		<= 100 ppm at open end of second valve when double block and bleed system is not in use	BAAQMD 8-18-401.2	P/Q	Visual inspections, portable HC detector (EPA Method 21) and records of inspections and repairs

VII. Applicable Limits and Compliance Monitoring Requirements

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

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	BAAQMD 8-18-310	Y		Valve, pump, compressor, or PRD leaking more than 3 consecutive quarters, inspect monthly instead	BAAQMD 8-18-407	P/M	Visual inspections, portable HC detector (EPA Method 21) and records of inspections and repairs
VOC	BAAQMD 8-18-311	N		Mass emission rate <= 5 lbs/day for any equipment except during repair periods	BAAQMD 8-18-604	P/E	Mass Emission Sampling
VOC	SIP 8-28-303.1	Y		Pressure relief devices shall be vented to vapor recovery or disposal system with a control efficiency of 95% by weight	BAAQMD 8-28-404, 8-28-405, 8-28-502 and 8-28-602	C	Records and testing with approved methods
VOC	BAAQMD 8-28-303.1	N		Pressure relief devices shall be vented to vapor recovery or disposal system with a control efficiency of 95% by weight	BAAQMD 8-28-404, 8-28-405, 8-28-502 and 8-28-602	C	Records and testing with approved methods
VOC	BAAQMD 8-28-303.2	N		Facility to implement Process Safety Requirements of BAAQMD 8-28-405 for Pressure Relief Devices	BAAQMD 8-28-502.1	P/E	Records

VII. Applicable Limits and Compliance Monitoring Requirements

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

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	BAAQMD & SIP 8-28-304	Y		If one reportable Release Event from a pressure relief device in any consecutive 5 year period, shall meet specified conditions	BAAQMD 8-28-401, 8-28-402, , 8-28-404, 8-28-405, and 8-28-502	P/E	Reporting and prescribed measures.
VOC	BAAMQD Condition # 12271 Part N	Y		Applies to S4001, S4020, S4050, S4080, S4140, and S4160 Any process depressurization shall be vented to a control device with an overall capture and destruction efficiency of 95% capture on a mass basis	BAAQMD 8-10-401	P/E	Records
VOC	BAAQMD Condition #12271, Part 11	Y		Applies to S4001, S4020, S4050, S4080, S4140, and S4160 Fugitive emissions from Clean Fuels Project sources shall not exceed emission 193.5 tpy VOC and 14.7 NPOC	BAAQMD Condition #12271, Part 11, L and M	P/A	Calculation, records and reporting

VII. Applicable Limits and Compliance Monitoring Requirements

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

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
SO_2	BAAQMD Condition #7618, Part C.e	Y		Applies to S1759 If profile has more than 5 non-complying days, the sulfur content of liquid fuel shall be limited to 1.0 ton/day (or 1.3 ton/day if flexicoker is down)	BAAQMD Condition #7618, Part G	P/E	Records
NOx, SO2, CO and PM	BAAQMD Condition #7618, Part C.a	Y		Applies to S1420 If profile has more than 5 non-complying days, the refinery shall not process more than 124,000 barrels of crude oil per stream day	BAAQMD Condition #7618, Part G	P/E	Records
NOx, SO_2, CO and PM	BAAQMD Condition #7618, Part C.b	Y		Applies to S1759 If profile has more than 5 non-complying days, the refinery shall not process more than 22,000 barrels of Flexicoker feed per stream day	BAAQMD Condition #7618, Part G	P/E	Records

VII. Applicable Limits and Compliance Monitoring Requirements

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

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NOx, CO, SO2, PM and VOC	BAAQMD Condition #12271, Part A	Y		Applies to S4001, S4020, S4050, S4080, S4140, and S4160 Emissions from Clean Fuels Project sources shall not exceed 199.4 tpy NOx, 252.4 tpy CO, 139.7 tpy SO2, 59.1 tpy PM, 132.0 tpy VOC, 20.8 ton/mon NOx, 26.3 ton/mon CO, 14.6 ton/mon SO2, 6.2 ton/mon PM and 13.7 ton/mon VOC	BAAQMD Condition #12271, Part A, B, C, L and M	P/M and A	Calculation, records and reporting
Duration of startups and shutdowns	BAAQMD Condition # 7618, Part E.2.a.	Y		Applies to S1759 Duration of startup ≤ 48 hours/event; Duration of shutdown ≤ 96 hours/event	BAAQMD Condition #7618, Parts E.2.d. and G	P/E	Records

VII. Applicable Limits and Compliance Monitoring Requirements

Through-put	BAAQMD Condition #18618, Part 1	Y		Applies to S1417 Daily throughput < 26,000 BPD Annual throughput < 9,490,000 BPY Applies to S1420 Daily throughput < 178,800 BPD Annual throughput < 59,568,000 BPY Applies to S1423 Daily throughput < 28,000 BPD Annual throughput < 10,220,000 BPY Applies to S1424 Daily throughput < 31,500 BPD Annual throughput < 10,609,974 BPY Applies to S1428 Daily throughput < 60,000 BPD Annual throughput < 19,856,000 BPY Applies to S1429 Daily throughput < 27,500 BPD Annual throughput < 10,037,500 BPY	BAAQMD Condition #18618 Part 2		
				Applies to S1430 Daily throughput < 14,000 BPD Annual throughput < 5,110,000 BPY Applies to S1445 Daily throughput < 75,000,000 scf/day H2 Annual throughput < 24,710,500,000 scf/yr H2 Applies to S1449 Daily throughput < 46,000 BPD Annual throughput < 16,790,000 BPY			

VII. Applicable Limits and Compliance Monitoring Requirements

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

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
				Applies to S1759 Daily throughput < 48,300 BPD Annual throughput < 16,245,500 BPY Applies to S1764 Daily throughput < 4,000 BPD Annual throughput < 1,460,000 BPY			

VII. Applicable Limits and Compliance Monitoring Requirements

				Applies to S1774 Daily throughput < 43,500,000 scf/day H2 Annual throughput < 14,600,000,000 scf/yr H2 Applies to S4001 Daily throughput < 32,500 BPD Annual throughput < 11,862,500 BPY Applies to S4020 Daily throughput < 30,000 BPD Annual throughput < 10,950,000 BPY Applies to S4080 Daily throughput < 15,100 BPD Annual throughput < 5,511,500 BPY Applies to S4140 Daily throughput < 23,200 BPD Annual throughput < 8,468,000 BPY			
				Applies to S4160 Daily throughput < 90,000,000 scf/day H2 Annual throughput < 32,850,000,000 scf/yr H2			
Through-put	BAAQMD Condition #24162, Part 1	N		Applies to S1424 Daily throughput ≤ 31,500 BPD Annual throughput ≤ 10,609,974 BPY	BAAQMD Condition #24162, Part 2	P/D	Records

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – U
Applicable Limits and Compliance Monitoring Requirements
S1425 – DH CATALYTIC REFORMER UNIT (CRU)

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	BAAQMD 8-10-301	Y		Abatement of emissions from process vessel depressurization is required until pressure is reduced to less than 1000 mm Hg	BAAQMD 8-10-401.2 (SIP) and 8-10-501 & 502 (SIP)	P/E	Records
VOC	BAAQMD & SIP 8-18-301	Y		Equipment that leaks > 100 ppm shall not be used unless the leak is discovered and minimized within 24 hours and repaired within 7 days	BAAQMD & SIP 8-18-401, 8-18-402, 8-18-501, 8-18-502, and BAAQMD 8-18-602	P/Q or A	Visual inspections, portable HC detector (EPA Method 21) and records of inspections and repairs
VOC	SIP 8-18-302	Y		Valves that leak > 100 ppm shall not be used unless the leak is discovered and minimized within 24 hours and repaired within 7 days	SIP 8-18-306, 8-18-401, 8-18-402, 8-18-404, 8-18-501, 8-18-502, and BAAQMD 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	N		Valves that leak > 100 ppm shall not be used unless the leak is discovered and minimized within 24 hours and repaired within 7 days	BAAQMD 8-18-306, 8-18-401, 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	SIP 8-18-303	Y		Pumps and compressors that leak > 500 ppm shall not be used unless the leak is discovered and minimized within 24 hours and repaired within 7 days	SIP 8-18-306, 8-18-401, 8-18-402, 8-18-403, 8-18-501, 8-18-502, and BAAQMD 8-18-602	P/D – visual inspection and Q - monitoring	Visual inspections, portable HC detector (EPA Method 21) and records of inspections and repairs

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – U
Applicable Limits and Compliance Monitoring Requirements
S1425 – DH CATALYTIC REFORMER UNIT (CRU)

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	BAAQMD 8-18-303	N		Pumps and compressors that leak > 500 ppm shall not be used unless the leak is discovered and minimized within 24 hours and repaired within 7 days	BAAQMD 8-18-306, 8-18-401, 8-18-402, 8-18-403, 8-18-404 (pumps only), 8-18-501, 8-18-502, and 8-18-602	P/D – visual inspection and Q or A (pumps only) - monitoring	Visual inspections, portable HC detector (EPA Method 21) and records of inspections and repairs
VOC	SIP 8-18-304	Y		Connections that leak > 100 ppm shall not be used unless the leak is discovered by an operator and minimized within 24 hours and repaired within 7 days or if the leak is discovered by an APCO and repaired within 24 hours	SIP 8-18-401, 8-18-402, 8-18-501, 8-18-502, and BAAQMD 8-18-602	P/A	Visual inspections, portable HC detector (EPA Method 21) and records of inspections and repairs
VOC	BAAQMD 8-18-304	N		Connections that leak > 100 ppm shall not be used unless the leak is discovered by an operator and minimized within 24 hours and repaired within 7 days or if the leak is discovered by an APCO and repaired within 24 hours	BAAQMD 8-18-401, 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 & SIP 8-18-305	N/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 & SIP 8-18-306, 8-18-401, 8-18-402, 8-18-501, 8-18-502, and BAAQMD 8-18-602	P/Q or A	Visual inspections, portable HC detector (EPA Method 21) and records of inspections and repairs
VOC	SIP 8-18-306	Y		Limitations on non-repairable equipment	SIP 8-18-501, 8-18-502, and BAAQMD 8-18-602, and 8-18-604	P/5 years or next turnaround	Records And Sampling

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – U
Applicable Limits and Compliance Monitoring Requirements
S1425 – DH CATALYTIC REFORMER UNIT (CRU)

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	BAAQMD 8-18-306	N		Limitations on non-repairable equipment	BAAQMD 8-18-501, 8-18-502, 8-18-503 and 8-18-602, and 8-18-604	P/5 years or next turnaround	Records And Sampling
VOC	BAAQMD & SIP 8-18-307 and 8-18-211	Y		Equipment that leaks liquid > 3 drops per minute and > 100 ppm VOC shall not be used unless the leak is discovered and minimized within 24 hours and repaired within 7 days	BAAQMD & SIP 8-18-306, 8-18-401, 8-18-402, 8-18-501, 8-18-502, and BAAQMD 8-18-602	P/Q or A	Visual inspections, portable HC detector (EPA Method 21) and records of inspections and repairs
VOC	BAAQMD 8-18-309.3	N		<= 100 ppm at open end of second valve when double block and bleed system is not in use	BAAQMD 8-18-401.2	P/Q	Visual inspections, portable HC detector (EPA Method 21) and records of inspections and repairs
VOC	BAAQMD 8-18-310	N		Valve, pump, compressor, or PRD leaking more than 3 consecutive quarters, inspect monthly instead	BAAQMD 8-18-407	P/M	Visual inspections, portable HC detector (EPA Method 21) and records of inspections and repairs
VOC	BAAQMD 8-18-311	N		Mass emission rate <= 5 lbs/day for any equipment except during repair periods	BAAQMD 8-18-604	P/E	Mass Emission Sampling

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – U
Applicable Limits and Compliance Monitoring Requirements
S1425 – DH CATALYTIC REFORMER UNIT (CRU)

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	SIP 8-28-303	Y		Pressure relief devices shall be vented to vapor recovery or disposal system with a control efficiency of 95% by weight OR Facility to implement Process Safety Requirements of BAAQMD 8-28-405 for Pressure Relief Devices	BAAQMD 8-28-404, 8-28-405, 8-28-502 and 8-28-602	C	Records and testing with approved methods
VOC	BAAQMD 8-28-303	N		Pressure relief devices shall be vented to vapor recovery or disposal system with a control efficiency of 95% by weight OR Facility to implement Process Safety Requirements of BAAQMD 8-28-405 for Pressure Relief Devices	BAAQMD 8-28-404, 8-28-405, 8-28-502 and 8-28-602	C	Records and testing with approved methods
VOC	BAAQMD & SIP 8-28-304	Y		If one reportable Release Event from a pressure relief device in any consecutive 5 year period, shall meet specified conditions	BAAQMD 8-28-401, 8-28-402, , 8-28-404, 8-28-405, and 8-28-502	P/E	Reporting and prescribed measures.
HCl	NESHAP 40 CFR 63 Subpart UUU 63.1567(a)(1)	Y		Reduce HCl emissions by 97% (wt) or HCl emissions of 10 ppmv at 3%O_2	NESHAP 40 CFR 63 Subpart UUU 63.1567(c) 63.1570(c) 63.1572(c) 63.1572(d) 63.1575(a) 63.1575(b) 63.1575(c) 63.1575(d) 63.1576(a) 63.1576(b) 63.1576(d) 63.1576(f) 63.1576(g) 63.1576(h)	P/Semi-Annual (compliance report), and C (parameter monitoring, maintain records)	Continuous alkalinity or pH and water/gas flow monitors, Performance test, Records, and reports

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – U
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
Through-put	BAAQMD Condition # 18618 Part 1	Y		Daily throughput limit of 32,000 bbl/day Annual throughput limit of 365 x daily throughput limit	BAAQMD Condition # 18618 Part 2	P/A	Records

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII - V
Applicable Limits and Compliance Monitoring Requirements
S1426 – CP CATALYTIC CRACKING UNIT (CCU)

Type of Limit	Emission Limit Citation	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Opacity	BAAQMD 6-1-301	N		Ringelmann No. 1 for no more than 3 minutes/hour	NSPS 40 CFR 60 Subpart J 60.105(a)(1), 60.105(e)(1) BAAQMD 6-1-501, 6-1-502 and 1-522	C	Opacity monitor and Records
Opacity	SIP 6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour	NSPS 40 CFR 60 Subpart J 60.105(a)(1), 60.105(e)(1) SIP 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 6-1-302	N		20% opacity for no more than 3 minutes/hour	NSPS 40 CFR 60 Subpart J 60.105(a)(1), 60.105(e)(1) BAAQMD 6-1-501, 6-1-502 and 1-522	C	Opacity monitor and Records
Opacity	SIP 6-302	Y		20% opacity for no more than 3 minutes/hour	NSPS 40 CFR 60 Subpart J 60.105(a)(1), 60.105(e)(1) SIP 6-501, 6-502 and 1-522	C	Opacity monitor and Records
Opacity	NSPS 40 CFR 60 Subpart J 60.102(a)(2)	Y		30 % opacity, except for one 6 minute average opacity reading in 1 hour	NSPS 40 CFR 60 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 - V
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)	NESHAP 40 CFR 63 Subpart UUU 63.1564(a)(1)(i)	Y		Opacity of emissions must not exceed 30%, except for one 6-minute opacity reading in any 1-hour period	NESHAP 40 CFR 63 Subpart UUU 63.1564(c)(1) 63.1570(c) 63.1572(b) 63.1572(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/D (operational records), P/Semi-Annual (compliance report), and C (opacity monitoring, maintain records)	Records, calculations, Performance Tests, and Reports
FP	BAAQMD 6-1-310	N		0.15 grain per dscf	BAAQMD Condition # 18618 Part 9 & Condition 12911 Part 3	P/A	Source Test
FP	SIP 6-310	Y		0.15 grain per dscf	BAAQMD Condition # 18618 Part 9 & Condition 12911 Part 3	P/A	Source Test
FP	BAAQMD 6-1-311	N		$4.10\ P^{0.67}$ lb/hr particulate, where P is process weight rate in ton/hr	BAAQMD Condition # 18618 Part 9 & Condition 12911 Part 3	P/A	Source Test
FP	SIP 6-311	Y		$4.10\ P^{0.67}$ lb/hr particulate, where P is process weight rate in ton/hr	BAAQMD Condition # 18618 Part 9 & Condition 12911 Part 3	P/A	Source Test

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII - V
Applicable Limits and Compliance Monitoring Requirements
S1426 – CP CATALYTIC CRACKING UNIT (CCU)

Type of Limit	Emission Limit Citation	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
PM	NSPS 40 CFR 60 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 40 CFR 60 Subpart J 60.105(c), 60.105(d))	P/D	Recordkeeping
PM	BAAQMD Condition # 18407 Part 2	Y		During periods when the spent catalyst hopper is blinded off from the CO Boilers, the amount of catalyst loaded into the spent catalyst hopper shall not exceed 2000 tons in any consecutive 12-month period	BAAQMD Condition # 18407 Part 3	P/D	Records
PM (Surrogate for Metal HAPs)	NESHAP 40 CFR 63 Subpart UUU 63.1564(a)(1)(i)	Y		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	NESHAP 40 CFR 63 Subpart UUU 63.1564(c)(1) 63.1570(c) 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/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 40 CFR 60 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 40 CFR 60 Subpart J 60.104(c), 60.105(c), 60.106(i)(12), and 60.108(e)	P	Records

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII - V
Applicable Limits and Compliance Monitoring Requirements
S1426 – CP CATALYTIC CRACKING UNIT (CCU)

Type of Limit	Emission Limit Citation	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
SO_2	NSPS 40 CFR 60 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	BAAQMD AMP Condition # 24335 Parts 1, 3, and 5	C	Records containing SO_2, O_2, CO and CO_2 CEM data, and calculations approved under AMP.
VOC	BAAQMD 8-10-301	Y		Abatement of emissions from process vessel depressurization is required until pressure is reduced to less than 1000 mm Hg	BAAQMD & SIP 8-10-401.2 and 8-10-501, 502.1 through 502.3 & 502 BAAQMD 8-18-502.4	P/E	Records
VOC	BAAQMD & SIP 8-18-301	Y		Equipment that leaks > 100 ppm shall not be used unless the leak is discovered and minimized within 24 hours and repaired within 7 days	BAAQMD & SIP 8-18-401, 8-18-402, 8-18-501, 8-18-502, and BAAQMD 8-18-602	P/A	Visual inspections, portable HC detector (EPA Method 21) and records of inspections and repairs
VOC	SIP 8-18-302	Y		Valves that leak > 100 ppm shall not be used unless the leak is discovered and minimized within 24 hours and repaired within 7 days	SIP 8-18-306, 8-18-401, 8-18-402, 8-18-404, 8-18-501, 8-18-502, and BAAQMD 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	N		Valves that leak > 100 ppm shall not be used unless the leak is discovered and minimized within 24 hours and repaired within 7 days	BAAQMD 8-18-306, 8-18-401, 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 - V
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	SIP 8-18-303	Y		Pumps and compressors that leak > 500 ppm shall not be used unless the leak is discovered and minimized within 24 hours and repaired within 7 days	SIP 8-18-306, 8-18-502.4, 8-18-401 8-18-402, 8-18-403, 8-18-501, 8-18-502, and BAAQMD 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 8-18-303	N		Pumps and compressors that leak > 500 ppm shall not be used unless the leak is discovered and minimized within 24 hours and repaired within 7 days	BAAQMD 8-18-306, 8-18-401 8-18-402, 8-18-403, 8-18-404 (pumps only), 8-18-501, 8-18-502, and 8-18-602	P/D – visual inspection and Q or A (pumps only) - monitoring	Visual inspections, portable HC detector (EPA Method 21) and records of inspections and repairs
VOC	SIP 8-18-304	Y		Connections that leak > 100 ppm shall not be used unless the leak is discovered by an operator and minimized within 24 hours and repaired within 7 days or if the leak is discovered by an APCO and repaired within 24 hours	SIP 8-18-401 8-18-402, 8-18-501, 8-18-502, and BAAQMD 8-18-602	P/Q	Visual inspections, portable HC detector (EPA Method 21) and records of inspections and repairs
VOC	BAAQMD 8-18-304	N		Connections that leak > 100 ppm shall not be used unless the leak is discovered by an operator and minimized within 24 hours and repaired within 7 days or if the leak is discovered by an APCO and repaired within 24 hours	BAAQMD, 8-18-401 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

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII - V
Applicable Limits and Compliance Monitoring Requirements
S1426 – CP CATALYTIC CRACKING UNIT (CCU)

Type of Limit	Emission Limit Citation	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	BAAQMD & SIP 8-18-305	N/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 & SIP 8-18-306, 8-18-401, 8-18-402, 8-18-501, 8-18-502, and BAAQMD 8-18-602	P/Q or A	Visual inspections, portable HC detector (EPA Method 21) and records of inspections and repairs
VOC	SIP 8-18-306	Y		Limitations on non-repairable equipment	SIP 8-18-501, 8-18-502, and BAAQMD 8-18-602, SIP 8-18-604	P/5 years or next turnaround	Records And Sampling
VOC	BAAQMD 8-18-306	N		Limitations on non-repairable equipment	BAAQMD 8-18-501, 8-18-502, 8-18-503, 8-18-602, and SIP 8-18-604 BAAQMD 8-18-502.4 8-18-503	P/5 years or next turnaround	Records And Sampling
VOC	BAAQMD & SIP 8-18-307 and 8-18-211	Y		Equipment that leaks liquid > 3 drops per minute and > 100 ppm VOC shall not be used unless the leak is discovered and minimized within 24 hours and repaired within 7 days	BAAQMD & SIP 8-18-306, 8-18-401, 8-18-402, 8-18-501, 8-18-502, and BAAQMD 8-18-602	P/Q or A	Visual inspections, portable HC detector (EPA Method 21) and records of inspections and repairs
VOC	BAAQMD 8-18-309.3	N		<= 100 ppm at open end of second valve when double block and bleed system is not in use	BAAQMD 8-18-401.2	P/Q	Visual inspections, portable HC detector (EPA Method 21) and records of inspection and repairs

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII - V
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 8-18-310	N		Valve, pump, compressor, or PRD leaking more than 3 consecutive quarters, inspect monthly instead	BAAQMD 8-18-407	P/M	Visual inspections, portable HC detector (EPA Method 21) and records of inspection and repairs
VOC	BAAQMD 8-18-311	N		Mass emission rate <= 5 lbs/day for any equipment except during repair periods	BAAQMD 8-18-604	P/E	Mass Emission Sampling
VOC	SIP 8-28-303.1	Y		Pressure relief devices shall be vented to vapor recovery or disposal system with a control efficiency of 95% by weight	BAAQMD 8-28-404, 8-28-405, 8-28-502 and 8-28-602	C	Records and testing with approved methods
VOC	BAAQMD 8-28-303.1	N		Pressure relief devices shall be vented to vapor recovery or disposal system with a control efficiency of 95% by weight	BAAQMD 8-28-404, 8-28-405, 8-28-502 and 8-28-602	C	Records and testing with approved methods
VOC	BAAQMD 8-28-303.2	N		Facility to implement Process Safety Requirements of BAAQMD 8-28-405 for Pressure Relief Devices	BAAQMD 8-28-502.1	P/E	Records
VOC	BAAQMD & SIP 8-28-304	Y		If one reportable Release Event from a pressure relief device in any consecutive 5 year period, shall meet specified conditions	BAAQMD 8-28-401, 8-28-402, 8-28-404, 8-28-405, and 8-28-502	P/E	Reporting and prescribed measures.
CO	NSPS 40 CFR 60 Subpart J 60.103(a)	Y		CO emissions shall not exceed 500 ppmv	NSPS 40 CFR 60 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

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII - V
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
NOx, SO2, CO and PM	BAAQMD Condition #7618, Part C.c	Y		If profile has more than 5 non-complying days, the refinery shall not process more than 65,000 barrels of catalytic cracker feed per stream day	BAAQMD Condition #7618, Part G	P/E	Records
CO (Surrogate for HAP VOC)	NESHAP 40 CFR 63 Subpart UUU 63.1565(a)(1)	Y		CO emissions shall not exceed 500 ppmv	NESHAP 40 CFR 63 Subpart UUU 63.1565(c) 63.1570(c) 63.1572(a) 63.1572(d) 63.1575(a) 63.1575(b) 63.1575(c) 63.1575(e) 63.1576(a) 63.1576(b) 63.1576(d) 63.1576(f) 63.1576(g) 63.1576(h)	P/Semi-Annual (compliance report), and C (emissions monitoring, maintain records)	Records, Performance Test, and CO CEM
Through-put	BAAQMD Condition #18618, Part 1	N		Daily throughput < 79,500 BPD Annual throughput < 29,017,500 BPY	BAAQMD Condition #18618, Part 2	P/A	Records
Through-put	BAAQMD Condition # 25345 Part 1	Y		Daily throughput < 79,500 BPD Annual throughput < 29,017,500 BPY	BAAQMD Condition # 25345 Part 3	P/D	Records

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – W
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 40 CFR 60 Subpart J 60.104 (a)(2)(i)	Y		250 ppmv SO_2 at 0% O_2	NSPS 40 CFR 60 Subpart J 60.105(a)(5), 60.106(f)(3)	C	SO_2 and O_2 CEM
SO_2	NSPS 40 CFR 60 Subpart J 60.104 (a)(2)(i)	Y		250 ppmv SO_2 at 0% O_2	For S4180 NSPS 40 CFR 60 Subpart J 60.105(a)(5), 60.106(f)(3) & BAAQMD AMP Condition# 24338 Part 1	C	SO_2 and O_2 CEM SO_2 CEM shall be spanned at 250 ppm and 2,500 ppm
SO2	NESHAP 40 CFR 63 Subpart UUU 63.1568(a)(1)(i)	Y		SO2 emissions shall not exceed 250 ppmv at 0% excess O2	NESHAP 40 CFR 63 Subpart UUU 63.1568(c)(1) 63.1570(c) 63.1572(a) 63.1572(d) 63.1575(a) 63.1575(b) 63.1575(c) 63.1575(e) 63.1576(a) 63.1576(b) 63.1576(d) 63.1576(f) 63.1576(g) 63.1576(h) 63.1576(i)	P/D (records) P/Semi-Annual (compliance report) and C (emissions monitoring, maintain records)	Records, SO2 and O2 CEM, Performance Test, Reports

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – W
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	BAAQMD Condition #12271, Part 65	Y		Applies to S4180 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		Applies to S4180 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

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – W
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	BAAQMD Condition #12271, Part 68	Y		Applies to S4180 (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 monitoring at A4181, and P/A for H_2S or P/every 5 years for H2S if results < 50% of limit	SO_2 CEM, Continuous temperature monitor at A4181, annual H_2S source test, records and reporting

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – W
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
SO2	BAAQMD Condition #19748 Part 7	Y		Applies to S1765 Concentration ≤ 250 ppmvd at 0% oxygen, averaged over 12 hours	BAAQMD Condition #19748 Part 8	C	CEM
SO2	BAAQMD Condition # 19748 Part 9	Y		Applies to S1765 Annual emissions ≤ 34 TPY	BAAQMD Condition #19748 Part 10	Stack flow: C Emission calculation: P/D/M	APCO approved calculations
H_2S	BAAQMD Condition #12271, Part 72	Y		Applies to S4180 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, or P/every 5 yrs if results < 50% of limit	Source Test

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – W
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
H2S	BAAQMD Condition #19748 Part 11	Y		Applies to S1765 Daily emissions ≤ 5.22 lbs/day Annual emission ≤ 0.95 TPY	BAAQMD Condition #19748 Part 12	P/A, or P/every 5 yrs if results < 50% of limit	Source Test
Opacity	BAAQMD 6-1-301	N		Ringelmann No. 1 for no more than 3 minutes/hour	BAAQMD Condition # 18618, Part 8	P/A, or every 5 yrs if results < 50% of limit	Source Test
Opacity	SIP 6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour	BAAQMD Condition # 18618, Part 8	P/A, or every 5 yrs if results < 50% of limit	Source Test
FP	BAAQMD 6-1-310	N		0.15 grain per dscf	BAAQMD Condition # 18618, Part 8	P/A, or every 5 yrs if results < 50% of limit	Source Test
FP	SIP 6-310	Y		0.15 grain per dscf	BAAQMD Condition # 18618, Part 8	P/A, or every 5 yrs if results < 50% of limit	Source Test
FP	BAAQMD 6-1-311	N		$4.10\ P^{0.67}$ lb/hr particulate, where P is process weight rate in ton/hr	BAAQMD Condition # 18618, Part 8	P/A, or every 5 yrs if results < 50% of limit	Source Test

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – W
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
FP	SIP 6-311	Y		$4.10\ P^{0.67}$ lb/hr particulate, where P is process weight rate in ton/hr	BAAQMD Condition # 18618, Part 8	P/A, or every 5 yrs if results < 50% of limit	Source Test
SO_3/ H_2SO_4	BAAQMD 6-1-330	N		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, or every 5 yrs if results < 50% of limit	Source Test
SO_3/ H_2SO_4	SIP 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, or every 5 yrs if results < 50% of limit	Source Test
Sulfuric Acid Mist	BAAQMD Condition #19748 Part 13	Y		Applies to S1765 Annual emissions ≤ 7.47 TPY	BAAQMD Condition #19748 Part 14	P/A, or P/every 5 yrs if results < 50% of limit	Source Test

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – W
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
NH_3, H_2S	BAAQMD Condition #12271, Part 64	N		Applies to S4180 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	Archived BAAQMD Condition #12271, Part 115 and Condition #18618, Part 10	N	Source test required for Initial compliance demonstration with BAAQMD 9-1-313.2
CO	BAAQMD Condition #12271, Part 70	Y		Applies to S4180 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, or P/every 5 yrs if results < 50% of limit	Source Test

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – W
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
NOx, SO2, CO and PM	BAAQMD Condition #7618, Part A	Y		Applies to S1765 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, CO, SO_2, PM and VOC	BAAQMD Condition #12271, Part A	Y		Applies to S4180: 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 – W
Applicable Limits and Compliance Monitoring Requirements
S1431 –CP SULFUR PLANT 1 (SRU1), S1432 – CP SULFUR PLANT 2 (SRU2),
S1765 – OPCEN SULFUR PLANT 3 (SRU3), S4180 – OPCEN SULFUR PLANT 4 (SRU4)

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Through-put	BAAQMD Condition #18618, Part 1	N		Applies to S1431 and S1432 Daily throughput S1431+S1432 < 331 Long Tons/Day (LTD) Annual throughput < 120,815 Long Tons/Yr (LTY) Applies to S1765 Daily throughput < 150 LTD Annual throughput < 54,750 LTY Applies to S4180 Daily throughput < 140 LTD Annual throughput < 51,100 LTY	BAAQMD Condition #18618, Part 2	P/A	Records

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – W
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
Operating Temperature	BAAQMD Condition #19748 Part 16	Y		Applies to S1765 ≥ 1,000 F	BAAQMD Condition #19748 Part 17	C	Temperature measuring device

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – X
Applicable Limits and Compliance Monitoring Requirements
S1457 – COOLING WATER TOWER (CWT-32),
S1778 – COOLING WATER TOWER (CWT-50), AND
S4210 – COOLING WATER TOWER (CWT-13278)

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Opacity	BAAQMD 6-1-301	N		Ringelmann No. 1 for no more than 3 minutes/hour	None	N	None
Opacity	SIP 6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour	None	N	None
FP	BAAQMD 6-1-310	N		0.15 grain per dscf	None	N	None
FP	SIP 6-310	Y		0.15 grain per dscf	None	N	None
FP	BAAQMD 6-1-311	N		$4.10\ P^{0.67}$ lb/hr particulate, where P is process weight rate in ton/hr	None	N	None
FP	SIP 6-311	Y		$4.10\ P^{0.67}$ lb/hr particulate, where P is process weight rate in ton/hr	None	N	None
VOC	BAAQMD 11-10-204.1	N	07/01/16	Leak action level not to exceed 84 ppb, weight in the cooling water	BAAQMD 11-10-304.1 11-10-603 11-10-604	P/D	Sample analysis
					OR	OR	OR
	OR			OR	11-10-304.2 11-10-602	C	VOC Analyzer
VOC	BAAQMD 11-10-204.2	N	07/01/16	Leak action level not to exceed 6 ppm, volume in the stripped air	11-10-304.2 11-10-602	C	VOC Analyzer
					OR	OR	OR
					11-10-304.3	TBD	Alternate method with APCO approval

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – X
Applicable Limits and Compliance Monitoring Requirements
S1457 – COOLING WATER TOWER (CWT-32),
S1778 – COOLING WATER TOWER (CWT-50), AND
S4210 – COOLING WATER TOWER (CWT-13278)

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	NESHAP 40 CFR 63 Subpart CC 63.654(c)(4)	Y		Action Level: Total strippable VOC (as CH4) < 6.2 ppmv for monthly monitoring per (c)(4)(i) **OR** < 3.1 ppmv for quarterly monitoring per (c)(4)(ii)	NESHAP 40 CFR 63.654(c)(3) 63.654(c)(1)(i) 63.654(c)(1)(ii) 63.655(g)(9) 63.655(i)(5) 63.655(i)(6)	P/M or Q, Records	Sample analysis, Records, and Reports
NOx, CO, SO2, PM and VOC	BAAQMD Condition #12271, Part A	Y		Applies to S4210 Emissions from Clean Fuels Project sources shall not exceed 199.4 tpy NOx, 252.4 tpy CO, 139.7 tpy SO2, 59.1 tpy PM, 132.0 tpy VOC, 20.8 ton/mon NOx, 26.3 ton/mon CO, 14.6 ton/mon SO2, 6.2 ton/mon PM and 13.7 ton/mon VOC	BAAQMD Condition #12271, Part A, B, C, L and M	P/M and A	Calculation, records and reporting
VOC	BAAQMD Condition 12271, Part 55	Y		Applies to S4210 Hydrocarbon reading above defined Action Level will trigger an alarm.	BAAQMD Condition # 12271 Part L, M and55	P/C	District-approved continuous hydrocarbon analyzer /recorder to determine hydrocarbon vapor concentra-tion fromcooling water

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – Y
Applicable Limits and Compliance Monitoring Requirements
S1465 – LOG LIGHT OIL PRODUCTS GROSS OIL SEPARATOR,
S1779 OPCEN CPI OIL/WATER SEPARATOR, S1469 – LOG API SEPARATOR (ETP 1)

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	BAAQMD 8-8-302.6	Y		VOC concentrations shall not exceed 500 ppm (expressed as methane) above background	BAAQMD 8-8-302.6, 8-8-503, 8-8-603 and	P/S	Visual inspections, portable HC detector (EPA Method 21) and records of inspections and repairs
Through-put	BAAQMD Condition #5077, Parts 1, 4, and 7	Y		Design rated capacity S-1465 ≤ 3,400 GPM S-1469 ≤ 6,000 GPM S-1779 ≤ 3,000 GPM	BAAQMD Condition #18618, Part 2	P/D and A	Records

Table VII – Z
Applicable Limits and Compliance Monitoring Requirements
S1470 – LOG LPG LOADING FLARE

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Opacity	BAAQMD 6-1-301	N		Ringelmann No. 1 for no more than 3 minutes/hour	None	P/E	Visible Emissions Check
Opacity	SIP 6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour	None	P/E	Visible Emissions Check
FP	BAAQMD 6-1-310	N		0.15 grain per dscf at 6% O_2	None	P/E	Visible Emissions Check
FP	SIP 6-310	Y		0.15 grain per dscf at 6% O_2	None	P/E	Visible Emissions Check

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – Z
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 40 CFR 60 Subpart J 60.104(a)(1)	Y		Fuel gas H_2S limited to 0.10 gr/dscf (162 ppm) except for gas burned as a result of process upset or gas burned at flares from relief valve leaks or other emergency malfunctions	NSPS 40 CFR 60 Subpart J 60.105(a)(4)(iv)	P/E	Monitoring and records

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – AA
Applicable Limits and Compliance Monitoring Requirements

S601 – FLARE FOR VINE HILL VAPOR RECOVERY SYSTEM,
S602 – FLARE FOR CRUDE STRING VAPOR RECOVERY SYSTEM

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	BAAQMD 8-5-306.1	N		Control device standards; includes 95% efficiency requirement	BAAQMD 8-5-502	N	Exempt for Approved Emission Control System with combustion
VOC	BAAQMD 8-5-306.2	N		Pressure vacuum valve must be gas-tight: <500 ppm (as methane) above background	BAAQMD 8-5-403	P/SA	Method 21 portable hydrocarbon detector
Opacity	BAAQMD 6-1-301	N		Ringelmann No. 1 for no more than 3 minutes/hour	None	P/E	Visible Emissions Check
Opacity	SIP 6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour	None	P/E	Visible Emissions Check
FP	BAAQMD 6-1-310	N		0.15 grain per dscf at 6% O_2	None	P/E	Visible Emissions Check
FP	SIP 6-310	Y		0.15 grain per dscf at 6% O_2	None	P/E	Visible Emissions Check
SO_2	NSPS 40 CFR 60 Subpart J 60.104(a)(1)	Y		Fuel gas H_2S limited to 0.10 gr/dscf (162 ppm) except for gas burned as a result of process upset or gas burned at flares from relief valve leaks or other emergency malfunctions	NSPS 40 CFR 60 Subpart J 60.105(a)(4)(iv) and 60.105(e)(3)	N	Exempt from monitoring

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – BB
Applicable Limits and Compliance Monitoring Requirements

S603 – FLARE FOR INTERIM GASOLINE VAPOR RECOVERY SYSTEM

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	BAAQMD 8-5-306.1	N		Control device standards; includes 95% efficiency requirement	BAAQMD 8-5-502	N	Exempt for Approved Emission Control System with combustion
VOC	BAAQMD 8-5-306.2	N		Pressure vacuum valve must be gas-tight: <500 ppm (as methane) above background	BAAQMD 8-5-403	P/SA	Method 21 portable hydrocarbon detector
FP	BAAQMD 12-12-501	N		None	BAAQMD 12-12-501	P/C	Water seal pressure and water level CPMS
Opacity	BAAQMD 6-1-301	N		Ringelmann No. 1 for no more than 3 minutes/hour	None	P/E	Visible Emissions Check
Opacity	SIP 6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour	None	P/E	Visible Emissions Check
FP	BAAQMD 6-1-310	N		0.15 grain per dscf at 6% O_2	None	P/E	Visible Emissions Check
FP	SIP 6-310	Y		0.15 grain per dscf at 6% O_2	None	P/E	Visible Emissions Check
SO_2	NSPS 40 CFR 60 Subpart J 60.104(a)(1)	Y		Fuel gas H_2S limited to 0.10 gr/dscf (162 ppm) except for gas burned as a result of process upset or gas burned at flares from relief valve leaks or other emergency malfunctions	NSPS 40 CFR 60 Subpart J 60.105(a)(4) and 60.105(e)(3)	N	Exempt from monitoring

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – BB
Applicable Limits and Compliance Monitoring Requirements

S603 – 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
SO_2	NSPS 40 CFR 60 Subpart Ja 60.103a(h)	Y		Fuel gas H_2S concentration limited to 162 ppmv on a 3-hour rolling average basis (combustion in a flare of process upset gas or fuel gas that is released as a result of relief leakage or other emergency malfunctions is exempt from this limit)	NSPS 40 CFR 60 Subpart Ja 60.107a(a)(3)	None	Fuel gas streams exempt from 60.103a(h) not subject to monitoring requirements

Table VII – CC
Applicable Limits and Compliance Monitoring Requirements
S1471 – LOP AUXILIARY FLARE, S1472 – LOP MAIN FLARE

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Opacity	BAAQMD 6-1-301	N		Ringelmann No. 1 for no more than 3 minutes/hour	BAAQMD Condition # 18618 Part 14, 15, 16, and 17	P/E	Visible Emissions Check
Opacity	SIP 6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour	BAAQMD Condition # 18618 Part 14, 15, 16, and 17	P/E	Visible Emissions Check
FP	BAAQMD 6-1-310	N		0.15 grain per dscf at 6% O_2	BAAQMD Condition # 18618 Part 14, 15, 16, and 17	P/E	Visible Emissions Check
FP	SIP 6-310	Y		0.15 grain per dscf at 6% O_2	BAAQMD Condition # 18618 Part 14, 15, 16, and 17	P/E	Visible Emissions Check

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – CC
Applicable Limits and Compliance Monitoring Requirements
S1471 – LOP AUXILIARY FLARE, S1472 – LOP MAIN FLARE

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC, HAP		N			BAAQMD Regulation 12-11-501 & 12-11-505	P/E	Flow Rate
		N			BAAQMD Regulation 12-11-502.1 & 12-11-505	P/E	Composition
		N			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			BAAQMD Regulation 12-11-507	P/	1 frame per minute image video recording
Vent Gas Limit	BAAQMD Condition # 18618 Part 12			Combined flow to flares S1471 and S1472 shall not exceed 630,000 lbs/hr vent gas	BAAQMD Condition # 18618 Part 13	P/E	Records
SO_2	NSPS Subpart J 60.104(a)(1)	Y		Fuel gas H_2S limited to 0.10 gr/dscf (162 ppm) except for gas burned as a result of process upset or gas burned at flares from relief valve leaks or other emergency malfunctions	NSPS Subpart J 60.105(a)(4) and 60.105(e)(3)	P/E	Monitoring of flare gas composition and records

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – DD
Applicable Limits and Compliance Monitoring Requirements

S1480 – LUBS F-69 ASPHALT CIRCULATION, S1481 – OPCEN F-30 DSU,
S1483 – LUBS F-32 ASPHALT CIRCULATION,
S1506 – CP F-61 CGP FEED,

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Opacity	BAAQMD 6-1-301	N		Ringelmann No. 1 for no more than 3 minutes/hour	None	N	None
Opacity	SIP 6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour	None	N	None
Opacity	BAAQMD 6-1-304	N		Ringelmann No. 2 for no more than 3 minutes/hour during tube cleaning	BAAQMD Condition # 18618 Part 6 and Part 7	P/E (during tube cleaning)	Visible emission inspection & Records
Opacity	SIP 6-304	Y		Ringelmann No. 2 for no more than 3 minutes/hour during tube cleaning	BAAQMD Condition # 18618 Part 6 and Part 7	P/E (during tube cleaning)	Visible emission inspection & Records
FP	BAAQMD 6-1-310.3	N		0.15 grain per dscf at 6% O_2	None	N	None
FP	SIP 6-310.3	Y		0.15 grain per dscf at 6% O_2	None	N	None
NOx	BAAQMD 9-10-301	N		Refinery-wide NOx emission rate shall not exceed 0.033 lb/MMBtu, operating-day average	BAAQMD 9-10-502, 9-10-504.1, 9-10-505 and 1-523; Condition # 18265 Parts 1-7, 9,10, 12-15,20	C	Monitoring, records, and reporting
					Condition # 18265 Part 7A1	A	Source Test

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – DD
Applicable Limits and Compliance Monitoring Requirements

S1480 – LUBS F-69 ASPHALT CIRCULATION, S1481 – OPCEN F-30 DSU,
S1483 – LUBS F-32 ASPHALT CIRCULATION,
S1506 – CP F-61 CGP FEED,

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NOx	BAAQMD 9-10-303	N		NOx emission rate shall not exceed 0.2 lb/MMBtu, operating-day average (facility-wide)	BAAQMD 9-10-502, 9-10-504.1, 9-10-505 and 1-523; Condition # 18265 Parts 1-7, 9,10, 12-15,20	C	Monitoring, records, and reporting
					Condition # 18265 Part 7A1	A	Source Test
NOx	SIP 9-10-303	Y		NOx emission rate shall not exceed 0.2 lb/MMBtu, operating-day average (facility-wide)	BAAQMD 9-10-502, 9-10-504.1, 9-10-505 and 1-523; Condition # 18265 Parts 1-7, 9,10,12-15,20	C	Monitoring, records, and reporting
					Condition # 18265 Part 7A1	A	Source Test
CO	BAAQMD 9-10-305	N		CO emissions shall not exceed 400 ppmv dry at 3% O_2, operating-day average	BAAQMD 9-10-502, 9-10-504.1, 9-10-505 and 1-523 and Condition # 18265 Part 7A1	A	Monitoring, records, and reporting
SO_2	NSPS 40 CFR 60 Subpart J 60.104(a)(1)	Y		Fuel gas H_2S limited to 0.10 gr/dscf (162 ppm) for refinery fuel gas (RFG) and/or flexigas (FXG)	NSPS 40 CFR 60 Subpart J 60.105(a)(4) and 60.105(e)(3)	C	H_2S analyzer for refinery fuel gas (RFG) and/or flexigas (FXG)

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – DD
Applicable Limits and Compliance Monitoring Requirements

S1480 – LUBS F-69 ASPHALT CIRCULATION, S1481 – OPCEN F-30 DSU,
S1483 – LUBS F-32 ASPHALT CIRCULATION,
S1506 – CP F-61 CGP FEED,

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NOx, SO_2, CO and PM	BAAQMD Condition #7618, Part 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

Table VII – EE
Applicable Limits and Compliance Monitoring Requirements

S1760 – OPCEN F-102 FXU STEAM SUPERHEATER

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Opacity	BAAQMD 6-1-301	N		Ringelmann No. 1 for no more than 3 minutes/hour	None	N	None
Opacity	SIP 6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour	None	N	None
Opacity	BAAQMD 6-1-304	N		Ringelmann No. 2 for no more than 3 minutes/hour during tube cleaning	BAAQMD Condition # 18618 Part 6 and Part 7	P/E (during tube cleaning)	Visible emission inspection & Records
Opacity	SIP 6-304	Y		Ringelmann No. 2 for no more than 3 minutes/hour during tube cleaning	BAAQMD Condition # 18618 Part 6 and Part 7	P/E (during tube cleaning)	Visible emission inspection & Records
FP	BAAQMD 6-1-310.3	N		0.15 grain per dscf at 6% O_2	None	N	None

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – EE
Applicable Limits and Compliance Monitoring Requirements

S1760 – OPCEN F-102 FXU STEAM SUPERHEATER

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
FP	SIP 6-310.3	Y		0.15 grain per dscf at 6% O_2	None	N	None
NOx	BAAQMD 9-10-301	N		Refinery-wide NOx emission rate shall not exceed 0.033 lb/MMBtu, operating-day average	BAAQMD 9-10-502, 9-10-504.1, 9-10-505, 1-522 and 1-523; Condition # 18265 Parts 1, 2, 8, 10, 11, 13-15, 20	C	NOx and O_2 CEM, monitoring, records, and reporting
NOx	BAAQMD 9-10-303	N		NOx emission rate shall not exceed 0.2 lb/MMBtu, operating-day average (facility-wide)	BAAQMD 9-10-502, 9-10-504.1, 9-10-505, 1-522 and 1-523; Condition # 18265 Parts 1, 2, 8, 10, 11, 13-15, 20	C	NOx and O_2 CEM, monitoring, records, and reporting
NOx	SIP 9-10-303	Y		NOx emission rate shall not exceed 0.2 lb/MMBtu, operating-day average (facility-wide)	BAAQMD 9-10-502, 9-10-504.1, 9-10-505, 1-522 and 1-523; Condition # 18265 Parts 1, 2, 8, 10, 11, 13-15, 20	C	NOx and O_2 CEM, monitoring, records, and reporting

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – EE
Applicable Limits and Compliance Monitoring Requirements

S1760 – OPCEN F-102 FXU STEAM SUPERHEATER

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NOx	BAAQMD Condition # 22119 Part 2	Y		NOx ≤ 0.033 lb/MMBTU (HHV) based on a rolling hourly 8760-hour average heat input.	BAAQMD Condition # 22119 Part 2	C	Records containing data gathered by NOx CEMS and fuel flow meters
NOx	BAAQMD Condition # 22119 Part 3	Y		Annual NOx emissions (Inlcusive of startups, shutdowns, upsets and malfunctions) ≤ 20.09 TPY	BAAQMD Condition # 22119 Part 3	P/M	Records
CO	BAAQMD 9-10-305	N		CO emissions shall not exceed 400 ppmv dry at 3% O_2, operating-day average	BAAQMD 9-10-502, 9-10-504.1, 9-10-505 and 1-523	C	Monitoring, records, and reporting
SO_2	NSPS 40 CFR 60 Subpart J 60.104(a)(1)	Y		Fuel gas H_2S limited to 0.10 gr/dscf (162 ppm)-for refinery fuel gas and/or flexigas	NSPS 40 CFR 60 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 – FF
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 6-1-301	N		Ringelmann No. 1 for no more than 3 minutes/hour	BAAQMD Condition # 18618 Part 3 and 7	P/10^6 gallon of fuel combusted	Visible Inspection
Opacity	SIP 6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour	BAAQMD Condition # 18618 Part 3 and 7	P/10^6 gallon of fuel combusted	Visible Inspection
Opacity	BAAQMD 6-1-304	N		Ringelmann No. 2 for no more than 3 minutes/hour during tube cleaning	BAAQMD Condition # 18618 Part 6 and 7	P/E (during tube cleaning)	Visible Inspection
Opacity	SIP 6-304	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 6-1-310.3	N		0.15 grain per dscf at 6% O_2	BAAQMD Condition # 18618 Part 3 and 7	P/10^6 gallon of fuel combusted	Visible Inspection
FP	SIP 6-310.3	Y		0.15 grain per dscf at 6% O_2	BAAQMD Condition # 18618 Part 3 and 7	P/10^6 gallon of fuel combusted	Visible Inspection
SO_2	BAAQMD 9-1-304	Y		Sulfur content of liquid fuel limited to 0.5% by weight	BAAQMD Condition # 18618 Part 4	P/10^6 gallon of fuel combusted	Sampling and Analysis
NOx		Y		S1510 NOx emission rate shall not exceed 0.05 lb NOx/MMBtu, rolling hourly 8,760-hour average, including start up, shut down, malfunctions, and upsets.	Condition # 23559, Part 2	C	NOx CEM, fuel flow meter

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – FF
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		Y		S1510 Allowable NOx emissions shall not exceed 43.8 TPY including start up, shut down, malfunctions, and upsets.	Condition # 23559, Part 3	C	NOx CEM, fuel flow meter
NOx		Y		S1511 NOx emission rate shall not exceed 0.033 lb NOx/MMBtu, rolling hourly 8,760-hour average, including start up, shut down, malfunctions, and upsets.	Condition # 23560, Part 2	C	NOx CEM, fuel flow meter
NOx	)	Y		S1511 Allowable NOx emissions shall not exceed 8.6724 TPY including start up, shut down, malfunctions, and upsets.	Condition # 23560, Part 3	C	NOx CEM, fuel flow meter
NOx	BAAQMD 9-10-301	N		Refinery-wide NOx emission rate shall not exceed 0.033 lb/MMBtu, operating-day average	BAAQMD 9-10-502, 9-10-504.1, 9-10-505, 1-522 and 1-523; Condition # 18265 Parts 1, 2, 8, 10, 11, 13-15, 20	C	NOx and O_2 CEM, monitoring, records, and reporting

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – FF
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 9-10-303	N		NOx emission rate shall not exceed 0.2 lb/MMBtu, operating-day average (facility-wide)	BAAQMD 9-10-502, 9-10-504.1, 9-10-505, 1-522 and 1-523; Condition # 18265 Parts 1, 2, 8, 10, 11, 13-15, 20	C	NOx and O_2 CEM, monitoring, records, and reporting
NOx	SIP 9-10-303	Y		NOx emission rate shall not exceed 0.2 lb/MMBtu, operating-day average (facility-wide)	BAAQMD 9-10-502, 9-10-504.1, 9-10-505, 1-522 and 1-523; Condition # 18265 Parts 1, 2, 8, 10, 11, 13-15, 20	C	NOx and O_2 CEM, monitoring, records, and reporting
NOx	BAAQMD Condition # 24263 Part 2	Y		NOx $\leq$ 0.033 lb/MMBTU (HHV) based on a rolling hourly 8760-hour average heat input.	BAAQMD Condition # 24263 Part 2	C	Records containing data gathered by NOx CEMS and fuel flow meters

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – FF
Applicable Limits and Compliance Monitoring Requirements
S1486 – DH F-40 CU FEED, S1487 – DH F-41B VFU FEED, S1488 – DH F-41A VFU FEED,
S1491 – DH F-44 NHT FEED, S1492 – DH F-45 PRIMARY COLUMN REBOIL,
S1493 – DH F-46 STABILIZER REBOIL, S1495 – DH F-49 CRU PREHEAT,
S1496 – DH F-50 CRU, S1497 – DH F-51 CRU,
S1498 – DH F-52 CRU REBOIL, S1508 – CP F-63 CFH FEED,
1510 – CP F-66 CCU PREHEAT, S1511 – CP F-67 CCU LGO REBOIL

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NOx	BAAQMD Condition # 24263 Part 3	Y		Combined annual NOx emissions from S-1490, S-1491, S-1492, S-1493, S-1494, S-1495, S-1496, S-1497, S-1498, and S-1499 (Inlcusive of startups, shutdowns, upsets and malfunctions) ≤ 127.34 TPY	BAAQMD Condition # 24263 Part 3	P/M	Records
NOx	BAAQMD Condition # 25134 Part 21	Y		Applies to S1486 Annual NOx emissions shall not exceed 91.6 tons/consecutive 12-month period	BAAQMD Condition # 25134 Part 22.b Part 22.c Part 23	P/M	Fuel flow monitor, records with NOx emission factor from Part 22.a
CO	BAAQMD 9-10-305	N		CO emissions shall not exceed 400 ppmv dry at 3% O_2, operating-day average	BAAQMD 9-10-502, 9-10-504.1, 9-10-505, 1-522 and 1-523	C	Monitoring, records, and reporting
SO_2	NSPS 40 CFR 60 Subpart J 60.104(a)(1)	Y		Fuel gas H_2S limited to 0.10 gr/dscf (162 ppm)	NSPS 40 CFR 60 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 – FF
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
SO_2	BAAQMD Condition #7618, Part E.2	Y		Applies to S1486, S1487, S1488, S1495, S1496, S1497, and S1508 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
CO2e	BAAQMD Condition # 25134 Part 26	Y		Applies to S1486 and S1495 Total CO2e emission reductions from S1486, S1495, and S4021 combined meet or exceed 17,874 metric tons per year over any consecutive three year rolling average	BAAQMD Condition # 25134 Parts 27, 28	P/M	Fuel flow monitors, records

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – FF
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
Through-put	BAAQMD Condition #16688	N		Maximum firing rate (higher heating value)	BAAQMD Condition #18618, Part 2	P/D and A	Records

Table VII – GG
Applicable Limits and Compliance Monitoring Requirements
S1490 – DH F-43 GOHT FEED, S1499 – DH F-53 CRU REGEN,
S1762 – DH F-128 CRU INTERHEATER

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Opacity	BAAQMD 6-1-301	N		Ringelmann No. 1 for no more than 3 minutes/hour	None	N	None
Opacity	SIP 6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour	None	N	None
Opacity	BAAQMD 6-1-304	N		Ringelmann No. 2 for no more than 3 minutes/hour during tube cleaning	BAAQMD Condition # 18618 Part 6 and 7	P/E (during tube cleaning)	Visible emissions monitoring & Records
Opacity	SIP 6-304	Y		Ringelmann No. 2 for no more than 3 minutes/hour during tube cleaning	BAAQMD Condition # 18618 Part 6 and 7	P/E (during tube cleaning)	Visible emissions monitoring & Records
FP	BAAQMD 6-1-310.3	N		0.15 grain per dscf at 6% O_2	None	N	None
FP	SIP 6-310.3	Y		0.15 grain per dscf at 6% O_2	None	N	None

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – GG
Applicable Limits and Compliance Monitoring Requirements
S1490 – DH F-43 GOHT FEED, S1499 – DH F-53 CRU REGEN,
S1762 – DH F-128 CRU INTERHEATER

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NOx	BAAQMD 9-10-301	N		Refinery-wide NOx emission rate shall not exceed 0.033 lb/MMBtu, operating-day average	BAAQMD 9-10-502, 9-10-504.1, 9-10-505, 1-522 and 1-523; Condition # 18265 Parts 1, 2, 8, 10, 11, 13-15, 20	C	NOx and O_2 CEM, monitoring, records, and reporting
NOx	BAAQMD 9-10-303	N		NOx emission rate shall not exceed 0.2 lb/MMBtu, operating-day average (facility-wide)	BAAQMD 9-10-502, 9-10-504.1, 9-10-505, 1-522 and 1-523; Condition # 18265 Parts 1, 2, 8, 10, 11, 13-15, 20	C	NOx and O_2 CEM, monitoring, records, and reporting
NOx	SIP 9-10-303	Y		NOx emission rate shall not exceed 0.2 lb/MMBtu, operating-day average (facility-wide)	BAAQMD 9-10-502, 9-10-504.1, 9-10-505, 1-522 and 1-523; Condition # 18265 Parts 1, 2, 8, 10, 11, 13-15, 20	C	NOx and O_2 CEM, monitoring, records, and reporting
NOx	BAAQMD Condition # 24263 Part 2	Y		For S-1490 & S-1499: NOx $\leq$ 0.033 lb/MMBTU (HHV) based on a rolling hourly 8760-hour average heat input.	BAAQMD Condition # 24263 Part 2	C	Records containing data gathered by NOx CEMS and fuel flow meters

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – GG
Applicable Limits and Compliance Monitoring Requirements
S1490 – DH F-43 GOHT FEED, S1499 – DH F-53 CRU REGEN,
S1762 – DH F-128 CRU INTERHEATER

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NOx	BAAQMD Condition # 24263 Part 3	Y		For S-1490 & S-1499: Combined annual NOx emissions from S-1490, S-1491, S-1492, S-1493, S-1494, S-1495, S-1496, S-1497, S-1498, and S-1499 (Inlcusive of startups, shutdowns, upsets and malfunctions) ≤ 127.34 TPY	BAAQMD Condition # 24263 Part 3	P/M	Records
CO	BAAQMD 9-10-305	N		CO emissions shall not exceed 400 ppmv dry at 3% O_2, operating-day average	BAAQMD 9-10-502, 9-10-504.1, 9-10-505, 1-522 and 1-523	C	Monitoring, records, and reporting
SO_2	NSPS 40 CFR 60 Subpart J 60.104(a)(1)	Y		Fuel gas H_2S limited to 0.10 gr/dscf (162 ppm)	NSPS 40 CFR 60 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		Applies to S1762 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 – GG
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
Through-put	BAAQMD Condition #16688	N		Maximum firing rate (higher heating value)	BAAQMD Condition #18618, Part 2	P/D and A	Records

Table VII – HH
Applicable Limits and Compliance Monitoring Requirements
S1494 – DH F-47 SECONDARY COLUMN REBOIL, S1502 – DH F-57 HCU FIRST STAGE FEED,
S1503 – DH F-58 HCU SECOND STAGE FEED, S1505 – DH F-60 HP1 STEAM METHANE REFORMER,
S1515 – DH F-71 HCU FIRST STAGE REBOIL, S1761 –
OPCEN F-104 HP2 STEAM METHANE REFORMER,
S4031 – DC F-14012 HGHT REBOIL, S4141 – DC F-14011 HGHT FEED

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Opacity	BAAQMD 6-1-301	N		Ringelmann No. 1 for no more than 3 minutes/hour	None	N	None
Opacity	SIP 6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour	None	N	None
Opacity	BAAQMD 6-1-304	N		Ringelmann No. 2 for no more than 3 minutes/hour during tube cleaning	BAAQMD Condition # 18618 Part 6 and 7	P/E (during tube cleaning)	Visible emissions monitoring & Records
Opacity	SIP 6-304	Y		Ringelmann No. 2 for no more than 3 minutes/hour during tube cleaning	BAAQMD Condition # 18618 Part 6 and 7	P/E (during tube cleaning)	Visible emissions monitoring & Records
FP	BAAQMD 6-1-310.3	N		0.15 grain per dscf at 6% O_2	None	N	None
FP	SIP 6-310.3	Y		0.15 grain per dscf at 6% O_2	None	N	None

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – HH
Applicable Limits and Compliance Monitoring Requirements
S1494 – DH F-47 SECONDARY COLUMN REBOIL, S1502 – DH F-57 HCU FIRST STAGE FEED, S1503 – DH F-58 HCU SECOND STAGE FEED, S1505 – DH F-60 HP1 STEAM METHANE REFORMER, S1515 – DH F-71 HCU FIRST STAGE REBOIL, S1761 – OPCEN F-104 HP2 STEAM METHANE REFORMER, S4031 – DC F-14012 HGHT REBOIL, S4141 – DC F-14011 HGHT FEED

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NOx	BAAQMD 9-10-301	N		Refinery-wide NOx emission rate shall not exceed 0.033 lb/MMBtu, operating-day average	BAAQMD 9-10-502, 9-10-504.1, 9-10-505, 1-522 and 1-523; Condition # 18265 Parts 1, 2, 8, 10, 11, 13-15, 20	C	NOx and O_2 CEM, monitoring, records, and reporting
NOx	BAAQMD 9-10-303	N		NOx emission rate shall not exceed 0.2 lb/MMBtu, operating-day average (facility-wide)	BAAQMD 9-10-502, 9-10-504.1, 9-10-505, 1-522 and 1-523; Condition # 18265 Parts 1, 2, 8, 10, 11, 13-15, 20	C	NOx and O_2 CEM, monitoring, records, and reporting
NOx	SIP 9-10-303	Y		NOx emission rate shall not exceed 0.2 lb/MMBtu, operating-day average (facility-wide)	BAAQMD 9-10-502, 9-10-504.1, 9-10-505, 1-522 and 1-523; Condition # 18265 Parts 1, 2, 8, 10, 11, 13-15, 20	C	NOx and O_2 CEM, monitoring, records, and reporting

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – HH
Applicable Limits and Compliance Monitoring Requirements
S1494 – DH F-47 SECONDARY COLUMN REBOIL, S1502 – DH F-57 HCU FIRST STAGE FEED, S1503 – DH F-58 HCU SECOND STAGE FEED, S1505 – DH F-60 HP1 STEAM METHANE REFORMER, S1515 – DH F-71 HCU FIRST STAGE REBOIL, S1761 – OPCEN F-104 HP2 STEAM METHANE REFORMER, S4031 – DC F-14012 HGHT REBOIL, S4141 – DC F-14011 HGHT FEED

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NOx	BAAQMD Condition #12271, Part 35	Y		Applies to S4031 and S4141 NOx emissions shall not exceed 10 ppmv dry at 3% O2, 3-hour average	BAAQMD Condition #12271 Part 38, L and M	C	NOx and O2 CEM, records and reporting
NOx	BAAQMD Condition # 24263 Part 2	Y		For S-1494: NOx ≤ 0.033 lb/MMBTU (HHV) based on a rolling hourly 8760-hour average heat input.	BAAQMD Condition # 24263 Part 2	C	Records containing data gathered by NOx CEMS and fuel flow meters
NOx	BAAQMD Condition # 24263 Part 3	Y		For S-1494: Combined annual NOx emissions from S-1490, S-1491, S-1492, S-1493, S-1494, S-1495, S-1496, S-1497, S-1498, and S-1499 (Inlcusive of startups, shutdowns, upsets and malfunctions) ≤ 127.34 TPY	BAAQMD Condition # 24263 Part 3	P/M	Records
CO	BAAQMD 9-10-305	N		CO emissions shall not exceed 400 ppmv dry at 3% O_2, operating-day average	BAAQMD 9-10-502, 9-10-504.1, 9-10-505, 1-522 and 1-523	C	Monitoring, records, and reporting
CO	BAAQMD Condition #12271, Part 36	Y		Applies to S4031 and S4141 CO emissions shall not exceed 50 ppmv dry at 3% O2, 8-hour average	BAAQMD Condition # 12271 Part 105	P/SA, or P/twice per 5 yrs if results are < 50% of limit	Source Test

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – HH
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 40 CFR 60 Subpart J 60.104(a)(1)	Y		Fuel gas H_2S limited to 0.10 gr/dscf (162 ppm) for refinery fuel gas (RFG) and/or flexigas (FXG)	NSPS 40 CFR 60 Subpart J 60.105(a)(4) and 60.105(e)(3)	C	H_2S analyzer for refinery fuel gas (RFG) and/or flexigas (FXG)
SO2	NSPS 40 CFR 60 Subpart J 60.104 (a)(1)	Y		Applies to S4141 Fuel gas H2S limited to 0.10 gr/dscf (162 ppm) for CR-2 vent gas	NSPS 40 CFR 60 Subpart A 60.13(i)	P	Monitoring, records, and reporting for CR-2 vent gas
SO2	NSPS 40 CFR 60 Subpart J 60.104 (a)(1)	Y		Applies to S4141 Fuel gas H2S limited to 0.10 gr/dscf (162 ppm) for CR-2 vent gas	BAAQMD AMP Condition # 24336 Parts 1 and 2	P/D	Monitor and record the caustic strength of the regenerated caustic at CR-2 to ensure a minimum caustic strength of 2% by wt. NaOH
SO_2	BAAQMD Condition #7618, Part E.2	Y		Applies to S1494, S1505, S1515, S1761, S4031 AND S4141 Flexigas H_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 – HH
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	BAAQMD Condition #12271, Part 15 and 18	Y		Applies to S4031 and S4141 Refinery fuel gas limited to 50 ppmv H_2S, 24-hour average; 0.1 grain/dscf (162 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, SO_2, CO and PM	BAAQMD Condition #7618, Part A	Y		Applies to S1494, S1502, S1503, S1505, S1515, and S1761 Daily emission increases over baseline profile shall be offset by reductions below profile at a ratio of at least 2.0:1	BAAQMD Condition #7618, Part B, F and G	P/D	Calculation, reporting and records
NOx, SO_2, CO and PM	BAAQMD Condition #7618, Part C.d	Y		Applies to S1494, S1502, S1503, S1505, S1515, and S1761 If profile has more than 5 non-complying days, the fuel usage at sources under the cap shall not exceed 14,730 NLFE (net liquid fuel equivalent) barrels per stream day	BAAQMD Condition #7618, Part G	P/E	Records
NOx, CO, SO2, PM and VOC	BAAQMD Condition #12271, Part A	Y		Applies to S4031 and S4141 Emissions from Clean Fuels Project sources shall not exceed 199.4 tpy NOx, 252.4 tpy CO, 139.7 tpy SO2, 59.1 tpy PM, 132.0 tpy VOC, 20.8 ton/mon NOx, 26.3 ton/mon CO, 14.6 ton/mon SO2, 6.2 ton/mon PM and 13.7 ton/mon VOC	BAAQMD Condition #12271, Part A, B, C, L and M	P/M and A	Calculation, records and reporting

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – HH
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
NH3	BAAQMD Condition #12271, Part 37	N		Applies to S4031 and S4141 NH3 emissions shall not exceed 20 ppmv dry at 3% O2	BAAQMD Condition # 12271 Part 111	P/A, or P/every 5 yrs if results < 50% of limit	Source Test
Through-put	BAAQMD Condition #16688	N		Maximum firing rate (higher heating value)	BAAQMD Condition #18618, Part 2	P/D and A	Records

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – II
Applicable Limits and Compliance Monitoring Requirements
S1500 – DH F-55 SGP HEAT MEDIUM, S1504 – DH F-59 HCU SECOND STAGE REBOIL,
S1763 – DH F-126 CU FEED, S4002 – DC F-13425-A DCU,
S4003 – DC F-13425-B DCU

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Opacity	BAAQMD 6-1-301	N		Ringelmann No. 1 for no more than 3 minutes/hour	BAAQMD Condition # 18618 Part 3 and 7	P/10^6 gallon of fuel combusted	Visible Inspection
Opacity	SIP 6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour	BAAQMD Condition # 18618 Part 3 and 7	P/10^6 gallon of fuel combusted	Visible Inspection
Opacity	BAAQMD 6-1-304	N		Ringelmann No. 2 for no more than 3 minutes/hour during tube cleaning	BAAQMD Condition # 18618 Part 6 and 7	P/E (during tube cleaning)	Visible emissions monitoring & Records
Opacity	SIP 6-304	Y		Ringelmann No. 2 for no more than 3 minutes/hour during tube cleaning	BAAQMD Condition # 18618 Part 6 and 7	P/E (during tube cleaning)	Visible emissions monitoring & Records
FP	BAAQMD 6-1-310.3	N		0.15 grain per dscf at 6% O_2	BAAQMD Condition # 18618 Part 3 and 7	P/10^6 gallon of fuel combusted	Visible Inspection
FP	SIP 6-310.3	Y		0.15 grain per dscf at 6% O_2	BAAQMD Condition # 18618 Part 3 and 7	P/10^6 gallon of fuel combusted	Visible Inspection
NOx	BAAQMD 9-10-301	N		Refinery-wide NOx emission rate shall not exceed 0.033 lb/MMBtu, operating-day average	BAAQMD 9-10-502, 9-10-504.1, 9-10-505, 1-522 and 1-523; Condition # 18265 Parts 1, 2, 8, 10, 11, 13-15, 20	C	NOx and O_2 CEM, monitoring, records, and reporting

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – II
Applicable Limits and Compliance Monitoring Requirements
S1500 – DH F-55 SGP HEAT MEDIUM, S1504 – DH F-59 HCU SECOND STAGE REBOIL,
S1763 – DH F-126 CU FEED, S4002 – DC F-13425-A DCU,
S4003 – DC F-13425-B DCU

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NOx	BAAQMD 9-10-303	N		NOx emission rate shall not exceed 0.2 lb/MMBtu, operating-day average (facility-wide)	BAAQMD 9-10-502, 9-10-504.1, 9-10-505, 1-522 and 1-523; Condition # 18265 Parts 1, 2, 8, 10, 11, 13-15, 20	C	NOx and O_2 CEM, monitoring, records, and reporting
NOx	SIP 9-10-303	Y		NOx emission rate shall not exceed 0.2 lb/MMBtu, operating-day average (facility-wide)	BAAQMD 9-10-502, 9-10-504.1, 9-10-505, 1-522 and 1-523; Condition # 18265 Parts 1, 2, 8, 10, 11, 13-15, 20	C	NOx and O_2 CEM, monitoring, records, and reporting
NOx	BAAQMD Condition #12271, Part 35	Y		Applies to S4002 and S4003 NOx emissions shall not exceed 10 ppmv dry at 3% O2, 3-hour average	BAAQMD Condition #12271 Part 38, L and M	C	NOx and O2 CEM, records and reporting
CO	BAAQMD 9-10-305	N		CO emissions shall not exceed 400 ppmv dry at 3% O_2, operating-day average	BAAQMD 9-10-502, 9-10-504.1, 9-10-505, 1-522 and 1-523	C	Monitoring, records, and reporting
CO	BAAQMD Condition #12271, Part 36	Y		Applies to S4002 and S4003 CO emissions shall not exceed 50 ppmv dry at 3% O2, 8-hour average	BAAQMD Condition # 12271 Part 105	P/SA, or P/twice per 5 yrs if results < 50% of limit	Source Test

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – II
Applicable Limits and Compliance Monitoring Requirements
S1500 – DH F-55 SGP HEAT MEDIUM, S1504 – DH F-59 HCU SECOND STAGE REBOIL,
S1763 – DH F-126 CU FEED, S4002 – DC F-13425-A DCU,
S4003 – DC F-13425-B DCU

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
SO_2	BAAQMD 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
SO_2	NSPS 40 CFR 60 Subpart J 60.104(a)(1)	Y		Fuel gas H_2S limited to 0.10 gr/dscf (162 ppm) for refinery fuel gas (RFG) and/or flexigas (FXG)	NSPS 40 CFR 60 Subpart J 60.105(a)(4) and 60.105(e)(3)	C	H_2S analyzer for refinery fuel gas (RFG) and/or flexigas (FXG)
SO2	NSPS 40 CFR 60 Subpart J 60.104 (a)(1)	Y		Applies to S4002 and S4003 Fuel gas H2S limited to 0.10 gr/dscf (162 ppm) for CR-2 vent gas	NSPS 40 CFR 60 Subpart A 60.13(i)	P	Monitoring, records, and reporting for CR-2 vent gas
SO2	NSPS 40 CFR 60 Subpart J 60.104 (a)(1)	Y		Applies to S4002 and S4003 Fuel gas H2S limited to 0.10 gr/dscf (162 ppm) for CR-2 vent gas	BAAQMD AMP Condition #: 24336 Parts 1 and 2	P/D	Monitor and record the caustic strength of the regenerated caustic at CR-2 to ensure a minimum caustic strength of 2% by wt. NaOH
SO_2	BAAQMD Condition #7618, Part C.e	Y		Applies to S1500, S1504, and S1763 If profile has more than 5 non-complying days, the sulfur content of liquid fuel shall be limited to 1.0 ton/day (or 1.3 ton/day if flexicoker is down)	BAAQMD Condition #7618, Part G	P/E	Records
SO_2	BAAQMD Condition #7618, Part E.1	Y		Applies to S1500, S1504, and S1763 Sulfur content of liquid fuel limited to 0.5% by weight	BAAQMD Condition # 18618 Part 4	P/10^6 gallon of fuel combusted	Sampling and Analysis

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – II
Applicable Limits and Compliance Monitoring Requirements
S1500 – DH F-55 SGP HEAT MEDIUM, S1504 – DH F-59 HCU SECOND STAGE REBOIL,
S1763 – DH F-126 CU FEED, S4002 – DC F-13425-A DCU,
S4003 – DC F-13425-B DCU

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
SO_2	BAAQMD Condition #7618, Part E.2	Y		Applies to S1504, S1763, S4002 and S4003 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 and 18.a.	Y		Applies to S4002 and S4003 Refinery fuel gas limited to 50 ppmv H_2S, 24-hour average; 0.1 grain/dscf (162 ppm) H_2S, 3-hour average; and 100 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, SO_2, CO and PM	BAAQMD Condition #7618, Part A	Y		Applies to S1500, S1504, and S1763 Daily emission increases over baseline profile shall be offset by reductions below profile at a ratio of at least 2.0:1	BAAQMD Condition #7618, Part B, F and G	P/D	Calculation, reporting and records
NOx, SO_2, CO and PM	BAAQMD Condition #7618, Part C.d	Y		Applies to S1500, S1504, and S1763 If profile has more than 5 non-complying days, the fuel usage at sources under the cap shall not exceed 14,730 NLFE (net liquid fuel equivalent) barrels per stream day	BAAQMD Condition #7618, Part G	P/E	Records

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – II
Applicable Limits and Compliance Monitoring Requirements
S1500 – DH F-55 SGP HEAT MEDIUM, S1504 – DH F-59 HCU SECOND STAGE REBOIL,
S1763 – DH F-126 CU FEED, S4002 – DC F-13425-A DCU,
S4003 – DC F-13425-B DCU

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NOx, CO, SO2, PM and VOC	BAAQMD Condition #12271, Part A	Y		Applies to S4002 and S4003 Emissions from Clean Fuels Project sources shall not exceed 199.4 tpy NOx, 252.4 tpy CO, 139.7 tpy SO2, 59.1 tpy PM, 132.0 tpy VOC, 20.8 ton/mon NOx, 26.3 ton/mon CO, 14.6 ton/mon SO2, 6.2 ton/mon PM and 13.7 ton/mon VOC	BAAQMD Condition #12271, Part A, B, C, L and M	P/M and A	Calculation, records and reporting
NH3	BAAQMD Condition # 12271, Part 37	N		Applies to S4002 and S4003 NH3 emissions shall not exceed 20 ppmv dry at 3% O2	BAAQMD Condition #12271 Part 111	P/A, or P/every 5 yrs if results < 50% of limit	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 – JJ
Applicable Limits and Compliance Monitoring Requirements
S1507 – UTIL CO BOILER 1, S1509 – UTIL CO BOILER 2,
S1512 – UTIL CO BOILER 3

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Opacity	BAAQMD 6-1-301	N		Ringelmann No. 1 for no more than 3 minutes/hour	NSPS Subpart J 60.105(a)(1), 60.105(e)(1), 60.106(a) and 60.106(b)(4) BAAQMD 6-1-501, 6-1-502 and 1-522	C	Opacity monitor and Records

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – JJ
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	SIP 6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour	NSPS Subpart J 60.105(a)(1), 60.105(e)(1), 60.106(a) and 60.106(b)(4) SIP 6-501, 6-502 and 1-522	C	Opacity monitor and Records
Opacity	BAAQMD 6-1-304	N		Ringelmann No. 2 for no more than 3 minutes/hour during tube cleaning	NSPS Subpart J 60.105(a)(1), 60.105(e)(1), 60.106(a) and 60.106(b)(4) BAAQMD 6-1-501, 6-1-502 and 1-522	C	Opacity monitor and Records
Opacity	SIP 6-304	Y		Ringelmann No. 2 for no more than 3 minutes/hour during tube cleaning	NSPS Subpart J 60.105(a)(1), 60.105(e)(1), 60.106(a) and 60.106(b)(4) SIP 6-501, 6-502 and 1-522	C	Opacity monitor and Records
FP	BAAQMD 6-1-310.3	Y		0.15 grain per dscf at 6% O_2	BAAQMD Condition # 22165 Part 6	C	Opacity in excess of 30% implies an exceedance of Regulation 6-1-310.3
FP	BAAQMD 6-1-310.3	N		0.15 grain per dscf at 6% O_2	BAAQMD Condition # 18618 Part 9	P/A, or P/every 5 yrs if results < 50% of limit	Source Test
FP	SIP 6-310.3	Y		0.15 grain per dscf at 6% O_2	BAAQMD Condition # 18618 Part 9	P/A, or P/every 5 yrs if results < 50% of limit	Source Test

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – JJ
Applicable Limits and Compliance Monitoring Requirements
S1507 – UTIL CO BOILER 1, S1509 – UTIL CO BOILER 2,
S1512 – UTIL CO BOILER 3

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
FP	BAAQMD 6-1-311	N		$E = 4.10\ P^{0.67}$ lb/hr particulate, where P is process weight rate in ton/hr For example, if P = 28.66 TPH, then E = 13.33 lbs/hr/COB during three-COB operation; 20 lbs/hr/COB during two-COB operation; and 40 lbs/hr/COB during single-COB operation	BAAQMD Condition # 18618 Part 9	P/A, or P/every 5 yrs if results < 50% of limit	Source Test
FP	SIP 6-311	Y		$E = 4.10\ P^{0.67}$ lb/hr particulate, where P is process weight rate in ton/hr For example, if P = 28.66 TPH, then E = 13.33 lbs/hr/COB during three-COB operation; 20 lbs/hr/COB during two-COB operation; and 40 lbs/hr/COB during single-COB operation	BAAQMD Condition # 18618 Part 9	P/A, or P/every 5 yrs if results < 50% of limit	Source Test
NOx	BAAQMD 9-10-303.1	Y		NOx emission rate shall not exceed 300 ppm dry, at 3% O_2, operating-day average (facility-wide)	BAAQMD 9-10-502, 9-10-504.1, 9-10-505, 1-522 and 1-523	C	NOx and O_2 CEM, monitoring, records, and reporting
NOx	BAAQMD 9-10-307.2.1	N		NOx emissions shall not exceed 125 ppm dry at 3% O2, operating-day average	BAAQMD 9-10-502, 9-10-504.1, 9-10-505, 1-522 and 1-523	C	NOx and O2 CEM, monitoring, records, and reporting

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – JJ
Applicable Limits and Compliance Monitoring Requirements
S1507 – UTIL CO BOILER 1, S1509 – UTIL CO BOILER 2,
S1512 – UTIL CO BOILER 3

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NOx	BAAQMD 9-10-307.2.2	N		NOx emissions shall not exceed 85 ppm dry at 3% O2, calendar year average	BAAQMD 9-10-502, 9-10-504.1, 9-10-505, 1-522 and 1-523	C	NOx and O2 CEM, monitoring, records, and reporting
NOx	BAAQMD Condition # 12271, Part 85	Y		Combined NOx emissions shall not exceed 4,456 lb/day, averaged over any consecutive 365-day period	BAAQMD Condition #12271, Part 86, 87, 88, L, and M	C	NOx and O2 CEM, records and reporting
NOx	BAAQMD Condition # 25247 Part 2	Y		Long-Term NOx Limits (ppmvd @ 0% O2, 365-day rolling average): COB 1: < 130.6 COB 2: < 127.4 COB 3: < 113.1 Applies when abating CCU flue gas at all times CCU is operating, including SU, SD, or Malfunction (Part 2.a.i) For each operating day when CCU not operating, no NOx value included in the 365-day average (Part 2.a.ii)	BAAQMD Condition # 25247 Part 2.a.iii	C	NOx CEM and records

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – JJ
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 # 25247 Part 2	Y		Short-Term NOx Limits (ppmvd @ 0% O2, 24-hour rolling average): COB 1: < 168.4 COB 2: < 156.9 COB 3: < 142.7 Applies when abating CCU flue gas at all times CCU is operating, including SU, SD, or Malfunction (Part 2.b.i) For each clock hour when CCU not operating, no NOx value included in the 24-hour average (Part 2.b.ii)	BAAQMD Condition # 25247 Part 2.b.iii	C	NOx and CEM and records
CO	BAAQMD 9-10-305	N		CO emissions shall not exceed 400 ppmv dry at 3% O_2, operating-day average	BAAQMD 9-10-502, 9-10-504.1, 9-10-505, 1-522 and 1-523	C	CO and O_2 CEM, monitoring, records, and reporting
SO2	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
SO_2	NSPS 40 CFR 60 Subpart J 60.104(a)(1)	Y		Fuel gas H_2S limited to 0.10 gr/dscf (162 ppm)	NSPS 40 CFR 60 Subpart J 60.105(a)(4) and 60.105(e)(3)	C	H_2S analyzer
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 – JJ
Applicable Limits and Compliance Monitoring Requirements
S1507 – UTIL CO BOILER 1, S1509 – UTIL CO BOILER 2,
S1512 – UTIL CO BOILER 3

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
SO_2	BAAQMD Condition #7618, Part E.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 (162 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
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
SO_2	BAAQMD Condition # 25247 Part 1	Y		Long-Term SO2 Limit (ppmvd @ 0% O_2 for 365-day rolling average): 2 or 3 CO Boilers < 109.1 Applies when abating CCU flue gas at all times CCU is operating, including SU, SD, or Malfunction (Part 1.a.i) For each operating day when CCU not operating, no SO2 value included in the 365-day average (Part 1.a.ii)	BAAQMD Condition # 25247 Part 1.c	C	SO_2 CEM, stack flow rates, and records

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – JJ
Applicable Limits and Compliance Monitoring Requirements
S1507 – UTIL CO BOILER 1, S1509 – UTIL CO BOILER 2,
S1512 – UTIL CO BOILER 3

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
SO_2	BAAQMD Condition # 25247 Part 1	Y		Short-Term SO2 Limit (ppmvd @ 0% O_2, 7-day rolling average): 3 CO Boilers < 156.0 Applies when abating CCU flue gas at all times CCU is operating, including SU, SD, or Malfunction (Part 1.b.i), except during outages of the CFH (S1428) and/or DHT (S4020), comply with the Hydrotreater Outage Plan (AN 22287), or with Short-Term Limits (Part 1.b.ii) For each operating day when CCU not operating, no SO2 value included in the 7-day average (Part 1.b.iii)	BAAQMD Condition # 25247 Part 1.c	C	SO_2 CEM, stack flow rates, and records

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – JJ
Applicable Limits and Compliance Monitoring Requirements
S1507 – UTIL CO BOILER 1, S1509 – UTIL CO BOILER 2,
S1512 – UTIL CO BOILER 3

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
SO_2	BAAQMD Condition # 25247 Part 1	Y		Short-Term SO2 Limit (ppmvd @ 0% O_2, 7-day rolling average): 2 CO Boilers < 204.2 Applies when abating CCU flue gas at all times CCU is operating, including SU, SD, or Malfunction (Part 1.b.i), except during outages of the CFH (S1428) and/or DHT (S4020), comply with the Hydrotreater Outage Plan (AN 22287), or with Short-Term Limits (Part 1.b.ii) For each operating day when CCU not operating, no SO2 value included in the 7-day average (Part 1.b.iii)	BAAQMD Condition # 25247 Part 1.c	C	SO_2 CEM, stack flow rates, 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.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
NH3	BAAQMD 6-5-403	N		Ammonia limit established based on Optimization Plan 3/1/16	BAAQMD 6-5-501	C	APCO approved NH3 Monitoring System

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – JJ
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
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, or P/every 5 yrs if results < 50% of limit (C)	Source test (or NH_3 CEM, if installed)
NOx	BAAQMD Condition # 25134 Part 24	Y		Total emissions of nitrogen oxides do not exceed 468 tons in any consecutive twelve-month period for 3 CO boilers combined	BAAQMD Condition #25134 Part 25	P/Q	NOx CEM records and reporting
Through-put	BAAQMD Condition #18618, Part 1	N		Maximum Firing Rate: 5,568 MMBTU/day/COB (LHV) 2,032,320 MMBTU/yr/COB (LHV) 6,125 MMBTU/day/COB (HHV) 2,235,625 MMBTU/yr/COB (HHV)	BAAQMD Condition #18618, Part 2	P/A	Records

Table VII – KK
Applicable Limits and Compliance Monitoring Requirements
S1514 – UTIL F-70 BOILER 4

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

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – KK
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	SIP 6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour	None	N	None
Opacity	BAAQMD 6-1-304	N		Ringelmann No. 2 for no more than 3 minutes/hour during tube cleaning	BAAQMD Condition # 18618 Part 6 and Part 7	P/E (during tube cleaning)	Visible emissions Inspection & Records
Opacity	SIP 6-304	Y		Ringelmann No. 2 for no more than 3 minutes/hour during tube cleaning	BAAQMD Condition # 18618 Part 6 and Part 7	P/E (during tube cleaning)	Visible emissions Inspection & Records
FP	BAAQMD 6-1-310.3	N		0.15 grain per dscf at 6% O_2	BAAQMD Condition # 18618 Part 3 and 7	P/10^6 gallon of fuel combusted	Visible emissions Inspection & Records
FP	SIP 6-310.3	Y		0.15 grain per dscf at 6% O_2	BAAQMD Condition # 18618 Part 3 and 7	P/10^6 gallon of fuel combusted	Visible 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, 9-10-504.1, 9-10-505, 1-522 and 1-523; Condition # 18265 Parts 1, 2, 8, 10, 11, 13-15, 20	C	NOx and O_2 CEM, monitoring, records, and reporting

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – KK
Applicable Limits and Compliance Monitoring Requirements
S1514 – UTIL F-70 BOILER 4

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NOx	BAAQMD 9-10-303	N		NOx emission rate shall not exceed 0.2 lb/MMBtu, operating-day average (facility-wide)	BAAQMD 9-10-502, 9-10-504.1, 9-10-505, 1-522 and 1-523; Condition # 18265 Parts 1, 2, 8, 10, 11, 13-15, 20	C	CO and O_2 CEM, monitoring, records, and reporting
NOx	SIP 9-10-303	Y		NOx emission rate shall not exceed 0.2 lb/MMBtu, operating-day average (facility-wide)	BAAQMD 9-10-502, 9-10-504.1, 9-10-505, 1-522 and 1-523; Condition # 18265 Parts 1, 2, 8, 10, 11, 13-15, 20	C	CO 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, 9-10-504.1, 9-10-505, 1-522 and 1-523	C	Monitoring, records, and reporting
SO_2	NSPS 40 CFR 60 Subpart J 60.104(a)(1)	Y		Fuel gas H_2S limited to 0.10 gr/dscf (162 ppm)	NSPS 40 CFR 60 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

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – KK
Applicable Limits and Compliance Monitoring Requirements
S1514 – UTIL F-70 BOILER 4

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NOx, 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 ≤ 0.045 lb/MMBTU (HHV) based on a rolling hourly 8760-hour average heat input.	BAAQMD Condition # 17532 Part 3	C	Records containing data gathered by NOx CEMS and fuel flow meters
NOx	BAAQMD Condition # 17532 Part 4	Y		Annual NOx emissions (Inlcusive of startups, shutdowns, upsets and malfunctions) ≤ 80.61 TPY	BAAQMD Condition # 17532 Part 4	P/M	Records
SO_2	Condition #7618, Part C.e	Y		If profile has more than 5 non-complying days, the sulfur content of liquid fuel shall be limited to 1.0 ton/day (or 1.3 ton/day if flexicoker is down)	BAAQMD Condition 7618, Part G	P/E	Records
SO_2	BAAQMD Condition #7618, Part E.1	Y		Sulfur content of liquid fuel limited to 0.5% by weight	BAAQMD Condition # 18618 Part 4	P/10^6 gallon of fuel combusted	Sampling and Analysis
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		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 – LL
Applicable Limits and Compliance Monitoring Requirements
S1598 – MAINT GASOLINE DISPENSING FACILITY

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
HAP	BAAQMD Condition #7878, Part 1	N		Annual gasoline throughput shall not exceed 600,000 gallons in any 12-month period	BAAQMD Condition #7878, Part 1 #24298, Part 2	P/M	Records
POC	8-7-301.6	Y		All Phase I vapor recovery equipment, except for components with an allowable leak rate, shall be maintained to be leak-free, vapor tight	8-7-301.13 8-7-602	P/A	Static Pressure Performance Test, ST-30
POC	8-7-302.5	Y		All Phase II vapor recovery equipment, except for components with an allowable leak rate, shall be maintained to be leak-free, vapor tight	8-7-301.13 8-7-602	P/A	Static Pressure Performance Test, ST-30
POC	BAAQMD Condition # 21593 Part 2	Y		Drop tube/drain valve leak rate not to exceed 0.17 CFH @ 2" H_2O; minimum 360° rotation with maximum 108 pound-inch torque	BAAQMD 8-7-503.2 and BAAQMD Condition # 20666 Part 2	P/3A	Drop tube/drain valve leak test (CARB TP 201.1C or 201.1D) and torque test (CARB TP 201.1B
POC	BAAQMD Condition #24298, Part 4	Y		Back Pressure for Vapor Balance, per Executive Order VR-203 shall not exceed 0.35" WC @ 60 CFH and 0.62" WC @ 80 CFH measured using CARB TP201.4 (7/3/02)	8-7-302.14 8-7-601	P/A	Dynamic Back-pressure Test (ST-27)
POC	BAAQMD Condition #24298, Part 4	Y		Liquid Removal Test per CARB E.O. VR-203, Exhibit 5, Option 1	CARB E.O VR-203	P/A	Liquid Removal Test
POC	BAAQMD Condition #24298, Part 4	Y		Vapor Pressure Sensor Verification Test per E.O. VR-203, Exhibit 8,	CARB E.O VR-203	P/A	Vapor Pressure Sensor Verification

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – LL
Applicable Limits and Compliance Monitoring Requirements
S1598 – MAINT GASOLINE DISPENSING FACILITY

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
POC	BAAQMD Condition #24298, Part 4	Y		Veeder-Root Vapor Polisher Operability Test. E.O. VR-203, Exhibit 11	CARB E.O VR-203	P/A	Vapor Pressure Operability Test
POC	BAAQMD Condition #24298, Part 4	Y		Veeder-Root Vapor Polisher Emissions Test - E.O. VR-203, Exhibit 12	CARB E.O VR-203	P/A	Vapor Polisher Emissions Test

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – MM
Applicable Limits and Compliance Monitoring Requirements
S1650 – MAINT SANDBLASTING SAND HOPPER

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Opacity	BAAQMD 6-1-301	N		Ringelmann No. 1 for no more than 3 minutes/hour	BAAQMD Condition #18618, Part 5 and 7	PA	Visible emissions inspection and Records
Opacity	SIP 6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour	BAAQMD Condition #18618, Part 5 and 7	PA	Visible emissions inspection and Records
FP	BAAQMD 6-1-311	N		4.10 $P^{0.67}$ lb/hr particulate, where P is process weight rate in ton/hr	BAAQMD Condition #18618, Part 5 and 7	P/A	Visible emissions inspection and Records
FP	SIP 6-311	Y		4.10 $P^{0.67}$ lb/hr particulate, where P is process weight rate in ton/hr	BAAQMD Condition #18618, Part 5 and 7	P/A	Visible emissions inspection and Records

Table VII – NN
Applicable Limits and Compliance Monitoring Requirements
S1767 – OPCENV 1019 COKE SILO, S1768 – OPCEN V1020 COKE SILO,
S1769 – OPCEN V 1021 DRY FINES SILO

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Opacity	BAAQMD 6-1-301	N		Ringelmann No. 1 for no more than 3 minutes/hour	BAAQMD Condition # 18618 Part 5 and 7	P/A	Visible emissions inspection & Records
Opacity	SIP 6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour	BAAQMD Condition # 18618 Part 5 and 7	P/A	Visible emissions inspection & Records
FP	BAAQMD 6-1-310	N		0.15 grain per dscf	BAAQMD Condition # 18618 Part 5 and 7	P/A	Visible emissions inspection & Records
FP	SIP 6-310	Y		0.15 grain per dscf	BAAQMD Condition # 18618 Part 5 and 7	P/A	Visible emissions inspection & Records

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – NN
Applicable Limits and Compliance Monitoring Requirements
S1767 – OPCENV 1019 COKE SILO, S1768 – OPCEN V1020 COKE SILO,
S1769 – OPCEN V 1021 DRY FINES SILO

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
FP	BAAQMD 6-1-311	N		$4.10\ P^{0.67}$ lb/hr particulate, where P is process weight rate in ton/hr	BAAQMD Condition # 18618 Part 5 and 7	P/A	Visible emissions inspection & Records
FP	SIP 6-311	Y		$4.10\ P^{0.67}$ lb/hr particulate, where P is process weight rate in ton/hr	BAAQMD Condition # 18618 Part 5 and 7	P/A	Visible emissions inspection & 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
FP	BAAQMD Condition #20755 Part 1	N		Applies to S1769 Do not route coke fines from S1769 to the portable filter truck (A771) more than 96 hours during any consecutive 12-month basis	BAAQMD Condition #20755 Part 2	N	Records

Table VII – OO
Applicable Limits and Compliance Monitoring Requirements
S1771 – OPCEN FLEXIGAS FLARE

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Opacity	BAAQMD 6-1-301	N		Ringelmann No. 1 for no more than 3 minutes/hour	BAAQMD Condition # 18618 Part 18	P/E	Visible Emissions Check
Opacity	SIP 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 6-1-310	N		0.15 grain per dscf at 6% O_2	BAAQMD Condition # 18618 Part 18	P/E	Visible Emissions Check
FP	SIP 6-310	Y		0.15 grain per dscf at 6% O_2	BAAQMD Condition # 18618 Part 18	P/E	Visible Emissions Check

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – OO
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
VOC, HAP		N			BAAQMD Regulation 12-11-501 & 12-11-505	P/E	Flow Rate
		N			BAAQMD Regulation 12-11-502.1 & 12-11-505	P/E	Composition
		N			BAAQMD Regulation 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			BAAQMD Regulation 12-11-507	P/	1 frame per minute image video recording
NOx, SO_2, CO and PM	BAAQMD Condition #7618, Part A	Y		Daily emission increases over baseline profile shall be offset by reductions below profile at a ratio of at least 2.0:1	BAAQMD Condition #7618, Part B, F and G	P/D	Calculation, reporting and records
NOx, SO_2, CO and PM	BAAQMD Condition #7618, Part C.d	Y		If profile has more than 5 non-complying days, the fuel usage at sources under the cap shall not exceed 14,730 NLFE (net liquid fuel equivalent) barrels per stream day	BAAQMD Condition #7618, Part G	P/E	Records
SO_2	NSPS 40 CFR 60 Subpart J 60.104(a)(1)	Y		Fuel gas H_2S limited to 0.10 gr/dscf (162 ppm) except for gas burned as a result of process upset or gas burned at flares from relief valve leaks or other emergency malfunctions	NSPS 40 CFR 60 Subpart J 60.105(a)(4) and 60.105(e)(3)	C	H_2S analyzer

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – OO
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
Vent Gas Limit	BAAQMD Condition # 18618, Part 12	Y		750,000 lb/hr	BAAQMD Condition # 18618, Part 13	P/E	Recordkeeping
Duration and SO2 mass emissions when flaring untreated flexigas during startups	BAAQMD Condition # 7618, Part E.2.b.	Y		Duration of startup of less than or equal to 48 hours/event; SO2 emissions < 5 tons/event	BAAQMD Condition #7618, Parts E.2.d. and G	P/E	Records
Duration and SO2 mass emissions when flaring untreated flexigas during shutdowns	BAAQMD Condition # 7618, Part E.2.c.	Y		Duration of shutdown of less than or equal to 96 hours/event; SO2 emissions < 8 tons/event	BAAQMD Condition #7618, Parts E.2.d. and G	P/E	Records

Table VII – PP
Applicable Limits and Compliance Monitoring Requirements
S1772 – OPCEN HYDROCARBON FLARE

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Opacity	BAAQMD 6-1-301	N		Ringelmann No. 1 for no more than 3 minutes/hour	BAAQMD Condition # 18618 Part 14, 15, 16, and 17	P/E	Visible Emissions Check
Opacity	SIP 6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour	BAAQMD Condition # 18618 Part 14, 15, 16, and 17	P/E	Visible Emissions Check

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – PP
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
FP	BAAQMD 6-1-310	N		0.15 grain per dscf at 6% O_2	BAAQMD Condition # 18618 Part 14, 15, 16, and 17	P/E	Visible Emissions Check
FP	BAAQMD 12-12-501	N		None	BAAQMD 12-12-501	C	Water seal pressure and water level CPMS
FP	SIP 6-310	Y		0.15 grain per dscf at 6% O_2	BAAQMD Condition # 18618 Part 14, 15, 16, and 17	P/E	Visible Emissions Check
VOC, HAP		N			BAAQMD Regulation 12-11-501 & 12-11-505	P/E	Flow Rate
		N			BAAQMD Regulation 12-11-502.1 & 12-11-505	P/E	Composition
		N			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			BAAQMD Regulation 12-11-507	P/	1 frame per minute image video recording
Vent Gas Limit	BAAQMD Condition # 18618, Part 12	Y		510,000 lb/hr	BAAQMD Condition # 18618, Part 13	P/E	Recordkeeping

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – PP
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
SO_2	NSPS 40 CFR 60 Subpart Ja 60.103a(h)	Y		Fuel gas H_2S concentration limited to 162 ppmv on a 3-hour rolling average basis (combustion in a flare of process upset gas or fuel gas that is released as a result of relief valve leakage or other emergency malfunctions is exempt from this limit)	NSPS 40 CFR 60 Subpart Ja 60.107a(a)(3)	N	Fuel gas streams exempt from 60.103a(h) not subject to monitoring requirements)

Table VII – QQ
Applicable Limits and Compliance Monitoring Requirements
S1800 – UTIL F-88 BOILER 5

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Opacity	BAAQMD 6-1-301	N		Ringelmann No. 1 for no more than 3 minutes/hour	None	N	None
Opacity	SIP 6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour	None	N	None
Opacity	BAAQMD 6-1-304	N		Ringelmann No. 2 for no more than 3 minutes/hour during tube cleaning	BAAQMD Condition # 18618 Part 6 and Part 7	P/E (during tube cleaning)	Visible emissions Inspection & Records
Opacity	SIP 6-304	Y		Ringelmann No. 2 for no more than 3 minutes/hour during tube cleaning	BAAQMD Condition # 18618 Part 6 and Part 7	P/E (during tube cleaning)	Visible emissions Inspection & Records
FP	BAAQMD 6-1-310.3	N		0.15 grain per dscf at 6% O_2	None	N	None
FP	SIP 6-310.3	Y		0.15 grain per dscf at 6% O_2	None	N	None

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – QQ
Applicable Limits and Compliance Monitoring Requirements
S1800 – UTIL F-88 BOILER 5

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NOx	BAAQMD 9-10-301	N		Refinery-wide NOx emission rate shall not exceed 0.033 lb/MMBtu, operating-day average	BAAQMD 9-10-502, 9-10-504.1, 9-10-505 and 1-523; Condition # 18265 Parts 1, 2, 8, 10, 11, 13-16, 20	C	Monitoring, records, and reporting
NOx	BAAQMD 9-10-303	N		NOx emission rate shall not exceed 0.2 lb/MMBtu, operating-day average (facility-wide)	BAAQMD 9-10-502, 9-10-504.1, 9-10-505 and 1-523; Condition # 18265 Parts 1, 2, 8, 10, 11, 13-16, 20	C	Monitoring, records, and reporting
NOx	SIP 9-10-303	Y		NOx emission rate shall not exceed 0.2 lb/MMBtu, operating-day average (facility-wide)	BAAQMD 9-10-502, 9-10-504.1, 9-10-505 and 1-523; Condition # 18265 Parts 1, 2, 8, 10, 11, 13-16, 20	C	Monitoring, records, and reporting
CO	BAAQMD 9-10-305	N		CO emissions shall not exceed 400 ppmv dry at 3% O_2, operating-day average	BAAQMD 9-10-502, 9-10-504.1, 9-10-505 and 1-523	P	Monitoring, records, and reporting
SO_2	NSPS 40 CFR 60 Subpart J 60.104(a)(1)	Y		Fuel gas H_2S limited to 0.10 gr/dscf (162 ppm)	NSPS 40 CFR 60 Subpart J 60.105(a)(4) and 60.105(e)(3)	C	H_2S analyzer

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – QQ
Applicable Limits and Compliance Monitoring Requirements
S1800 – UTIL F-88 BOILER 5

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NOx, 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

Table VII – RR
Applicable Limits and Compliance Monitoring Requirements
S1803 – OPCEN COKE CORRAL

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Opacity	BAAQMD 6-1-301	N		Ringelmann No. 1 for no more than 3 minutes/hour	BAAQMD Condition # 4041 Part 10 and 11	P/Q	Visible emissions inspection
Opacity	SIP 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

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – RR
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
FP	BAAQMD 6-1-311	N		$4.10\ P^{0.67}$ lb/hr particulate, where P is process weight rate in ton/hr	BAAQMD Condition # 4041 Part 10 and 11	P/Q	Visible emissions inspection
FP	SIP 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 – SS
Applicable Limits and Compliance Monitoring Requirements
S1804 – MAINT PAINT SPRAY BOOTH AND FACILITY COATING

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

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – SS
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 8-4-302	Y		Emissions < 4,533 Kg (5 tons)/yr or 85% mass reduction of emissions with abatement device (90% if oxidized to CO_2) or VOC content < 420 g/l (3.5 lb/gal) as applied, excluding water	BAAQMD 8-4-501	P/E – maintain current list of coatings and P/A – record quantities; P/M for 8-4-302.3 compliance	Records
VOC	BAAQMD 8-19-302	Y		VOC content limits for coating of metal parts unless abatement device with 85% efficiency is used	BAAQMD 8-19-134 and 8-19-501	P/W or D if abatement device is used or M if usage is less than 20 gal/yr; P/M for cleanup and surface preparation solvent usage	Records
VOC	BAAQMD 8-19-312	Y		VOC content limits of specialty coating of metal parts	BAAQMD 8-19-501	P/W (or D if abatement device is used)	Records
VOC	BAAQMD 8-31-123	Y		Exemption from spray application equipment (8-31-310) provided coating of plastic parts ≤ 50 gal/yr	BAAQMD 8-4-501	P/A	Records
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 – SS
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; P/M for monthly records of cleanup and surface preparation	Records
VOC	BAAQMD 8-31-309	Y		VOC content limits and usage limits for specialty coatings for plastic parts	BAAQMD 8-31-124 and 8-31-501	P/W or D if abatement device is used or M if total coating usage is less than 50 gal/yr	Records
VOC	BAAQMD 8-32-111	Y		VOC content limits in coatings for wood products do not apply if facility coating usage ≤ 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

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – SS
Applicable Limits and Compliance Monitoring Requirements
S1804 – MAINT PAINT SPRAY BOOTH AND FACILITY COATING

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	BAAQMD 8-51-126	Y		Requirements of 8-51-301.4 do not apply if 80% of facility's annual contact bond adhesive use meets definition in 8-21-249	BAAQMD 8-4-501 and 8-51-504	P/A	Records
VOC	BAAQMD Condition #4303, Part 1	Y		Annual cleanup solvent usage shall not exceed 40 gallons/yr	BAAQMD Condition #4303, Part 3	P/M	Records
VOC	BAAQMD Condition #4303, Part 2	Y		Annual coating usage shall not exceed 150 gallons/yr	BAAQMD Condition #4303, Part 3	P/M	Records

Table VII – TT
Applicable Limits and Compliance Monitoring Requirements
S1900 – MAINT MACHINE SHOP PARTS CLEANER, S1902 – MAINT SEAL ROOM PARTS CLEANER,
S1903 – MAINT PAINT SHOP SOLVENT TUB

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	BAAQMD 8-16-303.4.1	Y		Cold cleaner shall not operate without a freeboard ratio $\geq$ 0.75	None	P/E	Visual Inspection
VOC	BAAQMD 8-16-303.5	Y		VOC content $\leq$ 0.42 pounds per gallon	BAAQMD 8-16-501.2 and 8-16-.501.5	P/A	Records
Through-put	BAAQMD Condition #18618, Part 1	N		Applies to S1900 and S1903 Annual throughput limits S1900 + S1903 $\leq$ 192 gal/yr solvent	BAAQMD Condition #18618, Part 2	P/A	Records

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII - UU
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 - VV
Applicable Limits and Compliance Monitoring Requirements
S2001, S2002, S2003 AND S2004 – LOG MARINE LOADING BERTHS 1, 2, 3 AND 4

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
SO2	NSPS 40 CFR 60 Subpart J 60.104 (a)(1)	Y		Fuel gas H2S limited to 0.10 gr/dscf (230 mg/dscm or 162 ppmvd)	NSPS 40 CFR 60 Subpart A 60.13(i) BAAQMD Permit Condition #4288 Parts 12, 13 and 14	P/E	Gastec #4LL H2S tube
VOC	BAAQMD 8-44-304.1, SIP 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 and P/C	Records and Monitoring
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 – WW
Applicable Limits and Compliance Monitoring Requirements
S5115 – LOG DISSOLVED NITROGEN FLOATATION UNIT NORTH ETP 2 (DNF),
S5116 – LOG DISSOLVED NITROGEN FLOATATION UNIT SOUTH ETP 2 (DNF)

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	8-8-307.1	Y		Cover standards for air flotation units. No cracks or gaps greater than 0.125 inches occur in the roof or in the roof or walls.	BAAQMD 8-8-503	P/S	Visual inspection and records of inspections and repairs
HAP	NESHAP 40 CFR 61 Subpart FF 61.343(a)(1)(i)(A) and NESHAP 40 CFR 63 Subpart CC 63.647(a)	Y		VOC concentrations shall not exceed 500 ppmv above background	NESHAP 40 CFR 61 Subpart FF 61.343(c), 61.350, 61.355(h), 61.356(d), 61.356(h) and 61.357(d)(8) and NESHAP 40 CFR 63 Subpart CC 63.655(i)(6)	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 40 CFR 63 Subpart FF 63.649(a)(2)(ii)	Y		Abatement efficiency of at least 95% by weight	BAAQMD Condition #11313, Part 6.b, NESHAP 40 CFR 61.354(d)	P/D	Portable HC detector (EPA Method 21)
HAP	NESHAP 40 CFR 61 Subpart FF 61.349(a)(1)(i))	Y		Closed vent system leak tightness standards (< 500 ppmw - unless maintained under negative pressure)	NESHAP 40 CFR 61 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 – XX
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	Y		Cover standards for air flotation units. No cracks or gaps greater than 0.125 inches occur in the roof or in the roof or walls.	BAAQMD 8-8-503	P/S	Visual inspection and records of inspections and repairs

Table VII – YY
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 – ZZ
Applicable Limits and Compliance Monitoring Requirements
S3000 – PORTABLE VACUUM DISTILLATION UNIT (CCR TECHNOLOGIES INC.)

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Opacity	BAAQMD 6-1-301	N		Ringelmann No. 1 for no more than 3 minutes/hour	None	N	None
Opacity	SIP 6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour	None	N	None
FP	BAAQMD 6-1-310.3	N		0.15 grain per dscf at 6% O_2	None	N	None
FP	SIP 6-310.3	Y		0.15 grain per dscf at 6% O_2	None	N	None
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 – ZZ
Applicable Limits and Compliance Monitoring Requirements
S3000 – PORTABLE VACUUM DISTILLATION UNIT (CCR TECHNOLOGIES INC.)

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Through-put	BAAQMD Condition #18618, Part 1	N		Maximum firing rate < 168 MMBTU/day < 61,320 MMBTU/yr	BAAQMD Condition #18618, Part 2	P/A	Records

Table VII – AAA
Applicable Limits and Compliance Monitoring Requirements
S4005 – DC COKE HANDLING FACILITY

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Opacity	BAAQMD 6-1-301	N		Ringelmann No. 1 for no more than 3 minutes/hour	BAAQMD Condition # 12271 Part 77, L and M	P/D	Water content monitoring & Records
Opacity	SIP 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 6-1-310	N		0.15 grain per dscf	BAAQMD Condition # 12271 Part 77, L and M	P/D	Water content monitoring & Records
FP	SIP 6-310	Y		0.15 grain per dscf	BAAQMD Condition # 12271 Part 77, L and M	P/D	Water content monitoring & Records
FP	BAAQMD 6-1-311	N		$4.10\ P^{0.67}$ 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 – AAA
Applicable Limits and Compliance Monitoring Requirements
S4005 – DC COKE HANDLING FACILITY

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
FP	SIP 6-311	Y		4.10 $P^{0.67}$ lb/hr particulate, where P is process weight rate in ton/hr	BAAQMD Condition # 12271 Part 77, L and M	P/D	Water content monitoring & Records
NOx, CO, SO_2, PM and VOC	BAAQMD Condition #12271, Part A	Y		Emissions from Clean Fuels Project sources shall not exceed 199.4 tpy NOx, 252.4 tpy CO, 139.7 tpy SO_2, 59.1 tpy PM, 132.0 tpy VOC, 20.8 ton/mon NOx, 26.3 ton/mon CO, 14.6 ton/mon SO_2, 6.2 ton/mon PM and 13.7 ton/mon VOC	BAAQMD Condition #12271, Part A, B, C, L and M	P/M and A	Calculation, records and reporting
Opacity	BAAQMD Condition #12271, Part 77	Y		Moisture content of coke, upon discharge from the crusher, shall be maintained at 8% by weight or more	BAAQMD Condition # 12271, Part 77, L and M	P/D	Water content monitoring & Records
PM	BAAQMD Condition #12271, Part 79 and 81	Y		Coke Barn and Truck/Railcar Loading Hopper PM emissions shall not exceed 0.01 grain/dscf	BAAQMD Condition #12271, Part 75, L and M	P/D	Sampling, records and reporting
Through-put	BAAQMD Condition #12271, Part 83	Y		Load out of coke into trucks and railcars shall be limited to 750,000 tons in any 12-month period	BAAQMD Condition #12271, Part 83, L and M	P/M	Records and reporting

Table VII – BBB
Applicable Limits and Compliance Monitoring Requirements
S4021 – DC F-13909 DHT RECYCLE

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

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – BBB
Applicable Limits and Compliance Monitoring Requirements
S4021 – DC F-13909 DHT RECYCLE

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Opacity	BAAQMD 6-1-304	N		Ringelmann No. 2 for no more than 3 minutes/hour during tube cleaning	BAAQMD Condition # 18618 Part 6 and 7	P/E (during tube cleaning)	Visible emissions monitoring & Records
Opacity	SIP 6-304	Y		Ringelmann No. 2 for no more than 3 minutes/hour during tube cleaning	BAAQMD Condition # 18618 Part 6 and 7	P/E (during tube cleaning)	Visible emissions monitoring & Records
FP	BAAQMD 6-1-310.3	N		0.15 grain per dscf at 6% O_2	None	N	None
FP	SIP 6-310.3	Y		0.15 grain per dscf at 6% O_2	None	N	None
NOx	BAAQMD 9-10-301	N		Refinery-wide NOx emission rate shall not exceed 0.033 lb/MMBTU, operating-day average	BAAQMD 9-10-502, 9-10-504.1, 9-10-505, and 1-523;	C	Monitoring, records, and reporting
					Condition # 18265 Parts 1-7, 9,10, 12-15,20	P/SA	Source Test
NOx	BAAQMD 9-10-303	N		NOx emission rate shall not exceed 0.2 lb/MMBtu, operating-day average (facility-wide)	BAAQMD 9-10-502, 9-10-504.1, 9-10-505 and 1-523; Condition # 18265 Parts 1-7, 9,10, 12-15,20	C	Monitoring, records, and reporting

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – BBB
Applicable Limits and Compliance Monitoring Requirements
S4021 – DC F-13909 DHT RECYCLE

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
					Condition # 18265 Parts 1-7, 9,10, 12-15,20	P/SA	Source Test
NOx	SIP 9-10-303	Y		NOx emission rate shall not exceed 0.2 lb/MMBtu, operating-day average (facility-wide)	BAAQMD 9-10-502, 9-10-504.1, 9-10-505 and 1-523; Condition # 18265 Parts 1-7, 9,10, 12-15,20	C	Monitoring, records, and reporting
					Condition # 18265 Parts 1-7, 9,10, 12-15,20	P/SA	Source Test
CO	BAAQMD 9-10-305	N		CO emissions shall not exceed 400 ppmv dry at 3% O_2, operating-day average	BAAQMD 9-10-502, 9-10-504.1, 9-10-505 and 1-523	P/A	Monitoring, records, and reporting
SO_2	NSPS 40 CFR 60 Subpart J 60.104(a)(1)	Y		Fuel gas H_2S limited to 0.10 gr/dscf (162 ppm) for refinery fuel gas (RFG) and/or flexigas (FXG)	NSPS 40 CFR 60 Subpart J 60.105(a)(4) and 60.105(e)(3)	C	H_2S analyzer for refinery fuel gas (RFG) and/or flexigas (FXG)
NOx, CO, SO_2, PM and VOC	BAAQMD Condition #12271, Part A	Y		Emissions from Clean Fuels Project sources shall not exceed 199.4 tpy NOx, 252.4 tpy CO, 139.7 tpy SO_2, 59.1 tpy PM, 132.0 tpy VOC, 20.8 ton/mon NOx, 26.3 ton/mon CO, 14.6 ton/mon SO_2, 6.2 ton/mon PM and 13.7 ton/mon VOC	BAAQMD Condition #12271, Part A, B, C, L and M	P/M and A	Calculation, records and reporting

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – BBB
Applicable Limits and Compliance Monitoring Requirements
S4021 – DC F-13909 DHT RECYCLE

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
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 (162 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/A or P/twice per 5 yrs if results < 50% of limit	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/SA, or P/twice per 5 yrs if results < 50% of limit	Source Test
CO2e	BAAQMD Condition # 25134 Part 26	Y		Total CO2e emission reductions from S1486, S1495, and S4021 combined meet or exceed 17,874 metric tons per year over any consecutive three year rolling average	BAAQMD Condition # 25134 Parts 27, 28	P/M	Fuel flow monitors, records
Through-put	BAAQMD Condition #16688	N		Maximum firing rate (higher heating value)	BAAQMD Condition #18618, Part 2	P/D and A	Records

Table VII – CCC
Applicable Limits and Compliance Monitoring Requirements
S4161 - DC H-101 HP3 STEAM METHANE REFORMER

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

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – CCC
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	SIP 6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour	None	N	None
Opacity	BAAQMD 6-1-304	N		Ringelmann No. 2 for no more than 3 minutes/hour during tube cleaning	BAAQMD Condition # 18618 Part 6 and 7	P/E (during tube cleaning)	Visible emissions monitoring & Records
Opacity	SIP 6-304	Y		Ringelmann No. 2 for no more than 3 minutes/hour during tube cleaning	BAAQMD Condition # 18618 Part 6 and 7	P/E (during tube cleaning)	Visible emissions monitoring & Records
FP	BAAQMD 6-1-310.3	N		0.15 grain per dscf at 6% O_2	None	N	None
FP	SIP 6-310.3	Y		0.15 grain per dscf at 6% O_2	None	N	None
NOx	BAAQMD 9-10-301	N		Refinery-wide NOx emission rate shall not exceed 0.033 lb/MMBtu, operating-day average	BAAQMD 9-10-502, 9-10-504.1, 9-10-505, 1-522 and 1-523; Condition # 18265 Parts 1, 2, 8, 10, 11, 13-15, 20	C	NOx and O_2 CEM, monitoring, records, and reporting
NOx	BAAQMD 9-10-303	N		NOx emission rate shall not exceed 0.2 lb/MMBtu, operating-day average (facility-wide)	BAAQMD 9-10-502, 9-10-504.1, 9-10-505 and 1-523; Condition # 18265 Parts 1, 2, 8, 10, 11, 13-15, 20	C	Monitoring, records, and reporting

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – CCC
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	SIP 9-10-303	Y		NOx emission rate shall not exceed 0.2 lb/MMBtu, operating-day average (facility-wide)	BAAQMD 9-10-502, 9-10-504.1, 9-10-505 and 1-523; Condition # 18265 Parts 1, 2, 8, 10, 11, 13-15, 20	C	Monitoring, records, and reporting
CO	BAAQMD 9-10-305	N		CO emissions shall not exceed 400 ppmv dry at 3% O_2, operating-day average	BAAQMD 9-10-502, 9-10-504.1, 9-10-505, 1-522 and 1-523	C	Monitoring, records, and reporting
SO_2	NSPS 40 CFR 60 Subpart J 60.104 (a)(1)	Y		Fuel gas H_2S limited to 0.10 gr/dscf (162 ppm)	NSPS 40 CFR 60 Subpart J 60.105(a)(4) & 60.105(e)(3) for refinery fuel gas and flexigas	C	H2S Analyzer
SO_2	NSPS 40 CFR 60 Subpart J 60.104 (a)(1)	Y		Fuel gas H_2S limited to 0.10 gr/dscf (162 ppm)	NSPS 40 CFR 60 Subpart J 60. 105(a)(4)(iv)(C) for process swing absorption gas	P	Exempt
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 – CCC
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, 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 (162 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/SA, or P/twice per 5 years if results < 50% of limit	Source Test
NH_3	BAAQMD Condition # 12271, Part 31	N		Cogeneration Plant NH_3 emissions shall not exceed 20 ppmv dry at 3% O2	BAAQMD Condition # 12271 Part 112	P/A, or P/every 5 years if results < 50% of limit	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 – DDD
Applicable Limits and Compliance Monitoring Requirements
S4190 – UTIL BOILER 6 GAS TURBINE 1, S4192 – UTIL BOILER 6 GAS TURBINE 2

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Opacity	BAAQMD 6-1-301	N		Ringelmann No. 1 for no more than 3 minutes/hour	BAAQMD Condition # 18618 Part 3 and Part 7	P/10^6 gallon of fuel combusted	Visible emissions inspection
Opacity	SIP 6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour	BAAQMD Condition # 18618 Part 3 and Part 7	P/10^6 gallon of fuel combusted	Visible emissions inspection
FP	BAAQMD 6-1-310	N		0.15 grain/dscf	BAAQMD Condition # 18618 Part 3 and Part 7	P/10^6 gallon of fuel combusted	Visible emissions inspection
FP	SIP 6-310	Y		0.15 grain/dscf	BAAQMD Condition # 18618 Part 3 and Part 7	P/10^6 gallon of fuel combusted	Visible emissions inspection
NOx	SIP 9-9-301.3	Y		9 ppmv dry at 15% O_2 for gaseous fuel firing 3-hour average	BAAQMD 9-9-501 and 1-522	C	NOx and O_2 CEM and records
NOx	BAAQMD 9-9-301.2	N		5 ppmv dry at 15% O_2 for natural gas firing 3-hour average	BAAQMD 9-9-501, 9-9-603, and 1-522	C	NOx and O_2 CEM and records
NOx	SIP 9-9-301.3	Y		25 ppmv dry at 15% O_2 for non-gaseous fuel firing during natural gas curtailment or short testing periods 3-hour average	BAAQMD 9-9-501 and 1-522	C	NOx and O_2 CEM and records
SO_2	NSPS 40 CFR 60 Subpart J 60.104(a)(1)	Y		Fuel gas H_2S limited to 0.10 gr/dscf (162 ppm)	NSPS 40 CFR 60 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 40 CFR 60 Subpart GG 60.333(b)	Y		0.8 % sulfur in fuel by weight	NSPS 40 CFR 60 Subpart GG 60.334(h)(3)	P/E	Fuel analysis

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – DDD
Applicable Limits and Compliance Monitoring Requirements
S4190 – UTIL BOILER 6 GAS TURBINE 1, S4192 – UTIL BOILER 6 GAS TURBINE 2

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
SO_2	BAAQMD Condition #7618, Part E.2	Y		Flexigas H_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 (162 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

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – DDD
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
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, or P/every 5 yrs if results < 50% of limit	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, or P/every 5 yrs if results < 50% of limit	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, or P/every 5 yrs if results < 50% of limit	Source Test
Through-put	BAAQMD Condition #18618, Part 1	N		Applies to S4190 and S4192 Maximum firing rate < 13,152 MMBTU/day/GT < 4,800,480 MMBTU/yr/GT	BAAQMD Condition #18618, Part 2	P/A	Records

Table VII – EEE
Applicable Limits and Compliance Monitoring Requirements
S4191 – UTIL BOILER 6 SUPPLEMENTAL STEAM GENERATOR 1,
S4193 – UTIL BOILER 6 SUPPLEMENTAL STEAM GENERATOR 2

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Opacity	BAAQMD 6-1-301	N		Ringelmann No. 1 for no more than 3 minutes/hour	BAAQMD Condition # 18618 Part 3 and 7	P/10^6 gallon of fuel combusted	Visible emissions inspection
Opacity	SIP 6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour	BAAQMD Condition # 18618 Part 3 and 7	P/10^6 gallon of fuel combusted	Visible emissions inspection

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – EEE
Applicable Limits and Compliance Monitoring Requirements
S4191 – UTIL BOILER 6 SUPPLEMENTAL STEAM GENERATOR 1,
S4193 – UTIL BOILER 6 SUPPLEMENTAL STEAM GENERATOR 2

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Opacity	BAAQMD 6-1-304	N		Ringelmann No. 2 for no more than 3 minutes/hour during tube cleaning	BAAQMD Condition # 18618 Part 6 and Part 7	P/E (during tube cleaning)	Visible emission inspection & Records
Opacity	SIP 6-304	Y		Ringelmann No. 2 for no more than 3 minutes/hour during tube cleaning	BAAQMD Condition # 18618 Part 6 and Part 7	P/E (during tube cleaning)	Visible emission inspection & Records
FP	BAAQMD 6-1-310.3	N		0.15 grain per dscf at 6% O_2	BAAQMD Condition # 18618 Part 3 and 7	P/10^6 gallon of fuel combusted	Visible emissions inspection
FP	SIP 6-310.3	Y		0.15 grain per dscf at 6% O_2	BAAQMD Condition # 18618 Part 3 and 7	P/10^6 gallon of fuel combusted	Visible emissions inspection
Opacity	NSPS 40 CFR 60 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 40 CFR 60 Subpart Db 60.48b Opacity CEM if firing on fuel oil and 60.49b(f), (h), (o) and (v) Records	C	CEM
NOx	NSPS 40 CFR 60 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 40 CFR 60 Subpart Db 60.49b(d), (g), (o) (v) and (w)	C	CEM
SO_2	NSPS 40 CFR 60 Subpart J 60.104(a)(1)	Y		Fuel gas H_2S limited to 0.10 gr/dscf (162 ppm)	NSPS 40 CFR 60 Subpart J 60.105(a)(4) or 60.105(a)(3) and 60.105(e)(3)	C	H_2S analyzer or SO_2 CEM

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – EEE
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
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 (162 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

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – EEE
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
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, or P/every 5 yrs if results < 50% of limit	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, or P/every 5 yrs if results < 50% of limit	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, or P/every 5 yrs if results < 50% of limit	Source Test
Through-put	BAAQMD Condition #18618, Part 1	N		Applies to S4191 and S4193 Maximum firing rate < 6,192 MMBTU/day/HRSG < 2,260,080 MMBTU/yr/HRSG	BAAQMD Condition #18618, Part 2	P/A	Records

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – FFF
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
Opacity	BAAQMD 6-1-301	N		Ringelmann No. 1 for no more than 3 minutes/hour	BAAQMD Condition # 18618 Part 15	P/E	Visible emissions inspection
Opacity	SIP 6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour	BAAQMD Condition # 18618 Part 15	P/E	Visible emissions inspection
FP	BAAQMD 6-1-310	N		0.15 grain per dscf at 6% O_2	BAAQMD Condition # 18618 Part 15	P/E	Visible emissions inspection
FP	BAAQMD 12-12-501	N		None	BAAQMD 12-12-501	C	Water seal pressure and water level CPMS
FP	SIP 6-310	Y		0.15 grain per dscf at 6% O_2	BAAQMD Condition # 18618 Part 15	P/E	Visible emissions inspection
VOC, HAP		N			BAAQMD Regulation 12-11-501 & 12-11-505	P/E	Flow Rate
		N			BAAQMD Regulation 12-11-502.1 & 12-11-505	P/E	Composition
		N			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			BAAQMD Regulation 12-11-507	P/	1 frame per minute image video recording

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – FFF
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
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		2,000,000 lb/hr	BAAQMD Condition # 18618, Part 13	P/E	Recordkeeping
SO_2	NSPS 40 CFR 60 Subpart Ja 60.103a(h)	Y		Fuel gas H_2S concentration limited to 162 ppmv on a 3-hour rolling average basis (combustion in a flare of process upset gas or fuel gas that is released as a result of relief valve leakage or other emergency malfunctions is exempt from this limit)	NSPS 40 CFR 60 Subpart Ja 60.107a(a)(3)	None	Fuel gas streams exempt from 60.103a(h) not subject to monitoring requirements

TABLE VII – GGG
APPLICABLE LIMITS AND COMPLIANCE MONITORING REQUIREMENTS
S4211 – DC V-13222 ISOM MAINTENANCE DROP OUT VESSEL,
S4212 – DC V-13441 ISOM MAINTENANCE DROP OUT VESSEL

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	BAAMQ 8-10-301	Y		Abatement of emissions from process vessel depressurization is required until pressure is reduced to less than 1000 mm Hg	BAAQMD 8-10-401.2 (SIP) and 8-10-501 & 502 (SIP)	P/E	Records

VII. Applicable Limits and Compliance Monitoring Requirements

TABLE VII – GGG
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 40 CFR 61 Subpart FF 61.343(a)(1)(i)(A) and NESHAP 40 CFR 63 Subpart CC 63.647(a)	Y		VOC concentration shall not exceed 500 ppmv above background	NESHAP 40 CFR 61 Subpart FF 61.343(c), 61.350, 61.355(h) 61.356(d), 61.356(h) and 61.357(d)(8) NESHAP 40 CFR 63 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

VII. Applicable Limits and Compliance Monitoring Requirements

TABLE VII – GGG
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	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	NESHAP 40 CFR 61 Subpart FF 61.343(c), 61.350, 61.355(h) 61.356(d), 61.356(h) and 61.357(d)(8) NESHAP 40 CFR 63 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

VII. Applicable Limits and Compliance Monitoring Requirements

TABLE VII – HHH
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 (SIP)	P/E	Records
VOC	BAAMQD Condition # 12271 Part N	Y		Applies to S4311, S4329, and S4330 Any process depressurization shall be vented to a control device with an overall capture and destruction efficiency of 95% capture on a mass basis	BAAQMD 8-10-401	P/E	Records
VOC	BAAQMD Condition #12271, Part 51	Y		Applies to S4311, S4329, and S4330 Tank cleaning VOC emissions shall be vented to a control device with 95% capture and destruction efficiency on a mass basis until concentration of organic compounds in tank is less than 10,000 ppm as methane	BAAQMD Regulation 8-5-404, 8-5-502.2 and 8-5-603	P/A	Source Test

Table VII – III
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 8-5-303.1	N		Pressure vacuum valve set to 90% of tank's maximum allowable working pressure or at least 0.5 psig	BAAQMD 8-5-501.4	P/initial	Records

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – III
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 8-5-303.2	N		Pressure vacuum valve sealing mechanism must be gas-tight: < 500 ppm	BAAQMD 8-5-403	P/SA	Method 21 portable hydrocarbon detector
VOC	SIP 8-5-303.1	Y		Pressure vacuum valve set pressure within 10% of MAWP of tank, or at least 0.5 psig	SIP 8-5-403	P/SA	Visual inspection
VOC	SIP 8-5-303.2	Y		Pressure vacuum valve gas tight: < 500 ppm (as methane) above background	SIP 8-5-403 8-5-503 8-5-605	P/SA	Method 21 portable hydrocarbon detector
VOC	BAAQMD 8-5-328.1	N		Tank cleaning control device standards; includes 90% efficiency requirement	BAAQMD 8-5-331, 8-5-502.2 and 8-5-603	P/A	Annual source test using MOP, Vol. IV, ST-7
VOC	NSPS 40 CFR 60 Subpart Kb 60.112b (a)(3)(i)	Y		Closed vent system leak tightness standards, VOC concentrations shall not exceed 500 ppmv above background.	NSPS 40 CFR 60 Subpart Kb 60.113b(c)(1) and (2)	N	Operate and monitor per the plan
VOC	NSPS 40 CFR 60 Subpart Kb 60.112b (a)(3)(ii)	Y		Control device standards; includes 95% efficiency requirement	NSPS 40 CFR 60 Subpart Kb 60.113b(c)(1) and (2)	N	Operate and monitor per the plan
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 – III
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 45	Y		Tank shall be kept leak free, less than 500 ppm above background as methane	NESHAP 40 CFR 61 Subpart FF 61.350, 61.356(k) and 61.357(d)(8) and NESHAP 40 CFR 63 Subpart CC 63.642(e), 63.642(f) and 63.655(i)(6)	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	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 40 CFR 61 Subpart FF 61.343(c), 61.350, 61.355(h), 61.356(d), 61.356(h) and 61.357(d)(8) and NESHAP 40 CFR 63 Subpart CC 63.655(i)(6)	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 – III
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
HAP	NESHAP Subpart FF 61.349(a)(1)(i)	Y		Closed vent system leak tightness standards (< 500 ppmw - unless maintained under negative pressure)	NESHAP 40 CFR 61 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)
HAP	NESHAP Subpart FF 61.649(a)(2)(ii)	Y		Abatement efficiency of at least 95% by weight	NESHAP 40 CFR 61 Subpart FF 61.340(d)	N	Exempt from monitoring for streams routed to a fuel gas system

Table VII – JJJ
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 – KKK
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	N		Tank cleaning control device standards; includes 90% efficiency requirement	BAAQMD 8-5-331, 8-5-502.2 and 8-5-603	P/A	Annual source test using MOP, Vol. IV, ST-7

Table VII - LLL
S6049, S6051 through S6057, S6059, S6060, S6073 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 6-1-303.1	N		> Ringelmann No. 2 for no more than 3 minutes in any hour	None	N	N/A
Opacity	SIP 6-303.1	Y		> Ringelmann No. 2 for no more than 3 minutes in any hour	None	N	N/A
FP	BAAQMD 6-1-310	N		0.15 grain/dscf	None	N	N/A
FP	SIP 6-310	Y		0.15 grain/dscf	None	N	N/A
DPM	CCR, Title 17, section 93115.6(a)(4)(A)(1)(a)	N		S6073 Only: <= 0.40 g/bhp-hr	None	N	N/A
DPM	CCR, Title 17, Section 93115.6(a)(3)(A)(2)	N		S6049 Only <=0.15 g/bhp-hr	None	N	N/A
Fuel Sulfur Content	BAAQMD 9-1-304	Y		0.5% sulfur by weight	None	N	N/A

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII - LLL
S6049, S6051 through S6057, S6059, S6060, S6073 Diesel Engines

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Hours of Operation	BAAQMD 9-8-330.3	N		For S6051 – S6057, S6059, S6060: 20 hours/yr for maintenance and testing	BAAQMD 9-8-530	C	Totalizing Meter
Hours of Operation	BAAQMD 9-8-330.3	N		For S6051 – S6057, S6059, S6060: 20 hours/yr for maintenance and testing	BAAQMD 9-8-520.1 & 9-8-530	M	Records
Hours of Operation	BAAQMD 9-8-330.3	N		For S6049 and 6073: 50 hours/yr for maintenance and testing	BAAQMD 9-8-530	C	Totalizing Meter
Hours of Operation	BAAQMD 9-8-330.3	N		For 6049 and S6073: 50 hours/yr for maintenance and testing	BAAQMD 9-8-520.1 & 9-8-530	M	Records
Hours of Operation	CCR, Title 17, Section 93115. 6(b)(3)(A)(1)(a)	N		For S6051 – S6057, S6059, S6060: 20 hours/yr for maintenance and testing	CCR, Title 17, Section 93115.10(d)(1)	C	Totalizing Meter
Hours of Operation	CCR, Title 17, Section 93115. 6(b)(3)(A)(1)(a)	N		For S6051 – S6057, S6059, S6060: 20 hours/yr for maintenance and testing	CCR, Title 17, Section 93115.10(f)	M	Records
Hours of Operation	CCR, Title 17, Section 93115.6(a)(4)(A)(1)(c)	N		For S6073: 50 hours/yr for maintenance and testing	CCR, Title 17, Section 93115.10(d)(1)	C	Totalizing Meter

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII - LLL
S6049, S6051 through S6057, S6059, S6060, S6073 Diesel Engines

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Hours of Operation	CCR, Title 17, Section 93115.6(a)(4)(A)(1)(c)	N		For S6073: 50 hours/yr for maintenance and testing	CCR, Title 17, Section 93115.10(f)	M	Records
Hours of Operation	CCR, Title 17, Section 93115.6(a)(3)(A)(1)(c)	N		For S6049: 50 hours/yr for maintenance and testing	CCR, Title 17, Section 93115.10(d)(1)	C	Totalizing Meter
Hours of Operation	CCR, Title 17, Section 93115.6(a)(3)(A)(1)(c)	N		For S6049: 50 hours/yr for maintenance and testing	CCR, Title 17, Section 93115.10(f)	M	Records
Hours of Operation	BAAQMD Condition #22820, part 1	Y		For S6051 – S6057, S60569, S6060: 20 hours/yr for maintenance and testing	BAAQMD Condition #22820, part 3	C	Totalizing Meter
Hours of Operation	BAAQMD Condition #22820, part 1	Y		For S6051 – S6057, S6059, S6060: 20 hours/yr for maintenance and testing	BAAQMD Condition #22820, part 4	M	Records
Hours of Operation	BAAQMD Condition #22850, Part 1	Y		For S6073: 50 hours/yr for maintenance and testing	BAAQMD Condition #22850, Part 3	C	Totalizing Meter
Hours of Operation	BAAQMD Condition #22850, Part 1	Y		For S6073: 50 hours/yr for maintenance and testing	BAAQMD Condition #22850, Part 4	M	Records

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – MMM
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 40 CFR 60 Subpart VV 60.482-2 (b)(1)	Y		Light liquid service pump leak ≤ 10,000 ppm	NSPS 40 CFR 60 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 40 CFR 60 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 40 CFR 60 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.
VOC	NSPS 40 CFR 60 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 40 CFR 60 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

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – MMM
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 40 CFR 60 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 40 CFR 60 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 40 CFR 60 Subpart VV 60.482-7(b)	Y		Valve leak > 10,000 ppm	NSPS 40 CFR 60 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
VOC	NSPS 40 CFR 60 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 40 CFR 60 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

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – MMM
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 40 CFR 60 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 40 CFR 60 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

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – NNN
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 40 CFR 60 Subpart VV 60.482-2 (b)(1)	Y		Light liquid service pump leak ≤ 10,000 ppm	NSPS 40 CFR 60 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) NESHAP 40 CFR 63 Subpart CC 63.648(h), 63.655(d)(1)(i), 63.655(e)(3), and 63.655(i)(6)	P/M	Measure for leaks and repair
VOC	NSPS 40 CFR 60 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 40 CFR 60 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) NESHAP 40 CFR 63 Subpart CC 63.648(h), 63.655(d)(1)(i), 63.655(e)(3), and 63.655(i)(6)	P/E	Measure for leaks within 5 days after release using Method 21

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – NNN
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 40 CFR 60 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 40 CFR 60 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) NESHAP 40 CFR 63 Subpart CC 63.648(h), 63.655(d)(1)(i), 63.655(e)(3), and 63.655(i)(6)	P/E	Measure for leaks within 5 days after release using Method 21
VOC	NSPS 40 CFR 60 Subpart VV 60.482-7(b)	Y		Valve leak > 10,000 ppm	NSPS 40 CFR 60 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) NESHAP 40 CFR 63 Subpart CC 63.648(h), 63.655(d)(1)(i), 63.655(e)(3), and 63.655(i)(6)	P/M or Q	Measure for leaks and repair

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – NNN
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 40 CFR 60 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 40 CFR 60 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) NESHAP 40 CFR 63 Subpart CC 63.648(h), 63.655(d)(1)(i), 63.655(e)(3), and 63.655(i)(6)	P/5 days if evidence of potential leak	Visual, audible, olfactory Inspection; Measure for leaks
VOC	NSPS 40 CFR 60 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 40 CFR 60 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) NESHAP 40 CFR 63 Subpart CC 63.648(h), 63.655(d)(1)(i), 63.655(e)(3), and 63.655(i)(6)	P/Q and A	Measure for leaks

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – OOO
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 40 CFR 61 Subpart FF 61.345(a)(1)(i) and NESHAP 40 CFR 63 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 40 CFR 61 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 40 CFR 63 Subpart CC 63.655(a) and (i)(6)	P/A-measure-ments and reports	Visual inspections, portable HC detector (EPA Method 21) and records of detectable emissions, inspections and repairs

Table VII – PPP
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	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 8-16-118	Y		Limited exemption for solvent cleaners using compounds with low volatility (IBP>128 C and storage temperature and operating T $\geq$ IBP + 100C)	BAAQMD 8-16-501.2 and 8-16-501.5	P/A	Records

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – PPP
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 8-16-303.4.1	Y		Freeboard ratio ≥ 0.75	None	P/E	Visual Inspection
VOC	BAAQMD 8-16-303.5	Y		VOC content < 0.42 pounds per gallon	BAAQMD 8-16-501.2 and 8-16-.501.5	P/A	Records
VOC	BAAQMD 8-40-116.1	Y		Exempt from requirements of 8-40 if total volume of contaminated soil (50 ppmv) < 1 cubic yard	BAAQMD 8-40-604	P/E	Sampling and analysis with EPA Method 21, Section 3
VOC	BAAQMD 8-40-116.2	Y		Exempt from requirements of 8-40 if total volume of contaminated soil (50 ppmv) < 8 cubic yards and < 500 ppmw (provided exemption is not used more than once per 3 months)	BAAQMD 8-40-601.2 and 8-40-604	P/E	Sampling and analysis with EPA Method 21, Section 3
VOC	BAAQMD 8-40-306.4	Y		Within 45 days of excavation or within 90 days for organic content < 500 ppmw, cover, remove or treat soil	BAAQMD 8-40-601.3 or 8-40-601.4 and 8-40-604	P/E	Sampling and analysis with EPA Method 21, Section 3
VOC	BAAQMD 8-53-301	N		When loading regulated material, using vacuum truck; 500 ppmv, as methane or 95% abatement efficiency	BAAQMD 8-53-501	P/E during loading	Method 21, 25A, of ST-7
Through-put	BAAQMD Condition #12271, Part 50	Y		Total volume of isom feed in all Clean Fuels Project storage tanks shall not exceed 100,000 barrels at any given time	BAAQMD Condition #12271, Part 50, L and M	P/D and M	Records and reporting

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – PPP
Applicable Limits and Compliance Monitoring Requirements
FACILITY

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
HAP	NESHAP 40 CFR 61 Subpart FF 61.342(e)(2) and NESHAP 40 CFR 63 Subpart CC 63.655(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 40 CFR 61 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 NESHAP 40 CFR 63 Subpart CC 63.655(i)(6)	P/A	Records and results from tests and inspections using methods and procedures specified in 61.355(k)
HAP (Benzene)	63.658(f)(3)	Y		Action level of 9 µg/m^3 benzene on an annual average basis (note that this is not a limit for an individual monitor)	63.658	Continuous 14-day sampling periods to start; sampling frequency may be reduced over time depending on results	Passive monitors
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

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – QQQ
Applicable Limits and Compliance Monitoring Requirements
S6061 – FLEXICOKER UNIT (FXU) TRANSLOADING

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Opacity	BAAQMD 6-1-301	N		Ringelmann No. 1 for no more than 3 minutes/hour	BAAQMD Condition # 21671 Part 1	P/A	Visible emissions inspection & Records.
Opacity	SIP 6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour	BAAQMD Condition # 21671 Part 1	P/A	Visible emissions inspection & Records.
FP	BAAQMD 6-1-310	N		0.15 grain per dscf	BAAQMD Condition # 21671 Part 1	P/A	Visible emissions inspection & Records.
FP	SIP 6-310	Y		0.15 grain per dscf	BAAQMD Condition # 21671 Part 1	P/A	Visible emissions inspection & Records.
FP	BAAQMD 6-1-311	N		$4.10\ P^{0.67}$ lb/hr particulate, where P is process weight rate in ton/hr	BAAQMD Condition # 21671 Part 1	P/A	Visible emissions inspection & Records.
FP	SIP 6-311	Y		$4.10\ P^{0.67}$ lb/hr particulate, where P is process weight rate in ton/hr	BAAQMD Condition # 21671 Part 1	P/A	Visible emissions inspection & Records.

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – QQQ
Applicable Limits and Compliance Monitoring Requirements
S6061 – FLEXICOKER UNIT (FXU) TRANSLOADING

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
FP	BAAQMD Condition # 21671 Part 2	Y		transloading of flexicoker bed coke from hopper trucks into rail cars does not exceed 164,250 tons in any consecutive twelve-month period	BAAQMD Condition # 21671 Part 3	P/D	Records

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – RRR
Applicable Limits and Compliance Monitoring Requirements
S2010 - LOG WASTEWATER JUNCTION BOXES

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	BAAQMD 8-8-312	N		Vapor tight requirements for controlled wastewater collection system components	BAAQMD 8-8-505 8-8-603	P/E	Records and Inspection Procedures

Table VII - SSS
Applicable Limits and Compliance Monitoring Requirements
S6068, TANK

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 Condition #23605, Part 5	Y		Opacity ≤ 0 percent, except for one consecutive 15-minute period in any 24-hour period when the transfer lines at S6068 are being blown for clearing.	BAAQMD Condition #23605, Part 7	P/Q	Method 22
Through-put	BAAQMD Condition #18618, Part 1	N		Daily throughput S21+S23+S24+S26+S497+S560+S561+S572+S573+S598+S815+S985+S1043+S1044+S1045+S1160+S6068 ≤ 42,000 BPD Annual throughput ≤ 15,330,000 BPY	BAAQMD Condition #18618, Part 2	P/A	Records
Annual Through-put	BAAQMD Condition #23605, Part 1	Y		≤ 1,983,600 bbl in any consectuitive 12-month period	BAAQMD Condition #23605, Part 8	P/M	Records
Daily Throughput	BAAQMD Condition #23605, Part 2	Y		≤ 26,400 bpd @ 300F ≤ 20,000 bpd @ 310F ≤ 15,200 bpd @ 320F	BAAQMD Condition #23605, Part 8	P/E	Records

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – TTT
Applicable Limits and Compliance Monitoring Requirements
Individual Drain Systems Subject 40 CFR Part 60, Subpart QQQ

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	60.692-2(a)(1)	Y		Active drains: Maintain water seal	60.692-2(a)(2)	P/M	Visual or Physical Inspection
VOC	60.692-2(a)(1)	Y		Inactive drains with water seals: Maintain water seal	60.692-2(a)(3)	P/W	Visual or Physical Inspection
VOC	60.692-2(a)(4)	Y		Inactive drains with cap or plug: Cap or seal properly installed	60.692-2(a)(4)	P/SA	Visual or Physical Inspection
VOC	60.692-2(b)(2)	Y		Junction boxes: Maintain sealed covers	60.692-2(b)(3)	P/SA	Visual Inspection
VOC	60.692-2(c)(1)	Y		Unburied sewer lines: No visible gaps or cracks	60.692-2(c)(2)	P/SA	Visual Inspection

Table VII - UUU
Applicable Limits and Compliance Monitoring Requirements
BIOTREATERS & BIOCLARIFIERS
S1467 (ETP 1), S5117 THROUGH S5119 (ETP 2), AND S7000 (ETP 3)

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
None	BAAQMD Regulation 8-8 Organic Compounds—Wastewater Collection and Separation Systems (9/15/2004) Exempt per BAAQMD Regulation 8-8-113						
None	SIP Regulation 8-8 Organic Compounds—Wastewater (Oil-Water Separators) (8/29/1994) Exempt per SIP Regulation 8-8-113						
Throughput	BAAQMD Condition # 18618 Part 1	Y		Applies to S7000: Throughput limit of 2,250 gpm	BAAQMD Condition # 18618 Part 2	P/A	Records
POC	BAAQMD Condition # 24795, Part 1	Y		For S7000 Only: Emissions shall not exceed 1.814 tons in any consecutive 12-month period	BAAQMD Condition # 24795, Part 2 Part 3 Part 4	P/M, P/Q after 12 months	Sampling and Analysis, Calculations, Records

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – VVV
Applicable Limits and Compliance Monitoring Requirements
S1466: LOG Wastewater Pond 8
S1468: LOG Wastewater Pond 6
S2014: Final ETP 1 & 2 Wastewater Equalization Ponds

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Benzene	NESHAP 40 CFR 61 Subpart FF 61.342(e)(2)(ii)	Y		Total Benzene Quantity (TBQ) Quantification for uncontrolled emissions during diversion	NESHAP 40 CFR 61 Subpart FF 61.355(k)(1) 61.356(b)(4)	P/E	Sampling / Records
None	BAAQMD Regulation 8-8 Organic Compounds—Wastewater Collection and Separation Systems (9/15/2004) Exempt per BAAQMD Regulation 8-8-113						
None	SIP Regulation 8-8 Organic Compounds—Wastewater (Oil-Water Separators) (8/29/1994) Exempt per SIP Regulation 8-8-113						
Bypasses	BAAQMD 8-8-114	Y		Amount, Duration, Date, Causes, Organic Compound Concentration	BAAQMD 8-8-601 & SIP 8-8-601	P/E	MOP, Volume III, Lab Method 33

Table VII – WWW
Applicable Limits and Compliance Monitoring Requirements
FIXED ROOF TANKS
S63 – TANK 63, S355 – TANK 355, S432 – TANK 432, S568 –TANK 568

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 8-5-303.1	N		Pressure vacuum valve set to 90% of tank's maximum allowable working pressure or at least 0.5 psig	BAAQMD 8-5-501.4	P/initial	Records
VOC	BAAQMD 8-5-303.2	N		Pressure vacuum valve sealing mechanism must be gas-tight: < 500 ppm	BAAQMD 8-5-403 8-5-605	P/SA	Method 21 portable hydrocarbon detector

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – WWW
Applicable Limits and Compliance Monitoring Requirements
FIXED ROOF TANKS
S63 – TANK 63, S355 – TANK 355, S432 – TANK 432, S568 –TANK 568

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 8-5-303.1	Y		Pressure vacuum valve set pressure within 10% of MAWP of tank, or at least 0.5 psig	SIP 8-5-403	P/SA	Visual inspection
VOC	SIP 8-5-303.2	Y		Pressure vacuum valve gas tight: < 500 ppm (as methane) above background	SIP 8-5-403 8-5-503 8-5-605	P/SA	Method 21 portable hydrocarbon detector
VOC	BAAQMD 8-5-328.1	N		Tank cleaning control device standards; includes 90% efficiency requirement	BAAQMD 8-5-331, 8-5-502.2 8-5-603	P/A	Annual source test using MOP, Vol. IV, ST-7
Through-put	BAAQMD Condition #18618, Part 1	N		Applies to S568: Daily throughput S552+S553+S554+S555+S556+S557+S558+ S559 +S567+S568 < 10,650 BPD Annual throughput < 3,887,250 BPY	BAAQMD Condition #18618, Part 2	P/A	Records

VIII. TEST METHODS

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

Table VIII
Test Methods

Applicable Requirement	Description of Requirement	Acceptable Test Methods
BAAQMD Regulations		
6-1-301	Ringelmann No. 1 Limitation	Manual of Procedures, Volume I, Evaluation of Visible Emissions; EPA Method 9
6-1-304	Tube Cleaning	Manual of Procedures, Volume I, Evaluation of Visible Emissions
6-1-310	Total Suspended Particulate (TSP) Concentration Limits	Manual of Procedures, Volume IV, ST-15 Particulate Sampling; or USEPA Method 5, Determination of Particulate Matter Emissions from Stationary Sources
6-1-311	General Operations	Manual of Procedures, Volume IV, ST-15, Particulates Sampling U.S. EPA Method 5
6-5-301 6-5-403	Ammonia Emission Limit	Determine amount of ammonia emitted using Regulation 1, Section 522 NOx and oxygen monitors, and Continuously measure the injectionor addition rate of ammonia, urea, or other nitrogen-based additive using Regulation 1, Section 523 parametric monitors, or Utilize other APCO-approved ammonia emission monitoring system.
8-2-301	VOC Emission Limit for Miscellaneous Operations	Manual of Procedures, Volume IV, ST-7 or EPA Method 25 or 25A
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

VIII. Test Methods

Table VIII
Test Methods

Applicable Requirement	Description of Requirement	Acceptable Test Methods
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
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
8-4-302.3	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
8-5-301	Tank Emission Control System Requirements, 95% Abatement Efficiency	Manual of Procedures, Volume IV, ST-4
8-5-303.2, 8-5-306, 8-5-307	Gas Tight Requirements for Organic Liquid Storage Tanks	Organic compounds shall be measured using a portable gas detector as prescribed in EPA Reference Method 21 (60, Appendix A)
8-5-320	Floating Roof Tank (internal and external) tank fitting gap measurement	Physical measurements as described in BAAQMD 8-5-320 when required in BAAQMD 8-5-401 or BAAQMD 8-5-402.
8-5-321	Floating Roof Tank (internal and external) primary rim seal gap measurement	Physical measurements as described in BAAQMD 8-5-321 when required in BAAQMD 8-5-401 or BAAQMD 8-5-402.
8-5-322	Floating Roof Tank (internal and external) secondary rim seal gap measurement	Physical measurements as described in BAAQMD 8-5-322 when required in BAAQMD 8-5-401 or BAAQMD 8-5-402.
8-5-328.1.2	Tank Degassing Emission Control System Requirements	Manual of Procedures, Volume IV, ST-7
BAAQMD 8-5-601	Reid Vapor Pressure	Manual of Procedures, Volumne III, Lab Method 13, Determination of the Reid Vapor Pressure of Petroleum Products

VIII. Test Methods

Table VIII
Test Methods

Applicable Requirement	Description of Requirement	Acceptable Test Methods
8-5-117, 8-5-301	Limited Exemption, Low Vapor Pressure; Storage Tanks Control Requirements	Manual of Procedures, Volumne III, Lab Method 28, Determination of Vapor Pressure of Organic Liquids from Storage Tanks
8-7-301	Phase I Vapor Recovery Requirements	Manual of Procedures, Volume IV, ST-30, Gasoline Vapor Recovery Leak Test Procedure; and ST-36, Gasoline Dispensing Facility Phase I Volumetric Efficiency
8-7-302	Phase II Vapor Recovery Requirements	Manual of Procedures, Volume IV, ST-30, Vapor Tightness; ST-37, Liquid Removal; and ST-41, Liquid Retain and Spitting from Nozzles
8-8-301.3, 8-8-302.3, 8-8-304, 8-8-305.2, 8-8-306.2, 8-8-307.2	Determination of Emissions	Emissions of POCs 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).
8-8-301, 8-8-302, 8-8-303, 8-8-304	Inspection Procedures	Leaks shall be measured using a portable gas detector as prescribed in EPA Reference Method 21 (60, Appendix A)
8-8-302.3	Oil-Water Separator Vapor Recovery System Requirements	Manual of Procedures, Volume IV, ST-7 or EPA Method 25 or 25A
8-8-307.2	Air Flotation Unit Vapor Recovery System Requirements	Manual of Procedures, Volume IV, ST-7 or EPA Method 25 or 25A
8-8-504	Portable Hydrocarbon Detector	A gas detector that meets the specifications and performance criteria of and has been calibrated in accordance with EPA Reference Method 21 (40 CFR 60, Appendix A)
8-8-112, 8-8-502	Exemption, Wastewater Critical Organic Compound Concentration or Temperature; Wastewater Critical Organic Compound Concentration or Temperature Records	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.

VIII. Test Methods

Table VIII
Test Methods

Applicable Requirement	Description of Requirement	Acceptable Test Methods
8-18-110	Exemption, Controlled Seal Systems and Pressure Relief Devices (95% control requirement)	Manual of Procedures, Volume IV, ST-7, Non-Methane Organic Carbon Sampling, or Method 25, Determination of Total Gaseous Nonmethane Organic Emissions as Carbon, or Method 25A, Determination of Total Gaseous Organic Concentration Using a Flame Ionization Analyzer
8-18-113	Exemption, Initial Boiling Point	ASTM D-1078-98 or ASTM D-86, Initial Boiling Point
8-18-301, 8-18-302, 8-18-303, 8-18-304, 8-18-305, 8-18-501	Leak Inspection Procedures	EPA reference method 21 (40 CFR, Part 60, Appendix A), Determination of Volatile Organic Compound Leaks
8-18-306, 8-18-311	Non-repairable Equipment; Mass Emissions	EPA Protocol for Equipment Leak Emission Estimates, Chapter 4, Mass Emission Sampling, (EPA-453/R-95-017) November 1995 or a mass emission monitoring method determined to be equivalent by the EPA and approved by the APCO
8-19-302, 8-19-312	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
8-19-302, 8-19-312, 8-19-313	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
8-31-302, 8-31-306, 8-31-309	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

VIII. Test Methods

Table VIII
Test Methods

Applicable Requirement	Description of Requirement	Acceptable Test Methods
8-31-302, 8-31-306, 8-31-309, 8-31-310	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
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
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
8-44-304.1, 8-44-601	Determination of Emission Factors and Equipment Control Equipment Efficiencies	Manual of Procedures, ST-34, Bulk Marine Loading Terminals, Vapor Recovery Units, or EPA Method 25, Determination of Total Gaseous Nonmethane Organic Emissions, or EPA Method 25A, Determination of Total Gaseous Organic Concentration Using a Flame Ionization Analyzer, or alternate method approved in writing by the APCO and U.S. EPA
8-44-305.1, 8-44-305.2	Leak Determinations	EPA Reference Method 21, Determination of Volatile Organic Compounds Leaks (40 CFR 60, Appendix A), or by an alternate method approved in writing by the APCO and U.S. EPA
8-44-604	Flash Point Determinations	ASTM Standard Test Method D56 ("Standard Test Method for Flash Point by Tag Closed Cup Tester") or ASTM Standard Test Method D93 ("Standard Test Methods for Flash Point by Pensky-Martens Closed Cup Tester"), whichever is applicable, or by an alternate method approved in writing by the APCO and U.S. EPA.
8-53-218.2.1	Analysis of Materials, True Vapor Pressure	Manual of Procedures, Volume III, Lab Method 28: Determination of Vapor Pressure of Organic Liquids from Storage Tanks

VIII. Test Methods

Table VIII
Test Methods

Applicable Requirement	Description of Requirement	Acceptable Test Methods
8-53-218.2.2	Analysis of Materials, Percent Water Volume	ASTM D96: Test Methods for Water and Sediment in Crude Oil by Centrifuge Method (Field Procedure), ASTM D1796: Water and Sediment in Fuel Oils by the Centrifuge Method (Laboratory Procedure), ASTM D6304: Karl Fisher Water in Petroleum Products, or percent water volume may be observed and calculated from a mixed, representative sample collected as specified by ASTM D4057: Standard Practice for Manual Sampling of Petroleum and Petroleum Products and allowed to settle in a graduated cylinder
8-53-301.1, 8-53-501	Emission Limit (Regulated Materials): TOC Limit	EPA Reference Methods 21 or 25A or BAAQMD Manual of Procedures, Volume IV, ST-7, Non-methane Organic Carbon Sampling, or APCO-approved alternative monitoring method
8-53-301.2, 8-53-501	Emission Limit (Regulated Materials): Abatement Efficiency	Manual of Procedures, Volume IV, ST-7, or EPA Method 25 or 25A, or APCO-approved alternative monitoring method
9-1-301, 9-2-301,	Ground Level Monitoring	Manual of Procedures, Volume VI, Section 1, Area Monitoring
9-1-304	Fuel Burning (Liquid and Solid Fuels)	Manual of Procedures, Volume III, Method 10, Determination of Sulfur in Fuel Oils.
9-1-313	NH3 and H2S abatement efficiency	Manual of Procedures, Volume III, Lab 32, Determination of H2S in Process Water Streams Manual of Procedures, Volume III, Lab 1, Determination of NH3 in Effluents
9-1-501, 9-1-502, 9-2-501	Continuous Monitoring	Manual of Procedures, Volume 5, Continuous Monitoring
9-9-301.1.1	Emission Limits- Turbines Rated < 10 MW	Manual of Procedures, Volume IV, ST-13A, Oxides of Nitrogen, Continuous Sampling and ST-14, Oxygen, Continuous Sampling
9-9-301.1.2	Emission Limits- Turbines Rated > 10 MW without SCR	Manual of Procedures, Volume IV, ST-13A, Oxides of Nitrogen, Continuous Sampling and ST-14, Oxygen, Continuous Sampling
9-9-301.1.3	Emission Limits- Turbines Rated > 10 MW with SCR	Manual of Procedures, Volume IV, ST-13A, Oxides of Nitrogen, Continuous Sampling and ST-14, Oxygen, Continuous Sampling

VIII. Test Methods

Table VIII
Test Methods

Applicable Requirement	Description of Requirement	Acceptable Test Methods
9-9-503	Deadline for Demonstration of Compliance with §9-9-301	Manual of Procedures, Volume IV, ST-13A, Oxides of Nitrogen, Continuous Sampling and ST-14, Oxygen, Continuous Sampling
9-10-301	Refinery-Wide NO_x Emission Limit	Manual of Procedures, Volume V and Manual of Procedures, Volume IV, ST-13A or B (nitrogen oxides) and ST-14 (oxygen)
9-10-303	NO_x Emission Limit	Manual of Procedures, Volume V and Manual of Procedures, Volume IV, ST-13A or B (nitrogen oxides) and ST-14 (oxygen)
9-10-305	CO Emission Limit	Manual of Procedures, Volume V and Manual of Procedures, Volume IV, ST-6 (carbon monoxide) for CEM verification by source test
11-10-204.1	Total Hydrocarbon Leak Action Level (as measured in cooling tower water)	EPA Method 8015D with cooling water sampling at each cooling tower return line(s) and/or each heat exchanger exit line(s) prior to exposure to air following sampling methodology specified by BAAQMD Manual of Procedures; or Regulation 1, Section 523 continuous total hydrocarbon analyzer, located at each cooling tower return line to monitor cooling tower water prior to exposure to air.
11-10-204.2, 11-10-304.2, 11-10-304.3	Total Hydrocarbon Leak Action Level (as measured in stripped air)	Regulation 1, Section 523 continuous total hydrocarbon analyzer, located at the exit line for each heat exchanger or group of heat exchangers within the exchanger system prior to exposure to air, or APCO alternative monitoring method.
SIP Regulations		
6-301	Ringelmann No. 1 Limitation	Manual of Procedures, Volume I, Evaluation of Visible Emissions; EPA Method 9
6-304	Tube Cleaning	Manual of Procedures, Volume I, Evaluation of Visible Emissions
6-310	Particulate Weight Limitation	Manual of Procedures, Volume IV, ST-15, Particulates Sampling U.S. EPA Method 5
6-311	General Operations	Manual of Procedures, Volume IV, ST-15, Particulates Sampling U.S. EPA Method 5

VIII. Test Methods

Table VIII
Test Methods

Applicable Requirement	Description of Requirement	Acceptable Test Methods
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
8-5-601	Reid Vapor Pressure	Manual of Procedures, Volumne III, Lab Method 13, Determination of the Reid Vapor Pressure of Petroleum Products
8-5-117, 8-5-301	Limited Exemption, Low Vapor Pressure; Storage Tanks Control Requirements	Manual of Procedures, Volume III, Lab Method 28, Determination of Vapor Pressure of Organic Liquids from Storage Tanks
8-18-110	Exemption, Controlled Seal Systems and Pressure Relief Devices (95% control requirement)	Manual of Procedures, Volume IV, ST-7, Non-Methane Organic Carbon Sampling, or Method 25, Determination of Total Gaseous Nonmethane Organic Emissions as Carbon, or Method 25A, Determination of Total Gaseous Organic Concentration Using a Flame Ionization Analyzer
8-18-113	Exemption, Initial Boiling Point	ASTM D-1078-98 or ASTM D-86, Initial Boiling Point
8-18-302, 8-18-303, 8-18-304, 8-18-305, 8-18-501	Leak Inspection Procedures	EPA reference method 21 (40 CFR, Part 60, Appendix A), Determination of Volatile Organic Compound Leaks
8-18-306	Non-repairable Equipment; Mass Emissions	EPA Protocol for Equipment Leak Emission Estimates, Chapter 4, Mass Emission Sampling, (EPA-453/R-95-017) November 1995 or a mass emission monitoring method determined to be equivalent by the EPA and approved by the APCO
8-44-301.1, 8-44-301.2	POC emission rate limitation during marine tank vessel loading	Manual of Procedures, ST-34, Bulk Marine Loading Terminals, Vapor Recovery Units
8-44-303, 8-44-304	Tank vessel is leak free and gas tight	EPA Method 21, Determination of Volatile Organic Compounds Leaks

VIII. Test Methods

Table VIII
Test Methods

Applicable Requirement	Description of Requirement	Acceptable Test Methods
NSPS 40 CFR 60 Subpart A	**New Source Performance Standards – General Provisions (02/17/14)**	
60.18(c)(1)	Visible emission monitoring	EPA Method 22: Visible Emissions
NSPS 40 CFR 60Appendix A	Inspection Procedures	EPA Reference Method 21
NSPS 40 CFR 60 Subpart Db	**Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units (02/27/14)**	
60.44b(a) 60.44b(e)	NO_x Emission Limit	40 CFR 60, Appendix B, Performance Specification 2
NSPS 40 CFR 60 Subpart J	**Standards of Performance for Petroleum Refineries (12/01/15)**	
60.104(a)(1)	Fuel Gas H2S Concentration Limit	40 CFR 60, Appendix B, Performance Specification 7 and Method 11 for Relative Accuracy
40 CFR 60 Subpart J, 60.104(a)(2)(i)	SO2 limit	EPA Method 6, Determination of sulfur dioxide emissions from stationary sources, or EPA Method 6c, Determination of Sulfur Dioxide Emissions From Stationary Sources (Instrumental Analyzer Procedure), and Method 3, Gas analysis for the determination of dry molecular weight, or Method 3A, Determination of Oxygen and Carbon Dioxide Concentrations in Emissions From Stationary Sources (Instrumental Analyzer Procedure), and Method 4, Determination of moisture content in stack gases, and Method 15, Determination of hydrogen sulfide, carbonyl sulfide, and carbon disulfide emissions from stationary sources
60.106(e)	H2S concentration monitoring	EPA Method 11: H2S
60.106(f)(1)	SO2 concentration monitoring	EPA Method 6: SO2
60.106(f)(2)	TRS concentration monitoring	EPA Method 15: Total Reduced Sulfur
60.106(f)(3)	H2S concentration monitoring	EPA Method 3: O2

VIII. Test Methods

Table VIII
Test Methods

Applicable Requirement	Description of Requirement	Acceptable Test Methods
NSPS 40 CFR 60 Subpart Kb	**Standards of Performance for Volatile Organic Liquid Storage Vessels (10/15/03)**	
60.112b (a)(3)(i)	NSPS Subpart Kb Closed Vent System – leak detection	40 CFR 60, Appendix A, Method 21 as specified in 40 CFR 60, Subpart VV 60.485(b)
60.112b (a)(3)(ii)	NSPS Subpart Kb Closed Vent System Performance (95% efficiency)	40 CFR 60, Subpart Kb 60.113b(c) Testing and Procedures
60.113b (b)(4)(i)	NSPS Subpart Kb External Floating Roof Tank primary rim seal gap measurement	40 CFR 60, Subpart Kb 60.113b(b)(1) through 60.113b(b)(3) Testing and Procedures
60.113b (b)(4)(ii)	NSPS Subpart Kb External Floating Roof Tank secondary rim seal gap measurement	40 CFR 60, Subpart Kb 60.113b(b)(1) through 60.113b(b)(3) Testing and Procedures
NSPS 40 CFR 60 Subpart GG	**Standards of Performance for Stationary Gas Turbines (02/27/14)**	
60.332 (a)(1)	Performance Standard, NOx	EPA Method 20, Determination of Nitrogen Oxides, Sulfur Dioxide, and Diluent Emissions from Stationary Gas Turbines
60.332 (a)(2)	Performance Standard, NOx	EPA Method 20, Determination of Nitrogen Oxides, Sulfur Dioxide, and Diluent Emissions from Stationary Gas Turbines
60.333 (a)	SO2 Volumetric Emission Limit	EPA Method 20, Determination of Nitrogen Oxides, Sulfur Dioxide, and Diluent Emissions from Stationary Gas Turbines
60.333 (b)	Fuel Sulfur Limit (gaseous fuel)	ASTM D 1072-80, Standard Method for Total Sulfur in Fuel Gases 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
60.333 (b)	Fuel Sulfur Limit (liquid fuel)	ASTM D 2880-71, Standard Specification for Gas Turbine Fuel Oils
60, Appendix A	Inspection Procedures	EPA Reference Method 21
NSPS 40 CFR 60 Subpart VV	**Standards of Performance for Equipment Leaks of VOC in SOCMI (06/02/08)**	

VIII. Test Methods

Table VIII
Test Methods

Applicable Requirement	Description of Requirement	Acceptable Test Methods
60.482-2(b)(1)	Pumps in light liquid service – leak detection	40 CFR 60, Appendix A, Method 21 as specified in 60 Subpart VV 60.485(b)
60.482-2(e)	Pumps in light liquid service and designated for "no detectable emission" – leak detection	40 CFR 60, Appendix A, Method 21 as specified in 60 Subpart VV 60.485(c)
60.482-3	Compressors designated for "no detectable emission" – leak detection	40 CFR 60, Appendix A, Method 21 as specified in 60 Subpart VV 60.485(c)
60.482-4(b)	Pressure relief valve (gas/vapor) no detectable emissions after a pressure release event.	40 CFR 60, Appendix A, Method 21 as specified in 60 Subpart VV 60.485(c)
60.482-7(b)	Valves in gas/vapor service and in light liquid service – leak detection.	40 CFR 60, Appendix A, Method 21 as specified in 60 Subpart VV 60.485(b)
60.482-7(f)	Valves in gas/vapor service and in light liquid service and designated for "no detectable emission" – leak detection	40 CFR 60, Appendix A, Method 21 as specified in 60 Subpart VV 60.485(c)
60.482-7(h)	Valves in gas/vapor service and in light liquid service and designated as difficult-to-monitor.	40 CFR 60, Appendix A, Method 21 once per year in accordance with written plan (60.482-7(h)(3)
60.482-8(b)	Pumps and valves in heavy liquid service, pressure relief devices (liquid), and flanges and other connectors – leak detection	40 CFR 60, Appendix A, Method 21 as specified in 60 Subpart VV 60.485(b)
60.483-2	Individual valves meeting criteria for skip period leak detection – leak detection	40 CFR 60, Appendix A, Method 21 as specified in 60 Subpart VV 60.485(b)
NSPS 40 CFR 60 Subpart QQQ	**Standards of Performance For Petroleum Refinery Wastewater Systems (10/17/00)**	

VIII. Test Methods

Table VIII
Test Methods

Applicable Requirement	Description of Requirement	Acceptable Test Methods
60.696	Performance test methods and procedures and compliance provisions	Sources equipped with a closed-vent system and control device shall use EPA Method 21 to measure the emission concentrations, using 500 ppm as the no detectable emission limit. Acceptable seal gap criteria also included.
60.696	Leak inspection procedures	EPA reference method 21 (40 CFR 60, Appendix A), Determination of Volatile Organic Compound Leaks
NESHAP 40 CFR 61 Subpart FF	**National Emission Standard for Benzene Waste Operations (12/04/03)**	
61.343(a)(1)(i)(A)	No detectable emissions over 500 ppmv	40 CFR 60, Appendix A, Method 21 as specified in 40 CFR 61, Subpart FF 61.355(h)
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
61.354 (f)	Visual Inspection	61 Subpart FF, 61.354(f)
NESHAP 40 CFR 63 Subpart A, Section 63.11 (b) **NESHAP 40 CFR 63 Subpart UUU, Table 18**	**MACT General Provisions (06/25/13)** - Opacity Limit **NESHAP for Petroleum Refineries: Sulfur Recovery Units (12/01/15)** – Opacity Limit	EPA Method 22, Visible Emissions
NESHAP 40 CFR 63 Subpart CC	**National Emissions Standards for Hazardous Air Pollutants from Petroleum Refineries – General Standards (12/01/15)**	
63.646(a) 63.120(b)(3) 63.120(b)(5)	Refinery MACT (63 Subpart CC) Group 1 external floating roof tanks primary rim-seal gap measurement	40 CFR 63, Subpart G 60.120(b)(1) and 60.120(b)(2) Procedures to Determine Compliance

VIII. Test Methods

Table VIII
Test Methods

Applicable Requirement	Description of Requirement	Acceptable Test Methods
63.646(a) 63.120(b)(4) 63.120(b)(6)	Refinery MACT (63 Subpart CC) Group 1 external floating roof tanks secondary rim-seal gap measurement	40 CFR 63, Subpart G 60.120(b)(1) and 60.120(b)(2) Procedures to Determine Compliance
63.654(c)(3)	Total air strippable hydrocarbon concentration (in ppmv as methane)	"Air Stripping Method (Modified El Paso Method) for Determination of Volatile Organic Compound Emissions from Water Sources" Revision Number One, dated January 2003, Sampling Procedures Manual, Appendix P: Cooling Tower Monitoring, prepared by Texas Commission on Environmental Quality, January 31, 2003 (incorporated by reference in §63.14) using a flame ionization detector (FID) analyzer for on-site determination as described in Section 6.1 of the Modified El Paso Method.
California Air Resources Board (CARB)		
BAAQMD Condition 21593, Part 2	Gasoline dispensing facility leak test	CARB Test Procedure TP201.1B: "Rotatable Adaptor Torque Test"
BAAQMD Condition 21593, Part 2	Gasoline dispensing facility leak test	CARB Test Procedure TP201.1C: "Drop Tube/Drain Valve Assembly"
BAAQMD Condition 21593, Part 2	Gasoline dispensing facility leak test	CARB Test Procedure TP201.1D: "Drop Tube Overfill Prevention Device and Spill Container Drain Valve Leak Test"

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.)
40 CFR 63 Subpart DDDDD, 63.7575	NESHAP for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters (Subpart DDDDD is not applicable to incinerators because they do not meet the definition of boilers or process heaters.)

IX. Permit Shield

Table IX A - 2
Permit Shield for Non-applicable Requirements
S1470 – LOP LPG LOADING FLARE
S601 – FLARE FOR VINE HILL VAPOR RECOVERY SYSTEM
S602 – FLARE FOR CRUDE STRING VAPOR RECOVERY SYSTEM
S603 – 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 S601, S602, and S603 serve organic liquid storage vessels subject to BAAQMD Regulation 8, Rule 5 and are therefore exempt from BAAQMD Regulation 12, Rule 11. The LPG loading rack (S4338) abated by the LOG LPG Flare (S1470) is subject to Regulation 8, Rule 6. Therefore, S1470 is exempt from BAAQMD Regulation 12, Rule 11)
BAAQMD Regulation 12, Rule 12	**Miscellaneous Standards of Performance – Flares at Petroleum Refineries (**Per BAAQMD Regulation 12-12-110, the provisions of BAAQMD Regulation 12, Rule 12 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 S601, S602, and S603 serve organic liquid storage vessels subject to BAAQMD Regulation 8, Rule 5 and are therefore exempt from BAAQMD Regulation 12, Rule 12. The LPG loading rack (S4338) abated by the LOG LPG Flare (S1470) is subject to Regulation 8, Rule 6. Therefore, S1470 is exempt from BAAQMD Regulation 12, Rule 12)

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 - 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. Though not explicitly subject to the requirements in Regulation 9, Rule 9, the combined emissions emanating from each cogen pair, consisting of a gas turbine & steam generator, would have to demonstrate ongoing compliance with the emission limitations and requirements that are applicable to the gas turbines in the above rule per Regulation 1-107.)

IX. Permit Shield

Table IX A - 8
Permit Shield for Non-applicable Requirements
SECONDARY WASTEWATER TREATMENT PROCESSES AND STORMWATER SEWER SYSTEMS CITED UNDER TABLE'S IV-DZ & EA EXEMPT PER REGULATION 8-8-113

Citation	Title or Description (Reason not applicable)
BAAQMD 8-8-301	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.)
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.)

IX. Permit Shield

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

Citation	Title or Description (Reason not applicable)
BAAQMD 9-1-302	Inorganic Gaseous Pollutants – Sulfur Dioxide, General Emission Limitation (The refinery is conditionally exempt from the area monitoring requirements for the 300 ppm sulfur dioxide limitation in Section 9-1-302 "General Emission Limitation" per subsections 9-1-110.1 and 110.2. Specifically, Table IV-DV "Facility" in the permit contains the monitoring, records and reporting requirements contained in Regulation 1, including Sections 1-510, 530, 540, 542, 543, and 544 and hence meets the requirements outlined in subsection 9-1-110.1.))
BAAQMD 9-1-303	Inorganic Gaseous Pollutants – Sulfur Dioxide, Emissions from Ships (The refinery is not subject to the 2000 ppm sulfur dioxide standard in Regulation 9-1-303 "Emissions from Ships", since all ships coming to the refinery come from outside the District. Therefore, the facility is not subject to 9-1-303)
BAAQMD 11, Rule 7	Hazardous Pollutants –Benzene ("In Benzene Service" is defined in Section 11-7-207 as any equipment, which either contains or contacts a fluid (liquid or gas) that is at least 10 percent benzene by weight. The refinery does not have any stream that contains at least 10% by wt. benzene. Therefore, the facility is exempt from Regulation 11, Rule 7.)

IX. Permit Shield

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

Citation	Title or Description (Reason not applicable)
BAAQMD 12-11-401.2	Flare S1771 exclusively burns flexicoker gas with or without supplemental natural gas. Therefore, the flare is exempt from the total hydrocarbon and methane composition monitoring and reporting requirements contained in BAAQMD Regulation 12-11-401.2 per BAAQMD Regulation 12-11-114.
BAAQMD 12-11-401.3	Flare S1771 exclusively burns flexicoker gas with or without supplemental natural gas. Therefore, the flare is exempt from the total hydrocarbon and methane composition monitoring and reporting requirements contained in BAAQMD Regulation 12-11-401.3 per BAAQMD Regulation 12-11-114.
BAAQMD 12-11-401.5	Flare S1771 exclusively burns flexicoker gas with or without supplemental natural gas. Therefore, the flare is exempt from the total hydrocarbon and methane composition monitoring and reporting requirements contained in BAAQMD Regulation 12-11-401.5 per BAAQMD Regulation 12-11-114.
BAAQMD 12-11-502.2	Flare S1771 exclusively burns flexicoker gas with or without supplemental natural gas. Therefore, the flare is exempt from the total hydrocarbon and methane composition monitoring and reporting requirements contained in BAAQMD Regulation 12-11-502.2 per BAAQMD Regulation 12-11-114.
BAAQMD 12-11-502.3	Flare S1771 exclusively burns flexicoker gas with or without supplemental natural gas. Therefore, the flare is exempt from the total hydrocarbon and methane composition monitoring and reporting requirements contained in BAAQMD Regulation 12-11-502.3 per BAAQMD Regulation 12-11-114.

Table IX A – 14
Permit Shield for Non-applicable Requirements
S1425 – DH Catalytic Reformer Unit (CRU)

Citation	Title or Description (Reason not applicable)
40 CFR 63 Subpart UUU 63.1566	Organic HAP emission limitations from Catalytic Reforming Units (The CRU (S1425) is not subject to 63.1566 per 40 CFR 63.1562(f)(5) because organic HAP emissions from S1425 are routed to a fuel gas system.).

IX. Permit Shield

Table IX A - 15
Permit Shield for Non-applicable Requirements
S1507 – UTIL CO Boiler 1, S1509 – UTIL CO Boiler 2,
S1512 – UTIL CO Boiler 3, S1514 – UTIL F-70 Boiler 4,
S4190 – UTIL Boiler 6 Gas Turbine 1,
S4191 – UTIL Boiler 6 Supplemental Steam Generator 1,
S4192 UTIL Boiler 6 Gas Turbine 2,
S4193 – UTIL Boiler 6 Supplemental Steam Generator 2

Citation	Title or Description (Reason not applicable)
40 CFR 60 Subpart D	Standards of Performance for Fossil-Fuel-Fired Steam Generators for Which Construction is Commenced after August 17, 1971 (Sources S1507, S1509, S1512, and S1514 were constructed in 1966. Therefore, the above steam generators are not subject to NSPS D. 40 CFR 60.41(a) defines a fossil-fuel fired steam generating unit as "a furnace or boiler used in the process of burning fossil fuel for the purpose of producing steam by heat transfer. The gas turbines (S4190 and S4192) and duct burners (S4191 and S4193) located at the refinery's cogeneration plant are neither furnaces nor boilers as defined under 40 CFR 60.41(a). Therefore, the gas turbines and duct burners are not subject to NSPS D.)
40 CFR 60 Subpart Da	Standards of Performance for Electric Utility Steam Generating Units for Which Construction is Commenced After September 18, 1978 (Sources S1507, S1509, S1512, and S1514 do not generate electricity. Therefore, the above steam generators are not subject to NSPS Da. 40 CFR 60.41a defines an electric utility steam generating unit as "any steam electric generating unit that is constructed for the purpose of supplying more than one-third of its potential electric output capacity and more than 25 MW electrical output to any utility power distribution system for sale. Any steam supplied to a steam distribution system for the purpose of providing steam to a steam-electric generator that would produce electrical energy for sale is also considered in determining the electrical energy output capacity of the affected facility." The gas turbines (S4190 and S4192) and duct burners (S4191 and S4193) located at the refinery's cogeneration plant were not constructed with the intent of supplying more than one-third of their potential electric output capacity or for selling more than 25 MW of their electrical output to any utility power distribution system. Therefore, the gas turbines and duct burners are not subject to NSPS Da.)

IX. Permit Shield

Table IX A - 15
Permit Shield for Non-applicable Requirements
S1507 – UTIL CO Boiler 1, S1509 – UTIL CO Boiler 2,
S1512 – UTIL CO Boiler 3, S1514 – UTIL F-70 Boiler 4,
S4190 – UTIL Boiler 6 Gas Turbine 1,
S4191 – UTIL Boiler 6 Supplemental Steam Generator 1,
S4192 UTIL Boiler 6 Gas Turbine 2,
S4193 – UTIL Boiler 6 Supplemental Steam Generator 2

Citation	Title or Description (Reason not applicable)
40 CFR 60 Subpart Dc	Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units (Sources S1507, S1509, S1512, and S1514 were constructed in 1966. Therefore, the above steam generators are not subject to NSPS Dc. 40 CFR 60.40c(a) regulates steam generating units that have a maximum design heat input capacity greater than 2.9 MW (10 million BTU/hr) and less than 29 MW (100 million BTU/hr). 40 CFR 60.41c defines a steam generating unit as "a device that combusts any fuel and produces steam or heats water or any other heat transfer medium. This term includes any duct burner that combusts fuel and is part of a combined cycle system. This term does not include process heaters as defined in this subpart." The maximum design heat input capacity of the cogenerating units – gas turbine & duct burner combination, sources (S4190 and S4191) and sources (S4192 and S4193) is 49MW per cogeneration unit. Therefore, the gas turbines and duct burners are not subject to NSPS Dc.)
For S1507, S1509, and S1512: 40 CFR 63 Subpart DDDDD, 63.7491(l)	NESHAP for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters (Subpart DDDDD is not applicable because these boilers are CISWI units which combust solid waste (biosolids), and as such are specifically listed as an affected source in a standard established under Section 129 of the Clean Air Act. Consistent with Clean Air Act section 129(h)(2), no solid waste incineration unit subject to performance standards under sections 129 and 111 shall be subject to standards under section 112(d) of the Act.)
For S4190 and S4192: 40 CFR 63 Subpart DDDDD, 63.7575	NESHAP for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters (Subpart DDDDD is not applicable because these units do not meet the definition of a process heater. A process heater is a heater whose primary purpose is to transfer heat indirectly to a process material or to a heat transfer material.)
For S4191 and S4193: 40 CFR 63 Subpart DDDDD, 63.7575	NESHAP for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters (Subpart DDDDD is not applicable because waste heat boilers are specifically exempt from the definition of boilers.)

IX. Permit Shield

B. Subsumed Requirements

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

Table IX B – 1
Permit Shield for Subsumed Requirements
S540 - TANK 540, S545 - TANK 545, S1031 - TANK 1031, S1046 - TANK 1046, S1051 - TANK 1051, S1063 - TANK 1063 ETP 1, S1067 - TANK 1067 ETP 1, S1072 - TANK 1072, S1076 – TANK 1076, S1129 - TANK 1129, S1146 - TANK 1146, S1147 - TANK 1147, S1161 - TANK 1161, S1159 - TANK 1159, S1755 - TANK 1334 GASOLINE, S1756 - TANK 1335 GASOLINE

Subsumed Requirement Citation	Title or Description	Streamlined Requirements	Title or Description
BAAQMD Reg 8 Rule 5	**Organic Compounds – Storage of Organic Liquids**		
8-5-501	**Records:** Subsumed into the Refinery MACT recordkeeping requirements.	**Section 63.655**	Notification of Compliance Status report

IX. Permit Shield

Table IX B – 2
Permit Shield for Subsumed Requirements
S952 – TANK 952, S1128 – TANK 1128
S2445 - TANK 12445, S2446 – TANK 12446,
S4322 - TANK 14571 SOUR WATER
S6062 – ETHANOL TANK

Subsumed Requirement Citation	Title or Description	Streamlined Requirements	Title or Description
BAAQMD Reg 8 Rule 5	**Organic Compounds – Storage of Organic Liquids**		
8-5-501	**Records:** Subsumed into the Refinery MACT recordkeeping requirements.	**Section 63.655**	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 63.655**	Notification of Compliance Status report
60.116b (a)-(c)	**Additional Recordkeeping.** Subsumed into the Refinery MACT requirements.	**Section 63.655**	Notification of Compliance Status report

IX. Permit Shield

Table IX B – 3
Permit Shield for Subsumed Requirements
S1006 - TANK 1006, S1077 - TANK 1411, S1130 - TANK 1130,
S1131 - TANK 1131, S1191 - TANK -1256 CRUDE OIL STORAGE,
S1192 - TANK -1257 CRUDE OIL STORAGE, S2013 - TANK 12467,
S4310 - TANK 13285 SOUR WATER,
S6069 – TANK 17596, S6070 – TANK 17597, S6071 – TANK 17598,
S6072 – TANK 17595S12490 - 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 63.655**	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 63.655**	Notification of Compliance Status report
60.116b (a)-(c)	**Additional Recordkeeping.** Subsumed into the Refinery MACT requirements.	**Section 63.655**	Notification of Compliance Status report

X. REVISION HISTORY

Initial Major Facility Review Permit Issuance (Application 16467):	December 1, 2003
Administrative Amendment (no application):	May 27, 2004
Administrative Amendment (no application):	July 28, 2004
Reopening (Application 9293):	December 16, 2004
Reopening (Application 12430):	May 17, 2007
Minor Revision (Application 15599) (Consent Decree)	April 4, 2008
Major Facility Review Permit Renewal (Application 18239): (Also includes changes to the permit resulting from Applications 15482, 15774, 18034, 18062, 19373, 19465, and 20070)	September 30, 2011
Major Facility Review Permit Renewal (Application 27866): (Also includes changes to the permit resulting from Applications 2736, 19872, 21359, 22045, 22287, 25810, 27434, and 28652)	November 30, 2018
Administrative Amendment: Transfer of ownership (Application No. 30289):	February 5, 2020

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)

DPM
Diesel Particulate Matter

dscf
Dry Standard Cubic Feet

dscm
Dry Standard Cubic Meter

XI. Glossary

E 6, E 9, E 12
Very large or very small number values are commonly expressed in a form called scientific notation, which consists of a decimal part multiplied by 10 raised to some power. For example, 4.53 E 6 equals (4.53) 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 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

XI. Glossary

Floating Roof Tank (See EFRT and IFRT)

GDF
Gasoline Dispensing Facility

GLM
Ground Level Monitor

grains
1/7000 of a pound

Graphitic
Made of graphite.

GRU
Gas Recovery Unit

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

H2S
Hydrogen Sulfide

H2SO4
Sulfuric Acid

HC
Hydrocarbon

Hg
Mercury

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

IERC
Interchangeable Emission Reduction Credits.

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

XI. Glossary

ISOM
Isomerization plant

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

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

Long ton
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

XI. Glossary

MOSC
Mobil Oil Sludge Conversion (licensed technology)

MSDS
Material Safety Data Sheet

MTBE
methyl tertiary-butyl ether

NA
Not Applicable

NAAQS
National Ambient Air Quality Standards

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

NMHC
Non-methane Hydrocarbons

NMOC
Non-methane Organic Compounds (Same as NMHC)

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.

XI. Glossary

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

Phase II Acid Rain Facility
A facility that generates electricity for sale through fossil-fuel combustion and 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
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

XI. Glossary

RICE
Reciprocating Internal Combustion Engine

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 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.

XI. Glossary

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

TVP
True Vapor Pressure

VGO
Vacuum Gas Oil

VR
Vapor Recovery

VOC
Volatile Organic Compounds

XI. Glossary

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
?g	=	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

Symbols:

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