

# Bay Area Air Quality Management District

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

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**Final**

## MAJOR FACILITY REVIEW PERMIT

Issued To:

**Chevron Products Company**

Facility #A0010

**Facility Address:**

841 Chevron Way  
Richmond, CA 94802

**Mailing Address:**

Post Office Box 1272  
Richmond, CA 94802

**Responsible Official**

**Curtis Anderson**, Richmond Refinery Mgr.  
510-242-4400

**Facility Contact**

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510-242-4930

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**Type of Facility:** Petroleum Refinery

**Primary SIC:** 2911

**Product:** Petroleum

BAAQMD Engineering Division Contact:

Greg Solomon, PE

Senior Air Quality Engineer

415-749-4715

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

Signed by Jack P. Broadbent

Jack P. Broadbent, Executive Officer/Air Pollution Control Officer

April 5, 2007

Date

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## TANK AND WASTEWATER CLUSTER INDEX

### TANK AND WASTEWATER CLUSTER INDEX

Tanks are clustered in groups to reflect similar applicable requirements. The specific sources included in each cluster are summarized below.

Table IV.F.1.1

#### Fixed Roof Tanks Cluster 01a

S-0917, S-0918, S-1821, S-3141, S-3160, S-3161, S-3162, S-3163, S-3164, S-3165, S-3166, S-3167, S-3168, S-3169, S-3170, S-3171, S-3172, S-3179, S-3182, S-3185, S-3186, S-3194, S-3195, S-3215, S-3216, S-5101, S-5103, S-5105, S-5107, S-5108, S-5109, S-5110, S-5112, S-5113, S-5115, S-5117, S-5118, S-5119, S-5121, S-5122, S-5123, S-5125, S-5126, S-5127, S-5128, S-5129, S-5130, S-5131, S-5132, S-5133, S-5134, S-5135, S-5136, S-5137, S-5138, S-5139, S-5140, S-5201, S-5202, S-5203, S-5204, S-5205, S-5206, S-5207, S-5208, S-5209, S-5210, S-5211, S-5212, S-5213, S-5214, S-5215, S-5216, S-5217, S-5218, S-5219, S-5220, S-5221, S-5222, S-5223, S-5224, S-5227, S-5228, S-5229, S-5230, S-5232, S-5233, S-5234, S-5237, S-5240, S-5241, S-5603

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Table IV.F.1.2

#### Fixed Roof Tanks Cluster 01b

S-0127, S-0131, S-0151, S-0200A, S-0204, S-0223, S-0225, S-0234, S-0290, S-0291, S-0293, S-0319, S-0325, S-0329, S-0397, S-0401, S-0501, S-0518, S-0526, S-0550, S-0551, S-0555, S-0583, S-0585, S-0586, S-0587, S-0588, S-0589, S-0590, S-0591, S-0592, S-0594, S-0595, S-0596, S-0597, S-0900, S-0907, S-0908, S-0910, S-0930, S-0931, S-0934, S-0935, S-0950, S-0957, S-0979, S-0984, S-1052, S-1149, S-1427, S-1455, S-1456, S-1460, S-1461, S-1468, S-1470, S-1492, S-1493, S-1523, S-1546, S-1547, S-1548, S-1636, S-1653, S-1679, S-1681, S-1685, S-1707, S-1708, S-1709, S-1710, S-1711, S-1712, S-1716, S-1723, S-1724, S-1725, S-1728, S-1729, S-1730, S-1731, S-1732, S-1733, S-1736, S-1756, S-1761, S-1762, S-1764, S-1766, S-1950, S-1951, S-1952, S-1989, S-2520, S-2540, S-3008, S-3028, S-3029, S-3125, S-3139, S-3140 (S-3140 also in Table IV.E.3.1 Sulfur Recovery), S-3142, S-3146, S-3148, S-3310

#### Internal Floating Roof Tanks Cluster 01b:

S-0328, S-1634, S-3147

#### External Floating Roof Tanks Cluster 01b:

S-1297, S-0955, S-0956, S-1292, S-1506, S-1451, S-1899, S-1428, S-1020, S-3132, S-3127, S-3138

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Table IV.F.1.3

#### Fixed Roof Tanks Cluster 02

S-0021, S-0660, S-6066

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## TANK AND WASTEWATER CLUSTER INDEX

Table IV.F.1.4

Fixed Roof Tanks Cluster 05

S-0605 (S-0605 also in Table IV.G.1.5 Wastewater Cluster 40b), S-6200, S-6201, S-6202, S-6203, S-6204, S-6205, S-6206, S-6207, S-6208, S-6209, S-6210, S-6211, S-6212, S-6213, S-6214, S-6215, S-6216, S-6217, S-6218, S-6219 (abatement device requirements for S-6200 through S-6219 are provided in Table II-B)

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Table IV.F.1.5

External Floating Roof Tanks Cluster 11

S-0232, S-0297, S-0298, S-0398, S-1292, S-1518, S-1798, S-1799, S-1843, S-1966, S-3074, S-3100

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Table IV.F.1.6

Internal Floating Roof Tank Cluster 12

S-1633

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Table IV.F.1.7

Fixed Roof Tanks Cluster 13

S-1726, S-1727, S-1757, S-1758

---

Table IV.F.1.8

External Floating Roof Tanks Cluster 16

S-9302, S-9303

---

Table IV.F.1.9

External Floating Roof Tanks Cluster 17

S-3101, S-3102, S-3129

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## TANK AND WASTEWATER CLUSTER INDEX

Table IV.F.1.10

External Floating Roof Tanks Cluster 23

S-0399, S-3180, S-3189, S-3190, S-3191, S-3193, S-3196, S-3197, S-3198, S-3201, S-3202, S-3213, S-3214

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Table IV.F.1.11

Internal Floating Roof Tanks Cluster 24

S-1635, S-1637

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Table IV.F.1.12

Fixed Roof Tanks Cluster 25

S-6220, S-6221, S-6222, S-6223, S-6224, S-6225, S-6226, S-6227, S-6228, S-6229, S-6230, S-6231, S-6232, S-6233, S-6234, S-6235, S-6236, S-6237, S-6238, S-6239, S-3110, S-3111 (S-3110, S-3111 also in Table IV.G.1.5 Wastewater Cluster 40b) (abatement device requirements for S-6220 through S-6239 are provided in Table II-B)

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Table IV.F.1.13

External Floating Roof Tanks Cluster 26

S-0231, S-0634, S-0679, S-0953, S-0954, S-0990, S-0991, S-0992, S-1287, S-1296, S-1444, S-1459, S-1488, S-1489, S-1491, S-1504, S-1514, S-1686, S-1687, S-1688, S-3071, S-3072, S-3073, S-3075, S-3076, S-3103, S-3104, S-3105, S-3106, S-3107, S-3126, S-3128, S-3133, S-3134, S-3144

---

Table IV.F.1.14

Internal Floating Roof Tanks Cluster 27

S-1289, S-1645

---

Table IV.G.1.1

Wastewater Treatment Units Cluster 10

S-3200, S-3192

---

## TANK AND WASTEWATER CLUSTER INDEX

Table IV.G.1.2

Wastewater Process Drains Not Subject to QQQ Cluster 20d

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Table IV.G.1.3

Wastewater Process Drains Cluster 20q

S-4235, S-4282, S-4251, S-4282A, S-4285, S-4291, S-6050, S-4356

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Table IV.G.1.4

Wastewater Separator Cluster 30c

S-4148, S-4413, S-4414

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Table IV.G.1.5

Wastewater Non-ERFT or IFRT Tanks Cluster 40b

S-0605, S-0610, S-3110, S-3111

---

Table IV.G.1.6

Wastewater EFRT Tanks Cluster 45e

S-0231, S-0232, S-0399, S-1504, S-3126, S-3127, S-3128, S-3076, S-3144

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Table IV.G.1.7

Wastewater Bioreactor Cluster 50d

S-4393

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Table IV.G.1.8

Wastewater Containers Cluster 60b

S-6250, Bins, Drums, Vacuum Trucks

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## I. STANDARD CONDITIONS

### A. Administrative Requirements

The permit holder shall comply with all applicable requirements in the following regulations:  
BAAQMD Regulation 1 - General Provisions and Definitions  
(as amended by the District Board on 5/2/01);  
SIP Regulation 1 - General Provisions and Definitions  
(as approved by EPA through 6/28/99);  
BAAQMD Regulation 2, Rule 1 - Permits, General Requirements  
(as amended by the District Board on 8/1/01);  
SIP Regulation 2, Rule 1 - Permits, General Requirements  
(as approved by EPA through 1/26/99);  
BAAQMD Regulation 2, Rule 2 - Permits, New Source Review  
(as amended by the District Board on 5/17/00);  
SIP Regulation 2, Rule 2 - Permits, New Source Review and Prevention of Significant  
Deterioration  
(as approved by EPA through 1/26/99);  
BAAQMD Regulation 2, Rule 4 - Permits, Emissions Banking  
(as amended by the District Board on 5/17/00);  
SIP Regulation 2, Rule 4 - Permits, Emissions Banking  
(as approved by EPA through 1/26/99); and  
BAAQMD Regulation 2, Rule 6 - Permits, Major Facility Review  
(as amended by the District Board on 4/16/03).

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

1. This Major Facility Review Permit was issued on December 1, 2003, and expires on November 30, 2008. The permit holder shall submit a complete application for renewal of this Major Facility Review Permit no later than May 31, 2008 and no earlier than November 30, 2007. **If a complete application for renewal has not been submitted in accordance with this deadline, the facility may not operate after November 30, 2008.** (Regulation 2-6-307, 404.2, & 409.6; MOP Volume II, Part 3, §4.2)
2. The permit holder shall comply with all conditions of this permit. The permit consists of this document and all appendices. Any non-compliance with the terms and conditions of this permit will constitute a violation of the law and will be grounds for enforcement action; permit termination, revocation and re-issuance, or modification; or denial of a permit renewal application. (Regulation 2-6-307; MOP Volume II, Part 3, §4.11)
3. In the event any enforcement action is brought as a result of a violation of any term or condition of this permit, the fact that it would have been necessary for the permittee to halt or reduce the permitted activity in order to maintain compliance with such term or condition shall not be a defense to such enforcement action. (MOP Volume II, Part 3, §4.11)
4. This permit may be modified, revoked, reopened and reissued, or terminated for cause. (Regulation 2-6-307, 409.8, 415; MOP Volume II, Part 3, §4.11)
5. The filing of a request by the facility for a permit modification, revocation and re-issuance, or termination, or the filing of a notification of planned changes or anticipated non-compliance does not stay the applicability of any permit condition. (Regulation 2-6-409.7; MOP Volume II, Part 3, §4.11)
6. This permit does not convey any property rights of any sort, or any exclusive privilege. (Regulation 2-6-409.7; MOP Volume II, Part 3, §4.11)

## **I. STANDARD CONDITIONS**

7. The permit holder shall supply within 30 days any information that the District requests in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. (Regulation 1-441, Regulation 2-6-409.4 & 501; MOP Volume II, Part 3, §4.11)
8. Any records required to be maintained pursuant to this permit that the permittee considers to contain proprietary or trade secret information shall be prominently designated as such. Copies of any such proprietary or trade secret information which are provided to the District shall be maintained by the District in a locked confidential file, provided, however, that requests from the public for the review of any such information shall be handled in accordance with the District's procedures set forth in Section 11 of the District's Administrative Code. (Regulation 2-6-419; MOP Volume II, Part 3, §4.11)
9. Proprietary or trade secret information provided to EPA will be subject to the requirements of 40 CFR Part 2, Subpart B - Public Information, Confidentiality of Business Information. (40 CFR Part 2)
10. The emissions inventory submitted with the application for this Major Facility Review Permit is an estimate of actual emissions or the potential to emit for the time period stated and is included only as one means of determining applicable requirements for emission sources. It does not establish, or constitute a basis for establishing, any new emission limitations. (MOP Volume II, Part 3, §4.11)
11. The responsible official shall certify all documents submitted by the facility pursuant to the major facility review permit. The certification shall state that based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete. A responsible official for the facility shall sign the certifications.
12. The permit holder is responsible for compliance, and certification of compliance, with all conditions of the permit, regardless whether it acts through employees, agents, contractors, or subcontractors. (Regulation 2-6-307)

### **C. Requirement to Pay Fees**

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

### **D. Inspection and Entry**

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

### **E. Records**

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

## **I. STANDARD CONDITIONS**

### **F. Monitoring Reports**

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

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

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

### **G. Compliance Certification**

Compliance certifications shall be submitted annually by the responsible official of this facility to the Bay Area Air Quality Management District and to the Environmental Protection Agency. The first certification period shall be December 1, 2003, to November 30, 2004. The second certification period shall be December 1, 2004, to December 31, 2004. Subsequent certification periods will be January 1st to December 31st. All compliance certifications are due on the last day of the month after the end of the certification period. The certification must list each applicable requirement, the compliance status, whether compliance was continuous or intermittent, the method used to determine compliance, and any other specific information required by the permit. The permit holder may satisfy this requirement through submittal of District-generated Compliance Certification forms. The certification should be directed to the District's Compliance and Enforcement Division at the address above, and a copy of the certification shall be sent to the Environmental Protection Agency at the following address:

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

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

### **H. Emergency Provisions**

1. The permit holder may seek relief from enforcement action in the event of a breakdown, as defined by Regulation 1-208 of the District's Rules and Regulations, by following the procedures contained in Regulations 1-431 and 1-432. The District will thereafter determine whether breakdown relief will be granted in accordance with Regulation 1-433. (MOP Volume II, Part 3, §4.8)

## **I. STANDARD CONDITIONS**

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 a court or tribunal of competent jurisdiction, or by the Administrator of the EPA invalidates any provision of this permit, 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. The maximum capacity for each source as shown in Table's II A1 and A2 is the maximum allowable capacity. Exceedance of the maximum allowable capacity for any source is a violation of Regulation 2, Rule 1, and Section 301. (Regulation 2-1-301)
- \*2. For grandfathered sources, the throughput limits as shown in Table II-A3 are based upon District records at the time of the MFR permit issuance. The facility must report any exceedance of these limits following the procedures in Section I.F. This reporting requirement is intended to facilitate a determination of whether a modification has occurred as defined in Regulation 2-1-234.3. The throughput limits for grandfathered sources are for reporting purposes only. Exceedance of this limit does not establish a presumption that a modification has occurred, nor does compliance with the limit establish a presumption that a modification has not occurred. (Reg. 2-1-234.3)
- \*3. 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 or within the next normal business day after the unscheduled startup/shutdown. The notification shall be sent in writing by fax or email to the Director of Enforcement and Compliance. The requirement is not federally enforceable. [Regulation 2-1-403]
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**

**II. EQUIPMENT**

**Table II A 1 - Permitted Sources (New Source Review)**

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 J.1 and Regulation 2-1-301. All combustion sources are fired on natural gas or refinery fuel gas, except where noted in permit conditions.

Source Number	Description	Make or Type	Model	Capacity	Annual Throughput Limits	Daily Throughput Limits	Units	Basis
S-0610	Tank	Abated Fixed Roof	N/A	84 gal	N/A, limited by S-0605 and S-6066	N/A, limited by S-0605 and S-6066	1,000,000 gal	Application #11562 No limit. Limited by source #6061
S-0679	Tank	External Floating Roof	N/A	3767K gal	1,000,000	N/A	bbl non-exempt stocks	Conditioned annual throughput, P/C# 8503
S-0957	Tank	Fixed Roof	N/A	3272K gal	7,000,000	N/A	bbl non-exempt stocks	P/C# 11228 A/N 11886 required offsets = NSR
S-0992	Tank 992	External Floating Roof	N/A	4351K gal	6,000,000	N/A	bbl	Conditioned annual throughput (non-exempt stock), P/C# 10909
S-1296	Tank	External Floating Roof	N/A	6733K gal	3,495,000	N/A	bbl	'condition #22641
S-1489	Tank	External Floating Roof	N/A	2092K gal	2,500,000	N/A	bbl non-exempt stocks	Conditioned annual throughput (non-exempt stock), P/C# 10908
S-1514	Tank	External Floating Roof	N/A	4767K gal	3,000,000	N/A	bbl	condition #22641
S-1635	Tank	Internal Floating Roof	N/A	155K gal	2,000,000	N/A	bbl non-exempt stocks	P/C# 15671 offsets = NSR
S-1653	Tank	Fixed Roof	N/A	1260K gal	750,000	N/A	bbl non-exempt stocks	Conditioned annual throughput (non-exempt stock), P/C# 11436 offsets = NSR
S-1798	Tank	External Floating Roof	N/A	6266K gal	7,200,000	N/A	bbl	Conditioned annual

## II. Equipment

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Source Number	Description	Make or Type	Model	Capacity	Annual Throughput Limits	Daily Throughput Limits	Units	Basis
								throughput, P/C# 13597
S-3100	Tank	External Floating Roof	N/A	19910K gal	14,000,000	N/A	bbl non-exempt stock	P/C#2238 (App.#8452)
S-3106	Tank	External Floating Roof	N/A	29MM gal	30,000,000	N/A	bbl non-exempt stock	Condition #11025
S-3110	Tank	Abated Fixed Roof	N/A	24K gal	5,000,000 (one of two surge tanks for S-3200)	N/A	bbl Desalter effluent water	App.'s# 5417 & 6035
S-3111	Tank	Abated Fixed Roof	N/A	24K gal	5,000,000 (one of two surge tanks for S-3200)	N/A	bbl Desalter effluent water	App.'s# 5417 & 6035
S-3126	Tank	External Floating Roof	N/A	553.57 K gal	50,000	N/A	bbl recovered oil	P/C# 17470 offsets = NSR design drawings submitted 1/16/4
S-3127	Tank	External Floating Roof	N/A	1992.86 Kgal	223,000	N/A	bbl	App.# 6851 P/C #23262 design drawings submitted 1/16/4
S-3133	Tank	External Floating Roof	N/A	13147K gal	15,000,000	N/A	bbl non-exempt stock	Conditioned annual throughput, P/C# 15038
S-3134	Tank	External Floating Roof	N/A	8379K gal	10,000,000	N/A	bbl non-exempt stock	Conditioned annual throughput, P/C# 13859
S-3185	Tank (previously Tank 982)	External Floating Roof	N/A	5040K gal	20,000,000	N/A	bbl non-exempt stock	Conditioned annual throughput (non-exempt stock), P/C# 11024 offsets = NSR
S-3189	Tank	External Floating Roof	N/A	8400K gal	12,000,000	N/A	bbl non-exempt stock	Conditioned annual throughput (non-exempt stock), P/C# 6660

## II. Equipment

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Source Number	Description	Make or Type	Model	Capacity	Annual Throughput Limits	Daily Throughput Limits	Units	Basis
S-3190	Tank	External Floating Roof	N/A	5698.33 K gal	7,300,000	N/A	bbbl	Conditioned annual throughput, P/C# 6661 design drawings submitted 1/16/4
S-3191	Tank	External Floating Roof	N/A	5682.51K gal	2,000,000	N/A	bbbl non-exempt stock	Conditioned annual throughput (non-exempt stock), P/C# 7583 design drawings submitted 1/16/4
S-3193	Tank	External Floating Roof	N/A	6663.89 K gal	9,500,000	N/A	bbbl non-exempt stock	Conditioned annual throughput (non-exempt stock), P/C# 8253 design drawings submitted 1/16/4
S-3196	Tank	External Floating Roof	N/A	8400K gal	2,000,000	N/A	bbbl non-exempt stock	Conditioned annual throughput (non-exempt stock), P/C# 13467
S-3197	Tank	External Floating Roof	N/A	8763.91 K gal	4,000,000	N/A	bbbl limited to gasoline, sponge oil, sour water, naphtha feed, MTBE, reformate or TVP < 6.2 psia	Conditioned annual throughput, P/C# 8252 design drawings submitted 1/16/4
S-3198	Tank	External Floating Roof	N/A	2284K gal	500,000	N/A	bbbl limited to toluene, jet A, distillate oil, or other petroleum	Conditioned annual throughput, P/C# 8715 offsets = NSR



## II. Equipment

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Source Number	Description	Make or Type	Model	Capacity	Annual Throughput Limits	Daily Throughput Limits	Units	Basis
							TVP or toxicity less than toluene or Jet A	
S-3200	4 Crude Unit Desalter Water Treatment Unit	N/A	N/A		10,000,000	27,400	bbl	App.#6035
S-3201	Tank	External Floating Roof	N/A	7140K gal	7,300,000	N/A	Bbl non-exempt stock	Conditioned annual throughput (non-exempt stock), P/C#13008 CFP
S-3202	Tank	External Floating Roof	N/A	4267K gal	4,000,000	N/A	Bbl hydrocarbon stock other than methanol with a vapor pressure <8.33 psia	Conditioned annual throughput, P/C# 13364 CFP
S-3213	Tank	External Floating Roof	N/A	15,623.06 K gal	9,100,000	N/A	bbl non-exempt stock	Conditioned annual throughput (non-exempt stock), P/C# 12139 design drawings submitted 1/16/4
S-3214	Tank	External Floating Roof	N/A	5418K gal	3,000,000	N/A	bbl limited to refinery stock with TVP< or = 11.0 psia and benzene <or= 5.5%	Conditioned annual throughput (non-exempt stock), P/C# 12104
S-3225	EFR Storage Tank	External Floating Roof	N/A	4.55 MMgal	10,832,000	N/A	bbl	Condition #18702
S-3226	Sulfur Storage Tank	Fixed Roof	N/A	1.1514 MM gal	N/A	N/A	gallons	Condition #1046
S-4032	#3 Rheniformer, F101	Foster Wheeler	DWG 719-11-H1		525,600	1,440	million Btu HHV	PTO RLOP
S-4033	#3 Rheniformer, F102	Foster Wheeler	DWG 719-11-H3		429,240	1,176	million Btu HHV	PTO RLOP

## II. Equipment

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Source Number	Description	Make or Type	Model	Capacity	Annual Throughput Limits	Daily Throughput Limits	Units	Basis
S-4038	#4 Rheniformer, F-3550	Alcorn Combustion	HC-01403		1,635,200	4,480	million Btu HHV	Conditioned daily throughput P/C# 16698. Appendix 12.22 RLOP
S-4039	#4 Rheniformer, F-3560	Alcorn Combustion	HC-01403		1,489,200	4,080	million Btu HHV	Conditioned daily throughput P/C# 16698 RLOP
S-4040	#4 Rheniformer, F-3570	Alcorn Combustion	HC-01403		1,331,520	3,648	million Btu HHV	Conditioned daily throughput P/C# 16698 RLOP
S-4041	F-3580, #4 Rheniformer	Alcorn Combustion	HC-01403		674,520	1,848	million Btu HHV	Conditioned daily throughput P/C# 16698 RLOP
S-4044	#5 Rheniformer F-570	Foster Wheeler	N/A		683,280	1,872	million Btu HHV	Conditioned daily throughput P/C# 18172 PA#8343
S-4046	Asphalt Plant F1 H.O. Heater	Petro-Chem	N/A		236,520	648	million Btu HHV	PTO RLOP
S-4059	#1 JHT Furnace #247	Born Engineering Co.	H-265-73		1,059,960	2,904	million Btu HHV	Conditioned daily throughput P/C# 18003 RLOP
S-4060	#1 JHT Furnace #210A&B	Born Engineering Co.	H-265-73		1,261,440	3,456	million Btu HHV	Conditioned daily throughput P/C# 18003 RLOP
S-4069	VGO F-1660	American Schack	N/A		481,800	1320	million Btu HHV	Furnace firing rate limit for Reg 9 rule and per Chevron's June 21, 2000

## II. Equipment

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Source Number	Description	Make or Type	Model	Capacity	Annual Throughput Limits	Daily Throughput Limits	Units	Basis
								proposal as subsequently amended. Appendix 9F-1 RLOP
S-4070	#4 Crude Unit F-1100a	Foster Wheeler	4800-311-141		3,425,160	9,552	million Btu HHV	Conditioned daily throughput P/C# 18015. Appendix 9F-2 RLOP
S-4071	#4 Crude Unit F-1100b	Foster Wheeler	4800-311-141		3,547,800	9,720	million Btu HHV	Conditioned daily throughput P/C# 18015. Appendix 9F-2 RLOP
S-4072	#4 Crude Unit F-1160	Foster Wheeler	4800-311-1411X		2,943,360	8,064	million Btu HHV	Conditioned daily throughput P/C# 18015. Appendix 9F-2
S-4107	Heat Treating Furnace No. 1 Boiler Shop	John R. Gearhart Co.	N/A		57,816	158	Million Btu HHV	PTO RLOP
S-4153	F-110 Asphalt Solution Heater SDA 150 Max	M.W. Kellog	N/A		442,380	1212	million Btu HHV	See Appendix 3B5. RLOP
S-4156	F-320 Naphtha Vaporizer, H2 Plant Isomax	Born Engineering Co.	N/A		370,548	1,015	million Btu HHV	See Appendix 3B5. RLOP
S-4157	F-330 Naphtha Vaporizer, H2 Plant	Born Engineering Co.	MA-22		370,548	1,015	million Btu HHV	See Appendix 3B5. RLOP
S-4159	F-410 TKC Feed Furnace TKC Isomax	Alcorn Combustion Co.	N/A		414,348	1,632	million Btu HHV	Subject to Condition 469 RLOP Conditioned daily throughput P/C# 18387
S-4160	F-420 TKC Feed Furnace TKC Isomax	Alcorn Combustion Co.	N/A		395,076	1,704	Million Btu HHV	Subject to Condition 469 RLOP Conditioned daily throughput

## II. Equipment

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Source Number	Description	Make or Type	Model	Capacity	Annual Throughput Limits	Daily Throughput Limits	Units	Basis
								P/C# 18387
S-4161	F-510 TKN Feed Furnace Isomax	Alcorn Combustion Co.	N/A		534,360	1,464	million Btu HHV	PTO. P/C# 16686 RLOP
S-4162	F-520 TKN Feed Furnace Isomax	Alcorn Combustion Co.	N/A		534,360	1,464	million Btu HHV	PTO. P/C# 16686 RLOP
S-4163	F-530 TKN Feed Furnace Isomax	Alcorn Combustion Co.	N/A		534,360	1,464	million Btu HHV	PTO. P/C# 16686 RLOP
S-4164	F-630 Isocracker Feed Furnace Isomax	Alcorn Combustion Co.	N/A		595,680	1,632	million Btu HHV	Conditioned daily throughput P/C# 16731 RLOP
S-4165	F-620 Isocracker Feed Furnace Isomax	Alcorn Combustion Co.	N/A		595,680	1,632	million Btu HHV	Conditioned daily throughput P/C# 16731 RLOP
S-4166	F-610 Isocracker Feed Furnace Isomax	Alcorn Combustion Co.	N/A		595,680	1,632	million Btu HHV	Conditioned daily throughput P/C# 16731 RLOP
S-4168	F-730 Isocracker Splitter Feed Furnace Isomax	Born Engineering Co.	N/A		2,417,760	7,944	million Btu HHV	Conditioned daily throughput P/C# 16731 RLOP

## II. Equipment

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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 J.1 and Regulation 2-1-301. All combustion sources are fired on natural gas or refinery fuel gas, except where noted in permit conditions.

Source Number	Description	Make or Type	Model	Capacity	Annual Throughput Limits	Daily Throughput Limits	Units	Basis
S-4169	F-731 Isocracker Reboiler Isomax	Born Engineering Co.	N/A		2,277,600	6,240	million Btu HHV	Conditioned daily throughput P/C# 16731 RLOP
S-4171	F-355 Reforming Furnace, H2 Plant	Foster Wheeler	N/A		7,419,720	20,328	million Btu HHV	Conditioned daily throughput limit P/C# 17973 & 12.5 RLOP
S-4188	Polymer Furnace F-651	Born Engineering Co.	N/A		236,520	648	million Btu HHV	Furnace firing rate limit for Reg 9 rule and per Chevron's June 21, 2000 proposal as subsequently amended. Appendix 9F-3 & 12.21 RLOP
S-4189	Polymer Furnace F-661	Born Engineering Co.	N/A		122,640	360	million Btu HHV	Furnace firing rate limit for Reg 9 rule and per Chevron's June 21, 2000 proposal as subsequently amended. Appendix 9F-3 & 12.21 RLOP
S-4191	Alkane Cooling Water Tower E-2900	Marley Cooling Tower	N/A				million gal	See appendix II (Roman), 9C-1, 12.3 & 14.1 RLOP
S-4192	F-2170 Stack Gas Heater #1 SRU CAT Crack.	Contractor	N/A		279,444.0	765.6	million Btu HHV	original design RLOP
S-4193	F-2270 Tail Gas Heater #2 SRU	Contractor	N/A		279,444.0*	765.6	million Btu HHV	original design RLOP

## II. Equipment

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Source Number	Description	Make or Type	Model	Capacity	Annual Throughput Limits	Daily Throughput Limits	Units	Basis
S-4194	F-2370 Tail Gas Heater #3 SRU	Contractor	N/A		491,436	1346	million Btu HHV	original design RLOP
S-4226	FGHT FCC Gasoline Hydrotreater	C.F. Braun	N/A			64,800	bbbl	Condition #22641
S-4227	SRU #1 Train	Contractor	N/A		54,750	189.6	long tons	Conditon #19063
S-4228	SRU #2 Train	Contractor	N/A		54,750	179	long tons	Conditon #19063
S-4233	#1 Jet Hydrotreater	Bechtel	N/A		35,040,000	96,000	bbbl	PTO RLOP
S-4234	No. 5 Naphtha Hydrotreater	Bechtel	N/A		21,024,000	57,600	bbbl	PTO RLOP
S-4235	Diesel Hydrotreater	C.F. Braun	N/A		23,652,000	64,800	bbbl	PTO app.#9014 '93
S-4236	No. 4 Crude Unit	C.F. Braun	N/A		88,659,000	257,200	bbbl	RLOP C#469
S-4238	Liquefied Petroleum Gas Loading Rack	Fischer	N/A		10,000,000	27,400	bbbl	Data form RLOP
S-4250	Hydrogen Manufacturing Plant	Foster Wheeler	N/A		66,102	181.1	million SCF H2 produced	Two trains, highest day. Post 79 apps justify annual limit  RLOP, Cond # 22979 and #469
S-4252	TKN Isocracker	Bechtel	N/A		18,709,900	60,900	bbbl	See Appendix 3A4, 9P-4 & 12.10 RLOP
S-4253	TKC Plant	Bechtel	N/A		23,725,000	65,000	bbbl	Implied per application #9666 '90 data form

## II. Equipment

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Source Number	Description	Make or Type	Model	Capacity	Annual Throughput Limits	Daily Throughput Limits	Units	Basis
S-4261	Wax Deoiler No. 2	Bechtel	N/A		1,927,200	5280	bbl	RLOP data form '77
S-4262	Wax Rerun Plant		N/A		1,664,400	4560	bbl	RLOP data form '77 (historical data exceeds original design 190 bph)
S-4265	Wax Refinishing		N/A		2,338,920	6408		Data form '77 RLOP
S-4282	Penhex Isomerization Unit	Bechtel	N/A		23,725,000	65,000	bbl	See Appendix 11 A/N 9231 BACT & CFP
S-4283	No. 4 Catalytic Reformer	Standard Oil	N/A		14,717,000	40,300	bbl	PTO RLOP
S-4285	FCC Plant	Fleur Eng. Corp	N/A		29,200,000	90,000	bbl	PTO. P/C# 11066 CFP
S-4286	Light Ends Recovery	South Western Engineering	N/A		N/A	N/A		Appendix 11.4 & 12.11 no limits per management direction, RLOP
S-4291	H2SO4 Alkylation Plant	Socal/Warner Lewis	N/A		13,140,000	36,000	bbl	Condition #14701 CFP
S-4329	RLOP Cooling Tower	Lillie Hoffman	2DF87				million gal	RLOP
S-4330	HNHF Reactor Furnace, F-1610	LUMMUS	Horizontal			328.8	million Btu HHV	RLOP
S-4331	LNHF Reactor Furnace, F-1310	LUMMUS	Horizontal			501.6	million Btu HHV	RLOP
S-4332	Hot Oil Furnace, F-1360	LUMMUS	Horizontal			1754.4	million Btu HHV	RLOP

## II. Equipment

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Source Number	Description	Make or Type	Model	Capacity	Annual Throughput Limits	Daily Throughput Limits	Units	Basis
S-4333	TKC Vacuum Furnace, F-1750	LUMMUS	Horizontal			1504.8	million Btu HHV	RLOP
S-4334	LNC Atmos Furnace, F-1200	LUMMUS	Vertical Cylinder			607.2	million Btu HHV	RLOP
S-4335	LNC Vacuum Furnace, F-1250	LUMMUS	Horizontal			595.2	million Btu HHV	RLOP
S-4336	HNC Reactor Furnace, F-1410	LUMMUS	Horizontal			600.0	million Btu HHV	RLOP
S-4337	HNC Atmos Furnace, F-1500	LUMMUS	Vertical Cylinder			739.2	million Btu HHV	RLOP
S-4338	HNC Vacuum Furnace, F-1550	LUMMUS	Horizontal			864.0	million Btu HHV	RLOP
S-4339	LNC Reactor Furnace, F-1110	LUMMUS	Horizontal			456.0	million Btu HHV	RLOP 3
S-4340	Light Neutral Hydrocracker (LNC)	N/A	N/A			16,500	bbl liquid reactor feed	RLOP
S-4341	Light Neutral Hydrofinisher (LNHF)	N/A	N/A			22,000	bbl liquid reactor feed	RLOP
S-4342	Heavy Neutral Hydrocracker (HNC)	N/A	N/A			26,000	bbl liquid reactor feed	RLOP
S-4343	Heavy Neutral Hydrofinisher (HNHF)	N/A	N/A			12,000	bbl liquid reactor feed	RLOP
S-4345	No 2 NH3-H2S Plant (WWT)	N/A	N/A		Permit application pending	Permit application pending	million SCF H2S produced	RLOP
S-4346	Gas Recovery Unit (GRU)	N/A	N/A		N/A	N/A		Appendix 11.5 & 12.11 RLOP
S-4348	H2 Recovery Plant	N/A	N/A		18,250,000	50	Million SCF Feed	Application #9978 CFP
S-4349	Furnace F-1650	N/A	N/A		144,540	396	million Btu HHV	Condition #469RLOP



## II. Equipment

**Table II A 1 - Permitted Sources (New Source Review)**

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 J.1 and Regulation 2-1-301. All combustion sources are fired on natural gas or refinery fuel gas, except where noted in permit conditions.

Source Number	Description	Make or Type	Model	Capacity	Annual Throughput Limits	Daily Throughput Limits	Units	Basis
S-4350	Gas Turbine with Steam Injection	ASEA Brown Boveri Turbines	N/A		15,051,300 (sum of S-4350 through S-4353)		million Btu HHV	1986 cogen application. Based on HHV. See appendix 2A7, 9F-9 & 12.16
S-4351	Heat Recovery Steam Generator	ABB	N/A		15,051,300 (sum of S-4350 through S-4353)		million Btu HHV	1986 cogen application. Based on HHV. See appendix 2A7, 9F-9 & 12.16
S-4352	Gas Turbine with Steam Injection	ASEA Brown Boveri Turbines	N/A		15,051,300 (sum of S-4350 through S-4353)		million Btu HHV	1986 cogen application. Based on HHV. See appendix 2A7, 9F-9 & 12.16
S-4353	Heat Recovery Steam Generator	ABB	N/A		15,051,300 (sum of S-4350 through S-4353)		million Btu HHV	1986 cogen application. Based on HHV. See appendix 2A7, 9F-9 & 12.16
S-4354	Butamer Plant	N/A	N/A			12,000 BPD	Barrels	Application #2719 Condition #18337
S-4355	Deisobutanizer Plant	N/A	N/A		14,600,000 combined/4,380,000 Butamer	40,000 combined/12,000 Butamer	bbbl	Application #9978, Appendix 9P-1 & 12.17 CFP
S-4356	Tertiary Amyl Methyl Ether Plant	N/A	N/A		5,475,000	15,000	bbbl depentanizer feed	Application #9978 CFP
S-4396	Sulfur Truck Loading Racks	2 Lawrence Pumps	N/A		216,330		long tons	See Appendix XII for daily limit. Annual limit based on source# 4227, 4228 & 4229. Appendix 9M-1, 12.2 &

## II. Equipment

**Table II A 1 - Permitted Sources (New Source Review)**

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 J.1 and Regulation 2-1-301. All combustion sources are fired on natural gas or refinery fuel gas, except where noted in permit conditions.

Source Number	Description	Make or Type	Model	Capacity	Annual Throughput Limits	Daily Throughput Limits	Units	Basis
								13.1. RLOP
S-4403	Unrefined Wax Truck Loading Rack							RLOP
S-4404	Saturated Refined Wax Truck Loading Rack							RLOP
S-4405	Heavy Oil Transloading Operation				100,000	7000	gallon	A/N 7693 condition #20863
S-4413	#2a Separator	API Oil Water Separator	N/A		4934.8* (combined throughput for S-4413, S-4414, and S-4148)	8.35 (annual limits are different but these #s are the same as first proposed)	million gal	1987 data form & eval
S-4414	#1a Separator	API Oil Water Separator	N/A		4934.8* (combined throughput for S-4413, S-4414, and S-4148)	16.7	Million gal	1987 data form & eval
S-4415	Asphalt Tank Truck Loading Racks		N/A		91,980,000	238,000	gal	PTO condition #1331 and data form
S-4426	Cold Cleaner	Graymills Clean-O-Matic	N/A		100	N/A	gal	Conditioned annual throughput limit, P/C# 17527. Sporadic use, daily limit is not appropriate. Offsets = NSR
S-4427	Cold Cleaner	Graymills Clean-O-Matic	N/A		100	N/A	gal	Conditioned annual throughput limit, P/C# 17527. Sporadic use, daily limit is not appropriate. Offsets = NSR
S-4428	Cold Cleaner	Graymills Clean-O-Matic	N/A		100	N/A	gal	Conditioned annual

## II. Equipment

**Table II A 1 - Permitted Sources (New Source Review)**

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 J.1 and Regulation 2-1-301. All combustion sources are fired on natural gas or refinery fuel gas, except where noted in permit conditions.

Source Number	Description	Make or Type	Model	Capacity	Annual Throughput Limits	Daily Throughput Limits	Units	Basis
								throughput limit, P/C# 17527. Sporadic use, daily limit is not appropriate. Offsets = NSR
S-4940	Tank D-4940, Chemical Additives Tank	Fixed roof	N/A	1450	7,028		Gal	P/Condition # 23001
S-6010	High Level Flare, LSFO	John Zink	STF SA365		34,711.5*	95.04	million Btu HHV	Data form used HHV RLOP
S-6012	V-282 South Isomax Flare	Contractor	N/A		22,301.5*	61.1	million Btu HHV	Data form used HHV RLOP
S-6013	North Isomax Flare V-281	Contractor	N/A		22,301.5*	61.1	million Btu HHV	Data form used HHV RLOP
S-6015	Refinery Waste Gas Flare	John Zink	N/A		28,900	79.2	million Btu HHV	Implied per application #17855. Appendix 9M-2 RLOP
S-6016	FCC Flare V-731	Natural Gas, Tangential, Firing, Natural Draft	N/A		40,874.16*	112	million Btu HHV	Data form used HHV CFP
S-6017	Alkane Flare	Contractor	N/A		23,049	63.1	million Btu HHV	Converted to HHV RLOP
S-6019	V-732, Alky-Poly Flare	Contractor	N/A		26,306*	72.1	million Btu HHV	times 1.0476 CFP
S-6039	Lube Flare, V-3501	48 Inch	N/A		19,053	52.2	million Btu HHV	times 1.0476 RLOP
S-6051	ALKY Cooling Tower	Marley	400		15,768.00	43.2	Million gal	Implied, A/N13023, Cond #14596, (effective date TBA)

## II. Equipment

**Table II A 1 - Permitted Sources (New Source Review)**

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 J.1 and Regulation 2-1-301. All combustion sources are fired on natural gas or refinery fuel gas, except where noted in permit conditions.

Source Number	Description	Make or Type	Model	Capacity	Annual Throughput Limits	Daily Throughput Limits	Units	Basis
S-6061	Alkane Treatment Plant	N/A	N/A		25,300,000	70,560	Gal	Data form G '95
S-6200	Portable Polyethylene Storage Container	Abated Fixed Roof	N/A	6500 gal	36,000 (sum of S-6200 thru S-6219)	N/A	bbl non-exempt stock (calendar year)	Conditioned annual throughput limit (non-permit exempt stock), P/C# 10761
S-6201	Portable Polyethylene Storage Container	Abated Fixed Roof	N/A	6500 gal	36,000 (sum of S-6200 thru S-6219)	N/A	bbl non-exempt stock (calendar year)	Conditioned annual throughput limit (non-permit exempt stock), P/C# 10761
S-6202	Portable Polyethylene Storage Container	Abated Fixed Roof	N/A	6500 gal	36,000 (sum of S-6200 thru S-6219)	N/A	bbl non-exempt stock (calendar year)	Conditioned annual throughput limit (non-permit exempt stock), P/C# 10761
S-6203	Portable Polyethylene Storage Container	Abated Fixed Roof	N/A	6500 gal	36,000 (sum of S-6200 thru S-6219)	N/A	bbl non-exempt stock (calendar year)	Conditioned annual throughput limit (non-permit exempt stock), P/C# 10761
S-6204	Portable Polyethylene Storage Container	Abated Fixed Roof	N/A	6500 gal	36,000 (sum of S-6200 thru S-6219)	N/A	bbl non-exempt stock (calendar year)	Conditioned annual throughput limit (non-permit exempt stock), P/C# 10761
S-6205	Portable Polyethylene Storage Container	Abated Fixed Roof	N/A	6500 gal	36,000 (sum of S-6200 thru S-6219)	N/A	bbl non-exempt stock (calendar year)	Conditioned annual throughput limit (non-permit exempt stock), P/C# 10761
S-6206	Portable Polyethylene Storage Container	Abated Fixed Roof	N/A	6500 gal	36,000 (sum of S-6200 thru S-6219)	N/A	bbl non-exempt stock (calendar year)	Conditioned annual throughput limit (non-permit exempt)

## II. Equipment

**Table II A 1 - Permitted Sources (New Source Review)**

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 J.1 and Regulation 2-1-301. All combustion sources are fired on natural gas or refinery fuel gas, except where noted in permit conditions.

Source Number	Description	Make or Type	Model	Capacity	Annual Throughput Limits	Daily Throughput Limits	Units	Basis
								stock), P/C# 10761
S-6207	Portable Polyethylene Storage Container	Abated Fixed Roof	N/A	6500 gal	36,000 (sum of S-6200 thru S-6219)	N/A	bbl non-exempt stock (calendar year)	Conditioned annual throughput limit (non-permit exempt stock), P/C# 10761
S-6208	Portable Polyethylene Storage Container	Abated Fixed Roof	N/A	6500 gal	36,000 (sum of S-6200 thru S-6219)	N/A	bbl non-exempt stock (calendar year)	Conditioned annual throughput limit (non-permit exempt stock), P/C# 10761
S-6209	Portable Polyethylene Storage Container	Abated Fixed Roof	N/A	6500 gal	36,000 (sum of S-6200 thru S-6219)	N/A	bbl non-exempt stock (calendar year)	Conditioned annual throughput limit (non-permit exempt stock), P/C# 10761
S-6210	Portable Polyethylene Storage Container	Abated Fixed Roof	N/A	6500 gal	36,000 (sum of S-6200 thru S-6219)	N/A	bbl non-exempt stock (calendar year)	Conditioned annual throughput limit (non-permit exempt stock), P/C# 10761
S-6211	Portable Polyethylene Storage Container	Abated Fixed Roof	N/A	6500 gal	36,000 (sum of S-6200 thru S-6219)	N/A	bbl non-exempt stock (calendar year)	Conditioned annual throughput limit (non-permit exempt stock), P/C# 10761
S-6212	Portable Polyethylene Storage Container	Abated Fixed Roof	N/A	6500 gal	36,000 (sum of S-6200 thru S-6219)	N/A	bbl non-exempt stock (calendar year)	Conditioned annual throughput limit (non-permit exempt stock), P/C# 10761
S-6213	Portable Polyethylene Container	Abated Fixed Roof	N/A	6500 gal	36,000 (sum of S-6200 thru S-6219)	N/A	bbl non-exempt stock (calendar year)	Conditioned annual throughput limit (non-permit exempt

## II. Equipment

**Table II A 1 - Permitted Sources (New Source Review)**

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 J.1 and Regulation 2-1-301. All combustion sources are fired on natural gas or refinery fuel gas, except where noted in permit conditions.

Source Number	Description	Make or Type	Model	Capacity	Annual Throughput Limits	Daily Throughput Limits	Units	Basis
								stock), P/C# 10761
S-6214	Portable Polyethylene Storage Container	Abated Fixed Roof	N/A	6500 gal	36,000 (sum of S-6200 thru S-6219)	N/A	bbl non-exempt stock (calendar year)	Conditioned annual throughput limit (non-permit exempt stock), P/C# 10761
S-6215	Portable Polyethylene Storage Container	Abated Fixed Roof	N/A	6500 gal	36,000 (sum of S-6200 thru S-6219)	N/A	bbl non-exempt stock (calendar year)	Conditioned annual throughput limit (non-permit exempt stock), P/C# 10761
S-6216	Portable Polyethylene Storage Container	Abated Fixed Roof	N/A	6500 gal	36,000 (sum of S-6200 thru S-6219)	N/A	bbl non-exempt stock (calendar year)	Conditioned annual throughput limit (non-permit exempt stock), P/C# 10761
S-6217	Portable Polyethylene Storage Container	Abated Fixed Roof	N/A	6500 gal	36,000 (sum of S-6200 thru S-6219)	N/A	bbl non-exempt stock (calendar year)	Conditioned annual throughput limit (non-permit exempt stock), P/C# 10761
S-6218	Portable Polyethylene Storage Container	Abated Fixed Roof	N/A	6500 gal	36,000 (sum of S-6200 thru S-6219)	N/A	bbl non-exempt stock (calendar year)	Conditioned annual throughput limit (non-permit exempt stock), P/C# 10761
S-6219	Portable Polyethylene Storage Container	Abated Fixed Roof	N/A	6500 gal	36,000 (sum of S-6200 thru S-6219)	N/A	bbl non-exempt stock (calendar year)	Conditioned annual throughput limit (non-permit exempt stock), P/C# 10761
S-6220	Portable Steel Storage Container	Abated Fixed Roof	N/A	21K gal	120,000 (sum of S-6220 thru S-6239)	N/A	bbl non-exempt stock (calendar year)	Conditioned annual throughput limit (non-permit exempt

## II. Equipment

**Table II A 1 - Permitted Sources (New Source Review)**

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 J.1 and Regulation 2-1-301. All combustion sources are fired on natural gas or refinery fuel gas, except where noted in permit conditions.

Source Number	Description	Make or Type	Model	Capacity	Annual Throughput Limits	Daily Throughput Limits	Units	Basis
								stock), P/C# 10761
S-6221	Portable Steel Storage Container	Abated Fixed Roof	N/A	21K gal	120,000 (sum of S-6220 thru S-6239)	N/A	bbl non-exempt stock (calendar year)	Conditioned annual throughput limit (non-permit exempt stock), P/C# 10761
S-6222	Portable Steel Storage Container	Abated Fixed Roof	N/A	21K gal	120,000 (sum of S-6220 thru S-6239)	N/A	bbl non-exempt stock (calendar year)	Conditioned annual throughput limit (non-permit exempt stock), P/C# 10761
S-6223	Portable Steel Storage Container	Abated Fixed Roof	N/A	21K gal	120,000 (sum of S-6220 thru S-6239)	N/A	bbl non-exempt stock (calendar year)	Conditioned annual throughput limit (non-permit exempt stock), P/C# 10761
S-6224	Portable Steel Storage Container	Abated Fixed Roof	N/A	21K gal	120,000 (sum of S-6220 thru S-6239)	N/A	bbl non-exempt stock (calendar year)	Conditioned annual throughput limit (non-permit exempt stock), P/C# 10761
S-6225	Portable Steel Storage Container	Abated Fixed Roof	N/A	21K gal	120,000 (sum of S-6220 thru S-6239)	N/A	bbl non-exempt stock (calendar year)	Conditioned annual throughput limit (non-permit exempt stock), P/C# 10761
S-6226	Portable Steel Storage Container	Abated Fixed Roof	N/A	21K gal	120,000 (sum of S-6220 thru S-6239)	N/A	bbl non-exempt stock (calendar year)	Conditioned annual throughput limit (non-permit exempt stock), P/C# 10761
S-6227	Portable Steel Storage Container	Abated Fixed Roof	N/A	21K gal	120,000 (sum of S-6220 thru S-6239)	N/A	bbl non-exempt stock (calendar year)	Conditioned annual throughput limit (non-permit exempt

## II. Equipment

**Table II A 1 - Permitted Sources (New Source Review)**

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 J.1 and Regulation 2-1-301. All combustion sources are fired on natural gas or refinery fuel gas, except where noted in permit conditions.

Source Number	Description	Make or Type	Model	Capacity	Annual Throughput Limits	Daily Throughput Limits	Units	Basis
								stock), P/C# 10761
S-6228	Portable Steel Storage Container	Abated Fixed Roof	N/A	21K gal	120,000 (sum of S-6220 thru S-6239)	N/A	bbl non-exempt stock (calendar year)	Conditioned annual throughput limit (non-permit exempt stock), P/C# 10761
S-6229	Portable Steel Storage Container	Abated Fixed Roof	N/A	21K gal	120,000 (sum of S-6220 thru S-6239)	N/A	bbl non-exempt stock (calendar year)	Conditioned annual throughput limit (non-permit exempt stock), P/C# 10761
S-6230	Portable Steel Storage Container	Abated Fixed Roof	N/A	21K gal	120,000 (sum of S-6220 thru S-6239)	N/A	bbl non-exempt stock (calendar year)	Conditioned annual throughput limit (non-permit exempt stock), P/C# 10761
S-6231	Portable Steel Storage Container	Abated Fixed Roof	N/A	21K gal	120,000 (sum of S-6220 thru S-6239)	N/A	bbl non-exempt stock (calendar year)	Conditioned annual throughput limit (non-permit exempt stock), P/C# 10761
S-6232	Portable Steel Storage Container	Abated Fixed Roof	N/A	21K gal	120,000 (sum of S-6220 thru S-6239)	N/A	bbl non-exempt stock (calendar year)	Conditioned annual throughput limit (non-permit exempt stock), P/C# 10761
S-6233	Portable Steel Storage Container	Abated Fixed Roof	N/A	21K gal	120,000 (sum of S-6220 thru S-6239)	N/A	bbl non-exempt stock (calendar year)	Conditioned annual throughput limit (non-permit exempt stock), P/C# 10761
S-6234	Portable Steel Storage Container	Abated Fixed Roof	N/A	21K gal	120,000 (sum of S-6220 thru S-6239)	N/A	bbl non-exempt stock (calendar year)	Conditioned annual throughput limit (non-permit exempt



## II. Equipment

**Table II A 1 - Permitted Sources (New Source Review)**

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 J.1 and Regulation 2-1-301. All combustion sources are fired on natural gas or refinery fuel gas, except where noted in permit conditions.

Source Number	Description	Make or Type	Model	Capacity	Annual Throughput Limits	Daily Throughput Limits	Units	Basis
								stock), P/C# 10761
S-6235	Portable Steel Storage Container	Abated Fixed Roof	N/A	21K gal	120,000 (sum of S-6220 thru S-6239)	N/A	bbl non-exempt stock (calendar year)	Conditioned annual throughput limit (non-permit exempt stock), P/C# 10761
S-6236	Portable Steel Storage Container	Abated Fixed Roof	N/A	21K gal	120,000 (sum of S-6220 thru S-6239)	N/A	bbl non-exempt stock (calendar year)	Conditioned annual throughput limit (non-permit exempt stock), P/C# 10761
S-6237	Portable Steel Storage Container	Abated Fixed Roof	N/A	21K gal	120,000 (sum of S-6220 thru S-6239)	N/A	bbl non-exempt stock (calendar year)	Conditioned annual throughput limit (non-permit exempt stock), P/C# 10761
S-6238	Portable Steel Storage Container	Abated Fixed Roof	N/A	21K gal	120,000 (sum of S-6220 thru S-6239)	N/A	bbl non-exempt stock (calendar year)	Conditioned annual throughput limit (non-permit exempt stock), P/C# 10761
S-6239	Portable Steel Storage Container	Abated Fixed Roof	N/A	21K gal	120,000 (sum of S-6220 thru S-6239)	N/A	bbl non-exempt stock (calendar year)	Conditioned annual throughput limit (non-permit exempt stock), P/C# 10761
S-7010	Diesel engine, 153 bhp	Mercedes Benz		153 bhp	1000 hr/y	N/A	hours	Application 6523 condition 20366
S-7013	SRU Stationary Standby Generator set, Diesel Engine	Cummins		750 hp	50 hr/y	N/A	hours	App#12975 Cond #22569
S-7601	Inkjet Printing Operation	Domino			30 gal ink 36 gal cleanup solvent		gallon	App#11503 Cond#22266

## II. Equipment

**Table II A 2 – Permitted Sources (Non-Grandfathers & Non-New Source Review)**

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 J.1 and Regulation 2-1-301. All combustion sources are fired on natural gas or refinery fuel gas, except where noted in permit conditions.

Source Number	Description	Make or Type	Model	Capacity	Annual Throughput Limits	Daily Throughput Limits	Units	Basis
S-0025	Tank	Fixed Roof	N/A	336 gal	2,520	N/A	gal	P/C# 15107
S-0399	Tank	External Floating Roof	N/A	4368K gal	3,500,000	N/A	bbl	Form T application #3061
S-0605	Tank	Abated Fixed Roof	N/A	1131 gal	84.1 (Sum of S-0605 and S-6066)	N/A	1,000,000 gal	Conditioned annual throughput, P/C #11193. Stated limit is the sum of S-605 & S-6066
S-0660	Tank	Abated Fixed Roof	N/A	252 gal	N/A, limited by S-0605 and S-6066	N/A, limited by S-0605 and S-6066	1,000,000 gal	No limit. Limited by source #6061
S-0870	Tank	Fixed Roof	N/A	2300 gal	4,500	N/A	bbl non-exempt stocks	condition #11208
S-1488	Tank	External Floating Roof	N/A	1197K gal	365,000	N/A	bbl by roof drop	Implied limit App.#31398 '86
S-1637	Tank	Internal Floating Roof	N/A	105K gal	1,750,000	N/A	bbl	App. #179 '86 Implied permit condition
S-1645	Tank	Internal Floating Roof	N/A	105K gal	73,000	N/A	bbl	'77 data form T throughput verified acceptable in app. 14939 in '95
S-1908	Tank 908	Abated Fixed Roof	N/A	953K gal	1,750,000	N/A	bbl	Conditioned annual throughput, P/C# 4233
S-1909	Tank	Fixed Roof	N/A	5300 gal	11,700	N/A	bbl non-exempt stock	Conditioned annual throughput (non-exempt stock), P/C# 11208
S-1911	Tank	Fixed Roof	N/A	4500 gal	9,900	N/A	bbl non-exempt stock	Conditioned annual throughput

## II. Equipment

**Table II A 2 – Permitted Sources (Non-Grandfathers & Non-New Source Review)**

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 J.1 and Regulation 2-1-301. All combustion sources are fired on natural gas or refinery fuel gas, except where noted in permit conditions.

Source Number	Description	Make or Type	Model	Capacity	Annual Throughput Limits	Daily Throughput Limits	Units	Basis
								(non-exempt stock), P/C# 11208
S-2917	Tank 917	Abated Fixed Roof	N/A	49K gal	20,000	N/A	bbbl	Conditioned annual throughput, P/C# 4233
S-2918	Tank 918	Abated Fixed Roof	N/A	49K gal	20,000	N/A	bbbl	Conditioned annual throughput, P/C# 4233
S-2921	Tank 921	Abated Fixed Roof	N/A	9351 gal	5,000	N/A	bbbl	Conditioned annual throughput, P/C# 4233
S-3075	Tank	External Floating Roof	N/A	1680K gal	520,000	N/A	bbbl	See Appendix 1B1 App#28073 A/C issued Throughput used in Evaluation
S-3076	Tank	External Floating Roof	N/A	8625.51K gal	5,914,000	N/A	bbbl	Form T '82 design drawings submitted 1/164
S-3102	Tank	External Floating Roof	N/A	22MM gal	8,213,000	N/A	bbbl non-exempt stock	Per emissions calculation & data form T from App.#27916 '81
S-3107	Tank	External Floating Roof	N/A	25MM gal	25,848,000	N/A	bbbl non-exempt stock	App.#12635 '94 implied condition verified
S-3141	Tank	Abated Fixed Roof	N/A		216,330	N/A	long tons	App.'s 10721 & 32587, '93 & '88 A/N 9329 and C#1046
S-3144	Tank	External Floating Roof	N/A	336K gal	36,500	N/A	bbbl hydrocarbon	Form T '89 & '93
S-3180	Tank	External Floating Roof	N/A	6807.87K gal	11,000,000	N/A	bbbl	design drawings submitted 1/16/4 Implied

## II. Equipment

**Table II A 2 – Permitted Sources (Non-Grandfathers & Non-New Source Review)**

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 J.1 and Regulation 2-1-301. All combustion sources are fired on natural gas or refinery fuel gas, except where noted in permit conditions.

Source Number	Description	Make or Type	Model	Capacity	Annual Throughput Limits	Daily Throughput Limits	Units	Basis
								permit condition (alkylate) app.#4361 '90
S-3192	Tank	Pressure Tank	N/A	2600K gal	750,952	2,057	bbl	App.# 6035
S-3220	Tank	External Floating Roof Tank	N/A	7699K gal	12,466,000	N/A	Bbl non-exempt stock	Condiiton #17553
S-4042	#5 Rheniformer F-550	Foster Wheeler	N/A		1,734,480	4,752	million Btu HHV	Conditioned daily throughput P/C# 18172
S-4043	F-560, #5 Rheniformer	Foster Wheeler	N/A		1,130,040	3,192	million Btu HHV	Conditioned daily throughput P/C# 18172
S-4045	#5 Rheniformer F-580	Foster Wheeler	N/A		446,760	1,224	million Btu HHV	Conditioned daily throughput P/C# 18172
S-4061	#5 Naph Hydrotreater F-410	Born Engineering Co.	N/A		989,880	2,928	million Btu HHV	Conditioned daily throughput, P/C# 18166 annual limit proposed in Aug 16, 2001 firing rate limit update.
S-4062	#5 Naph Hydrotreater F-447	Born Engineering Co.	N/A		1,095,000	3,960	million Btu HHV	Conditioned daily throughput, P/C# 18166 annual limit proposed in Aug 16, 2001 firing rate limit update.
S-4068	VGO Desulfurizer F-1610	Petro-Chem	N/A		1,116,900	3,060	million Btu HHV	Conditioned daily throughput P/C# 18350
S-4076	3 Cat Cooling	Fluor Prod Co	N/A				million gal	

## II. Equipment

**Table II A 2 – Permitted Sources (Non-Grandfathers & Non-New Source Review)**

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 J.1 and Regulation 2-1-301. All combustion sources are fired on natural gas or refinery fuel gas, except where noted in permit conditions.

Source Number	Description	Make or Type	Model	Capacity	Annual Throughput Limits	Daily Throughput Limits	Units	Basis
	Tower E-460							
S-4129	800# Steam Boiler #1 #1PP	Riley Stoker Corp.	N/A		2,041,080	5,592	million Btu HHV	Conditioned daily throughput P/C# 16650
S-4131	Steam Boiler #3 #1PP	Riley Stoker Corp.	N/A		2,067,360	5,664	million Btu HHV	Conditioned daily throughput P/C# 16650
S-4132	Steam Boiler #4 #1PP	Riley Stoker Corp.	N/A		2,058,600	5,640	million Btu HHV	Conditioned daily throughput P/C# 17675
S-4133	Steam Boiler #5 #1PP	Riley Stoker Corp.	N/A		2,076,120	5,688	million Btu HHV	Conditioned daily throughput P/C# 16686
S-4135	Steam Boiler #7 #1PP	Babcock & Wilcox	N/A		2,382,720	6,528	million Btu HHV	Conditioned daily throughput P/C# 17675
S-4148	#13 Separator	API Separator Fresh Water	N/A		4934.8* (combined throughput for S-4413, S-4414, and S-4148)	20	million gal	Data form. 1980 PTO
S-4152	F-100 Asphalt Solution Heater SDA Isomax	M.W. Kellogg	N/A		442,380	1,212	million Btu HHV	Conditioned daily throughput P/C# 16686
S-4154	F-120 Asphalt Solution Heater SDA Isomax	M.W. Kellogg	N/A		442,380	1,212	million Btu HHV	Conditioned daily throughput P/C# 16686
S-4155	F-135 Hot Oil Furnace	M.W. Kellogg	N/A		1,830,840*	5016	million Btu LHV	PTO cond 8773
S-4158	F-340 Natural Gas Heater, H2 Plant	Born Engineering Co.	N/A		366,168	1,152	million Btu HHV	Implied condition application #553. Conditioned daily limit, condition #17631
S-4167	F-710 TKC Fractionator	Born Engineering	N/A		1,007,400	3,480	million Btu	Conditioned daily

## II. Equipment

**Table II A 2 – Permitted Sources (Non-Grandfathers & Non-New Source Review)**

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 J.1 and Regulation 2-1-301. All combustion sources are fired on natural gas or refinery fuel gas, except where noted in permit conditions.

Source Number	Description	Make or Type	Model	Capacity	Annual Throughput Limits	Daily Throughput Limits	Units	Basis
	Isomax	Co.					HHV	throughput P/C# 16731
S-4170	F-305 H2 Reforming Furnace, H2 Plant	Foster Wheeler	N/A			20,328	million Btu HHV	Conditioned daily throughput limit P/C# 16686 & 12.5
S-4172	Isomax Cooling Tower E-261	Fluor Cooling Tower	N/A				million gal	
S-4173	FCC Cooling Tower E-710	Fluor Cooling Tower	N/A				million gal	
S-4187	FCC Polymer Cooling Tower E-781	Windeler Cooling Tower	N/A		2,418	7	million gal	See appendix II (Roman)
S-4229	SRU #3 Train	Contractor	N/A		106,835.5	336	long tons	Condition #19063
S-4237	No. 5 Rheniformer	Bechtel	N/A		10,352,000	31,000	bbl feed	6 months x2, based on a maximum of 3 regens/yr/A/N 6014 RLOP
S-4251	Solvent Deasphalting (SDA) Plant	M.W. Kellogg	N/A		24,090,000	66,000	bbl	App.#9163
S-4292	FCC Polymer Plant	Socal/Warner Lewis	N/A		2,920,000	8000	bbl feed	Application #7948 pending
S-4360	Perc Storage Tank, V1513	N/A	N/A		9400	N/A	gal	Condition #C-18337 & 12.17
S-4393	Bio-Reactor		N/A		7140	62.5	million gal	See Appendix 10.2, data form '81
S-4410	General Maintenance Paint Booth		N/A		500 coatings 55 solvents	N/A	gal	Per District data base. No daily limit. Intermittent usage only A/N 5591

## II. Equipment

**Table II A 2 – Permitted Sources (Non-Grandfathers & Non-New Source Review)**

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 J.1 and Regulation 2-1-301. All combustion sources are fired on natural gas or refinery fuel gas, except where noted in permit conditions.

Source Number	Description	Make or Type	Model	Capacity	Annual Throughput Limits	Daily Throughput Limits	Units	Basis
S-4420	Solvent Cleaner-Machine Shop	Graymills Clean-O-Matic	N/A		200	N/A	gal	Per District database. No daily limit. Intermittent usage only A/N 31912
S-4424	Paint Booth		N/A		2500	9.8	Pounds	Condition #21165 application #8161
S-4429	#8 Plant	N/A	N/A		850.45	2.5	million SCF H2S produced	Per Sour Gas & SRU proposal letter dated 5/2/01. Appendix 9P-1, P/C# 18945
S-4433	#3 H2S Plant	N/A	N/A		335.8	1.1	million SCF H2S produced	Per Sour Gas & SRU proposal letter dated 5/2/01. Appendix 9P-1, P/C# 18945
S-4434	#4 H2S Plant	N/A	N/A		1,624.25	4.97	million SCF H2S produced	Per Sour Gas & SRU proposal letter dated 5/2/01. Appendix 9P-1, P/C# 18945
S-4435	#5 H2S Plant	N/A	N/A		1,825	5.0	million SCF H2S produced	Per Sour Gas & SRU proposal letter dated 5/2/01. Appendix 9P-1, P/C# 18945
S-6050	MTBE Plant	NA	N/A		7,665,000	23,000	bbl C4 feed	Daily based on PTO, annual based on app. #7304, Appendix 9P-12.
S-6066	Tank 6066: Process Water Tank <1000ppm (wt) Hydroc	Abated Fixed Roof	N/A		84.1 (sum of S-0605 and S-6066)	N/A	1,000,000 gal	Conditioned annual throughput limit, P/C# 11193. Stated limit is sum of S-605 and S-

## II. Equipment

**Table II A 2 – Permitted Sources (Non-Grandfathers & Non-New Source Review)**

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 J.1 and Regulation 2-1-301. All combustion sources are fired on natural gas or refinery fuel gas, except where noted in permit conditions.

Source Number	Description	Make or Type	Model	Capacity	Annual Throughput Limits	Daily Throughput Limits	Units	Basis
								6066.
S-6125	Tank 6125	Abated Fixed Roof	N/A	600 gal	1,400	N/A	bbl non-exempt stock	Conditioned annual throughput limit (non-exempt stock), P/C# 11208
S-6250	Oil Water Separator for Debru	N/A	N/A		115,500	N/A	bbl	Appendix 9M-3 App.#25134
7501	IC Engine				100		Hours	Condition 20225
7502	IC Engine			200			Hours	Regulation 9-8-330
7503	IC Engine			200			Hours	Regulation 9-8-330
7504	IC Engine			<200			Hours	Regulation 9-8-330
7505	IC Engine			75			Hours	Regulation 9-8-330
7506	IC Engine			235			Hours	Regulation 9-8-330
7507	IC Engine				720		Hours	Condition 20225
7508	IC Engine			240			Hours	Regulation 9-8-330
7509	IC Engine			240			Hours	Regulation 9-8-330
7511	IC Engine				720		Hours	Condition 20225
7512	IC Engine				720		Hours	Condition 20225
7513	IC Engine				720		Hours	Condition 20225
7514	IC Engine				720		Hours	Condition 20225
7515	IC Engine				720		Hours	Condition 20225
7516	IC Engine				720		Hours	Condition 20225



## II. Equipment

**Table II A 2 – Permitted Sources (Non-Grandfathers & Non-New Source Review)**

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 J.1 and Regulation 2-1-301. All combustion sources are fired on natural gas or refinery fuel gas, except where noted in permit conditions.

Source Number	Description	Make or Type	Model	Capacity	Annual Throughput Limits	Daily Throughput Limits	Units	Basis
7517	IC Engine				720		Hours	Condition 20225
7518	IC Engine				720		Hours	Condition 20225
7519	IC Engine			217			Hours	Regulation 9-8-330
7521	IC Engine				720		Hours	Condition 20225
7522	IC Engine				720		Hours	Condition 20225
7523	IC Engine				720		Hours	Condition 20225
7525	IC Engine				720		Hours	Condition 20225
7526	IC Engine			435	100		Hours	Condition 20225
7527	IC Engine			217			Hours	Regulation 9-8-330
7528	IC Engine			217			Hours	Regulation 9-8-330
7529	IC Engine			217			Hours	Regulation 9-8-330
7530	IC Engine			217			Hours	Regulation 9-8-330
7531	IC Engine			370	100		Hours	Condition 20225
S-9302	Tank T-302 in Lube/Chem Division	Fixed Roof	N/A	12600 gal	3,000,000	N/A	bbl	Form T, Appendix 1B2 App.#30395 '84
S-9303	Tank T-303 in Lube/Chem Division	Fixed Roof	N/A	12600 gal	2,000,000	N/A	bbl	Form T App.#30395 '84
S-9304	Non Retail Gasoline Dispensing Facility	1 NOZ/EW A3003/A3005 Type, Condensate Trap Type: Simple Trap	N/A		107,623*	294.9	bbl	P/C# 710, 7880, 20666

## II. Equipment

**Table II A 3 – Permitted Sources (Grandfathered)**

**Table II A 3 – Permitted Sources (Grandfathered)**

Each of the following sources has been issued a permit to operate pursuant to the requirements of BAAQMD Regulation 2, Permits. The capacities in this table are the maximum allowable capacities pursuant to 2-1-301. Throughput limits function as reporting thresholds as described in Standard Condition J.2. All combustion sources are fired on natural gas or refinery fuel gas, except where noted in permit conditions.

Source Number	Description	Make or Type	Model	Capacity	Annual Throughput Limits	Daily Throughput Limits	Units	Basis
S-0021	Tank	Fixed Roof	N/A	750 gal	30,000	N/A	gal	Conditioned annual throughput, P/C# 5270
S-0231	Tank	External Floating Roof	N/A	1260K gal	15,330	N/A	1000 gal	Form T '77
S-0232	Tank	External Floating Roof	N/A	1344K gal	268,308	N/A	bbl	See Appendix 9T-1 highest 6 month throughput times 2 (H6Mx2)
S-0297	Tank	External Floating Roof	N/A	2528K gal	5,475,000	N/A	bbl	Data form
S-0298	Tank	External Floating Roof	N/A	2486K gal	5,110,000	N/A	bbl	Data form
S-0634	Tank	External Floating Roof	N/A	2499K gal	1,900,000	N/A	Bbl	Form T, Appendix 11.1
S-0953	Tank	External Floating Roof	N/A	3717K gal	3,337,346	N/A	bbl	See Appendix 9T-1 highest 6 month throughput times 2 (H6Mx2)
S-0954	Tank	External Floating Roof	N/A	2659K gal	1,971,000	N/A	bbl	1977 data form T
S-0990	Tank	External Floating Roof	N/A	3738K gal	4,264,814	N/A	bbl	See Appendix 9T-1 highest 6 month throughput times 2 (H6Mx2)
S-0991	Tank	External Floating Roof	N/A	4549K gal	5,342,125	N/A	bbl	See Appendix 9T-1 highest 6 month throughput times 2 (H6Mx2)

## II. Equipment

**Table II A 3 – Permitted Sources (Grandfathered)**

Each of the following sources has been issued a permit to operate pursuant to the requirements of BAAQMD Regulation 2, Permits. The capacities in this table are the maximum allowable capacities pursuant to 2-1-301. Throughput limits function as reporting thresholds as described in Standard Condition J.2. All combustion sources are fired on natural gas or refinery fuel gas, except where noted in permit conditions.

Source Number	Description	Make or Type	Model	Capacity	Annual Throughput Limits	Daily Throughput Limits	Units	Basis
S-1287	Tank	External Floating Roof	N/A	2579K gal	1,038,000	N/A	bbl	Appendix 11.1 highest 6 month throughput times 2 (H6Mx2)
S-1289	Tank	Internal Floating Roof	N/A	1294K gal	293,185	N/A	bbl	See Appendix 9T-1 highest 6 month throughput times 2 (H6Mx2)
S-1431	Tank 907	Abated Fixed Roof	N/A	924K gal	12,264	N/A	1000 gal	Form T
S-1444	Tank	External Floating Roof	N/A	790K gal	620,500	N/A	bbl	Form T
S-1459	Tank	External Floating Roof	N/A	3163K gal	1,524,966	N/A	bbl	See Appendix 9T-1 highest 6 month throughput times 2 (H6Mx2)
S-1491	Tank	External Floating Roof	N/A	2096K gal	1,093,160	N/A	bbl	See Appendix 9T-1 highest 6 month throughput times 2 (H6Mx2)
S-1504	Tank	External Floating Roof	N/A	1373K gal	602,132	N/A	bbl	See Appendix 9T-1 highest 6 month throughput times 2 (H6Mx2)
S-1518	Tank	External Floating Roof	N/A	2764K gal	1,095,000	N/A	bbl non-exempt stocks	Form T
S-1633	Tank	Internal Floating Roof	N/A	151K gal	6,132	N/A	1000 gal	Form T
S-1686	Tank	External Floating Roof	N/A	3238K gal	15,330	N/A	1000 gal	Form T
S-1687	Tank	External Floating Roof	N/A	6329K gal		N/A	bbl	condition #21237

## II. Equipment

**Table II A 3 – Permitted Sources (Grandfathered)**

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Source Number	Description	Make or Type	Model	Capacity	Annual Throughput Limits	Daily Throughput Limits	Units	Basis
S-1688	Tank	External Floating Roof	N/A	6052K gal	5,059,000	N/A	bbl	Implied permit condition from data form T '77 unable to locate app. #10313
S-1843	Tank	External Floating Roof	N/A	192.78 K gal	36,500	N/A	bbl	Data form T '77 Check App. 9099? Design drawings submitted 1/16/4
S-1966	Tank	External Floating Roof	N/A	1987K gal	767,646	N/A	bbl	highest 6 months throughput x2
S-3071	Tank	External Floating Roof	N/A	7808K gal	8,560,287	N/A	bbl	See Appendix 9T-1 highest 6 month throughput times 2 (H6Mx2)
S-3072	Tank	External Floating Roof	N/A	6493K gal		N/A	bbl	condition #21237
S-3073	Tank	External Floating Roof	N/A	4914K gal	3,991,000	N/A	bbl	Appendix 11.1 highest 6 month throughput times 2 (H6Mx2)
S-3101	Tank	External Floating Roof	N/A	19925K gal		N/A	bbl non-exempt stock	Condition #21237
S-3103	Tank	External Floating Roof	N/A	22MM gal	21,128,000	N/A	bbl non-exempt stock	Monthly data showing 6 months times 2 = annual limit for tanks and crude unit
S-3104	Tank	External Floating Roof	N/A	31MM gal	22,676,000	N/A	bbl non-exempt stock	Monthly data showing 6 months times 2 = annual limit for tanks and crude unit
S-3105	Tank	External Floating Roof	N/A	31MM gal	29,455,000	N/A	bbl non-exempt stock	Monthly data showing 6

## II. Equipment

**Table II A 3 – Permitted Sources (Grandfathered)**

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Source Number	Description	Make or Type	Model	Capacity	Annual Throughput Limits	Daily Throughput Limits	Units	Basis
								months times 2 = annual limit for tanks and crude unit
S-3128	Tank	External Floating Roof	N/A	1939.58 Kgal	975,000	N/A	bbl	See Appendix 2B5 & Form T '78 design drawings submitted 1/16/4
S-3129	Tank	External Floating Roof	N/A	4502 Kgal	4,970,210	N/A	bbl	See Appendix 9T-1 highest 6 month throughput times 2 (H6Mx2)
S-3140	Tank	Abated Fixed Roof	N/A		216,330	N/A	long tons	Based on the SRU plant throughput. Source no 4227, 4228, 4229. Appendix 12.2 & 13.1
S-4073	LSFO Cooling Tower	Bechtel	N/A		13,666	37	million gal	See appendix II (Roman)
S-9321	Marine Loading Berth #1		4 loading arms		146,628( sum of 9321 through 9326)		1000 bbl	See Appendix 11.6 six months highest actual data times two
S-9322	Marine Loading Berth #2		18 gasoline/ gasohol arms		146,628( sum of 9321 through 9326)		1000 bbl	See Appendix 11.6, six months highest actual data times two
S-9323	Marine Loading Berth #3		6 gasoline/ gasohol arms		146,628( sum of 9321 through 9326)		1000 bbl	See Appendix 11.6, six months highest actual data times two
S-9324	Marine Loading Berth #4		gasoline/ gasohol arms		146,628( sum of 9321 through 9326)		1000 bbl	See Appendix 11.6, six months highest actual data times two
S-9325	Marine Loading		15 gasoline/		146,628( sum of		1000 bbl	See Appendix

## II. Equipment

**Table II A 3 – Permitted Sources (Grandfathered)**

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Source Number	Description	Make or Type	Model	Capacity	Annual Throughput Limits	Daily Throughput Limits	Units	Basis
	Berth #9		gasohol arms		9321 through 9326)			11.6, six months highest actual data times two
S-9326	Marine Loading Berth #11		2 gasoline/gasohol arms		146,628( sum of 9321 through 9326)		1000 bbl	See Appendix 11.6, six months highest actual data times two

## II. Equipment

Table II B – Abatement Devices

Table II-B – Abatement Devices

Abatement Device Number	Description	Sources(s) Controlled	Applicable Requirement	Operating Parameters	Limit or Efficiency
A-0008	Kiln – Baghouse, Filter Building Baghouse, Reverse Air	S-4094	6-301		Ringelmann 1 6-310.3 0.15 grams/dscf @ 6% O <sub>2</sub>
A-0014	K-13, FCC Electrostatic Precipitator, Single Stage Electrostatic Precipitator	S-4285	6-302, 6-502	Opacity Monitor	20% Opacity Limitation for more than 3 minutes in any hour
			40 CFR 60 Subpart J 60.102(a) (2), 40 CFR 60 Subpart J 60.105(a) (1)	Opacity Monitor	30 % opacity, except for one 6 minute average opacity reading in 1 hour
			6-310		0.15 grain FP /dscf
			6-311		40 lb/hr particulate matter (PM)
			40 CFR 60 Subpart J 60.102(a) (1)		1.0 kg of PM per 1000 kg of coke burn off in catalyst generator
			Condition #11066 Item #3		92 TPY TSP
			Condition #11066 Item #7		21 lb TSP/hr, average of four source tests per calendar year
			Condition #11066 Item #15		Ammonia (NH <sub>3</sub> ) injection rate shall not exceed 500 lbs/hr
			Condition #11066 Item #7a4	Inlet temperature monitor and recorder	Minimum of 550 F ESP Inlet Temp. averaged over any one-hour period
			Condition #11066 Item #7a5, Condition #11066 Item #7a3	Monitor	Average secondary current of TR shall not be less than 200 milliamps averaged over any three hour period  or  No more than 2 TR sets may be less than 200 milliamps averaged over any three hour period, as long as the remaining TR sets maintain an average secondary current above 296 milliamps averaged over any three hour period
A-0020	Tail Gas Unit for 2100 Plant, #1 SRU Train, Absorption and Regeneration	S-4227 S-4192	9-1-307, 1-520	SO <sub>2</sub> CEM	250 ppmv SO <sub>2</sub> , dry, at 0% oxygen
A-0021	Tail Gas Unit for 2200 Plant, #2 SRU Train, Absorption and Regeneration	S-4228 S-4193	9-1-307, 1-520	SO <sub>2</sub> CEM	250 ppmv SO <sub>2</sub> , dry, at 0% oxygen

## II. Equipment

**Table II-B – Abatement Devices**

Abatement Device Number	Description	Sources(s) Controlled	Applicable Requirement	Operating Parameters	Limit or Efficiency
A-0022	Tail Gas Unit for 2300 Plant, #3 SRU Train, Absorption and Regeneration	S-4229 S-4194	9-1-307, 1-520	SO2 CEM	250 ppmv SO2, dry, at 0% oxygen
A-0037	Mist Eliminator Scrubber, Fibrous Packed Scrubber – Asphalt Loading Racks	S-4415	Condition #1331		10% maximum opacity
A-0043	Sulfur Tanks and Loading Racks Vent Water Scrubber, Venturi Scrubber	S-3141 S-3140 S-4396 S-3226			
A-0053	Packed Bed Inert Gas Wet Scrubber	S-4261			
A-0054	Wax Deoiler #2, Thermal Oxidizer, 10 MM Btu/hr TUH capacity, John Zink	S-4261	40 CFR 63 Part CC, Condition #16393, 8-1-110.3	Continuous temperature monitor	Minimum temperature of 1400 degrees F Nox: 0.2 lb/MMBtu CO: 0.80 lb/MMBtu Sox: 0.027 lb/MMBtu PM: 0.01 lb/MMBtu >98% (by weight) emissions reduction
A-0065	Hydrofinisher SCR Unit (HNHF, LNHF, Hot Oil Furnace), Unclassified Abatement Device	S-4330 S-4331 S-4332	Condition #469 [6.B], [3.A]	Continuous Nox and O2 Monitor	40 ppm Nox @ 3% O2, 8 hr average.
			9-10-301, Condition #469[3.A]	Nox CEMs	Refinery-wide emissions (excluding CO Boilers): 0.033 lbs Nox/ MMBtu
			9-10-303, Condition #469[3.A]	Nox CEMs	Federal interim emissions: Refinery-wide emissions (excluding CO Boilers): 0.20 lbs Nox/MMBTU
A-0066	TKC SCR Unit; Unclassified Abatement Device, (TKC Vac Furnace, LNC)	S-4333 S-4334 S-4335	Condition #469 [6.B], [3.A]	Continuous Nox and O2 Monitor	40 ppm Nox @ 3% O2, 8 hr average.
			9-10-301, Condition #469[3.A]	Nox CEMs	Refinery-wide emissions (excluding CO Boilers): 0.033 lbs Nox/ MMBTU
			9-10-303, Condition #469[3.A]	Nox CEMs	Federal interim emissions: Refinery-wide emissions (excluding CO Boilers): 0.20 lbs Nox/ MMBTU
A-0067	HNC Hydrocracker SCR Unit, Unclassified Abatement Device	S-4336 S-4337 S-4338 S-4339	Condition #469 [6.B], [3.A]	Continuous Nox and O2 Monitor	40 ppm Nox @ 3% O2, 8 hr average.
			9-10-301, Condition #469[3.A]	Nox CEMs	Refinery-wide emissions (excluding CO Boilers): 0.033 lbs Nox/ MMBTU



## II. Equipment

**Table II-B – Abatement Devices**

Abatement Device Number	Description	Sources(s) Controlled	Applicable Requirement	Operating Parameters	Limit or Efficiency
			9-10-303, Condition #469[3.A]	Nox CEMs	Federal interim emissions: Refinery-wide emissions (excluding CO Boilers): 0.20 lbs Nox/MMBTU
A-0070	Cogeneration Unit Train 1000 CO/HC Catalyst Unit, Unclassified Abatement Device	S-4350 S-4351	Condition #1162 Part 10, Part 11	Continuous CO monitors	CO reduced by 80%, NMHC reduced by 50%
A-0072	Cogeneration Unit Train 1000 SCR Unit; SCR Nox Reduction Catalyst, Unclassified Abatement Device	S-4350 S-4351	Condition #1162 Part 6	Continuous Nox monitor	Nox <10ppm @15% O2 – 3-hr average; except startup/ shutdown
			9-9-301.3, 9-9-501	Nox CEM	10.8 ppmv @15% O <sub>2</sub> (dry) adjusted from 9 ppm Nox limit to 10.8 ppm Nox limit because of thermal efficiency (9-9-401)
			9-9-301.3		25 ppmv @15% O <sub>2</sub> (dry) for non-gaseous fuel firing during natural gas curtailment or short testing periods
			NSPS Subpart Db, 60.44b (e) refers to 60.44b(a)4 for combined cycle system	Nox CEM, fuel gas flow meters, calorimeter on fuel gas	0.2 lb/MMBTu as a 30-day rolling average
			Condition #1162, Part 18		20 ppm NH <sub>3</sub>
A-0071	Cogeneration Unit Train 2000 CO/HC Catalyst Unit, Unclassified Abatement Device	S-4352 S-4353	Condition #1162, Parts 10, 11	Continuous CO monitors	CO reduced by 80%, NMHC reduced by 50%
A-0073	Cogeneration Unit Train 2000 SCR Unit; SCR Nox Reduction Catalyst, Unclassified Abatement Device	S-4352 S-4353	Condition #1162, Part 6	Continuous Nox monitor	Nox <10 ppm @15% O2 – 3-hr average; except startup/ shutdown
			9-9-301.3, 9-9-501	Nox CEM	10.8 ppmv <sup>4</sup> @15% O <sub>2</sub> (dry) adjusted from 9 ppm Nox limit to 10.8 ppm Nox limit because of thermal efficiency (9-9-401)
			9-9-301.3		25 ppmv @15% O <sub>2</sub> (dry) for non-gaseous fuel firing during natural gas curtailment or short testing periods

## II. Equipment

**Table II-B – Abatement Devices**

Abatement Device Number	Description	Sources(s) Controlled	Applicable Requirement	Operating Parameters	Limit or Efficiency
			NSPS Subpart Db, 60.44b (e) refers to 60.44b(a) for combined cycle system	Nox CEM, fuel gas flow meters, calorimeter on fuel gas	0.2 lb/MMBtu as a 30-day rolling average
			Condition #1162, Part 18		20 ppm NH3
A-0094	Therμοfor Kiln Stack Burner (S-4094), Direct Flame Afterburner, Stack Burner	S-4094 S-4265	8-1-110.3 and condition 20791	Minimum temperature and continuous temperature monitor and recorder	At least 90% destruction of organics
A-260	Hydrogen A-Train SCR Unit (Furnace F-305), Unclassified Abatement Device	S-4170	9-10-301	CEMs for both Nox and O2	Refinery-wide emissions (excluding CO Boilers): 0.033 lbs Nox/MMBtu
A-260	Hydrogen A-Train SCR Unit (Furnace F-305), Unclassified Abatement Device	S-4170	9-10-303	CEMs for both Nox and O2	Federal interim emissions: (excluding CO Boilers): 0.20 lbs Nox/MMBtu
A-0261	Scrubber for De-aerator Vent Methanol Abatement for Hydrogen Plant "A" Train, (V-311)	S-4250	Condition #15698, 8-2	Continuously monitor: Washwater Temperature, Vent Flow, Washwater Flow	Emission < 15 lbs C/day or < 300 ppm C dry, 3-hr average water temp <80F, 3-hr average vent flow <5 Klb/hr, 3-hr average water flow >30 gal/min, water/vent flow ratio >11.6
A-0262	Scrubber/Condenser for De-aerator Vent Methanol Abatement for Hydrogen Plant (S-4250) "B" Train (V-361)	S-4250	Condition #15698, 8-2	Continuously monitor: Washwater Temperature, Vent Flow, Washwater Flow	Emission < 15 lbs C/day or < 300 ppm C dry, 3-hr average water temp <80F, 3-hr average vent flow <5Klb/hr, 3-hr average water flow >30 gal/min, water/vent flow ratio >11.6
A-0414	#2 Dewax and #2 Deoiler Thermatrix Model ES60H, Thermal Oxidizer	S-4261 S-32103	Condition #8869	Continuous temperature monitor	Minimum temperature of 1400 degrees F, Minimum VOC destruction efficiency 95% by weight,
A-0607	Carbon Bed Feed Surge Tank Absorber Unit for S-0605 Tank (Alkane GWTU) (VOC Vapor Abatement D607 A/B), Activated Carbon/Charcoal Canisters	S-0605 S-0610	Condition #11193, 40 CFR 61 Subpart FF		Minimum VOC destruction removal efficiency 95% by concentration weight, or outlet < 500 ppmv organics, or minimum benzene destruction removal efficiency 98% by concentration weight, or 10 ppmv benzene

## II. Equipment

**Table II-B – Abatement Devices**

Abatement Device Number	Description	Sources(s) Controlled	Applicable Requirement	Operating Parameters	Limit or Efficiency
A-0611	Carbon Adsorber Unit, Activated Carbon Containers, D611 A/B	S-0610	Condition #11193, 40 CFR 61 Subpart FF		Minimum VOC destruction removal efficiency 95% by concentration weight, or outlet < 500 ppmv organics, or minimum benzene destruction removal efficiency 98% by concentration weight, or 10 ppmv benzene
A-0615	Carbon Canisters (2 in series)	S-0660 S-6066	Condition #11193, 40 CFR 61 Subpart FF		Minimum VOC removal destruction efficiency 95% by concentration weight, or outlet < 500 ppmv organics, or minimum benzene destruction removal efficiency 98% by concentration weight, or 10 ppmv benzene
A-0620	Thermatrix, Model ES60H, Thermal Oxidizer, LPG Racks	Pumps and compressor seals S-32103	Condition #8869	Continuous temperature monitor	Minimum temperature of 1400 degrees F, Minimum VOC destruction efficiency 95% by weight
A-0621	Thermatrix, Model ES60H, Thermal Oxidizer, LPG Racks	Pumps and compressor seals S-32103	Condition #8869	Continuous temperature monitor	Minimum temperature of 1400 degrees F, Minimum VOC destruction efficiency 95% by weight
A-0622	Thermatrix, Model ES60H, Thermal Oxidizer, Yard DIB	Pumps and compressor seals S-32103	Condition #8869	Continuous temperature monitor, Initial Source Test	Minimum temperature of 1400 degrees F, Minimum VOC destruction efficiency 95% by weight
A-0623	Thermatrix, Model ES60H, Thermal Oxidizer, 21 PS	Pumps and compressor seals S-32103	Condition #8869	Continuous temperature monitor	Minimum temperature of 1400 degrees F, Minimum VOC destruction efficiency 95% by weight
A-0624	Thermatrix, Model ES60H, Thermal Oxidizer, 17 PS	Pumps and compressor seals S-32103	Condition #8869	Continuous temperature monitor	Minimum temperature of 1400 degrees F, Minimum VOC destruction efficiency 95% by weight
A-0625	Thermatrix, Model ES60H, Thermal Oxidizer, 17 PS	Pumps and compressor seals S-32103	Condition #8869	Continuous temperature monitor	Minimum temperature of 1400 degrees F, Minimum VOC destruction efficiency 95% by weight

## II. Equipment

**Table II-B – Abatement Devices**

Abatement Device Number	Description	Sources(s) Controlled	Applicable Requirement	Operating Parameters	Limit or Efficiency
A-0627	Thermatrix, Model ES60H, Thermal Oxidizer, FCC Unit (backup)	Pumps and compressor seals S-32103	Condition #8869	Continuous temperature monitor	Minimum temperature of 1400 degrees F, Minimum VOC destruction efficiency 95% by weight
A-0628	Thermatrix, Model ES60H, Thermal Oxidizer, Alkylation Plant	Pumps and compressor seals S-32103	Condition #8869	Continuous temperature monitor	Minimum temperature of 1400 degrees F, Minimum VOC destruction efficiency 95% by weigh,
A-0630	DEBRU Carbon Abatement Containers for Spent Carbon Regeneration, Adsorption, Activated Carbon/Charcoal	S-6250	Condition #12842, 40 CFR 61 Subpart FF		Outlet stream VOC concentration of A-630 <10% of inlet stream organics concentration, 95% reduction of organics, or <500 ppmv at outlet, or minimum benzene destruction removal efficiency 98% by concentration weight, or 10 ppmv benzene [applies to A630/A631]
A-0631	DEBRU Carbon Abatement Containers for Spent Carbon Regeneration, Adsorption, Activated Carbon/Charcoal	S-6250	Condition #12842, 40 CFR 61 Subpart FF		Outlet stream VOC concentration of A-631 <10 ppmv methane, 95% reduction of organics, or <500 ppmv at outlet, or minimum benzene destruction removal efficiency 98% by concentration weight, or 10 ppmv benzene [applies to A630/A631]
A-0900	Emission Reduction Device (Thermal Oxidizer) – Marine Vapor Recovery	S-9321 S-9322 S-9323 S-9324 S-9325	Condition #4714, 8-44	Continuous temperature monitor	Incinerator exhaust temperature > 1200 degrees F, Minimum VOC destruction efficiency 95% by weight POC reduced by 95% or greater, or POC emissions < 2lb/1000 bbl loaded
A-919	#21 pump station carbon				
A-3146	Vent Gas scrubber for S-3146 (Tank 3146 – Ammonia Tank), Adsorption, Activated Carbon/Charcoal	S-3146			
A-3200	Abatement 4 Crude Unit Furnace 1100B – DEBRU (See S-4071 – F1100B 4Crude Furnace). [Note: the abatement device is the firebox of the process heater (F-1100B)]	S-3110, S-3111, S-3192 [A-3200 does not abate S-3200]	Condition #4650	Continuous temperature monitor	Minimum temperature of 1000 degrees F, At least 98.5% by weight VOC abatement, POC emissions <1 lb/day, benzene emissions < 0.04 lb/day

## II. Equipment

**Table II-B – Abatement Devices**

Abatement Device Number	Description	Sources(s) Controlled	Applicable Requirement	Operating Parameters	Limit or Efficiency
			8-18-110		95% control efficiency or greater
			40 CFR 61 Subpart FF	Continuous temperature monitor	Reduce organics by 95 wt % OR <20 ppmv organics dry basis, 3%O <sub>2</sub> or >0.5sec residence time at >1400F
A-4241	Mist Eliminator Scrubber, Fibrous Packed Scrubber – Asphalt Loading Racks (S-4241)	S-4240, S-4241	Regulation 6-301		20% maximum opacity
A-4422	Sandblaster Dust Collector, Shaking Baghouse for Abrasive Blasting at I&E Shop		Condition #5599		
A-4429	Temporary odor control scrubber	S-4429	Condition #20330	15 – 5% aqua-ammonia solution	Aqua-ammonia solution maintained between 15 – 5%
A-6010	High Level Flare, LSFO Refinery Waste Gas Flare, (Same as S-6010/A6010)	S-4233 S-4234 S-4235 S-4236 S-4237	8-1-110.3		At least 90% destruction of organics
A-6012	Refinery Waste Gas Flare, V-282, South Isomax Flare -; Same as S-6012	S-4250 S-4251 S-4348 S-4170 S-4171 S-4434 S-4429	8-1-110.3		At least 90% destruction of organics,
A-6013	North Isomax Flare V-281, Refinery Waste Gas Flare:, (Same as S-6013/A6013)	S-4252 S-4253	8-1-110.3		At least 90% destruction of organics
A-6015	Refinery Waste Gas Flare D&R, 3MMBtu/h	S-4233, S-4234, S-4235, S-4237, S-4282, S-4283 S-4435	8-1-110.3		At least 90% destruction of organics
A-6016	FCC Flare V-731, Refinery Waste Gas Flare: , Same as S-6016	S-4285	8-1-110.3		At least 90% destruction of organics
A-6017	Alkane Flare, Refinery Waste Gas Flare, same as S-6017	S-4286 S-4289 S-4290 S-4291	8-1-110.3		At least 90% destruction of organics
			8-18-110		95% control efficiency or greater
A-6018	Flare Relief Drum – V780 Poly Flare, FCC (Needs equivalent Source Number)	S-4291 S-4292	8-1-110.3		At least 90% destruction of organics
A-6019	Alky-Poly Flare, Refinery Waste Gas Flare, V-732A: ; Same as S-6019	S-4291 S-4292 S-4277 S-4228 S-4229 S-4286 S-4355	8-1-110.3		At least 90% destruction of organics
A-6020	K3950, Flare Gas Recovery Compressor System, Cooper/Penn. Unclassified Abatement Device	S-4233, S-4234, S-4235, S-4237, S-4282, S-4283 S-4435	8-18-110		95% control efficiency or greater

## II. Equipment

**Table II-B – Abatement Devices**

Abatement Device Number	Description	Sources(s) Controlled	Applicable Requirement	Operating Parameters	Limit or Efficiency
A-6039	V-3501; Lube RLOP Flare – Same as S-6039	S-4340 S-4341 S-4342 S-4343  S-4345 S-4346	8-1-110.3		At least 90% destruction of Organics
A-6046	Sandblaster Dust Collector, Simple Baghouse	S-6046			
A-6200	Two each Vapor Phase Carbon Canisters in Series for Baker/Poly Tanks, Activated Carbon/Charcoal	S-6200	Condition #10761		Control efficiency >99%, or <100 ppm outlet hydrocarbon concentration.  The first carbon container shall be removed when the hydrocarbon concentration at the second monitoring point is either: greater than 10% of the hydrocarbon concentration at the first monitoring point or greater than or equal to 1000 ppmv as C1. The second carbon container shall replace the first carbon container and a fresh carbon container shall be placed in the last container position.
A-6201	Two each Vapor Phase Carbon Canisters in Series for Baker/Poly Tanks, Activated Carbon/Charcoal	S-6201	Condition #10761		Control efficiency >99%, or <100 ppm outlet hydrocarbon concentration.  The first carbon container shall be removed when the hydrocarbon concentration at the second monitoring point is either: greater than 10% of the hydrocarbon concentration at the first monitoring point or greater than or equal to 1000 ppmv as C1. The second carbon container shall replace the first carbon container and a fresh carbon container shall be placed in the last container position.

## II. Equipment

**Table II-B – Abatement Devices**

Abatement Device Number	Description	Source(s) Controlled	Applicable Requirement	Operating Parameters	Limit or Efficiency
A-6202	Two each Vapor Phase Carbon Canisters in Series for Baker/Poly Tanks, Activated Carbon/Charcoal	S-6202	Condition #10761		<p>Control efficiency &gt;99%, or &lt;100 ppm outlet hydrocarbon concentration.</p> <p>The first carbon container shall be removed when the hydrocarbon concentration at the second monitoring point is either: greater than 10% of the hydrocarbon concentration at the first monitoring point or greater than or equal to 1000 ppmv as C1. The second carbon container shall replace the first carbon container and a fresh carbon container shall be placed in the last container position.</p>
A-6203	Two each Vapor Phase Carbon Canisters in Series for Baker/Poly Tanks, Activated Carbon/Charcoal	S-6203	Condition #10761		<p>Control efficiency &gt;99%, or &lt;100 ppm outlet hydrocarbon concentration.</p> <p>The first carbon container shall be removed when the hydrocarbon concentration at the second monitoring point is either: greater than 10% of the hydrocarbon concentration at the first monitoring point or greater than or equal to 1000 ppmv as C1. The second carbon container shall replace the first carbon container and a fresh carbon container shall be placed in the last container position.</p>

## II. Equipment

**Table II-B – Abatement Devices**

Abatement Device Number	Description	Sources(s) Controlled	Applicable Requirement	Operating Parameters	Limit or Efficiency
A-6204	Two each Vapor Phase Carbon Canisters in Series for Baker/Poly Tanks, Activated Carbon/Charcoal	S-6204	Condition #10761		<p>Control efficiency &gt;99%, or &lt;100 ppm outlet hydrocarbon concentration.</p> <p>The first carbon container shall be removed when the hydrocarbon concentration at the second monitoring point is either: greater than 10% of the hydrocarbon concentration at the first monitoring point or greater than or equal to 1000 ppmv as C1. The second carbon container shall replace the first carbon container and a fresh carbon container shall be placed in the last container position.</p>
A-6205	Two each Vapor Phase Carbon Canisters in Series for Baker/Poly Tanks, Activated Carbon/Charcoal	S-6205	Condition #10761		<p>Control efficiency &gt;99%, or &lt;100 ppm outlet hydrocarbon concentration.</p> <p>The first carbon container shall be removed when the hydrocarbon concentration at the second monitoring point is either: greater than 10% of the hydrocarbon concentration at the first monitoring point or greater than or equal to 1000 ppmv as C1. The second carbon container shall replace the first carbon container and a fresh carbon container shall be placed in the last container position.</p>



## II. Equipment

**Table II-B – Abatement Devices**

Abatement Device Number	Description	Sources(s) Controlled	Applicable Requirement	Operating Parameters	Limit or Efficiency
A-6206	Two each Vapor Phase Carbon Canisters in Series for Baker/Poly Tanks, Activated Carbon/Charcoal	S-6206	Condition #10761		<p>Control efficiency &gt;99%, or &lt;100 ppm outlet hydrocarbon concentration.</p> <p>The first carbon container shall be removed when the hydrocarbon concentration at the second monitoring point is either: greater than 10% of the hydrocarbon concentration at the first monitoring point or greater than or equal to 1000 ppmv as C1. The second carbon container shall replace the first carbon container and a fresh carbon container shall be placed in the last container position.</p>
A-6207	Two each Vapor Phase Carbon Canisters in Series for Baker/Poly Tanks, Activated Carbon/Charcoal	S-6207	Condition #10761		<p>Control efficiency &gt;99%, or &lt;100 ppm outlet hydrocarbon concentration.</p> <p>The first carbon container shall be removed when the hydrocarbon concentration at the second monitoring point is either: greater than 10% of the hydrocarbon concentration at the first monitoring point or greater than or equal to 1000 ppmv as C1. The second carbon container shall replace the first carbon container and a fresh carbon container shall be placed in the last container position.</p>

## II. Equipment

**Table II-B – Abatement Devices**

Abatement Device Number	Description	Sources(s) Controlled	Applicable Requirement	Operating Parameters	Limit or Efficiency
A-6208	Two each Vapor Phase Carbon Canisters in Series for Baker/Poly Tanks, Activated Carbon/Charcoal	S-6208	Condition #10761		<p>Control efficiency &gt;99%, or &lt;100 ppm outlet hydrocarbon concentration.</p> <p>The first carbon container shall be removed when the hydrocarbon concentration at the second monitoring point is either: greater than 10% of the hydrocarbon concentration at the first monitoring point or greater than or equal to 1000 ppmv as C1. The second carbon container shall replace the first carbon container and a fresh carbon container shall be placed in the last container position.</p>
A-6209	Two each Vapor Phase Carbon Canisters in Series for Baker/Poly Tanks, Activated Carbon/Charcoal	S-6209	Condition #10761		<p>Control efficiency &gt;99%, or &lt;100 ppm outlet hydrocarbon concentration.</p> <p>The first carbon container shall be removed when the hydrocarbon concentration at the second monitoring point is either: greater than 10% of the hydrocarbon concentration at the first monitoring point or greater than or equal to 1000 ppmv as C1. The second carbon container shall replace the first carbon container and a fresh carbon container shall be placed in the last container position.</p>

## II. Equipment

**Table II-B – Abatement Devices**

Abatement Device Number	Description	Sources(s) Controlled	Applicable Requirement	Operating Parameters	Limit or Efficiency
A-6210	Two each Vapor Phase Carbon Canisters in Series for Baker/Poly Tanks, Activated Carbon/Charcoal	S-6210	Condition #10761		<p>Control efficiency &gt;99%, or &lt;100 ppm outlet hydrocarbon concentration.</p> <p>The first carbon container shall be removed when the hydrocarbon concentration at the second monitoring point is either: greater than 10% of the hydrocarbon concentration at the first monitoring point or greater than or equal to 1000 ppmv as C1. The second carbon container shall replace the first carbon container and a fresh carbon container shall be placed in the last container position.</p>
A-6211	Two each Vapor Phase Carbon Canisters in Series for Baker/Poly Tanks, Activated Carbon/Charcoal	S-6211	Condition #10761		<p>Control efficiency &gt;99%, or &lt;100 ppm outlet hydrocarbon concentration.</p> <p>The first carbon container shall be removed when the hydrocarbon concentration at the second monitoring point is either: greater than 10% of the hydrocarbon concentration at the first monitoring point or greater than or equal to 1000 ppmv as C1. The second carbon container shall replace the first carbon container and a fresh carbon container shall be placed in the last container position.</p>

## II. Equipment

**Table II-B – Abatement Devices**

Abatement Device Number	Description	Source(s) Controlled	Applicable Requirement	Operating Parameters	Limit or Efficiency
A-6212	Two each Vapor Phase Carbon Canisters in Series for Baker/Poly Tanks, Activated Carbon/Charcoal	S-6212	Condition #10761		<p>Control efficiency &gt;99%, or &lt;100 ppm outlet hydrocarbon concentration.</p> <p>The first carbon container shall be removed when the hydrocarbon concentration at the second monitoring point is either: greater than 10% of the hydrocarbon concentration at the first monitoring point or greater than or equal to 1000 ppmv as C1. The second carbon container shall replace the first carbon container and a fresh carbon container shall be placed in the last container position.</p>
A-6213	Two each Vapor Phase Carbon Canisters in Series for Baker/Poly Tanks, Activated Carbon/Charcoal	S-6213	Condition #10761		<p>Control efficiency &gt;99%, or &lt;100 ppm outlet hydrocarbon concentration.</p> <p>The first carbon container shall be removed when the hydrocarbon concentration at the second monitoring point is either: greater than 10% of the hydrocarbon concentration at the first monitoring point or greater than or equal to 1000 ppmv as C1. The second carbon container shall replace the first carbon container and a fresh carbon container shall be placed in the last container position.</p>

## II. Equipment

**Table II-B – Abatement Devices**

Abatement Device Number	Description	Sources(s) Controlled	Applicable Requirement	Operating Parameters	Limit or Efficiency
A-6214	Two each Vapor Phase Carbon Canisters in Series for Baker/Poly Tanks, Activated Carbon/Charcoal	S-6214	Condition #10761		<p>Control efficiency &gt;99%, or &lt;100 ppm outlet hydrocarbon concentration.</p> <p>The first carbon container shall be removed when the hydrocarbon concentration at the second monitoring point is either: greater than 10% of the hydrocarbon concentration at the first monitoring point or greater than or equal to 1000 ppmv as C1. The second carbon container shall replace the first carbon container and a fresh carbon container shall be placed in the last container position.</p>
A-6215	Two each Vapor Phase Carbon Canisters in Series for Baker/Poly Tanks, Activated Carbon/Charcoal	S-6215	Condition #10761		<p>Control efficiency &gt;99%, or &lt;100 ppm outlet hydrocarbon concentration.</p> <p>The first carbon container shall be removed when the hydrocarbon concentration at the second monitoring point is either: greater than 10% of the hydrocarbon concentration at the first monitoring point or greater than or equal to 1000 ppmv as C1. The second carbon container shall replace the first carbon container and a fresh carbon container shall be placed in the last container position.</p>

## II. Equipment

**Table II-B – Abatement Devices**

Abatement Device Number	Description	Sources(s) Controlled	Applicable Requirement	Operating Parameters	Limit or Efficiency
A-6216	Two each Vapor Phase Carbon Canisters in Series for Baker/Poly Tanks, Activated Carbon/Charcoal	S-6216	Condition #10761		<p>Control efficiency &gt;99%, or &lt;100 ppm outlet hydrocarbon concentration.</p> <p>The first carbon container shall be removed when the hydrocarbon concentration at the second monitoring point is either: greater than 10% of the hydrocarbon concentration at the first monitoring point or greater than or equal to 1000 ppmv as C1. The second carbon container shall replace the first carbon container and a fresh carbon container shall be placed in the last container position.</p>
A-6217	Two each Vapor Phase Carbon Canisters in Series for Baker/Poly Tanks, Activated Carbon/Charcoal	S-6217	Condition #10761		<p>Control efficiency &gt;99%, or &lt;100 ppm outlet hydrocarbon concentration.</p> <p>The first carbon container shall be removed when the hydrocarbon concentration at the second monitoring point is either: greater than 10% of the hydrocarbon concentration at the first monitoring point or greater than or equal to 1000 ppmv as C1. The second carbon container shall replace the first carbon container and a fresh carbon container shall be placed in the last container position.</p>

## II. Equipment

**Table II-B – Abatement Devices**

Abatement Device Number	Description	Sources(s) Controlled	Applicable Requirement	Operating Parameters	Limit or Efficiency
A-6218	Two each Vapor Phase Carbon Canisters in Series for Baker/Poly Tanks, Activated Carbon/Charcoal	S-6218	Condition #10761		<p>Control efficiency &gt;99%, or &lt;100 ppm outlet hydrocarbon concentration.</p> <p>The first carbon container shall be removed when the hydrocarbon concentration at the second monitoring point is either: greater than 10% of the hydrocarbon concentration at the first monitoring point or greater than or equal to 1000 ppmv as C1. The second carbon container shall replace the first carbon container and a fresh carbon container shall be placed in the last container position.</p>
A-6219	Two each Vapor Phase Carbon Canisters in Series for Baker/Poly Tanks, Activated Carbon/Charcoal	S-6219	Condition #10761		<p>Control efficiency &gt;99%, or &lt;100 ppm outlet hydrocarbon concentration.</p> <p>The first carbon container shall be removed when the hydrocarbon concentration at the second monitoring point is either: greater than 10% of the hydrocarbon concentration at the first monitoring point or greater than or equal to 1000 ppmv as C1. The second carbon container shall replace the first carbon container and a fresh carbon container shall be placed in the last container position.</p>

## II. Equipment

**Table II-B – Abatement Devices**

Abatement Device Number	Description	Sources(s) Controlled	Applicable Requirement	Operating Parameters	Limit or Efficiency
A-6220	Two each Vapor Phase Carbon Canisters in Series for Baker/Poly Tanks, Activated Carbon/Charcoal	S-6220	Condition #10761		<p>Control efficiency &gt;99%, or &lt;100 ppm outlet hydrocarbon concentration.</p> <p>The first carbon container shall be removed when the hydrocarbon concentration at the second monitoring point is either: greater than 10% of the hydrocarbon concentration at the first monitoring point or greater than or equal to 1000 ppmv as C1. The second carbon container shall replace the first carbon container and a fresh carbon container shall be placed in the last container position.</p>
A-6221	Two each Vapor Phase Carbon Canisters in Series for Baker/Poly Tanks, Activated Carbon/Charcoal	S-6221	Condition #10761		<p>Control efficiency &gt;99%, or &lt;100 ppm outlet hydrocarbon concentration.</p> <p>The first carbon container shall be removed when the hydrocarbon concentration at the second monitoring point is either: greater than 10% of the hydrocarbon concentration at the first monitoring point or greater than or equal to 1000 ppmv as C1. The second carbon container shall replace the first carbon container and a fresh carbon container shall be placed in the last container position.</p>



## II. Equipment

**Table II-B – Abatement Devices**

Abatement Device Number	Description	Sources(s) Controlled	Applicable Requirement	Operating Parameters	Limit or Efficiency
A-6222	Two each Vapor Phase Carbon Canisters in Series for Baker/Poly Tanks, Activated Carbon/Charcoal	S-6222	Condition #10761		<p>Control efficiency &gt;99%, or &lt;100 ppm outlet hydrocarbon concentration.</p> <p>The first carbon container shall be removed when the hydrocarbon concentration at the second monitoring point is either: greater than 10% of the hydrocarbon concentration at the first monitoring point or greater than or equal to 1000 ppmv as C1. The second carbon container shall replace the first carbon container and a fresh carbon container shall be placed in the last container position.</p>
A-6223	Two each Vapor Phase Carbon Canisters in Series for Baker/Poly Tanks, Activated Carbon/Charcoal	S-6223	Condition #10761		<p>Control efficiency &gt;99%, or &lt;100 ppm outlet hydrocarbon concentration.</p> <p>The first carbon container shall be removed when the hydrocarbon concentration at the second monitoring point is either: greater than 10% of the hydrocarbon concentration at the first monitoring point or greater than or equal to 1000 ppmv as C1. The second carbon container shall replace the first carbon container and a fresh carbon container shall be placed in the last container position.</p>

## II. Equipment

**Table II-B – Abatement Devices**

Abatement Device Number	Description	Sources(s) Controlled	Applicable Requirement	Operating Parameters	Limit or Efficiency
A-6224	Two each Vapor Phase Carbon Canisters in Series for Baker/Poly Tanks, Activated Carbon/Charcoal	S-6224	Condition #10761		<p>Control efficiency &gt;99%, or &lt;100 ppm outlet hydrocarbon concentration.</p> <p>The first carbon container shall be removed when the hydrocarbon concentration at the second monitoring point is either: greater than 10% of the hydrocarbon concentration at the first monitoring point or greater than or equal to 1000 ppmv as C1. The second carbon container shall replace the first carbon container and a fresh carbon container shall be placed in the last container position.</p>
A-6225	Two each Vapor Phase Carbon Canisters in Series for Baker/Poly Tanks, Activated Carbon/Charcoal	S-6225	Condition #10761		<p>Control efficiency &gt;99%, or &lt;100 ppm outlet hydrocarbon concentration.</p> <p>The first carbon container shall be removed when the hydrocarbon concentration at the second monitoring point is either: greater than 10% of the hydrocarbon concentration at the first monitoring point or greater than or equal to 1000 ppmv as C1. The second carbon container shall replace the first carbon container and a fresh carbon container shall be placed in the last container position.</p>

## II. Equipment

**Table II-B – Abatement Devices**

Abatement Device Number	Description	Sources(s) Controlled	Applicable Requirement	Operating Parameters	Limit or Efficiency
A-6226	Two each Vapor Phase Carbon Canisters in Series for Baker/Poly Tanks, Activated Carbon/Charcoal	S-6226	Condition #10761		<p>Control efficiency &gt;99%, or &lt;100 ppm outlet hydrocarbon concentration.</p> <p>The first carbon container shall be removed when the hydrocarbon concentration at the second monitoring point is either: greater than 10% of the hydrocarbon concentration at the first monitoring point or greater than or equal to 1000 ppmv as C1. The second carbon container shall replace the first carbon container and a fresh carbon container shall be placed in the last container position.</p>
A-6227	Two each Vapor Phase Carbon Canisters in Series for Baker/Poly Tanks, Activated Carbon/Charcoal	S-6227	Condition #10761		<p>Control efficiency &gt;99%, or &lt;100 ppm outlet hydrocarbon concentration.</p> <p>The first carbon container shall be removed when the hydrocarbon concentration at the second monitoring point is either: greater than 10% of the hydrocarbon concentration at the first monitoring point or greater than or equal to 1000 ppmv as C1. The second carbon container shall replace the first carbon container and a fresh carbon container shall be placed in the last container position.</p>

## II. Equipment

**Table II-B – Abatement Devices**

Abatement Device Number	Description	Sources(s) Controlled	Applicable Requirement	Operating Parameters	Limit or Efficiency
A-6228	Two each Vapor Phase Carbon Canisters in Series for Baker/Poly Tanks, Activated Carbon/Charcoal	S-6228	Condition #10761		<p>Control efficiency &gt;99%, or &lt;100 ppm outlet hydrocarbon concentration.</p> <p>The first carbon container shall be removed when the hydrocarbon concentration at the second monitoring point is either: greater than 10% of the hydrocarbon concentration at the first monitoring point or greater than or equal to 1000 ppmv as C1. The second carbon container shall replace the first carbon container and a fresh carbon container shall be placed in the last container position.</p>
A-6229	Two each Vapor Phase Carbon Canisters in Series for Baker/Poly Tanks, Activated Carbon/Charcoal	S-6229	Condition #10761		<p>Control efficiency &gt;99%, or &lt;100 ppm outlet hydrocarbon concentration.</p> <p>The first carbon container shall be removed when the hydrocarbon concentration at the second monitoring point is either: greater than 10% of the hydrocarbon concentration at the first monitoring point or greater than or equal to 1000 ppmv as C1. The second carbon container shall replace the first carbon container and a fresh carbon container shall be placed in the last container position.</p>

## II. Equipment

**Table II-B – Abatement Devices**

Abatement Device Number	Description	Sources(s) Controlled	Applicable Requirement	Operating Parameters	Limit or Efficiency
A-6230	Two each Vapor Phase Carbon Canisters in Series for Baker/Poly Tanks, Activated Carbon/Charcoal	S-6230	Condition #10761		<p>Control efficiency &gt;99%, or &lt;100 ppm outlet hydrocarbon concentration.</p> <p>The first carbon container shall be removed when the hydrocarbon concentration at the second monitoring point is either: greater than 10% of the hydrocarbon concentration at the first monitoring point or greater than or equal to 1000 ppmv as C1. The second carbon container shall replace the first carbon container and a fresh carbon container shall be placed in the last container position.</p>
A-6231	Two each Vapor Phase Carbon Canisters in Series for Baker/Poly Tanks, Activated Carbon/Charcoal	S-6231	Condition #10761		<p>Control efficiency &gt;99%, or &lt;100 ppm outlet hydrocarbon concentration.</p> <p>The first carbon container shall be removed when the hydrocarbon concentration at the second monitoring point is either: greater than 10% of the hydrocarbon concentration at the first monitoring point or greater than or equal to 1000 ppmv as C1. The second carbon container shall replace the first carbon container and a fresh carbon container shall be placed in the last container position.</p>

## II. Equipment

**Table II-B – Abatement Devices**

Abatement Device Number	Description	Sources(s) Controlled	Applicable Requirement	Operating Parameters	Limit or Efficiency
A-6232	Two each Vapor Phase Carbon Canisters in Series for Baker/Poly Tanks, Activated Carbon/Charcoal	S-6232	Condition #10761		<p>Control efficiency &gt;99%, or &lt;100 ppm outlet hydrocarbon concentration.</p> <p>The first carbon container shall be removed when the hydrocarbon concentration at the second monitoring point is either: greater than 10% of the hydrocarbon concentration at the first monitoring point or greater than or equal to 1000 ppmv as C1. The second carbon container shall replace the first carbon container and a fresh carbon container shall be placed in the last container position.</p>
A-6233	Two each Vapor Phase Carbon Canisters in Series for Baker/Poly Tanks, Activated Carbon/Charcoal	S-6233	Condition #10761		<p>Control efficiency &gt;99%, or &lt;100 ppm outlet hydrocarbon concentration.</p> <p>The first carbon container shall be removed when the hydrocarbon concentration at the second monitoring point is either: greater than 10% of the hydrocarbon concentration at the first monitoring point or greater than or equal to 1000 ppmv as C1. The second carbon container shall replace the first carbon container and a fresh carbon container shall be placed in the last container position.</p>

## II. Equipment

**Table II-B – Abatement Devices**

Abatement Device Number	Description	Sources(s) Controlled	Applicable Requirement	Operating Parameters	Limit or Efficiency
A-6234	Two each Vapor Phase Carbon Canisters in Series for Baker/Poly Tanks, Activated Carbon/Charcoal	S-6234	Condition #10761		<p>Control efficiency &gt;99%, or &lt;100 ppm outlet hydrocarbon concentration.</p> <p>The first carbon container shall be removed when the hydrocarbon concentration at the second monitoring point is either: greater than 10% of the hydrocarbon concentration at the first monitoring point or greater than or equal to 1000 ppmv as C1. The second carbon container shall replace the first carbon container and a fresh carbon container shall be placed in the last container position.</p>
A-6235	Two each Vapor Phase Carbon Canisters in Series for Baker/Poly Tanks, Activated Carbon/Charcoal	S-6235	Condition #10761		<p>Control efficiency &gt;99%, or &lt;100 ppm outlet hydrocarbon concentration.</p> <p>The first carbon container shall be removed when the hydrocarbon concentration at the second monitoring point is either: greater than 10% of the hydrocarbon concentration at the first monitoring point or greater than or equal to 1000 ppmv as C1. The second carbon container shall replace the first carbon container and a fresh carbon container shall be placed in the last container position.</p>

## II. Equipment

**Table II-B – Abatement Devices**

Abatement Device Number	Description	Sources(s) Controlled	Applicable Requirement	Operating Parameters	Limit or Efficiency
A-6236	Two each Vapor Phase Carbon Canisters in Series for Baker/Poly Tanks, Activated Carbon/Charcoal	S-6236	Condition #10761		<p>Control efficiency &gt;99%, or &lt;100 ppm outlet hydrocarbon concentration.</p> <p>The first carbon container shall be removed when the hydrocarbon concentration at the second monitoring point is either: greater than 10% of the hydrocarbon concentration at the first monitoring point or greater than or equal to 1000 ppmv as C1. The second carbon container shall replace the first carbon container and a fresh carbon container shall be placed in the last container position.</p>
A-6237	Two each Vapor Phase Carbon Canisters in Series for Baker/Poly Tanks, Activated Carbon/Charcoal	S-6237	Condition #10761		<p>Control efficiency &gt;99%, or &lt;100 ppm outlet hydrocarbon concentration.</p> <p>The first carbon container shall be removed when the hydrocarbon concentration at the second monitoring point is either: greater than 10% of the hydrocarbon concentration at the first monitoring point or greater than or equal to 1000 ppmv as C1. The second carbon container shall replace the first carbon container and a fresh carbon container shall be placed in the last container position.</p>



## II. Equipment

**Table II-B – Abatement Devices**

Abatement Device Number	Description	Sources(s) Controlled	Applicable Requirement	Operating Parameters	Limit or Efficiency
A-6238	Two each Vapor Phase Carbon Canisters in Series for Baker/Poly Tanks, Activated Carbon/Charcoal	S-6238	Condition #10761		<p>Control efficiency &gt;99%, or &lt;100 ppm outlet hydrocarbon concentration.</p> <p>The first carbon container shall be removed when the hydrocarbon concentration at the second monitoring point is either: greater than 10% of the hydrocarbon concentration at the first monitoring point or greater than or equal to 1000 ppmv as C1. The second carbon container shall replace the first carbon container and a fresh carbon container shall be placed in the last container position.</p>
A-6239	Two each Vapor Phase Carbon Canisters in Series for Baker/Poly Tanks, Activated Carbon/Charcoal	S-6239	Condition #10761		<p>Control efficiency &gt;99%, or &lt;100 ppm outlet hydrocarbon concentration.</p> <p>The first carbon container shall be removed when the hydrocarbon concentration at the second monitoring point is either: greater than 10% of the hydrocarbon concentration at the first monitoring point or greater than or equal to 1000 ppmv as C1. The second carbon container shall replace the first carbon container and a fresh carbon container shall be placed in the last container position.</p>

## II. Equipment

Table II C – Exempt Equipment List

Table II C – Exempt Equipment List

Source Number	Source Code	Source Description	Proposed Annual Limit	Proposed Daily Limit	Units	Comments
-94	C8250189	Stack Burner	NA	NA		exempt
-73	G7043471	Selective Catalytic Reduction System	NA	NA		exempt
-72	G7043471	Selective Catalytic Reduction System	NA	NA		exempt
55	T81??315	Tank 55	NA	NA		exempt Reg 2-1-123.10
200	T441?201	TANK 200A	NA	NA		exempt Reg 2-1-123.2
204	T441?315	TANK 204	NA	NA		exempt Reg 2-1-123.3
223	T441?502	TANK 223	NA	NA		exempt Reg 2-1-123.2
225	T441?502	TANK 225	NA	NA		exempt Reg 2-1-123.2
234	T441?315	TANK 234	NA	NA		exempt 2-1-123.3.10 API
290	T441?315	TANK 290	NA	NA		exempt 2-1-123.3.3 DO
291	T441?315	TANK 291	NA	NA		exempt 2-1-123.3.3 DO
293	T441?318	TANK 293	NA	NA		exempt 2-1-123.3.10 API
319	T441?315	TANK 319	NA	NA		exempt 2-1-123.3.3 DO
397	T441?318	TANK 397	NA	NA		exempt 2-1-123.3.3 Lube
398	T54?2318	TANK 398	NA	NA		exempt 2-1-123.3.3 Lube
400	T5432318	TANK 400	NA	NA		Dismantled
401	T44??239	TANK 401	NA	NA		exempt 2-1-123.3.3 DO
501	T441?239	TANK 501	NA	NA		exempt 2-1-123.3.10 API
583	T441?318	TANK 583	NA	NA		exempt 2-1-123.3.3 WAX
596	T441?432	TANK 596	NA	NA		exempt 2-1-123.3.3 WAX
610	T81??318	Tank 610: Organic Liquid Storage Tank	NA	NA		No limit. Limited by source no. 6061

## II. Equipment

**Table II C – Exempt Equipment List**

Source Number	Source Code	Source Description	Proposed Annual Limit	Proposed Daily Limit	Units	Comments
660	T81??502	Tank 660: Organic Liquid Storage Tank	NA	NA		No limit. Limited by source no. 6061
750	T431?432	TANK 750	NA	NA		exempt 2-1-123.3.3 WAX
892	T42??502	Tank 892: Inorganic Chemical Storage	NA	NA		exempt 2-1-123.2 AqSol
893	T42??502	Tank 893: Water Storage Tank (No Organics)	NA	NA		exempt 2-1-123.2 AqSol
900	G5036502	Organic/Water Mixture Storage Tank	NA	NA		exempt 2-1-123.3.2 IBP
901	T42??416	Tank 901: Organic Liquid Storage Tank	NA	NA		exempt 2-1-123.3.3 Lube
902	T42??419	Tank 902: Organic Liquid Storage Tank	NA	NA		exempt 2-1-123.3.3 Lube
955	T5412052	TANK 955	NA	NA		exempt 2-1-123.3.2 IBP
956	T5412052	TANK 956	NA	NA		exempt 2-1-123.3.2 IBP
957	T44??158	Tank 957				
979	T44??315	TANK 979	NA	NA		exempt 2-1-123.3.3 DO
984	T441?315	TANK 984	NA	NA		exempt 2-1-123.3.3 DO
1020	T44??485	Tank 1020: Inorganic Chemical Storage Tank	NA	NA		exempt 2-1-123.2 AqSol
1052	T43??318	Tank 1052: Organic Liquid Storage Tank	NA	NA		exempt 2-1-123.3.3 Flash
1149	T441?239	TANK 1149	NA	NA		exempt 2-1-123.3.3 Lube
1292	T5412158	TANK 1292	NA	NA	BBL	exempt 2-1-123.3.2 IBP
1297	T63?2502	Tank 1297: Organic Storage Tank	NA	NA		exempt 2-1-123.3.2 IBP
1428	T5412239	TANK 1428	NA	NA		exempt 2-1-123.3.3 DO
1451	T5412239	TANK 1451	NA	NA		exempt 2-1-123.3.3 DO
1455	T441?318	TANK 1455	NA	NA		exempt 2-1-123.3.3 DO

## II. Equipment

**Table II C – Exempt Equipment List**

Source Number	Source Code	Source Description	Proposed Annual Limit	Proposed Daily Limit	Units	Comments
1456	T441?318	TANK 1456	NA	NA		exempt 2-1-123.3.3 DO
1468	T441?419	TANK 1468	NA	NA		exempt 2-1-123.3.3 Lube
1470	T441?432	TANK 1470	NA	NA		exempt 2-1-123.3.3 WAX
1491	T5432179	TANK 1491				
1492	T441?315	TANK 1492	NA	NA		exempt 2-1-123.3.3 DO
1493	T441?315	TANK 1493	NA	NA		exempt 2-1-123.3.3 DO
1506	T54?2315	TANK 1506	NA	NA		exempt 2-1-123.3.3 DO
1507	T44??392	Tank 910	NA	NA		exempt 2-1-123.3.10 API
1546	T441?158	TANK 1546	NA	NA		exempt 2-1-123.3.3 WAX
1622	T34??160	LPG Tank, # 1622	NA	NA		exempt 2-1-123.3.1 LPG
1623	T34??052	TANK 1623 (Spherical Pressure Tank)	NA	NA		exempt 2-1-123.3.1 LPG
1634	T6412158	TANK 1634 (JET A)	NA	NA		exempt 2-1-123.3.3 Jet
1636	T441?315	TANK 1636	NA	NA		exempt 2-1-123.3.3 DO
1679	T43??318	TANK 1679	NA	NA		exempt 2-1-123.3.3 Lube
1685	T441?315	TANK 1685	NA	NA		exempt 2-1-123.3.3 DO
1723	T441?432	TANK 1723	NA	NA		exempt 2-1-123.3.3 WAX
1724	T441?432	TANK 1724	NA	NA		exempt 2-1-123.3.3 WAX
1725	T441?432	TANK 1725	NA	NA		exempt 2-1-123.3.3 WAX
1821	G5999146	Tank 1821 Fresh Sulfuric Acid Tank	NA	NA		exempt 2-1-122 2.1 H2SO4

## II. Equipment

**Table II C – Exempt Equipment List**

Source Number	Source Code	Source Description	Proposed Annual Limit	Proposed Daily Limit	Units	Comments
1825	T42??201	Tank 1825	NA	NA		exempt 2-1-123.3.2 IBP
1828	T344?052	TANK 1828	NA	NA		exempt 2-1-123.3.1 LPG
1894	G5999217	Tank 1894: Phosphoric Acid Storage Tank	NA	NA		exempt 2-1-122 2.2 H3PO4
1899	T5412315	TANK 1899	NA	NA		exempt 2-1-123.3.3 DO
1910	T43??201	Tank 1910	NA	NA		exempt 2-1-123.3.2 IBP
1989	T441?419	TANK 1989	NA	NA		exempt 2-1-123.3.3 Lube
2520	T44??106	Wastewater/MEA Storage Tank	NA	NA		exempt 2-1-123.2 AqSol
2540	T44??664	Tank 2540: Organic Liquid Storage Tank	NA	NA		exempt 2-1-123.2 AqSol
2903	T42??416	Tank 903: Organic Liquid Storage Tank	NA	NA		exempt 2-1-123.3.3 Lube
3038	T34??052	TANK 3038 (Spherical Pressure Tank)	NA	NA		exempt 2-1-123.3.1 LPG
3050	T344?417	TANK 3050 SPHERE	NA	NA		exempt 2-1-123.3.1 LPG
3066	T344?052	TANK 3066	NA	NA		exempt 2-1-123.3.1 LPG
3067	T431?318	TANK 3067	NA	NA		exempt 2-1-123.3.3 WAX
3074	T54?2315	TANK 3074	NA	NA	BBL	exempt 2-1-123.3.3 DO
3132	T54?2315	Tank 3132	NA	NA		exempt 2-1-123.3.3 DO
3133	T5412158	TANK 3133	15,000,000	NA	BBL	Conditioned annual throughput, P/C # 15038
3134	T5412315	TANK 3134	10,000,000	NA	BBL	Conditioned annual throughput, P/C # 13859
3138	T5412394	TANK 3138	NA	NA		exempt 2-1-123.3.3 DO
3139	T5422394	TANK 3139	NA	NA		exempt 2-1-123.3.2 IBP

## II. Equipment

**Table II C – Exempt Equipment List**

Source Number	Source Code	Source Description	Proposed Annual Limit	Proposed Daily Limit	Units	Comments
3142	T441?239	TANK 3142	NA	NA		exempt 2-1-123.2 AqSol
3145	T3H3?052	TANK 3145, Sphere	NA	NA		exempt 2-1-123.3.1 LPG
3146	T44??201	Tank 3146: 20% Aqueous Ammonia	NA	NA		exempt 2-1-123.2 AqSol
3147	T64?2485	Tank 3147: Organic Liquid Storage Tank	NA	NA		exempt 2-1-123.2 AqSol
3148	T43??485	Tank 3148: Organic Liquid Storage Tank	NA	NA		exempt 2-1-123.2 AqSol
3157	T44??419	Lube Oil Tank	NA	NA		exempt 2-1-123.3.3 Lube
3158	T44??419	Lube Oil Tank	NA	NA		exempt 2-1-123.3.3 Lube
3159	T44??419	Lube Oil Tank	NA	NA		exempt 2-1-123.3.3 Lube
3160	T44??419	Tank 3160: Organic Liquid Storage Tank	NA	NA		exempt 2-1-123.3.3 Lube
3161	T44??419	Tank Lube Oil	NA	NA		exempt 2-1-123.3.3 Lube
3162	T44??419	Tank Lube Oil	NA	NA		exempt 2-1-123.3.3 Lube
3163	T44??419	Tank Lube Oil	NA	NA		exempt 2-1-123.3.3 Lube
3164	T44??419	Tank Lube Oil	NA	NA		exempt 2-1-123.3.3 Lube
3165	T44??419	Tank Lube Oil	NA	NA		exempt 2-1-123.3.3 Lube
3166	T44??419	Tank Lube Oil	NA	NA		exempt 2-1-123.3.3 Lube
3167	T44??419	Tank Lube Oil	NA	NA		exempt 2-1-123.3.3 Lube
3168	T44??419	Tank Lube Oil	NA	NA		exempt 2-1-123.3.3 Lube
3169	T44??419	organic liquid storage tank, lube oil products	NA	NA		exempt 2-1-123.3.3 Lube
3170	T44??419	Lube Oil Tank	NA	NA		exempt 2-1-123.3.3 Lube
3171	T44??419	Lube Oil Tank	NA	NA		exempt 2-1-123.3.3 Lube

## II. Equipment

**Table II C – Exempt Equipment List**

Source Number	Source Code	Source Description	Proposed Annual Limit	Proposed Daily Limit	Units	Comments
3172	T44??419	Lube Oil Tank	NA	NA		exempt 2-1-123.3.3 Lube
3179	T44??315	Tank 3179: Organic Liquid Storage Tank	NA	NA		exempt 2-1-123.3.3 DO
3182	T64??2419	Tank 3182: Organic Liquid Storage Tank	NA	NA		exempt 2-1-123.3.10 API
3186	T44??201	Gas Oil Tank	NA	NA		exempt 2-1-123.3.3 DO
3194	T54??2394	Storage Tank T-3194	NA	NA		exempt 2-1-123.3.10 API
3195	T54??315	T-3195 Waxy Heavy Neutral Storage Tank	NA	NA		exempt 2-1-123.3.3 DO
3204	T42??419	Tank 3204: Organic Liquid Storage Tank	NA	NA		exempt 2-1-123.3.3 Lube
3207	T34??416	Butane Sphere: Organic Liquid Storage Tank	NA	NA		exempt 2-1-123.3.1 NG
3208	T34??417	Propane Sphere: Organic Liquid Storage Tank	NA	NA		exempt 2-1-123.3.1 NG
3211	T34??416	Sphere	NA	NA		exempt 2-1-123.3.1 LPG
3212	T34??417	Sphere	NA	NA		exempt 2-1-123.3.1 LPG
3215	T54??2315	Tank 3215: Organic Liquid Storage Tank	NA	NA		exempt 2-1-123.3.2 IBP
3216	T44??315	Tank 3216: Organic Liquid Storage Tank	NA	NA		exempt 2-1-123.3.2 IBP
3310	T43??419	Tank 3310: Organic Liquid Storage Tank	NA	NA		exempt 2-1-123.3.3 Lube
3910	T34??160	LPG Tank; # 3910	NA	NA		exempt 2-1-123.3.1 LPG
3911	T34??160	LPG Tank, # 3911	NA	NA		exempt 2-1-123.3.1 LPG
4230	G7013419	LUBE OIL FILLING AT PACKAGE & GREASE PLANT	NA	NA		exempt 2-1-123.3.3
4239	T9812315	MAIN TANK CAR LOADING RACKS #4239	NA	NA	MBSL	ex 2-1-123.3.2 IBP
4240	T9811030	ASPHALT TANK TRUCK LOADING RACK	NA	NA	NA	ex 2-1-123.3.2 IBP

## II. Equipment

**Table II C – Exempt Equipment List**

Source Number	Source Code	Source Description	Proposed Annual Limit	Proposed Daily Limit	Units	Comments
4241	T9711030	ASPHALT TANK CAR LOADING RACKS 4241	NA	NA	NA	ex 2-1-123.3.2 IBP
4285	C573?080	FCC Plant				
4315	TB8?2041	POINT ORIENT WHARF	NA	NA	NA	Abandoned. Out of service
4391	G5033300	NO. 1 OXIDATION POND	NA	NA	MMGPD	Exempt 2-1-123.2
4392	G5033300	Wetland Marsh	NA	NA	MMGPD	Exempt 2-1-123.2
4400	G5995239	Wax Melt Vesel	NA	NA	BBL	exempt 2-2-123.3.3 WAX
4403	TE8?1052	Unrefined Wax Truck Loading Rack	NA	NA		exempt
4404	TE8?1052	Saturated Refined Wax Truck Loading Rack	NA	NA		exempt
4422	G4073473	Abrasive Blasting Operating at I&E Shop	NA	NA	NA	Exempt per Reg. 2-1-118.1
4423	G7131540	Pilot Remediation Process	NA	NA		exempt
4425	G7999146	H2 SO4 Sump	NA	NA		exempt
5101	T44??419	Tank-Marketing T-101	NA	NA		exempt 2-1-123.3.3 Lube
5103	T44??419	Tank-Marketing T-103	NA	NA		exempt 2-1-123.3.3 Lube
5105	T44??419	Tank-Marketing T-105	NA	NA		exempt 2-1-123.3.3 Lube
5107	T44??419	Tank-Marketing T-107	NA	NA		exempt 2-1-123.3.3 Lube
5108	T44??419	Tank-Marketing T-108	NA	NA		exempt 2-1-123.3.3 Lube
5109	T44??419	Tank-Marketing T-109	NA	NA		exempt 2-1-123.3.3 Lube
5110	T44??419	Tank-Marketing T-110	NA	NA		exempt 2-1-123.3.3 Lube
5112	T43??419	Tank-Marketing T-112	NA	NA		exempt 2-1-123.3.3 Lube
5113	T43??419	Tank-Marketing T-113	NA	NA		exempt 2-1-123.3.3 Lube
5115	T43??419	Tank-Marketing T-115	NA	NA		exempt 2-1-123.3.3 Lube
5117	T44??419	Tank-Marketing T-117	NA	NA		exempt 2-1-123.3.3 Lube
5118	T44??419	Tank-Marketing T-118	NA	NA		exempt 2-1-123.3.3 Lube



## II. Equipment

**Table II C – Exempt Equipment List**

Source Number	Source Code	Source Description	Proposed Annual Limit	Proposed Daily Limit	Units	Comments
5119	T44??419	Tank-Marketing T-119	NA	NA		exempt 2-1-123.3.3 Lube
5121	T44??419	Tank-Marketing T-121	NA	NA		exempt 2-1-123.3.3 Lube
5122	T44??419	Tank-Marketing T-122	NA	NA		exempt 2-1-123.3.3 Lube
5123	T44??419	Tank-Marketing T-123	NA	NA		exempt 2-1-123.3.3 Lube
5125	T43??419	Tank-Marketing T-125	NA	NA		exempt 2-1-123.3.3 Lube
5126	T43??419	Tank-Marketing T-126	NA	NA		exempt 2-1-123.3.3 Lube
5127	T43??419	Tank-Marketing T-127	NA	NA		exempt 2-1-123.3.3 Lube
5128	T43??419	Tank-Marketing T-128	NA	NA		exempt 2-1-123.3.3 Lube
5129	T43??419	Tank-Marketing T-129	NA	NA		exempt 2-1-123.3.3 Lube
5130	T43??419	Tank-Marketing T-130	NA	NA		exempt 2-1-123.3.3 Lube
5131	T43??419	Tank-Marketing T-131	NA	NA		exempt 2-1-123.3.3 Lube
5132	T43??419	Tank-Marketing T-132	NA	NA		exempt 2-1-123.3.3 Lube
5133	T43??419	Tank-Marketing T-133	NA	NA		exempt 2-1-123.3.3 Lube
5134	T43??419	Tank-Marketing T-134	NA	NA		exempt 2-1-123.3.3 Lube
5135	T43??419	Tank-Marketing T-135	NA	NA		exempt 2-1-123.3.3 Lube
5136	T43??419	Tank-Marketing T-136	NA	NA		exempt 2-1-123.3.3 Lube
5137	T43??419	Tank-Marketing T-137	NA	NA		exempt 2-1-123.3.3 Lube
5138	T43??419	Tank-Marketing T-138	NA	NA		exempt 2-1-123.3.3 Lube
5139	T43??419	Tank-Marketing T-139	NA	NA		exempt 2-1-123.3.3 Lube
5140	T43??419	Tank-Marketing T-140	NA	NA		exempt 2-1-123.3.3 Lube

## II. Equipment

**Table II C – Exempt Equipment List**

Source Number	Source Code	Source Description	Proposed Annual Limit	Proposed Daily Limit	Units	Comments
5201	T44??419	Tank-Marketing T-201	NA	NA		exempt 2-1-123.3.3 Lube
5202	T44??419	Tank-Marketing T-202	NA	NA		exempt 2-1-123.3.3 Lube
5203	T44??419	Tank-Marketing T-203	NA	NA		exempt 2-1-123.3.3 Lube
5204	T44??419	Tank-Marketing T-204	NA	NA		exempt 2-1-123.3.3 Lube
5205	T44??419	Tank-Marketing T-205	NA	NA		exempt 2-1-123.3.3 Lube
5206	T44??419	Tank-Marketing T-5206	NA	NA		exempt 2-1-123.3.3 Lube
5207	T44??419	Tank-Marketing T-207	NA	NA		exempt 2-1-123.3.3 Lube
5208	T44??419	Tank-Marketing T-208	NA	NA		exempt 2-1-123.3.3 Lube
5209	T44??419	Tank-Marketing T-209	NA	NA		exempt 2-1-123.3.3 Lube
5210	T44??419	Tank-Marketing T-210	NA	NA		exempt 2-1-123.3.3 Lube
5211	T44??419	Tank-Marketing T-211	NA	NA		exempt 2-1-123.3.3 Lube
5212	T44??419	Tank-Marketing T-212	NA	NA		exempt 2-1-123.3.3 Lube
5213	T44??419	Tank-Marketing T-213	NA	NA		exempt 2-1-123.3.3 Lube
5214	T44??419	Tank-Marketing T-214	NA	NA		exempt 2-1-123.3.3 Lube
5215	T44??419	Tank-Marketing T-215	NA	NA		exempt 2-1-123.3.3 Lube
5216	T43??419	Tank-Marketing T-216	NA	NA		exempt 2-1-123.3.3 Lube
5217	T43??419	Tank-Marketing T-217	NA	NA		exempt 2-1-123.3.3 Lube
5218	T43??419	Tank-Marketing T-218	NA	NA		exempt 2-1-123.3.3 Lube
5219	T43??419	Tank-Marketing T-219	NA	NA		exempt 2-1-123.3.3 Lube
5220	T43??419	Tank-Marketing T-220	NA	NA		exempt 2-1-123.3.3 Lube

## II. Equipment

**Table II C – Exempt Equipment List**

Source Number	Source Code	Source Description	Proposed Annual Limit	Proposed Daily Limit	Units	Comments
5221	T43??419	Tank-Marketing T-221	NA	NA		exempt 2-1-123.3.3 Lube
5222	T43??419	Tank-Marketing T-222	NA	NA		exempt 2-1-123.3.3 Lube
5223	T43??419	Tank-Marketing T-223	NA	NA		exempt 2-1-123.3.3 Lube
5224	T43??419	Tank-Marketing T-224	NA	NA		exempt 2-1-123.3.3 Lube
5227	T43??419	Tank-Marketing T-227	NA	NA		exempt 2-1-123.3.3 Lube
5228	T43??419	Tank-Marketing T-228	NA	NA		exempt 2-1-123.3.3 Lube
5229	T44??419	Tank-Marketing T-229	NA	NA		exempt 2-1-123.3.3 Lube
5230	T43??419	Tank-Marketing T-230	NA	NA		exempt 2-1-123.3.3 Lube
5232	T43??419	Tank-Marketing T-232	NA	NA		exempt 2-1-123.3.3 Lube
5233	T43??419	Tank-Marketing T-233	NA	NA		exempt 2-1-123.3.3 Lube
5234	T43??419	Tank-Marketing T-234	NA	NA		exempt 2-1-123.3.3 Lube
5237	T43??419	Tank-Marketing T-237	NA	NA		exempt 2-1-123.3.3 Lube
5240	T43??419	Tank-Marketing T-240	NA	NA		exempt 2-1-123.3.3 Lube
5241	T43??419	Tank-Marketing T-241	NA	NA		exempt 2-1-123.3.3 Lube
5301	T43??419	Tank-Marketing T-301	NA	NA		exempt 2-1-123.3.3 Lube
5302	T43??419	Tank-Marketing T-302	NA	NA		exempt 2-1-123.3.3 Lube
5303	T43??419	Tank-Marketing T-303	NA	NA		exempt 2-1-123.3.3 Lube
5304	T43??419	Tank-Marketing T-304	NA	NA		exempt 2-1-123.3.3 Lube
5305	T43??419	Tank-Marketing T-305	NA	NA		exempt 2-1-123.3.3 Lube
5306	T43??419	Tank-Marketing T-306	NA	NA		exempt 2-1-123.3.3 Lube

## II. Equipment

**Table II C – Exempt Equipment List**

Source Number	Source Code	Source Description	Proposed Annual Limit	Proposed Daily Limit	Units	Comments
5307	T43??419	Tank-Marketing T-307	NA	NA		exempt 2-1-123.3.3 Lube
5308	T43??419	Tank-Marketing T-308	NA	NA		exempt 2-1-123.3.3 Lube
5309	T43??419	Tank 5309: Organic Liquid Storage Tank	NA	NA		exempt 2-1-123.3.3 Lube
5315	T43??419	Tank 5315: Organic Liquid Storage Tank	NA	NA		exempt 2-1-123.3.3 Lube
5603	T43??419	Tank-Marketing T-603	NA	NA		exempt 2-1-123.3.3 Lube
6005	C8400189	THERMAL FLARE, F-1001	NA	NA		Dismantled.
6005	C8400708	THERMAL FLARE, F-1001				
6042	G7109473	Sandblaster at Machine Shop	NA	NA		Exempt per Reg. 2-1-118.1
6043	G7109474	Gritblaster at Machine Shop	NA	NA		Exempt per Reg. 2-1-121.1
6045	G7109473	Sandblaster at Boiler Shop	NA	NA		Exempt per Reg. 2-1-118.1
6046	G7109473	Sandblaster at Machine Shop	NA	NA		Exempt per Reg. 2-1-118.1
6047	G7109473	Sandblaster at Machine Shop	NA	NA		Exempt per Reg. 2-1-118.1
6065	G5995502	Bay Area Pipeline Groundwater Treatment Facility	NA	NA	MBBL	Dismantled.
7000	G7013022	Anhydrous Ammonia Loading/Unloading	NA	NA		exempt 2-1-123.3.1 NH3
7001	G7014022	Anhydrous Ammonia Pressurized Vessel	NA	NA		exempt 2-1-123.3.1 NH3
7002	G7014022	Anhydrous Ammonia Pressurized Vessel	NA	NA		exempt 2-1-123.3.1 NH3
7003	G7014022	Anhydrous Ammonia Pressurized Vessel	NA	NA		exempt 2-1-123.3.1 NH3
9047	T42??201	Tank 6047	NA	NA		exempt 2-1-123.1 <260 gals
9203	T43??090	Tank 3203: Organic Liquid Storage Tank (GST-46)	NA	NA		exempt 2-1-123.3.2 IBP
9205	T43??419	Tank 3205: Organic Liquid Storage Tank (Delo 100)	NA	NA		exempt 2-1-123.3.2 IBP
9300	SF01A318	Graymills Cold Cleaner	NA	NA		exempt 2-1-118.7
<b>9324</b>	<b>TB8??242</b>	<b>Marine Loading Berth #4</b>	<b>146,628 (sum)</b>	<b>68</b>	<b>M BBL</b>	<b>See Appendix 11.6 and</b>

## II. Equipment

**Table II C – Exempt Equipment List**

Source Number	Source Code	Source Description	Proposed Annual Limit	Proposed Daily Limit	Units	Comments
			<i>of 9321 through 9326)</i>			<i>15.1</i>
32100	G9030000	Fugitive Sources – Vacuum Producing Systems	NA	NA		Exempt per PTO
32101	G9040000	Fugitive Sources – Process Vessel Depressurization	NA	NA		Exempt per PTO
32102	G9050000	Fugitive Sources – Valves and Flanges	NA	NA		Exempt per PTO
32103	G9060000	Fugitive Sources – Pumps & Compressor Seals	NA	NA		Exempt per PTO
32104	G9070000	Fugitive Sources – Pressure Relief Valves	NA	NA		Exempt per PTO
32105	G9080000	Fugitive Sources – Process Drains	NA	NA		Exempt per PTO
32110	G9010000	Process Gas (Combustion) Emissions from Flares and	NA	NA		Exempt per PTO

### III. GENERALLY APPLICABLE REQUIREMENTS

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

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

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

The full language of SIP requirements is on EPA Region 9's website. The address is included at the end of this permit.

**NOTE:**

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

**Table III – Generally Applicable Requirements**

**Table III – Generally Applicable Requirements**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)
<b>BAAQMD Regulation 1</b>	<b>General Provisions and Definitions (5/2/01)</b>	N
1-301	Public Nuisance (5/2/90)	N
1-400	Administrative Requirements (10/21/92)	Y
<b>SIP Regulation 1</b>	<b>General Provisions and Definitions (6/28/99)</b>	<b>Y</b>
<b>BAAQMD Regulation 2, Rule 1</b>	<b>General Requirements (8/1/01)</b>	N
2-1-429	Federal Emissions Statement (6/7/95)	N
<b>BAAQMD Regulation 2, Rule 2</b>	<b>Permits, New Source Review (5/17/00)</b>	N
<b>SIP BAAQMD Regulation 2, Rule 3</b>	<b>Permits, Power Plants (3/19/82)</b>	<b>Y</b>
<b>BAAQMD Regulation 2, Rule 4</b>	<b>Permits, Emissions Banking (05/17/00)</b>	<b>Y</b>
<b>BAAQMD Regulation 2, Rule 6</b>	<b>Major Facility Review (05/02/01)</b>	<b>Y</b>
<b>BAAQMD Regulation 2, Rule 9</b>	<b>Permits, Interchangeable Emissions Reduction Credits (04/07/99)</b>	N
<b>BAAQMD Regulation 3</b>	<b>Fees (6/5/02)</b>	N
<b>BAAQMD Regulation 4</b>	<b>Air Pollution Episode Plan (3/20/91)</b>	N
<b>SIP Regulation 4</b>	<b>Air Pollution Episode Plan (8/6/90)</b>	<b>Y</b>

### III. Generally Applicable Requirements

**Table III – Generally Applicable Requirements**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)
BAAQMD Regulation 5	Open Burning (3/6/02)	N
SIP Regulation 5	Open Burning (9/4/98)	Y
BAAQMD Regulation 6	Particulate Matter and Visible Emissions (9/4/98)	Y
6-301	Ringelmann No. 1 Limitation	Y
6-303	Ringelmann No. 2 Limitation	Y
6-305	Visible Particles	Y
6-310	Particulate Weight Limitation	Y
6-311	General Operations	Y
6-401	Appearance of Emissions	Y
BAAQMD Regulation 7	Odorous Substances (3/17/82)	N
BAAQMD Regulation 8, Rule 1	Organic Compounds, General Provisions (6/15/94)	Y
BAAQMD Regulation 8, Rule 2	Organic Compounds, Miscellaneous Operations (6/15/94)	Y
SIP BAAQMD Regulation 8, Rule 3	Organic Compounds, Architectural Coatings (2/18/98)	Y
BAAQMD Regulation 8, Rule 3	Organic Compounds, Architectural Coatings (11/21/01)	N
SIP BAAQMD Regulation 8, Rule 4	General Solvent and Surface Coating Operations (12/23/97)	Y
BAAQMD Regulation 8, Rule 4	General Solvent and Surface Coating Operations (10/16/02)	N
BAAQMD Regulation 8, Rule 5	Organic Compounds, Storage of Organic Liquids (11/27/02)	N
SIP BAAQMD Regulation 8, Rule 5	Organic Compounds, Storage of Organic Liquids (12/15/99)	Y
BAAQMD Regulation 8, Rule 9	Organic Compounds, Vacuum Producing Systems (07/20/83)	Y
BAAQMD Regulation 8, Rule 10	Organic Compounds, Process Vessel Depressurization (7/20/83)	Y
8-10-401	Turnaround Records	Y
BAAQMD Regulation 8, Rule 18	Organic Compounds, Equipment Leaks (1/7/98)	Y
BAAQMD Regulation 8, Rule 28	Organic Compounds, Episodic Releases From Pressure Relief Devices at Petroleum Refineries and Chemical Plants (3/18/98)	N
SIP BAAQMD Regulation 8, Rule 28	Organic Compounds, Pressure Relief Valves at Petroleum Refineries and Chemical Plants (12/9/94)	Y
BAAQMD Regulation 8, Rule 49	Organic Compounds, Aerosol Paint Products (12/20/95)	N
SIP BAAQMD Regulation 8, Rule 49	Organic Compounds, Aerosol Paint Products (3/22/95)	Y
SIP BAAQMD Regulation 8, Rule 51	Organic Compounds, Adhesive and Sealant Products (2/26/02)	Y
BAAQMD Regulation 8, Rule 51	Organic Compounds, Adhesive and Sealant Products (7/17/02)	N
BAAQMD Regulation 10	NSPS Incorporation by Reference, General Provisions (2/16/00)	N

### III. Generally Applicable Requirements

**Table III – Generally Applicable Requirements**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)
BAAQMD Regulation 11, Rule 2	Hazardous Pollutants, Asbestos Demolition/Renovation and Manufacturing (10/7/98)	N
BAAQMD Regulation 11, Rule 12	NESHAP Incorporation by Reference, 40 CFR 61 Subpart FF Benzene Waste (1/5/94)	N
SIP BAAQMD Regulation 12, Rule 4	Miscellaneous Standards of Performance Sandblasting (9/2/81)	Y
BAAQMD Regulation 12, Rule 4	Miscellaneous Standards of Performance Sandblasting (7/11/90)	N
12-4-303	Performance Standards for Abrasive Blasting For Traffic Markers	Y
12-4-304	Performance Standards for Other Abrasive Blasting (7/11/90)	N
12-4-305	Performance Standards for Abrasives	Y
12-4-306	Certification of Abrasives	Y
12-4-308	Facility Blasting Operations (7/11/90)	N
SIP Regulation 12, Rule 4	Provisions No Longer in Current Rule Miscellaneous Standards of Performance Sandblasting (9/2/81)	Y
12-4-301	Ringelmann No. 1 Limitation	Y
12-4-304	Performance Standards for Other Abrasive Blasting	Y
CAC Title 17	State Provisions for Sandblasting	N
NESHAP Title 40 Part 61 Subpart M	NESHAP, Asbestos (11/20/90)	Y
Title 40 Part 68	Chemical Accident Prevention Provisions (1/31/94)	Y
Title 40 Part 82 Subpart F	CFC Recycling and Emissions Reduction (5/14/93)	Y
40 CFR 82 Subpart F 82.156	Recycling and Emissions Reductions – Required Practices (8/8/95)	Y
40 CFR 82 Subpart F 82.161	Recycling and Emissions Reductions – Technician Certification (11/9/94)	Y
40 CFR 82 Subpart F 82.166	Recycling and Emissions Reductions – Reporting and Record Keeping Provisions (8/8/95)	Y



#### IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

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

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

63.  BAAQMD regulation(s): The date(s) of adoption or most recent amendment of the regulation by the District Board

63.  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 included in Appendix A of this permit if the SIP requirements are different from the current BAAQMD requirements. All other text may be found in the regulations themselves.

**Table IV. Abatement**  
**Source-specific Applicable Requirements**  
**Abatement**  
**A-0414, A-0620, A-0622, A-0623, A-0624, A-0627, A-0628**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<b>BAAQMD Condition 8869</b>			
Part 1	95% destruction efficiency and minimum temperature of 1400F	Y	
Part 2	Temperature and flow monitor	Y	
Part 3	Record keeping	Y	
<b>40 CFR</b>	General Provisions	Y	
<b>Part 60</b>			
Subpart A			
60.13(i)	Alternative monitoring provisions	Y	
60.18	General control device requirements	Y	
<b>NSPS</b>	Standards of Performance for Petroleum Refineries (7/1/00)		
40 CFR 60 Subpart J			
<b>60.104</b>	<b>Standards for Sulfur Oxides: Compliance Schedule</b>	<b>Y</b>	
<b>60.104(a)(1)</b>	<b>Fuel gas H2S concentration limited to 230 mg/dscm (0.10 gr/dscf) except for gas burned as a result of process upset or gas burned at</b>	<b>Y</b>	

**IV. Source-Specific Applicable Requirements**

**Table IV.Abatement**  
**Source-specific Applicable Requirements**  
**Abatement**  
**A-0414, A-0620, A-0622, A-0623, A-0624, A-0627, A-0628**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	flares from relief valve leaks or other emergency malfunctions		

**Table IV.A.1.1 Combustion (Cogeneration))**

**Table IV.A.1.1 Combustion**  
**Source-specific Applicable Requirements**  
**Cogeneration**

**S-4350 Gas Turbine with Steam Injection Cogeneration Train 1000 and S-4351 Heat Recovery Steam Generation Train 1000 abated by A-0070 CO/HC Catalyst and A-0072 SCR Nox Reduction Catalyst, S-4352 Gas Turbine with Steam Injection Cogeneration Train 2000 and S-4353 Heat Recovery Steam Generation Train 2000 abated by A-0071 CO/HC Catalyst and A-0073 SCR Nox Reduction Catalyst**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<b>BAAQMD Regulation 1</b>	<b>General Provisions and Definitions (5/2/01)</b>		
1-107	Commingle Exhaust: Standard applies to System	Y	
1-520	Continuous Emission Monitoring	Y	
1-520.8	Monitors pursuant to Regulation 2-1-403	Y	
1-521	Monitoring May Be required	Y	
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	N	
1-602	Area and Continuous Monitoring Requirements	N	
<b>SIP Regulation 1</b>	<b>PROVISIONS NO LONGER IN CURRENT RULE</b> <b>General Provisions and Definitions (6/28/99 {adopted 10/7/98})</b>		
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	Y	
<b>BAAQMD Regulation 2 Rule 1</b>	<b>Regulation 2, Rule 1 – Permits, General Requirements (5/2/01; SIP approved 1/26/99 {adopted 11/1/89})</b> <b>[Applicable if Subject to CEM Monitoring by permit condition (BACT)]</b>		
2-1-403	Permit conditions-measurement of emissions	N	
2-1-501	Monitors	Y	
<b>SIP Regulation 2, Rule 1</b>	<b>PROVISIONS NO LONGER IN CURRENT RULE</b> <b>Permits, General Requirements (1/26/99 {adopted 11/01/89}) [Applicable if Subject to CEM Monitoring by permit condition (BACT)]</b>		
2-1-403	Permit conditions-measurement of emissions	Y	

#### IV. Source-Specific Applicable Requirements

**Table IV.A.1.1 Combustion  
 Source-specific Applicable Requirements  
 Cogeneration**

**S-4350 Gas Turbine with Steam Injection Cogeneration Train 1000 and S-4351 Heat Recovery Steam Generation Train 1000 abated by A-0070 CO/HC Catalyst and A-0072 SCR Nox Reduction Catalyst, S-4352 Gas Turbine with Steam Injection Cogeneration Train 2000 and S-4353 Heat Recovery Steam Generation Train 2000 abated by A-0071 CO/HC Catalyst and A-0073 SCR Nox Reduction Catalyst**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<b>BAAQMD Manual of Procedures, Volume V</b>	<b>Continuous Emission Monitoring Policy and Procedures (1/20/82)</b>	Y	
<b>BAAQMD Regulation 6</b>	<b>Particulate Matter and Visible Emissions (12/19/90)</b>		
6-301	Ringelmann No. 1 Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particle Weight Limitation	Y	
6-310.3	Heat Transfer Operation	Y	
<b>BAAQMD Regulation 9 Rule 1</b>	<b>Inorganic Gaseous Pollutants – Sulfur Dioxide (3/15/95; SIP approved 6/9/99 {version adopted 5/20/92})</b>		
9-1-304	Fuel Burning (Liquid and Solid Fuels)	Y	
<b>BAAQMD Regulation 9 Rule 9</b>	<b>Inorganic Gaseous Pollutants – Nitrogen Oxides from Stationary Gas Turbines (9/21/94)</b>	<b>BAAQMD Regulation 9 Rule 9</b>	<b>Inorganic Gaseous Pollutants – Nitrogen Oxides from Stationary Gas Turbines (9/21/94)</b>
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	
<b>BAAQMD Regulation 9 Rule 10</b>	<b>Inorganic Gaseous Pollutants – Nitrogen Oxides and Carbon Monoxide from Boilers, Steam Generators, and Process Heaters in Petroleum Refineries (1/5/94)</b>		
9-10-110.3	Exemption: Waste heat recovery boilers associated with gas turbines	Y	
<b>NSPS 40 CFR 60 Subpart GG</b>	<b>Standards of Performance for Stationary Gas Turbines (1/27/82)</b>		
60.333	Performance Standards, SO2	Y	
60.333 (a)	SO2 Volumetric Emission Limit [option] or	Y	
60.333 (b)	Fuel Sulfur Limit [option]	Y	
60.334	Monitoring Requirements	Y	

#### IV. Source-Specific Applicable Requirements

**Table IV.A.1.1 Combustion  
 Source-specific Applicable Requirements  
 Cogeneration**

**S-4350 Gas Turbine with Steam Injection Cogeneration Train 1000 and S-4351 Heat Recovery Steam Generation Train 1000 abated by A-0070 CO/HC Catalyst and A-0072 SCR Nox Reduction Catalyst, S-4352 Gas Turbine with Steam Injection Cogeneration Train 2000 and S-4353 Heat Recovery Steam Generation Train 2000 abated by A-0071 CO/HC Catalyst and A-0073 SCR Nox Reduction Catalyst**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.334 (h,i)	Monitoring and Frequency	Y	
<b>NSPS 40 CFR 60 Subpart Db</b>	<b>Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units [applies for our Duct Burners (i.e., Heat Recovery Steam Generator's=HRSG's S-4351 and S-4352)</b>		
60.44b(a)(4)	Duct burner used in combined cycle system	Y	
60.44b (e)	Standard for Nitrogen Oxides	Y	
60.44b (h)	Nox Limit	Y	
60.44b (l)	Nox Limit, 30-Day Rolling Average	Y	
60.48b (h)	Not subject to requirement to install or operate Nox CEM	Y	
60.49b (a)	Notification	Y	
60.49b (d)	Records of fuel combusted	Y	
60.49b (g)	Maintain Records	Y	
60.49b (o)	Maintain Records	Y	
Condition #469	Refinery Cap (RLOP Cap Monthly Compliance Report)	Y	
<b>Condition #1162</b>	<b>Permit condition parts are listed below:</b>		
Part 1	Natural gas or LPG only (applies to S-4350 and S-4352)	Y	
Part 2	Refinery fuel gas or natural gas only (applies to S-4351 and S-4353)	Y	
Part 3	Diesel fuel < 864 gas-turbine hours/yr (applies to S-4350 and S-4352)	Y	
Part 4	Not operate when turbine not operating (applies to S-4351 and S-4353)	Y	
Part 5	Max design capacity (applies to S-4350, S-4351, S-4352, S-4353)	Y	
Part 6	Nox < 10 ppm (applies to S-4350, S-4351, S-4352, S-4352, A0072, A0073)	Y	
Part 8	Monitor fuel & steam (applies to S-4350, S-4351, S-4352, S-4353)	Y	
Part 9	Diesel S < 0.05% (applies to S-4350 and S-4352)	Y	
Part 10	Reduce CO 80%(apply to S-4350, S-4351, S-4352, S-4353, A0070, A0071)	Y	
Part 11	Reduce HC 50%(apply to S-4350, S-4351, S-4352, S-4353, A0070, A0071)	Y	
Part 12	Nox, CO, and either a O2 or a CO2 CEMS (applies to S-4350, S-4351, S-4352, S-4353).	Y	
Part 16	Maintain records (applies to S-4350, S-4351, S-4352, S-4353).	Y	
Part 18	NH3 < 20 ppm (applies to S-4350, S-4351, S-4352, S-4353).	Y	
Part 20	If exceed emissions offset...(applies to S-4350, S-4351, S-4352, S-4353).	Y	

#### IV. Source-Specific Applicable Requirements

**Table IV.A.1.1 Combustion  
 Source-specific Applicable Requirements  
Cogeneration**

**S-4350 Gas Turbine with Steam Injection Cogeneration Train 1000 and S-4351 Heat Recovery Steam Generation Train 1000 abated by A-0070 CO/HC Catalyst and A-0072 SCR Nox Reduction Catalyst, S-4352 Gas Turbine with Steam Injection Cogeneration Train 2000 and S-4353 Heat Recovery Steam Generation Train 2000 abated by A-0071 CO/HC Catalyst and A-0073 SCR Nox Reduction Catalyst**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Condition 22262	Applies to S-4350 and S-4352	Y	
Part 1	Visible emissions inspection	Y	
Condition #23201	Applies to S-4350 and S-4352	Y	
Part 1	Sources subject to NSPS Subparts A and J	Y	

**Table IV.A.2.1 Combustion (Flares)**

**Table IV.A.2.1 Combustion  
 Source-specific Applicable Requirements  
Flares**

**S-6010 LSFO Flare, S-6012 V-282 South Isomax Flare, S-6013 North Isomax Flare V-281, S-6015 LSFO Elevated Flare, S-6016 FCC Flare V-731, S-6017 Alkane Flare, SRU, S-6019 V-732 Alky Flare, S-6039 V-3501 Flare**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<b>BAAQMD Regulation 6</b>	<b>Particulate Matter and Visible Emissions (12/19/90)</b>	Y	
6-301	Ringelmann No. 1 Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particulate Weight Limitation	Y	
6-311	Particulate Matter Emission Rate	Y	
6-401	Appearance of Emissions	Y	
<b>BAAQMD Regulation 12 Rule 11</b>	<b>Flare Monitoring at Petroleum Refineries (06/04/03)</b>		
12-11-401	Flare Data Reporting Requirements	N	
12-11-402	Flow Verification Report	N	6/4/04

#### IV. Source-Specific Applicable Requirements

**Table IV.A.2.1 Combustion  
 Source-specific Applicable Requirements**

**Flares**

**S-6010 LSFO Flare, S-6012 V-282 South Isomax Flare, S-6013 North Isomax Flare V-281, S-6015 LSFO Elevated Flare, S-6016 FCC Flare V-731, S-6017 Alkane Flare, SRU, S-6019 V-732 Alky Flare, S-6039 V-3501 Flare**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
12-11-501	Vent Gas Flow Monitoring	N	12/4/04
12-11-502	Vent Gas Composition Monitoring	N	
12-11-502.3	Vent Gas Composition Monitoring	N	03/4/04
12-11-503	Pilot Monitoring	N	
12-11-504	Pilot and Purge Gas Monitoring	N	
12-11-505	Recordkeeping Requirements	N	
12-11-506	General Monitoring Requirements	N	
12-11-506.1	Periods of Inoperation of Vent Gas Monitoring	N	09/4/04
12-11-507	Video Monitoring	N	12/4/03
<b>40 CFR Part 60 Subpart A</b>	<b>General Provisions (applies to S-6015 and S-6039 only)</b>		
60.11	Compliance with standards and maintenance requirements	Y	
60.11(a)	Compliance determined by performance tests	Y	
60.11(d)	Control devices operated using good air pollution control practice	Y	
<b>40 CFR Part 60 Subpart J</b>	<b>Standards of Performance for Petroleum Refineries (7/1/00) [Subpart J does not apply to S-6010, S-6012, S-6013, S-6016, S-6017, and S-6019. Subpart J only applies to S-6015 and S-6039]</b>		
60.104	Standards for Sulfur Oxides: Compliance Schedule	Y	
60.104(a)(1)	Fuel gas H <sub>2</sub> S concentration limited to 230 mg/dscm (0.10 gr/dscf) except for gas burned as a result of process upset or gas burned at flares from relief valve leaks or other emergency malfunctions	Y	
60.105	Monitoring of Emissions and Operations	Y	
60.105(a)(4)	Monitoring requirement for H <sub>2</sub> S (dry basis) in fuel gas prior to combustion (in lieu of separate combustion device exhaust SO <sub>2</sub> monitors as required by 60.105(a)(3))	Y	
60.105(e)(3)	Excess SO <sub>2</sub> emission definitions for 60.7©	Y	
Condition #469, part 15	The smokeless capacity of S-6015 shall not be less than 240,000 lb/hr. (Basis: RACT)	Y	
Condition #18137	Throughput Limits	N	

**IV. Source-Specific Applicable Requirements**

**Table IV.A.2.1 Combustion  
 Source-specific Applicable Requirements**

**Flares**

**S-6010 LSFO Flare, S-6012 V-282 South Isomax Flare, S-6013 North Isomax Flare V-281, S-6015 LSFO Elevated Flare, S-6016 FCC Flare V-731, S-6017 Alkane Flare, SRU, S-6019 V-732 Alky Flare, S-6039 V-3501 Flare**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Condition #13370 Part 3	S-6016 & S-6019 flare pilots shall be fueled continuously with natural gas or refinery fuel gas. The flare will be operated only during periods of emergency upset or breakdown. Routinely vented process gases may not be flared.	Y	
Condition #13370 Part 4	S-6016 & S-6019 flaring shall be steam-assisted to prevent smoking.	Y	
Part 3	Monitoring of Smoking Flares	Y	
Part 4	Procedures for inspecting smoking □lars	Y	
Part 5	Visual Inspection of smoking flares	Y	
Part 6	Records of flaring events	Y	
Part 7	S-6015 and S-6039 only to be used for burning process upset gases or fuel gas due to relief valve leakage or other emergency malfunctions (40 CFR 60.104 (a)(1))	Y	

**Table IV.A.3.1 Combustion (Furnaces)**

**Table IV.A.3.1 Combustion  
 Source-specific Applicable Requirements**

**Furnaces for which both BAAQMD Regulation 9 Rule 10 and NSPS do not apply**

**S-4107 F-1 Heat Treating Furnace # 1 Boiler Shop (Post Weld Heat Treating Furnace), S-4192 F-2170 Tail Gas Heater #1 SRU, S-4193 F-2270 Tail Gas Heater #2 SRU, S-4194 F-2370 Tail Gas Heater #3 SRU**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<b>BAAQMD Regulation 1</b>	<b>General Provisions and Definitions (11/15/00)</b>		
1-521	Monitoring may be required	Y	
<b>BAAQMD Regulation 6</b>	<b>Particulate Matter and Visible Emissions (12/19/90)</b>		
6-301	Ringelmann No. 1 Limitation	Y	
6-305	Visible Particles	Y	

**IV. Source-Specific Applicable Requirements**

**Table IV.A.3.1 Combustion  
 Source-specific Applicable Requirements**

**Furnaces for which both BAAQMD Regulation 9 Rule 10 and NSPS do not apply**

**S-4107 F-1 Heat Treating Furnace # 1 Boiler Shop (Post Weld Heat Treating Furnace), S-4192 F-2170 Tail Gas Heater #1 SRU, S-4193 F-2270 Tail Gas Heater #2 SRU, S-4194 F-2370 Tail Gas Heater #3 SRU**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
6-310	Particle Weight Limitation	Y	
6-310.3	Heat transfer operations	Y	
Condition #469	S-4107, S-4192, S-4193, S-4194 [Refinery Cap]	Y	

**Table IV.A.3.2 Combustion (Furnaces)**

**Table IV.A.3.2 Combustion  
 Source-Specific Applicable Requirements**

**Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply**

**S-4032 F-101 FCC GHT #3 Cat Furnace, S-4033 F-102 Penhex Isom #3 Cat Furnace, S-4039 F-3560 #4 Cat Furnace, S-4040 F-3570 #4 Cat Furnace, S-4041 F-3580 #4 Cat Furnace, S-4042 F-550 #5 Cat Furnace, S-4043 F-560 #5 Cat Furnace, S-4044 F-570 #5 Cat Furnace, S-4045 F-580 #5 Cat Furnace, S-4046 F-1 H.O. Heater-Asphalt Plant, S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610 DHT (VGO Desulfurizer) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant Isomax, S-4158 F-340 Natural Gas Heater H2 Plant Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4330 F1610 HNHF Reactor RLOP 16 Plant abated by A-0065 SCR, S-4331 F1310 LNHF Reactor RLOP abated by A-0065 SCR, S-4332 F1360 Hot Oil Furnace RLOP abated by A-0065 SCR, S-4333 F-1750 TKC Vacuum Furnace abated by A-0066 SCR, S-4334 F-1200 Furnace LNC Atmospheric RLOP 12 Plant abated by A-0066 SCR, S-4335 F-1250 Furnace LNC Vacuum RLOP 12 Plant abated by A-0066 SCR, S-4336 F-1410 HNC Reactor RLOP abated by A-0067 SCR, S-4337 F-1500 HNC Atmospheric RLOP abated by A-0067 SCR, S-4338 F-1550 HNC Vacuum RLOP abated by A-0067 SCR, S-4339 F-1110 LNC Reactor RLOP abated by A-0067 SCR**

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

**Table IV.A.3.2 Combustion  
 Source-Specific Applicable Requirements**

**Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply**

S-4032 F-101 FCC GHT #3 Cat Furnace, S-4033 F-102 Penhex Isom #3 Cat Furnace, S-4039 F-3560 #4 Cat Furnace, S-4040 F-3570 #4 Cat Furnace, S-4041 F-3580 #4 Cat Furnace, S-4042 F-550 #5 Cat Furnace, S-4043 F-560 #5 Cat Furnace, S-4044 F-570 #5 Cat Furnace, S-4045 F-580 #5 Cat Furnace, S-4046 F-1 H.O. Heater-Asphalt Plant, S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610 DHT (VGO Desulfurizer) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant Isomax, S-4158 F-340 Natural Gas Heater H2 Plant Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4330 F1610 HNHF Reactor RLOP 16 Plant abated by A-0065 SCR, S-4331 F1310 LNHF Reactor RLOP abated by A-0065 SCR, S-4332 F1360 Hot Oil Furnace RLOP abated by A-0065 SCR, S-4333 F-1750 TKC Vacuum Furnace abated by A-0066 SCR, S-4334 F-1200 Furnace LNC Atmospheric RLOP 12 Plant abated by A-0066 SCR, S-4335 F-1250 Furnace LNC Vacuum RLOP 12 Plant abated by A-0066 SCR, S-4336 F-1410 HNC Reactor RLOP abated by A-0067 SCR, S-4337 F-1500 HNC Atmospheric RLOP abated by A-0067 SCR, S-4338 F-1550 HNC Vacuum RLOP abated by A-0067 SCR, S-4339 F-1110 LNC Reactor RLOP abated by A-0067 SCR

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<b>BAAQMD Regulation 1</b>	<b>General Provisions and Definitions (11/15/00)</b>		
1-520	Continuous Emission Monitoring [applies to S-4042-S-4045, S-4061-S-4062, S-4070-S-4072, S-4155, S-4330-S-4339]	N	
1-520.1	Nox CEM Required for Steam Generators with Heat Input Capacity > 250 MMBtu/Hr [applies to S-4070-S-4072]	N	
1-520.8	Monitors pursuant to Regulation 2-1-403 [applies to S-4042-S-4045, S-4061-S-4062, S-4070-S-4072, S-4155, S-4330-S-4339]	N	
1-521	Monitoring May Be required	Y	
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	N	
1-523	Parametric Monitoring and Recordkeeping Procedures [all except S-4069, S-4156-S-4157]	N	
1-602	Area and Continuous Monitoring Requirements	N	
<b>SIP Regulation 1</b>	<b>PROVISIONS NO LONGER IN CURRENT RULE General Provisions and Definitions (6/28/99)</b>		

#### IV. Source-Specific Applicable Requirements

**Table IV.A.3.2 Combustion  
 Source-Specific Applicable Requirements**

**Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply**

S-4032 F-101 FCC GHT #3 Cat Furnace, S-4033 F-102 Penhex Isom #3 Cat Furnace, S-4039 F-3560 #4 Cat Furnace, S-4040 F-3570 #4 Cat Furnace, S-4041 F-3580 #4 Cat Furnace, S-4042 F-550 #5 Cat Furnace, S-4043 F-560 #5 Cat Furnace, S-4044 F-570 #5 Cat Furnace, S-4045 F-580 #5 Cat Furnace, S-4046 F-1 H.O. Heater-Asphalt Plant, S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610 DHT (VGO Desulfurizer) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant Isomax, S-4158 F-340 Natural Gas Heater H2 Plant Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4330 F1610 HNHF Reactor RLOP 16 Plant abated by A-0065 SCR, S-4331 F1310 LNHF Reactor RLOP abated by A-0065 SCR, S-4332 F1360 Hot Oil Furnace RLOP abated by A-0065 SCR, S-4333 F-1750 TKC Vacuum Furnace abated by A-0066 SCR, S-4334 F-1200 Furnace LNC Atmospheric RLOP 12 Plant abated by A-0066 SCR, S-4335 F-1250 Furnace LNC Vacuum RLOP 12 Plant abated by A-0066 SCR, S-4336 F-1410 HNC Reactor RLOP abated by A-0067 SCR, S-4337 F-1500 HNC Atmospheric RLOP abated by A-0067 SCR, S-4338 F-1550 HNC Vacuum RLOP abated by A-0067 SCR, S-4339 F-1110 LNC Reactor RLOP abated by A-0067 SCR

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
1-520	Continuous Emission Monitoring [applies to S-4042-S-4045, S-4061-S-4062, S-4070-S-4072, S-4155, S-4330-S-4339]	Y	
1-520.1	Nox CEM Required for Steam Generators with Heat Input Capacity > 250 MMBtu/Hr [applies to S-4070-S-4072]	Y	
1-520.8	Monitors pursuant to Regulation 2-1-403 [applies to S-4042-S-4045, S-4061-S-4062, S-4070-S-4072, S-4155, S-4330-S-4339]	Y	
1-521	Monitoring May Be required	Y	
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	Y	
1-523	Parametric Monitoring and Recordkeeping Procedures [all except S-4069, S-4156-S-4157]	Y	
1-602	Area and Continuous Monitoring Requirements	Y	
<b>BAAQMD Regulation 2 Rule 1</b>	<b>Regulation 2, Rule 1 – Permits, General Requirements (5/2/01; SIP approved 1/26/99 {adopted 11/01/89})</b>		
2-1-403	Permit conditions-measurement of emissions	N	
2-1-501	Monitors	Y	

**IV. Source-Specific Applicable Requirements**

**Table IV.A.3.2 Combustion  
 Source-Specific Applicable Requirements**

**Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply**

S-4032 F-101 FCC GHT #3 Cat Furnace, S-4033 F-102 Penhex Isom #3 Cat Furnace, S-4039 F-3560 #4 Cat Furnace, S-4040 F-3570 #4 Cat Furnace, S-4041 F-3580 #4 Cat Furnace, S-4042 F-550 #5 Cat Furnace, S-4043 F-560 #5 Cat Furnace, S-4044 F-570 #5 Cat Furnace, S-4045 F-580 #5 Cat Furnace, S-4046 F-1 H.O. Heater-Asphalt Plant, S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610 DHT (VGO Desulfurizer) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant Isomax, S-4158 F-340 Natural Gas Heater H2 Plant Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4330 F1610 HNHF Reactor RLOP 16 Plant abated by A-0065 SCR, S-4331 F1310 LNHF Reactor RLOP abated by A-0065 SCR, S-4332 F1360 Hot Oil Furnace RLOP abated by A-0065 SCR, S-4333 F-1750 TKC Vacuum Furnace abated by A-0066 SCR, S-4334 F-1200 Furnace LNC Atmospheric RLOP 12 Plant abated by A-0066 SCR, S-4335 F-1250 Furnace LNC Vacuum RLOP 12 Plant abated by A-0066 SCR, S-4336 F-1410 HNC Reactor RLOP abated by A-0067 SCR, S-4337 F-1500 HNC Atmospheric RLOP abated by A-0067 SCR, S-4338 F-1550 HNC Vacuum RLOP abated by A-0067 SCR, S-4339 F-1110 LNC Reactor RLOP abated by A-0067 SCR

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
SIP Regulation 2, Rule 1	<b>PROVISIONS NO LONGER IN CURRENT RULE Permits, General Requirements (1/26/99 {adopted 11/01/89})</b>		
2-1-403	Permit conditions-measurement of emissions [applies for S-4155, and S-4330-S-4339]	Y	
<b>BAAQMD Regulation 6</b>	<b>Particulate Matter and Visible Emissions (12/19/90)</b>		
6-301	Ringelmann No. 1 Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particle Weight Limitation	Y	
6-310.3	Heat transfer operations	Y	
<b>BAAQMD Regulation 9 Rule 10</b>	<b>Inorganic Gaseous Pollutants – Nitrogen Oxides and Carbon Monoxide from Boilers, Steam Generators, and Process Heaters in Petroleum Refineries (1/5/94)</b>		
9-10-301	Emission Limit for Facility, Nox: 0.033 lbs Nox/MMBTU	N	7/1/02 [plant did reform. Fuels project]

#### IV. Source-Specific Applicable Requirements

**Table IV.A.3.2 Combustion  
 Source-Specific Applicable Requirements**

**Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply**

S-4032 F-101 FCC GHT #3 Cat Furnace, S-4033 F-102 Penhex Isom #3 Cat Furnace, S-4039 F-3560 #4 Cat Furnace, S-4040 F-3570 #4 Cat Furnace, S-4041 F-3580 #4 Cat Furnace, S-4042 F-550 #5 Cat Furnace, S-4043 F-560 #5 Cat Furnace, S-4044 F-570 #5 Cat Furnace, S-4045 F-580 #5 Cat Furnace, S-4046 F-1 H.O. Heater-Asphalt Plant, S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610 DHT (VGO Desulfurizer) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant Isomax, S-4158 F-340 Natural Gas Heater H2 Plant Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4330 F1610 HNHF Reactor RLOP 16 Plant abated by A-0065 SCR, S-4331 F1310 LNHF Reactor RLOP abated by A-0065 SCR, S-4332 F1360 Hot Oil Furnace RLOP abated by A-0065 SCR, S-4333 F-1750 TKC Vacuum Furnace abated by A-0066 SCR, S-4334 F-1200 Furnace LNC Atmospheric RLOP 12 Plant abated by A-0066 SCR, S-4335 F-1250 Furnace LNC Vacuum RLOP 12 Plant abated by A-0066 SCR, S-4336 F-1410 HNC Reactor RLOP abated by A-0067 SCR, S-4337 F-1500 HNC Atmospheric RLOP abated by A-0067 SCR, S-4338 F-1550 HNC Vacuum RLOP abated by A-0067 SCR, S-4339 F-1110 LNC Reactor RLOP abated by A-0067 SCR

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
9-10-301.1	Start-up/Shutdown Contribution	N	7/1/02 [plant did reform. Fuels project]
9-10-301.2	Out-of-Service Units Contribution	N	7/1/02 [plant did reform. Fuels project]
9-10-303	Federal Interim Facility-wide Nox emission rate limit	Y	
9-10-305	CO emission limit	N	7/1/02 [plant did reform. Fuels project]
9-10-502	Monitoring	Y	7/1/02 [plant did reform. Fuels project]
9-10-502.1	CEMS for Nox, CO, and O2	N	7/1/02 [plant did reform. Fuels project]

**IV. Source-Specific Applicable Requirements**

**Table IV.A.3.2 Combustion  
 Source-Specific Applicable Requirements**

**Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply**

S-4032 F-101 FCC GHT #3 Cat Furnace, S-4033 F-102 Penhex Isom #3 Cat Furnace, S-4039 F-3560 #4 Cat Furnace, S-4040 F-3570 #4 Cat Furnace, S-4041 F-3580 #4 Cat Furnace, S-4042 F-550 #5 Cat Furnace, S-4043 F-560 #5 Cat Furnace, S-4044 F-570 #5 Cat Furnace, S-4045 F-580 #5 Cat Furnace, S-4046 F-1 H.O. Heater-Asphalt Plant, S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610 DHT (VGO Desulfurizer) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant Isomax, S-4158 F-340 Natural Gas Heater H2 Plant Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4330 F1610 HNHF Reactor RLOP 16 Plant abated by A-0065 SCR, S-4331 F1310 LNHF Reactor RLOP abated by A-0065 SCR, S-4332 F1360 Hot Oil Furnace RLOP abated by A-0065 SCR, S-4333 F-1750 TKC Vacuum Furnace abated by A-0066 SCR, S-4334 F-1200 Furnace LNC Atmospheric RLOP 12 Plant abated by A-0066 SCR, S-4335 F-1250 Furnace LNC Vacuum RLOP 12 Plant abated by A-0066 SCR, S-4336 F-1410 HNC Reactor RLOP abated by A-0067 SCR, S-4337 F-1500 HNC Atmospheric RLOP abated by A-0067 SCR, S-4338 F-1550 HNC Vacuum RLOP abated by A-0067 SCR, S-4339 F-1110 LNC Reactor RLOP abated by A-0067 SCR

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
9-10-502.2	Fuel flowmeters	Y	7/1/02 [plant did reform. Fuels project]
9-10-504	Recordkeeping	Y	7/1/02 [plant did reform. Fuels project]
9-10-505	Reporting	Y	7/1/02 [plant did reform. Fuels project]
<b>NSPS 40 CFR 60 Subpart D [for S4070, S4071, S4072]</b>	<b>Standards of Performance for Steam Generating Units</b> [only if constructed or modified after 8/17/71 AND having heat capacity > 250 MMBtu/hr]		

**IV. Source-Specific Applicable Requirements**

**Table IV.A.3.2 Combustion  
 Source-Specific Applicable Requirements**

**Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply**

S-4032 F-101 FCC GHT #3 Cat Furnace, S-4033 F-102 Penhex Isom #3 Cat Furnace, S-4039 F-3560 #4 Cat Furnace, S-4040 F-3570 #4 Cat Furnace, S-4041 F-3580 #4 Cat Furnace, S-4042 F-550 #5 Cat Furnace, S-4043 F-560 #5 Cat Furnace, S-4044 F-570 #5 Cat Furnace, S-4045 F-580 #5 Cat Furnace, S-4046 F-1 H.O. Heater-Asphalt Plant, S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610 DHT (VGO Desulfurizer) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant Isomax, S-4158 F-340 Natural Gas Heater H2 Plant Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4330 F1610 HNHF Reactor RLOP 16 Plant abated by A-0065 SCR, S-4331 F1310 LNHF Reactor RLOP abated by A-0065 SCR, S-4332 F1360 Hot Oil Furnace RLOP abated by A-0065 SCR, S-4333 F-1750 TKC Vacuum Furnace abated by A-0066 SCR, S-4334 F-1200 Furnace LNC Atmospheric RLOP 12 Plant abated by A-0066 SCR, S-4335 F-1250 Furnace LNC Vacuum RLOP 12 Plant abated by A-0066 SCR, S-4336 F-1410 HNC Reactor RLOP abated by A-0067 SCR, S-4337 F-1500 HNC Atmospheric RLOP abated by A-0067 SCR, S-4338 F-1550 HNC Vacuum RLOP abated by A-0067 SCR, S-4339 F-1110 LNC Reactor RLOP abated by A-0067 SCR

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.42	Standard for Particulate Matter	Y	
60.42(a)(1)	0.1 lb PM/MMBtu Limit for fossil fuel burned	Y	
60.42(a)(2)	Limit of 20% opacity except for one six-minute period per hour of not more than 27% opacity (for fossil fuel burned)	Y	
60.44	Standard for Nitrogen Oxides	Y	
60.44(a)(1)	0.2 lb Nox/MMBtu Limit for Gaseous fossil fuel burned	Y	
60.45	Emission and Fuel Monitoring	Y	
60.45(a)	Install CEMS (including O2 CEM)	Y	
60.45(b)(3)	Install Nox CEM and comply with applicable monitoring requirements of this subpart	Y	
60.45(g)	Excess emissions and monitoring system performance (MSP) reports shall be submitted to the Administrator semi-annually by the 30 <sup>th</sup> day following the end of each six-month period.	Y	
<b>NSPS 40 CFR 60 Subpart Db [for S4155]</b>	<b>Standards of Performance for Steam Generating Units</b> [only if constructed or modified after 6/19/84 AND having heat capacity > 100 MMBtu/hr]		

#### IV. Source-Specific Applicable Requirements

**Table IV.A.3.2 Combustion  
 Source-Specific Applicable Requirements**

**Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply**

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.44b	Standard for Nitrogen Oxides	Y	
60.44b(e)	0.1 lb Nox/MMBtu Limit for combusting natural gas with waste/byproduct (waste/byproduct definition includes refinery fuel gas)	Y	
60.44b(h)	The Nox standard applies at all times	Y	
60.44b(i)	Compliance is determined on a 30-day rolling average basis	Y	
60.46b	Compliance and Performance Test Methods and Procedures for Particulate Matter and Nitrogen Oxides	Y	
60.46b(a)	The Nox standard applies at all times	Y	
60.48b	Emission Monitoring for Particulate Matter and Nitrogen Oxides	Y	
60.48b(b)	Install, calibrate, and operate a Nox CEM	Y	
60.48b©	CEM operated and data recorded during all periods of operating except for CEM breakdowns and repairs.	Y	
60.48b(d)	Use 1-hour average Nox CEM results to calculate lb Nox/MMBtu per 60.44b	Y	
60.48b(e)	Follow 60.13 to install, calibrate, and operate CEMs.	Y	

#### IV. Source-Specific Applicable Requirements

**Table IV.A.3.2 Combustion  
 Source-Specific Applicable Requirements**

**Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply**

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.48b(f)	Use standby system or Method 7 if Nox CEM downtime exceeds listed limits.	Y	
60.49b	Reporting and Recordkeeping Requirements	Y	
60.49b©	Alternate CEM with approval of agency	Y	
60.49b(d)	Maintain fuel records each operating day	Y	
60.49b(g)	Maintain records of listed information for each operating day.	Y	
60.49b(i)	Submit reports containing information required in 60.49b(g) for Nox CEM.	Y	
60.49b(v)	May submit quarterly electronic reports with agency approval.	Y	
60.49b(w)	Semi-annual reports due 30 <sup>th</sup> day following reporting period.	Y	
<b>NSPS 40 CFR 60 Subpart J</b>	<b>Standards of Performance for Petroleum Refineries (7/1/00)</b> [Only if installed after 6/11/1973 AND burning refinery-made fuel gas]		
60.104	Standards for Sulfur Oxides: Compliance Schedule	Y	



**IV. Source-Specific Applicable Requirements**

**Table IV.A.3.2 Combustion  
 Source-Specific Applicable Requirements**

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.104(a)(1)	Fuel gas H2S concentration limited to 230 mg/dscm (0.10 gr/dscf) except for gas burned as a result of process upset or gas burned at flares from relief valve leaks or other emergency malfunctions. [Effectiveness requirement for sulfur plant]	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 <sub>2</sub> emission definitions for 60.7©	Y	
<b>Condition # 8773</b>	<b>Permit condition parts are listed below:</b>		
<b>Condition #8773</b>	<b>Permit condition parts are listed below:</b>		
Part 1a	Nox shall not exceed 8.85 lb/hr [applies to S-4155]	N	
Part 1b	Time of 1 <sup>st</sup> burner lighting [applies to S-4155]	N	
Part 1c	Nox mass rate calculation method [applies to S-4155]	N	
Part 2	CO shall not exceed 50 ppmv [applies to S-4155]	Y	

#### IV. Source-Specific Applicable Requirements

**Table IV.A.3.2 Combustion  
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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 3	O2 & Nox CEM required [applies to S-4155]	N	
Part 5	Fuel gas H2S shall not exceed 50 ppm [applies to S-4155]	Y	
Part 6	Fuel use shall not exceed 209 MMBtu/Hr [applies to S-4155]	Y	
<b>Condition #469</b>	<b>Permit condition parts are listed below:</b>		
Part 3A	Operate Nox CEM for each SCR [applies to S-4330, S-4331, S-4332, S-4333, S-4334, S-4335, S-4336, S-4337, S-4338, and S-4339]	Y	
Part 3B	Operate O2 CEM for each SCR [applies to S-4330, S-4331, S-4332, S-4333, S-4334, S-4335, S-4336, S-4337, S-4338, and S-4339]	Y	
Part 4A	Maintain records (including fuel input rate) [applies to S-4330, S-4331, S-4332, S-4333, S-4334, S-4335, S-4336, S-4337, S-4338, and S-4339]	Y	
Part 6A	Do not burn fuel oil [applies to S-4155, S-4330, S-4331, S-4332, S-4333, S-4334, S-4335, S-4336, S-4337, S-4338, and S-4339]	Y	
Part 6B	Nox 8-hour average shall not exceed 40 ppm [applies to S-4330, S-4331, S-4332, S-4333, S-4334, S-4335, S-4336, S-4337, S-4338, S-4339, A0065, A0066, & A0067]	Y	
<b>Condition #16686</b>	Max Firing Rate Limits [applies for S-4044, S-4070, S-4071, S-4072, S-4334, S-4335, S-4338, & S-4339]	N	

#### IV. Source-Specific Applicable Requirements

**Table IV.A.3.2 Combustion  
 Source-Specific Applicable Requirements**

**Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply**

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<b>Condition #18003</b>	<b>Permit condition parts are listed below:</b>		
Part 1	Operate fuel gas meter [applies to S-4059 and S-4060]	Y	
Part 3	Semiannual Nox, CO, & O2 source tests [applies to S-4059 and S-4060]	Y	
Part 4	2 additional source tests to maximize Co [applies to S-4059 and S-4060]	Y	
Part 5	Source Test if outside Nox box [applies to S-4059 and S-4060]	Y	
Part 5a	Violation if source test > limit [applies to S-4059 and S-4060]	Y	
Part 5b	Adjust Nox box if source test < limit [applies to S-4059 and S-4060]	Y	
Part 6	Nox limit of 0.03 lbs Nox/MMBtu [applies to S-4059 and S-4060]	N	
Part 7	Maximum firing rate limit [applies to S-4059]	N	
Part 8	Maximum firing rate limit [applies to S-4060]	N	
Part 9	Install CO CEM if [applies to S-4059 and S-4060]	Y	
Part 10	Daily records [applies to S-4059 and S-4060]	Y	
<b>Condition #18015</b>	<b>Permit condition parts are listed below:</b>		

#### IV. Source-Specific Applicable Requirements

**Table IV.A.3.2 Combustion  
 Source-Specific Applicable Requirements**

**Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply**

S-4032 F-101 FCC GHT #3 Cat Furnace, S-4033 F-102 Penhex Isom #3 Cat Furnace, S-4039 F-3560 #4 Cat Furnace, S-4040 F-3570 #4 Cat Furnace, S-4041 F-3580 #4 Cat Furnace, S-4042 F-550 #5 Cat Furnace, S-4043 F-560 #5 Cat Furnace, S-4044 F-570 #5 Cat Furnace, S-4045 F-580 #5 Cat Furnace, S-4046 F-1 H.O. Heater-Asphalt Plant, S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610 DHT (VGO Desulfurizer) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant Isomax, S-4158 F-340 Natural Gas Heater H2 Plant Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4330 F1610 HNHF Reactor RLOP 16 Plant abated by A-0065 SCR, S-4331 F1310 LNHF Reactor RLOP abated by A-0065 SCR, S-4332 F1360 Hot Oil Furnace RLOP abated by A-0065 SCR, S-4333 F-1750 TKC Vacuum Furnace abated by A-0066 SCR, S-4334 F-1200 Furnace LNC Atmospheric RLOP 12 Plant abated by A-0066 SCR, S-4335 F-1250 Furnace LNC Vacuum RLOP 12 Plant abated by A-0066 SCR, S-4336 F-1410 HNC Reactor RLOP abated by A-0067 SCR, S-4337 F-1500 HNC Atmospheric RLOP abated by A-0067 SCR, S-4338 F-1550 HNC Vacuum RLOP abated by A-0067 SCR, S-4339 F-1110 LNC Reactor RLOP abated by A-0067 SCR

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 1	CO Source test [applies to S-4070, S-4071, and S-4072]	Y	
Part 1a	Install CO CEM if [applies to S-4070, S-4071, and S-4072]	Y	
Part 2	Operate Nox and O2 CEMS and fuel flow meter [applies to S-4070, S-4071, and S-4072]	Y	
Part 3	Maximum Firing Rate Limits [applies to S-4070, S-4071, and S-4072]	N	
Part 4	Daily Records [applies to S-4070, S-4071, and S-4072]	Y	
<b>Condition #17631</b>	<b>Permit condition parts are listed below:</b>		
Part 1	Fuel flow meter [applies to S-4158]	Y	
Part 3	Semi-annual Nox, CO, & O2 source tests [applies to S-4158]	Y	
Part 4	Additional source tests to maximize CO [applies to S-4158]	Y	
Part 5	Source test if outside Nox box [applies to S-4158]	Y	
Part 5a	Violation if source test > limit [applies to S-4158]	Y	
Part 5b	Adjust Nox box if source test > limit [applies to S-4158]	Y	
Part 6	Nox limit of 0.035 lbs Nox/MMBtu [applies to S-4158]	N	

#### IV. Source-Specific Applicable Requirements

**Table IV.A.3.2 Combustion  
 Source-Specific Applicable Requirements**

**Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply**

S-4032 F-101 FCC GHT #3 Cat Furnace, S-4033 F-102 Penhex Isom #3 Cat Furnace, S-4039 F-3560 #4 Cat Furnace, S-4040 F-3570 #4 Cat Furnace, S-4041 F-3580 #4 Cat Furnace, S-4042 F-550 #5 Cat Furnace, S-4043 F-560 #5 Cat Furnace, S-4044 F-570 #5 Cat Furnace, S-4045 F-580 #5 Cat Furnace, S-4046 F-1 H.O. Heater-Asphalt Plant, S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610 DHT (VGO Desulfurizer) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant Isomax, S-4158 F-340 Natural Gas Heater H2 Plant Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4330 F1610 HNHF Reactor RLOP 16 Plant abated by A-0065 SCR, S-4331 F1310 LNHF Reactor RLOP abated by A-0065 SCR, S-4332 F1360 Hot Oil Furnace RLOP abated by A-0065 SCR, S-4333 F-1750 TKC Vacuum Furnace abated by A-0066 SCR, S-4334 F-1200 Furnace LNC Atmospheric RLOP 12 Plant abated by A-0066 SCR, S-4335 F-1250 Furnace LNC Vacuum RLOP 12 Plant abated by A-0066 SCR, S-4336 F-1410 HNC Reactor RLOP abated by A-0067 SCR, S-4337 F-1500 HNC Atmospheric RLOP abated by A-0067 SCR, S-4338 F-1550 HNC Vacuum RLOP abated by A-0067 SCR, S-4339 F-1110 LNC Reactor RLOP abated by A-0067 SCR

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 7	48 MMBtu/Hr firing rate limit [applies to S-4158]	N	
Part 8	Install CO & O2 CEM [applies to S-4158]	Y	
Part 9	Daily records [applies to S-4158]	Y	
<b>Condition #18172</b>	<b>Permit condition parts are listed below:</b>		
Part 1	CO Source Tests [applies to S-4042, S-4043, S-4044, and S-4045]	Y	
Part 1a	Install CO CEM if [applies to S-4042, S-4043, S-4044, and S-4045]	Y	
Part 2	Operate fuel flowmeter, Nox & O2 CEMS [applies to S-4042, S-4043, S-4044, and S-4045]	Y	
Part 3	Maximum firing rates [applies to S-4042, S-4043, S-4044, and S-4045]	Y	
Part 4	Maintain daily records [applies to S-4042, S-4043, S-4044, and S-4045]	Y	
<b>Condition #18166</b>	<b>Permit condition parts are listed below:</b>		
Part 1	CO Source Tests [applies to S-4061 and S-4062]	Y	
Part 1a	Install CO CEM if > limit [applies to S-4061 and S-4062]	Y	
Part 2	Operate Nox, O2 CEMS & fuel meter [applies to S-4061 and S-4062]	Y	

#### IV. Source-Specific Applicable Requirements

**Table IV.A.3.2 Combustion  
 Source-Specific Applicable Requirements**

**Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply**

S-4032 F-101 FCC GHT #3 Cat Furnace, S-4033 F-102 Penhex Isom #3 Cat Furnace, S-4039 F-3560 #4 Cat Furnace, S-4040 F-3570 #4 Cat Furnace, S-4041 F-3580 #4 Cat Furnace, S-4042 F-550 #5 Cat Furnace, S-4043 F-560 #5 Cat Furnace, S-4044 F-570 #5 Cat Furnace, S-4045 F-580 #5 Cat Furnace, S-4046 F-1 H.O. Heater-Asphalt Plant, S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610 DHT (VGO Desulfurizer) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant Isomax, S-4158 F-340 Natural Gas Heater H2 Plant Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4330 F1610 HNHF Reactor RLOP 16 Plant abated by A-0065 SCR, S-4331 F1310 LNHF Reactor RLOP abated by A-0065 SCR, S-4332 F1360 Hot Oil Furnace RLOP abated by A-0065 SCR, S-4333 F-1750 TKC Vacuum Furnace abated by A-0066 SCR, S-4334 F-1200 Furnace LNC Atmospheric RLOP 12 Plant abated by A-0066 SCR, S-4335 F-1250 Furnace LNC Vacuum RLOP 12 Plant abated by A-0066 SCR, S-4336 F-1410 HNC Reactor RLOP abated by A-0067 SCR, S-4337 F-1500 HNC Atmospheric RLOP abated by A-0067 SCR, S-4338 F-1550 HNC Vacuum RLOP abated by A-0067 SCR, S-4339 F-1110 LNC Reactor RLOP abated by A-0067 SCR

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 3	Maximum firing rate [applies to S-4061 and S-4062]	N	
Part 4	Maintain daily records [applies to S-4061 and S-4062]	Y	
<b>Condition #18350</b>	<b>Permit condition parts are listed below:</b>		
Part 1	Fuel gas flow meter [applies to S-4068]	Y	
Part 3	Nox, CO, O2 source tests [applies to S-4068]	Y	
Part 4	Additional source tests [applies to S-4068]	Y	
Part 5	Source test outside box [applies to S-4068]	Y	
Part 6	0.14 lb Nox/MMBtu limit [applies to S-4068]	N	
Part 7	127.5 MMBtu/Hr Limit [applies to S-4068]	N	
Part 8	CO and O2 CEMs [applies to S-4068]	Y	
Part 9	Daily fuel use records [applies to S-4068]	Y	

#### IV. Source-Specific Applicable Requirements

**Table IV.A.3.2 Combustion  
 Source-Specific Applicable Requirements**

**Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply**

S-4032 F-101 FCC GHT #3 Cat Furnace, S-4033 F-102 Penhex Isom #3 Cat Furnace, S-4039 F-3560 #4 Cat Furnace, S-4040 F-3570 #4 Cat Furnace, S-4041 F-3580 #4 Cat Furnace, S-4042 F-550 #5 Cat Furnace, S-4043 F-560 #5 Cat Furnace, S-4044 F-570 #5 Cat Furnace, S-4045 F-580 #5 Cat Furnace, S-4046 F-1 H.O. Heater-Asphalt Plant, S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610 DHT (VGO Desulfurizer) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant Isomax, S-4158 F-340 Natural Gas Heater H2 Plant Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4330 F1610 HNHF Reactor RLOP 16 Plant abated by A-0065 SCR, S-4331 F1310 LNHF Reactor RLOP abated by A-0065 SCR, S-4332 F1360 Hot Oil Furnace RLOP abated by A-0065 SCR, S-4333 F-1750 TKC Vacuum Furnace abated by A-0066 SCR, S-4334 F-1200 Furnace LNC Atmospheric RLOP 12 Plant abated by A-0066 SCR, S-4335 F-1250 Furnace LNC Vacuum RLOP 12 Plant abated by A-0066 SCR, S-4336 F-1410 HNC Reactor RLOP abated by A-0067 SCR, S-4337 F-1500 HNC Atmospheric RLOP abated by A-0067 SCR, S-4338 F-1550 HNC Vacuum RLOP abated by A-0067 SCR, S-4339 F-1110 LNC Reactor RLOP abated by A-0067 SCR

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Condition #19586	Permit condition parts are listed below:		
Part 1	Semi-annual Nox source tests [applies to S-4069, S-4156]	Y	
Part 2	Annual Nox source test [applies to S-4189]	Y	
Part 3	Semi-annual CO source tests [applies to S-4069, S-4155, S-4156, S-4332 to S-4335, S-4337, S-4338]	Y	
Part 4	Annual CO source test [applies to S-4330, S-4331, S-4336, S-4339]	Y	
Part 5	Semi-annual CO source test for compliance [applies to S-4155]	Y	
Condition #21232	New Nox Box Conditions [effective 12/1/04]	N	1/1/05
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	9/1/04
Part 3	Operating conditions requirements for those sources without CEM (basis: Regulation 9-10-502)	N	

#### IV. Source-Specific Applicable Requirements

**Table IV.A.3.2 Combustion  
 Source-Specific Applicable Requirements**

**Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply**

S-4032 F-101 FCC GHT #3 Cat Furnace, S-4033 F-102 Penhex Isom #3 Cat Furnace, S-4039 F-3560 #4 Cat Furnace, S-4040 F-3570 #4 Cat Furnace, S-4041 F-3580 #4 Cat Furnace, S-4042 F-550 #5 Cat Furnace, S-4043 F-560 #5 Cat Furnace, S-4044 F-570 #5 Cat Furnace, S-4045 F-580 #5 Cat Furnace, S-4046 F-1 H.O. Heater-Asphalt Plant, S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610 DHT (VGO Desulfurizer) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant Isomax, S-4158 F-340 Natural Gas Heater H2 Plant Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4330 F1610 HNHF Reactor RLOP 16 Plant abated by A-0065 SCR, S-4331 F1310 LNHF Reactor RLOP abated by A-0065 SCR, S-4332 F1360 Hot Oil Furnace RLOP abated by A-0065 SCR, S-4333 F-1750 TKC Vacuum Furnace abated by A-0066 SCR, S-4334 F-1200 Furnace LNC Atmospheric RLOP 12 Plant abated by A-0066 SCR, S-4335 F-1250 Furnace LNC Vacuum RLOP 12 Plant abated by A-0066 SCR, S-4336 F-1410 HNC Reactor RLOP abated by A-0067 SCR, S-4337 F-1500 HNC Atmospheric RLOP abated by A-0067 SCR, S-4338 F-1550 HNC Vacuum RLOP abated by A-0067 SCR, S-4339 F-1110 LNC Reactor RLOP abated by A-0067 SCR

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
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 8	CO source test (basis: Regulation 9-10-502, 1-522)	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	
Condition #23201	Applies to S-4070, S-4071, S-4042, S-4062, S-4068, S-4334, S-4155, S-4332, S-4338, and S-4059	Y	
Part 1	Sources subject to NSPS Subparts A and J	Y	



#### IV. Source-Specific Applicable Requirements

Table IV.A.3.3 Combustion (Furnaces)

**Table IV.A.3.3 Combustion  
 Source-specific Applicable Requirements**

**Furnaces for which BAAQMD Regulation 9 Rule 10 applies and NSPS do not apply**

**S-4038 F-3550 #4 Cat Furnace, S-4152 F-100 Asphalt Solution Heater SDA Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,  
 S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<b>BAAQMD Regulation 1</b>	<b>General Provisions and Definitions (11/15/00)</b>		
1-520	Continuous Emission Monitoring [applies to S-4038-S-4041, S-4164-S-4166, S-4168-S-4171]	Y	
1-520.1	Nox CEM required for Steam Generators with Heat Input Rated > 250 MMBtu/Hr [applies to S-4070, S-4071, S-4072, S-4169, S-4170, and S-4171]	Y	
1-520.8	Monitors pursuant to Regulation 2-1-403 [applies to S-4038-S-4041, S-4164-S-4166, S-4168-S-4171]	Y	
1-521	Monitoring may be required	Y	
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	N	
1-523	Parametric Monitoring and Recordkeeping Procedures [applies to S-4038-S-4041, S-4152, S-4154, S-4159, S-4160, S-4164-S-4171]	N	
1-602	Area and Continuous Monitoring Requirements	N	
<b>SIP Regulation 1</b>	<b>PROVISIONS NO LONGER IN CURRENT RULE                      General Provisions and Definitions (6/28/99)</b>		
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	Y	
1-523	Parametric Monitoring and Recordkeeping Procedures [applies to S-4038-S-4041, S-4152, S-4154, S-4159, S-4160, S-4164-S-4171]	Y	
<b>BAAQMD Regulation 2 Rule 1</b>	<b>Regulation 2, Rule 1 – Permits, General Requirements (5/2/01; SIP approved 1/26/99 {adopted 11/01/89}) [Applicable if Subject to CEM Monitoring, either by BAAQMD 9-9 or permit condition (BACT)]</b>		
2-1-403	Permit conditions-measurement of emissions	N	
2-1-501	Monitors	Y	
<b>SIP Regulation 2 Rule 1</b>	<b>PROVISIONS NO LONGER IN CURRENT RULE                      Permits, General Requirements (1/26/99 {adopted 11/01/89}) [Applicable if Subject to CEM Monitoring, either by BAAQMD 9-9 or permit condition (BACT)]</b>		
2-1-403	Permit conditions-measurement of emissions	Y	
<b>BAAQMD Regulation 6</b>	<b>Particulate Matter and Visible Emissions (12/19/90)</b>		

#### IV. Source-Specific Applicable Requirements

**Table IV.A.3.3 Combustion  
 Source-specific Applicable Requirements**

**Furnaces for which BAAQMD Regulation 9 Rule 10 applies and NSPS do not apply**

**S-4038 F-3550 #4 Cat Furnace, S-4152 F-100 Asphalt Solution Heater SDA Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,  
 S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
6-301	Ringelmann No. 1 Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particle Weight Limitation	Y	
6-310.3	Heat transfer operations	Y	
<b>BAAQMD Regulation 9 Rule 10</b>	<b>Inorganic Gaseous Pollutants – Nitrogen Oxides and Carbon Monoxide from Boilers, Steam Generators, and Process Heaters in Petroleum Refineries (1/5/94)</b>		
9-10-301	Emission Limit for Facility, Nox: 0.033 lbs Nox/MMBTU [applies for all sources listed in this table except S-4032 and S-4033]	N	7/1/02 [plant did reform. Fuels project]
9-10-301.1	Start-up/Shutdown Contribution [applies for all sources listed in this table except S-4032 and S-4033]	N	7/1/02 [plant did reform. Fuels project]
9-10-301.2	Out-of-Service Units Contribution [applies for all sources listed in this table except S-4032 and S-4033]	N	7/1/02 [plant did reform. Fuels project]
9-10-303	Federal Interim Facility-wide Nox emission rate limit [applies for all sources listed in this table except S-4032 and S-4033]	Y	
9-10-305	CO Emission limit	N	
9-10-502	Monitoring	Y	
9-10-502.1	CEMS for Nox, CO, and O2	N	7/1/02 [plant did reform. Fuels project]
9-10-502.2	Fuel flowmeters	Y	7/1/02 [plant did reform. Fuels project]
9-10-504	Recordkeeping	Y	7/1/02 [plant did reform. Fuels project]

#### IV. Source-Specific Applicable Requirements

**Table IV.A.3.3 Combustion  
 Source-specific Applicable Requirements**

**Furnaces for which BAAQMD Regulation 9 Rule 10 applies and NSPS do not apply**

**S-4038 F-3550 #4 Cat Furnace, S-4152 F-100 Asphalt Solution Heater SDA Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,**

**S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
9-10-505	Reporting	Y	7/1/02 [plant did reform. Fuels project]
<b>Condition #469</b>	RLOP CAP, Monthly CME	Y	
<b>Condition #469</b>	S-4038-S-4041, S-4095, S-4152, S-4154, S-4159-S-4171, S-4188, S-4189 [Refinery Cap]	Y	
<b>Condition #469</b>	<b>Permit condition parts are listed below:</b>		
Part 12	47 MMBtu/Hr Fuel Use Limit [applies to S-4159]	Y	
Part 13	45 MMBtu/Hr Fuel Use Limit [applies to S-4160]	Y	
Part 14	Record fuel gas use monthly [applies to S-4159 and S-4160]	Y	
<b>Condition #16679</b>	<b>Permit condition parts are listed below:</b>		
Part 1	120 lb NH3/hr limit [applies for S-4170]	N	
Part 2	Flow restriction orifice for ammonia [applies for S-4170]	N	
Part 3	SCR operating when Nox emitted [applies for S-4170 and A0260]	N	
Part 4	Nox & O2 CEMS [applies for S-4170]	Y	
Part 5	Startup & shutdown time limits [applies for S-4170]	Y	
Part 5a	Metallurgical & other extension [applies for S-4170]	Y	
Part 5b	Refractory work extension [applies for S-4170]	Y	
Part 5c	Catalyst extension [applies for S-4170]	Y	
Part 6	Recordkeeping [applies for S-4170]	Y	
<b>Condition #16686</b>			
Part 1	Firing Limits [applies for S-4152, S-4154, S-4159 to S-4163, S-4168, S-4170, S-4172]	Y	

#### IV. Source-Specific Applicable Requirements

**Table IV.A.3.3 Combustion  
 Source-specific Applicable Requirements**

**Furnaces for which BAAQMD Regulation 9 Rule 10 applies and NSPS do not apply**

**S-4038 F-3550 #4 Cat Furnace, S-4152 F-100 Asphalt Solution Heater SDA Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,**

**S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<b>Condition #16698</b>	<b>Permit condition parts are listed below:</b>		
Part 1	Source Tests [applies to S-4038, S-4039, S-4040 and S-4041]	Y	
Part 1a	Install CO CEM if [applies to S-4038, S-4039, S-4040, and S-4041]	Y	
Part 2	Firing rate limits [applies to S-4038, S-4039, S-4040, and S-4041]	N	
Part 4	Fuel flow meter [applies to S-4038, S-4039, S-4040, and S-4041]	Y	
Part 5	Recordkeeping [applies to S-4038, S-4039, S-4040 and S-4041]	Y	
<b>Condition #16731</b>	<b>Permit condition parts are listed below:</b>		
Part 1	CO source tests [applies to S-4164, S-4165, S-4166, S-4168, and S-4169]	Y	
Part 1a	Install CO CEM if [applies to S-4164, S-4165, S-4166, S-4168, and S-4169]	Y	
Part 2	Nox & O2 CEMS [applies to S-4164, S-4165, S-4166, S-4168, and S-4169]	Y	
Part 3	Maximum firing rates [applies to S-4164, S-4165, S-4166, S-4168, and S-4169]	N	
Part 4	Recordkeeping [applies to S-4164, S-4165, S-4166, S-4168, and S-4169]	Y	
<b>Condition #17310</b>	<b>Permit condition parts are listed below: Applies to S-4152 and S-4154</b>		
Part 1	Fuel gas flowmeter and recorder	Y	
Part 2	Max fairing rate for S-4152, 50.5 MMBtuh	N	
Part 3	Max fairing rate for S-4154, 50.5 MMBtuh	N	
Part 4	Records of fuel usage and HHV	Y	
<b>Condition #17628</b>	<b>Permit condition parts are listed below:</b>		
Part 1	Fuel gas flow meter [applies to S-4152 and S-4154]	Y	
Part 3	Semi-annual Nox, CO & O2 source tests [applies to S-4152 and S-4154]	Y	
Part 4	Additional sources tests to maximize CO [applies to S-4152 and S-4154]	Y	
Part 5	Source test if outside Nox box [applies to S-4152 and S-4154]	Y	

#### IV. Source-Specific Applicable Requirements

**Table IV.A.3.3 Combustion  
 Source-specific Applicable Requirements**

**Furnaces for which BAAQMD Regulation 9 Rule 10 applies and NSPS do not apply**

**S-4038 F-3550 #4 Cat Furnace, S-4152 F-100 Asphalt Solution Heater SDA Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,**

**S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 5a	Violation if source test > limit [applies to S-4152 and S-4154]	Y	
Part 5b	Adjust Nox box if source test > limit [applies to S-4152 and S-4154]	Y	
Part 6	Nox limit of 0.035 lbs Nox/MMBtu [applies to S-4152]	N	
Part 7	Nox limit of 0.035 lbs Nox/MMBtu [applies to S-4154]	N	
Part 8	Maximum Firing Rate Limit [applies to S-4152]	N	
Part 9	Maximum Firing Rate Limit [applies to S-4154]	N	
Part 10	Install CO & O2 CEMs if [applies to S-4152 and S-4154]	Y	
Part 11	Daily Records [applies to S-4152 and S-4154]	Y	
<b>Condition #17973</b>	<b>Permit condition parts are listed below:</b>		
Part 1	CO source test	N	
Part 2	Operate Nox and O2 CEMs and fuel flowmeter [applies for S-4171]	N	
Part 3	Maximum firing rate [applies for S-4171 ]	N	
Part 4	Daily records [applies for S-4171]	Y	
<b>Condition #18387</b>	<b>Permit condition parts are listed below:</b>		
Part 1	Fuel gas flowmeter [applies to S-4159 and S-4160]	Y	
Part 3	Nox, CO, and O2 source tests [applies to S-4159 and S-4160]	Y	
Part 4	Additional source tests [applies to S-4159 and S-4160]	Y	
Part 5	Source test outside box [applies to S-4159 and S-4160]	Y	
Part 6	0.033 lb Nox/MMBtu [applies to S-4159 and S-4160]	N	
Part 7	68 MMBtu/Hr [applies to S-4159]	N	
Part 8	71 MMBtu/Hr [applies to S-4160]	N	
Part 9	CO & O2 CEM if [applies to S-4159 and S-4160]	Y	
Part 10	Daily Records[applies to S-4159 and S-4160]	Y	

#### IV. Source-Specific Applicable Requirements

**Table IV.A.3.3 Combustion  
 Source-specific Applicable Requirements**

**Furnaces for which BAAQMD Regulation 9 Rule 10 applies and NSPS do not apply**

**S-4038 F-3550 #4 Cat Furnace, S-4152 F-100 Asphalt Solution Heater SDA Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,**

**S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<b>Condition #18391</b>	<b>Permit condition parts are listed below:</b>		
Part 1	Fuel gas flowmeter [applies S-4167]	Y	
Part 3	Nox, CO, O2 source tests [applies to S-4167]	Y	
Part 4	Additional source tests [applies to S-4167]	Y	
Part 5	Source test outside of box [applies to S-4167]	Y	
Part 6	0.035 lb Nox/MMBtu limit [applies to S-4167]	N	
Part 7	145 MMBtu/Hr limit [applies to S-4167]	Y	
Part 8	CO & O2 CEM if [applies to S-4167]	N	
Part 9	Daily fuel use records	N	
<b>Condition #18400</b>	<b>Permit condition parts are listed below:</b>		
<b>Part 1</b>	<b>Fuel gas flowmeters [applies to S-4188 and S-4189]</b>	Y	
<b>Part 2</b>	<b>648 MMBtu/Day limit [applies to S-4188]</b>	Y	
<b>Part 3</b>	<b>360 MMBtu/Day limit [applies to S-4189]</b>	Y	
<b>Part 6</b>	<b>Daily Records [applies to S-4188 and S-4189]</b>	Y	

#### IV. Source-Specific Applicable Requirements

**Table IV.A.3.3 Combustion  
 Source-specific Applicable Requirements**

**Furnaces for which BAAQMD Regulation 9 Rule 10 applies and NSPS do not apply**

**S-4038 F-3550 #4 Cat Furnace, S-4152 F-100 Asphalt Solution Heater SDA Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,**

**S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<b>Condition #19586</b>	<b>Permit condition parts are listed below:</b>		
Part 1	Semi-annual Nox source tests [applies to S-4032, S-4033, S-4095, S-4153, S-4161, S-4162, S-4163, S-4188]	Y	
Part 2	Annual Nox source test [applies to S-4189]	Y	
Part 3	Semi-annual CO source tests [applies to S-4032, S-4033, S-4095, S-4153, S-4161, S-4162, S-4163, S-4188]	Y	
Part 4	Annual CO source test [applies to S-4189]	Y	
<b>Condition #21232</b>	<b>New Nox Box Conditions [effective 6/1/04]</b>	N	1/1/05
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	9/1/04
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 8	CO source test (basis: Regulation 9-10-502, 1-522)	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	
<b>Condition #23201</b>	<b>Applies to S-4038 S-4159, S-4160, S-4161, S-4168, S-4169, S-4152, S-4170, S-4171, S-4188, and S-4189</b>	Y	

**IV. Source-Specific Applicable Requirements**

**Table IV.A.3.3 Combustion  
 Source-specific Applicable Requirements**

**Furnaces for which BAAQMD Regulation 9 Rule 10 applies and NSPS do not apply**

S-4038 F-3550 #4 Cat Furnace, S-4152 F-100 Asphalt Solution Heater SDA Isomax, S-4159 F-410 TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax,  
 S-4170 F-305 H2 Reforming Furnace H2 Plant Isomax abated by A-0260 Selective Catalytic Reduction(SCR), S-4171 F-355 H2 Reforming Furnace H2 Plant Isomax, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 1	Sources subject to NSPS Subparts A and J	Y	

**Table IV.A.3.5 Combustion (Furnaces)**

**Table IV.A.3.5 Combustion  
 Source-specific Applicable Requirements**

**Furnace for which BAAQMD Regulation 9 Rule 10 does not apply but NSPS does apply**

**S-4349 F-1650 Furnace HNC Distillation Section RLOP (BO 2000)**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<b>BAAQMD Regulation 1</b>	<b>General Provisions and Definitions (11/15/00)</b>		
1-521	Monitoring may be required	Y	
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	N	
1-602	Area and Continuous Monitoring Requirements	N	
<b>SIP Regulation 1</b>	<b>PROVISIONS NO LONGER IN CURRENT RULE                      General Provisions and Definitions (6/28/99)</b>		
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	Y	
<b>BAAQMD Regulation 2 Rule 1</b>	<b>Regulation 2, Rule 1 – Permits, General Requirements (5/2/01; SIP approved 1/26/99 {adopted 11/01/89})</b>		
2-1-403	Permit conditions-measurement of emissions	N	
2-1-501	Monitors	Y	
<b>SIP Regulation 2 Rule 1</b>	<b>PROVISIONS NO LONGER IN CURRENT RULE                      Permits, General Requirements (1/26/99 {adopted 11/01/89})</b>		
2-1-403	Permit conditions-measurement of emissions	Y	



**IV. Source-Specific Applicable Requirements**

**Table IV.A.3.5 Combustion  
 Source-specific Applicable Requirements**

**Furnace for which BAAQMD Regulation 9 Rule 10 does not apply but NSPS does apply**

**S-4349 F-1650 Furnace HNC Distillation Section RLOP (BO 2000)**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<b>BAAQMD Regulation 6</b>	<b>Particulate Matter and Visible Emissions (12/19/90)</b>		
6-301	Ringelmann No. 1 Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particle Weight Limitation	Y	
6-310.3	Heat transfer operations	Y	
<b>NSPS 40 CFR 60 Subpart J</b>	<b>Standards of Performance for Petroleum Refineries (7/1/00)</b>		
60.104	Standards for Sulfur Oxides: Compliance Schedule	Y	
60.104(a)(1)	Fuel gas H <sub>2</sub> S concentration limited to 230 mg/dscm (0.10 gr/dscf) except for gas burned as a result of process upset or gas burned at flares from relief valve leaks or other emergency malfunctions	Y	
60.105	Monitoring of Emissions and Operations	Y	
60.105(a)(4)	Monitoring requirement for H <sub>2</sub> S (dry basis) in fuel gas prior to Combustion (in lieu of separate combustion device exhaust SO <sub>2</sub> monitors as required by 60.105(a)(3))	Y	
60.105(e)(3)	Excess SO <sub>2</sub> emission definitions for 60.7©	Y	
<b>Condition #469</b>	<b>RLOP CAP, monthly CME</b> <b>Permit condition parts are listed below:</b>		
Part 6 E1	Burn only natural gas or refinery fuel gas [applies for S-4349]	Y	
Part 6 E2	20 ppmv Nox limit [applies for S-4349]	Y	
Part 6 E3	50 ppmv CO limit [applies for S-4349]	Y	
Part 6 E4	Source test may meet annual compliance demonstration requirement [applies for S-4349]	Y	

#### IV. Source-Specific Applicable Requirements

Table IV.A.4.1 Combustion (Engines)

Table IV.A.4.1 Combustion  
 Source-specific Applicable Requirements

Internal Combustion Engines

**S-7010 DIESEL ENGINE, S-7013 STANDBY GENERATOR DIESEL ENGINE, S-7501 IC ENGINE, S-7507 IC ENGINE, S-7511 IC Engine, S-7512 IC Engine, S-7513 IC Engine, S-7514 IC Engine, S-7515 IC Engine, S-7516 IC Engine, S-7517 IC Engine, S-7518 IC Engine, S-7521 IC Engine, S-7522 IC Engine, S-7523 IC Engine, S-7525 IC Engine, S-7526 IC Engine, and S-7531 IC Engine**  
**S-7502, S-7503, S-7504, S-7505, S-7508, S-7509, S-7527, S-7530, Engines under 250 hp**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<b>BAAQMD Regulation 6</b>	<b>Particulate Matter and Visible Emissions (12/19/90)</b>		
6-301	Ringelmann No. 1 Limitation (applies only to S-7010)	Y	
6-303	Ringelmann No. 2 Limitation	Y	
6-303.1	Engines used solely as a standby source of motive power (does not apply to S-7010)	Y	
6-305	Visible Particles	Y	
6-310	Particulate Weight Limitation	Y	
6-401	Appearance of Emissions	Y	
<b>BAAQMD Regulation 9 Rule 1</b>	<b>Inorganic Gaseous Pollutants – Sulfur Dioxide (3/15/95; SIP approved 5/20/92)</b>		
9-1-301	Limitations on Ground Level Concentrations	Y	
9-1-304	Fuel Burning (Liquid and Solid Fuels)	Y	
<b>BAAQMD Regulation 9 Rule 8</b>	<b>Inorganic Gaseous Pollutants – Nitrogen Oxides and Carbon Monoxide from Stationary Internal Combustion Engines (1/20/93)</b>		
9-8-330	Emergency standby engines, hours of operation(does not apply to S-7010)	N	
9-8-530	Emergency standby engines, monitoring and recordkeeping(does not apply to S-7010)	N	
<b>Condition # 20225</b>	<b>Applies to S-7501, S-7507 IC Engine, S-7510 IC Engine S-7511 IC Engine, S-7512 IC Engine, S-7513 IC Engine, S-7514 IC Engine, S-7515 IC Engine, S-7516 IC Engine, S-7517 IC Engine, S-7518 IC Engine, S-7520 IC Engine, S-7521 IC Engine, S-7522 IC Engine, S-7523 IC Engine, S-7524 IC Engine, S-7525 IC Engine, S-7526 IC Engine, S-7528 IC Engine, and S-7531 IC Engine</b>		
Part 1	Hours of Operation Limit (applies to S-7501 only)	N	
Part 2	Hour or Fuel Meter Requirement (applies to S-7501 only)	N	
Part 3	Records (applies to S-7501 only)	N	
Part 4	Hours of Operation Limit (applies to S-7507 IC Engine, S-7510 IC Engine S-7511 IC Engine, S-7512 IC Engine, S-7513 IC Engine, S-7514 IC Engine, S-7515 IC Engine, S-7516 IC Engine, S-7517 IC Engine, S-7518 IC Engine, S-7520 IC Engine, S-7521 IC Engine, S-7522 IC Engine, S-7523 IC Engine, S-7524 IC Engine, S-7525 IC Engine, S-7526 IC Engine, S-7528 IC Engine,	N	

**IV. Source-Specific Applicable Requirements**

**Table IV.A.4.1 Combustion  
 Source-specific Applicable Requirements**

**Internal Combustion Engines**

**S-7010 DIESEL ENGINE, S-7013 STANDBY GENERATOR DIESEL ENGINE, S-7501 IC ENGINE, S-7507 IC ENGINE, S-7511 IC Engine, S-7512 IC Engine, S-7513 IC Engine, S-7514 IC Engine, S-7515 IC Engine, S-7516 IC Engine, S-7517 IC Engine, S-7518 IC Engine, S-7521 IC Engine, S-7522 IC Engine, S-7523 IC Engine, S-7525 IC Engine, S-7526 IC Engine, and S-7531 IC Engine  
 S-7502, S-7503, S-7504, S-7505, S-7508, S-7509, S-7527, S-7530, Engines under 250 hp**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	and S-7531 IC Engine only)		
Part 5	Hour or Fuel Meter Requirement (applies to S-7507 IC Engine, S-7510 IC Engine S-7511 IC Engine, S-7512 IC Engine, S-7513 IC Engine, S-7514 IC Engine, S-7515 IC Engine, S-7516 IC Engine, S-7517 IC Engine, S-7518 IC Engine, S-7520 IC Engine, S-7521 IC Engine, S-7522 IC Engine, S-7523 IC Engine, S-7524 IC Engine, S-7525 IC Engine, S-7526 IC Engine, S-7528 IC Engine, and S-7531 IC Engine only)	N	
Part 6	Records (applies to S-7507 IC Engine, S-7510 IC Engine S-7511 IC Engine, S-7512 IC Engine, S-7513 IC Engine, S-7514 IC Engine, S-7515 IC Engine, S-7516 IC Engine, S-7517 IC Engine, S-7518 IC Engine, S-7520 IC Engine, S-7521 IC Engine, S-7522 IC Engine, S-7523 IC Engine, S-7524 IC Engine, S-7525 IC Engine, S-7526 IC Engine, S-7528 IC Engine, and S-7531 IC Engine only)	N	
Condition 20366	Applies to S-7010		
Part 1	Hours of operation	N	
Part 2	Emissions limits	Y	
Part 3	Time recorder	N	
Part 4	California diesel requirement	N	
Part 5	Record keeping	N	
Condition 22569	Applies to S-7013		
Part 1	Hours of operation	N	
Part 2	Time recorder	N	
Part 3	Record keeping	N	
Part 4	California ATCM diesel requirement	N	

#### IV. Source-Specific Applicable Requirements

Table IV.A.5.1 Combustion (Boilers)

Table IV.A.5.1 Combustion  
 Source-specific Applicable Requirements

Boilers

S-4129 800 lb. Steam Boiler No. 1, S-4131 800 lb. Steam Boiler No. 3, S-4132 800 lb. Steam Boiler No. 4, S-4133 800 lb. Steam Boiler No. 5, S-4135 800 lb. Steam Boiler No. 7

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<b>BAAQMD Regulation 1</b>	<b>General Provisions and Definitions (11/15/00)</b>		
1-520	Continuous Emission Monitoring	Y	
1-520.8	Monitors pursuant to Regulation 2-1-403	Y	
1-521	Monitoring May Be required	Y	
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	N	
1-523	Parametric Monitoring and Recordkeeping Procedures	N	
1-602	Area and Continuous Monitoring Requirements	N	
<b>SIP Regulation 1</b>	<b>PROVISIONS NO LONGER IN CURRENT RULE        General Provisions and Definitions (6/28/99) [adopted 10/7/98]</b>		
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	Y	
<b>BAAQMD Regulation 2 Rule 1</b>	<b>Regulation 2, Rule 1 – Permits, General Requirements (5/2/01; SIP approved 1/26/99 {adopted 11/01/89}) [Applicable if Subject to CEM Monitoring, either by BAAQMD 9-9 or permit condition (BACT)]</b>		
2-1-403	Permit conditions-measurement of emissions	N	
2-1-501	Monitors	Y	
<b>SIP Regulation 2 Rule 1</b>	<b>PROVISIONS NO LONGER IN CURRENT RULE        Permits, General Requirements (1/26/99 {adopted 11/01/89}) [Applicable if Subject to CEM Monitoring, either by BAAQMD 9-9 or permit condition (BACT)]</b>		
2-1-403	Permit conditions-measurement of emissions	Y	
<b>BAAQMD Regulation 6</b>	<b>Particulate Matter and Visible Emissions (12/19/90)</b>		
6-301	Ringelmann No. 1 Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particle Weight Limitation	Y	
6-310.3	Heat transfer operations	Y	
<b>BAAQMD Regulation 9 Rule 10</b>	<b>Inorganic Gaseous Pollutants – Nitrogen Oxides and Carbon Monoxide from Boilers, Steam Generators, and Process Heaters in Petroleum Refineries (7/17/02)</b>		
9-10-301	Emission Limit for Facility, Nox: 0.033 lbs Nox/MMBTU	N	7/1/02 [plant did reform. Fuels project]
9-10-301.1	Start-up/Shutdown Contribution	N	7/1/02 [plant did reform. Fuels project]

**IV. Source-Specific Applicable Requirements**

**Table IV.A.5.1 Combustion  
 Source-specific Applicable Requirements**

**Boilers**

**S-4129 800 lb. Steam Boiler No. 1, S-4131 800 lb. Steam Boiler No. 3, S-4132 800 lb. Steam Boiler No. 4, S-4133 800 lb. Steam Boiler No. 5, S-4135 800 lb. Steam Boiler No. 7**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
9-10-301.2	Out-of-Service Units Contribution	N	7/1/02 [plant did reform. Fuels project]
9-10-301.3	Test-firing on Non-gaseous fuel Contribution	N	7/1/02 [if plant did reform. Fuels project]
9-10-303	Emission Limit for Facility (Federal Requirements)	Y	[Not applicable for CO boilers]
9-10-305	CO emission limit	N	7/1/02 [plant did reform. Fuels project]
9-10-403	Clean-Fuel Extension Compliance Date	N	7/1/02 [plant did reform. Fuels project]
9-10-502	Monitoring	Y	7/1/02 [plant did reform. Fuels project]
9-10-502.1	CEMS for Nox, CO, and O2	N	7/1/02 [plant did reform. Fuels project]
9-10-502.2	Fuel flowmeters	Y	7/1/02 [plant did reform. Fuels project]
9-10-504	Recordkeeping	N	7/1/02 [plant did reform. Fuels project]
9-10-505	Reporting	N	7/1/02 [plant did reform. Fuels project]
<b>NSPS 40 CFR 60 Subpart J</b>	<b>Standards of Performance for Petroleum Refineries (7/1/00)</b>		
60.104	Standards for Sulfur Oxides: Compliance Schedule	Y	

#### IV. Source-Specific Applicable Requirements

**Table IV.A.5.1 Combustion  
 Source-specific Applicable Requirements**

**Boilers**

**S-4129 800 lb. Steam Boiler No. 1, S-4131 800 lb. Steam Boiler No. 3, S-4132 800 lb. Steam Boiler No. 4, S-4133 800 lb. Steam Boiler No. 5, S-4135 800 lb. Steam Boiler No. 7**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.104(a)(1)	Fuel gas H <sub>2</sub> S concentration limited to 230 mg/dscm (0.10 gr/dscf) except for gas burned as a result of process upset or gas burned at flares from relief valve leaks or other emergency malfunctions	Y	
60.105	Monitoring of Emissions and Operations	Y	
60.105(a)(4)	Monitoring requirement for H <sub>2</sub> S (dry basis) in fuel gas prior to Combustion (in lieu of separate combustion device exhaust SO <sub>2</sub> monitors as required by 60.105(a)(3))	Y	
60.105(e)(3)	Excess SO <sub>2</sub> emission definitions for 60.7©	Y	
Condition #469	RLOP CAP, monthly CME	Y	
<b>Condition #16650</b>	<b>Permit condition parts are listed below:</b>		
Part 1	Operate Nox, O <sub>2</sub> , fuel rate meters [applies to S-4129, S-4131]	N	
Part 2	Max firing rate [applies to S-4129]	Y	
Part 3	Max firing rate [applies to S-4131]	Y	
Part 4	Daily Records for 5 years of CEM data, Nox mass emissions, fuel use & heat content [applies to S-4129, S-4131]	Y	
Part 5	CO source test and CEM if failed (applies to S04129, S-4131)	Y	
<b>Condition #16686</b>			
Part 1	Firing Limits [applies for S-4131, S-4132, S-4133]	Y	
<b>Condition #17675</b>	<b>Permit condition parts are listed below:</b>		
Part 1	Operate Nox, O <sub>2</sub> , fuel gas meters [applies to S-4132, S-4135]	Y	
Part 2	Semi-annual CO Source Tests (applies to S-4132, S-4135)	Y	
Part 3	Max Fuel firing rate limit (applies to S-4132)	N	
Part 4	Max Fuel firing rate limit (applies to S-4135)	N	
Part 5	Maintain daily records (applies to S-4132, S-4135)	Y	
<b>Condition #18029</b>	<b>Permit condition parts are listed below:</b>		
Part 1	Semi-annual CO Source Tests (applies to S-4133)	Y	
Part 2	Operate Nox and O <sub>2</sub> CEMs and fuel flow meter (applies to S-4133)	Y	
Part 3	Maintain daily records (applies to S-4133)	Y	

**IV. Source-Specific Applicable Requirements**

**Table IV.A.5.1 Combustion  
 Source-specific Applicable Requirements**

**Boilers**

**S-4129 800 lb. Steam Boiler No. 1, S-4131 800 lb. Steam Boiler No. 3, S-4132 800 lb. Steam Boiler No. 4, S-4133 800 lb. Steam Boiler No. 5, S-4135 800 lb. Steam Boiler No. 7**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Condition #21232	New Nox Box Conditions [effective 6/1/04]	N	1/1/05
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	9/1/04
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 8	CO source test (basis: Regulation 9-10-502, 1-522)	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	

**Table IV.B.1.1 Loading Terminals (Asphalt)**

**Table IV.B.1.1 Loading Terminals  
 Source-specific Applicable Requirements**

**Asphalt**

**S-4240 Asphalt Tank Truck Loading Rack abated by A-4241 Mist Eliminator, S-4241 Asphalt Tank Car Loading Rack abated by A-4241 Mist Eliminator, S-4415 Asphalt Tank Truck Loading Rack abated by A-0037 Mist Eliminator**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 6	Particulate Matter and Visible Emissions (12/19/90)		

**IV. Source-Specific Applicable Requirements**

**Table IV.B.1.1 Loading Terminals  
 Source-specific Applicable Requirements**

**Asphalt**

**S-4240 Asphalt Tank Truck Loading Rack abated by A-4241 Mist Eliminator, S-4241 Asphalt Tank Car Loading Rack abated by A-4241 Mist Eliminator, S-4415 Asphalt Tank Truck Loading Rack abated by A-0037 Mist Eliminator**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
6-301	Ringelmann No. 1 Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particulate Weight Limitation	Y	
6-401	Appearance of Emissions	Y	
<b>BAAQMD Regulation 8 Rule 15</b>	<b>Organic Compounds, Emulsified and Liquid Asphalts (9/16/87)</b>		
8-15-305	Prohibition of Manufacture and Sale	Y	
8-15-501	Records	Y	
<b>Condition #1331</b>	<b>Permit condition parts are listed below:</b>		
Part 1	Applies to S-4415: Abated by A-0037 mist eliminator except when the abatement device A-0037 is down for cleaning or repairs	Y	
Part 2	Applies to S-4415; Chevron shall not load more than 238,000 gallons of asphalt per day when the abatement device A-0037 is down for cleaning or repairs	Y	
Part 3	Daily throughput records when A-0037 is down for cleaning or repairs	Y	
Condition #469	Refinery Cap	Y	



#### IV. Source-Specific Applicable Requirements

**Table IV.B.2.1 Loading Terminals (Gasoline)**

**Table IV.B.2.1 Loading Terminals  
 Source-specific Applicable Requirements**

**Gasoline**

**S-9304 Gasoline Dispensing Facility**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
<b>BAAQMD Regulation 8 Rule 7</b>	<b>Organic Compounds – Gasoline Dispensing Facilities (11/17/99)</b>		
8-7-301	Phase I Requirements	Y	
8-7-301.1	Requirement for CARB Phase I System	Y	
8-7-301.2	Installation of Phase I Equipment per CARB Requirements	Y	
8-7-301.3	Submerged Fill Pipes	Y	
8-7-301.5	Maintenance of Phase I Equipment per Manufacturers Guidelines or CARB Executive Order	Y	
8-7-301.6	Leak-Free, Vapor-Tight	Y	
8-7-301.7	Poppeted Drybreaks	Y	
8-7-301.8	No Coaxial Phase I Systems on New and Modified Tanks	Y	
8-7-301.9	CARB-Certified Anti-Rotational Coupler or Swivel Adapter	Y	
8-7-301.10	System Vapor Recovery Rate	Y	
8-7-301.11	CARB-Certified Spill Box	Y	
8-7-301.12	Drain Valve Permanently Plugged	Y	
8-7-302	Phase II Requirements	Y	
8-7-302.1	Requirement for CARB Certified Phase II System	Y	
8-7-302.2	Maintenance of Phase II System per CARB Requirements	Y	
8-7-302.3	Maintenance of All Equipment as Specified by Manufacturer	Y	
8-7-302.4	Repair of Defective Parts Within 7 Days	Y	
8-7-302.5	Leak-Free, Vapor-Tight	Y	
8-7-302.6	Insertion Interlocks	Y	
8-7-302.7	Built-in Vapor Check Valve	Y	
8-7-302.8	Minimum Liquid Removal Rate	Y	
8-7-302.9	Coaxial Hose	Y	
8-7-302.10	Galvanized Piping or Flexible Tubing	Y	
8-7-302.11	ORVR Compatible	Y	
8-7-302.12	Liquid Retainment Limit	Y	

**IV. Source-Specific Applicable Requirements**

**Table IV.B.2.1 Loading Terminals  
 Source-specific Applicable Requirements**

**Gasoline**

**S-9304 Gasoline Dispensing Facility**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
8-7-302.13	Spitting Limit	Y	
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	
8-7-501	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	
Condition #710	Flow Limiter Requirement – Limit flowrate to 8.0 to 8.6 gal/min	N	
Condition #711	Vapor Flow Rate – not to exceed 17.2 gal/min	N	
Condition #712	Magnahelic Pressure Gauge Requirement	N	
Condition 7880	Throughput limit	N	
CARB State Exec. Order G-70-138 condition 20666	Applies to S-9304	N	

**IV. Source-Specific Applicable Requirements**

**Table IV.B.3.1 Loading Terminals (LPG)**

**Table IV.B.3.1 Loading Terminals  
 Source-specific Applicable Requirements**

**LPG**

**S-4238 Liquefied Petroleum Gas Loading Rack, 15 Pumps**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
<b>BAAQMD Regulation 8 Rule 6</b>	<b>Organic Compounds-Organic Liquid Bulk Terminals and Bulk Plants (2/2/94)</b>		
8-6-117	Exemption, Liquefied Organic Gases	Y	
8-6-503	Burden of Proof	Y	
Permit Condition 469	Refinery Cap		

**Table IV.B.4.1 Loading Terminals (Wax)**

**Table IV.B.4.1 Loading Terminals  
 Source-specific Applicable Requirements**

**Wax**

**S-4239 Main Tank Car Loading Rack S-4405 Heavy Oil Transloading Operation --**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
<b>BAAQMD Regulation 8 Rule 6</b>	<b>Organic compounds-Organic Liquid Bulk Terminals and Bulk Plants (2/2/94)</b>		
8-6-111	Low Throughput exemption (Limited exemption applies to S-4239 and S-4405)	Y	
8-6-301	CARB Certification and VOC limit 21g/cubic meter	Y	
8-6-302.1	CARB Certification and VOC limit 44 g/cubic meter	Y	
8-6-302.2	Submerged Fill pipe, bottom filling, or a vapor loss control system	Y	
8-6-503	Burden of Proof	Y	
Condition #469	Bubble Condition	Y	
Condition 20863	Applies to S-4405	N	

#### IV. Source-Specific Applicable Requirements

Table IV.B.5.1 Loading Terminals (Wharf)

Table IV.B.5.1 Loading Terminals  
 Source-specific Applicable Requirements

Wharf

**S-4315 Point Orient Wharf, S-9321 Berth #1 Long Wharf 4 Arms, S-9322 Berth #2 Long Wharf 18 Risers, S-9323 Berth #3 Long Wharf 6 Arms, S-9324 Berth #4 Long Wharf 5 Arms, S-9325 Berth #9 Long Wharf 15 Risers, S-9326 Berth #11 Long Wharf 2 Risers (S-9322, S-9323, S-9324, S-9325 abated by A-0900 Marine Vapor Recovery)**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<b>BAAQMD Regulation 8 Rule 44</b>	<b>Organic Compounds-Marine Vessel Loading Terminals (1/4/89)</b>		
8-44-301	Marine Terminal Loading Limit	Y	
8-44-301.1	Limited to 5.7 gram per cubic meter (2 lb per 1000 bbls) of organic liquid loaded, or	Y	
8-44-301.2	POC emissions reduced 95% by weight from uncontrolled conditions	Y	
8-44-302	Emission control equipment	Y	
8-44-303	Operating practice	Y	
8-44-304	Equipment Maintenance	Y	
8-44-304.1	Certified leak free, gas tight and in good working order	Y	
8-44-304.2	Loading ceases any time gas or liquid leaks are discovered	Y	
8-44-305	Ozone excess day prohibition	Y	
8-44-402	Safety/Emergency Operations	Y	
8-44-402.1	Rule does not require act/omission in violation of Coast Guard/other rules	Y	
8-44-402.2	Rule does not prevent act/omission for vessel safety or saving life at sea	Y	
8-44-501	Record keeping	Y	
8-44-501.1	Name and location	Y	
8-44-501.2	Responsible company	Y	
8-44-501.3	Dates and times	Y	
8-44-501.4	Name, registry of the vessel loaded and legal owner	Y	
8-44-501.5	Prior cargo carried	Y	
8-44-501.6	Type, amount of liquid cargo loaded	Y	
8-44-501.7	Condition of tanks	Y	
8-44-502	Burden of proof	Y	
<b>Condition #4714</b>	<b>Permit condition parts are listed below:</b>		
Part 3	A-0900 instrumentation to monitor and record parameters	Y	
Part 6	A-0900 Vapor Recovery System exhaust temperature limit	Y	

**IV. Source-Specific Applicable Requirements**

**Table IV.B.5.1 Loading Terminals  
 Source-specific Applicable Requirements**

**Wharf**

**S-4315 Point Orient Wharf, S-9321 Berth #1 Long Wharf 4 Arms, S-9322 Berth #2 Long Wharf 18 Risers, S-9323 Berth #3 Long Wharf 6 Arms, S-9324 Berth #4 Long Wharf 5 Arms, S-9325 Berth #9 Long Wharf 15 Risers, S-9326 Berth #11 Long Wharf 2 Risers (S-9322, S-9323, S-9324, S-9325 abated by A-0900 Marine Vapor Recovery)**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 8	S-9322, S-9323, S-9324, S-9325 loading pressure limit	Y	
Part 9	A-0900 recordkeeping requirements	Y	
Condition #18137	Throughput Limits	N	
Condition # 469	Refinery Cap	Y	
Condition #23201	Applies to A-0900	Y	
Part 1	Source subjects to NSPS Subparts A and J	Y	

**Table IV.C.1.1 Process Units (Colling Water Towers)**

**Table IV.C.1.1 Process Units  
 Source-specific Applicable Requirements**

**Cooling Water Towers**

**S-4073 LSFO, S-4076 #3 Cat, S-4172 Isomax E-261F, S-4173 FCC E-710, S-4187 FCC Polymer E-781, S-4191 SRU (Alkane) E-2900, S-4329 RLOP Cooling Tower, S-6051 ALKY CWT**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<b>BAAQMD Regulation 6</b>	<b>Particulate Matter and Visible Emissions (12/19/90)</b>		
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	
<b>Condition #14596</b>	<b>Permit condition parts are listed below:</b>		

**IV. Source-Specific Applicable Requirements**

**Table IV.C.1.1 Process Units  
 Source-specific Applicable Requirements**

**Cooling Water Towers**

**S-4073 LSFO, S-4076 #3 Cat, S-4172 Isomax E-261F, S-4173 FCC E-710, S-4187 FCC Polymer E-781, S-4191 SRU (Alkane) E-2900, S-4329 RLOP Cooling Tower, S-6051 ALKY CWT**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 1	Organic compound emissions from S-6051 shall not exceed 23.7 lb/day, averaged over any consecutive 30-day period.	Y	
Part 2	Total dissolved solids in the S-6051 basin shall not exceed 2000 parts per million (wt), average over any consecutive 30-day period.	Y	
<b>Condition #14596</b>	<b>Permit condition parts are listed below supersede those listed above after completion of work described in application #13023 (effective TBA):</b>		
Part 1	Organic compound emissions from S-6051 shall not exceed 30.2 lb/day, averaged over any consecutive 12-month period.	Y	
Part 2	Total dissolved solids in the S-6051 basin shall not exceed 2000 parts per million (wt), average over any consecutive 30-day period.	Y	
Part 3	Owner /operator to install a District-approved continuous hydrocarbon analyzer and recorder to determine the hydrocarbon concentration in the cooling water. Establish an Action Level for hydrocarbon concentration and an alarm when readings exceed this value	Y	
Part 4	When an alarm in Part 3 is triggered, check S-6051 vapor space daily with District-approved LEL meter	Y	
Part 5	Respond to heat exchanger leaks in accordance with methods and time limits established in Part 5.	Y	
Part 6	Monthly test for TDS and records are required	Y	
Part 7	Owner/ operator shall use volatile organic concentration data from the continuous hydrocarbon analyzer (part 3) and the flowrate data from a district-approved flowmeters installed at district-approved sample port locations. Hydrocarbon analyzer concentration data, flowrate data, and daily emissions estimates records are required	Y	
Part 8	Hydrocarbon analyzer data, flowmeter data, daily emissions data, date and time of all alarms, a summary of the baseline and action levels data, a description of findings and actions taken for each incident above the Action level, and all LEL measurements records are required.	Y	
<b>Condition #10597</b>	<b>Permit condition parts are listed below:</b>		
Part 1	Hydrocarbon emissions from S-6054 shall not exceed 2.5 lbs/day, averaged over any 30-day consecutive period.	Y	
Part 2	Total dissolved solids at the S-6054 inlet shall not exceed 1000 ppm (wt), averaged over any consecutive 30 day period	Y	
<b>Condition #10598</b>	<b>Permit condition parts are listed below:</b>		

**IV. Source-Specific Applicable Requirements**

**Table IV.C.1.1 Process Units  
 Source-specific Applicable Requirements**

**Cooling Water Towers**

**S-4073 LSFO, S-4076 #3 Cat, S-4172 Isomax E-261F, S-4173 FCC E-710, S-4187 FCC Polymer E-781, S-4191 SRU (Alkane) E-2900, S-4329 RLOP Cooling Tower, S-6051 ALKY CWT**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 1	Hydrocarbon emissions from S-6055 shall not exceed 2.5 lbs/day, averaged over any 30 day consecutive period	Y	
Part 2	Total dissolved solids at the S-6055 inlet shall not exceed 1000 ppm (wt), averaged over any consecutive 30 day period	Y	

**Table IV.C.1.2 Process Units (FCC)**

**Table IV.C.2.1 Process Units  
 Source-specific Applicable Requirements**

**FCC**

**S-4285 Fluid Catalytic Cracking Unit, Catalyst Regenerator abated by A-0014 Electro-Static Precipitator**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<b>BAAQMD Regulation 1</b>	<b>General Provisions and Definitions (5/02/01)</b>		
1-301	Public Nuisance Prohibition	N	
1-501	Sampling Facilities	Y	
1-520	Continuous Emission Monitoring	Y	
1-520.5	SO2 and opacity monitors at catalyst regenerators of FCC units	Y	
1-521	Monitoring	Y	
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	N	
1-522.1	Approval of plans and specifications	Y	
1-522.2	Scheduling requirements	Y	
1-522.3	CEM performance testing	Y	
1-522.4	Reporting of inoperative CEMs	Y	
1-522.5	CEM calibration requirements	Y	
1-522.6	CEM accuracy requirements	Y	
1-522.7	Emission limit exceedance reporting requirements	N	
1-522.8	Monitoring data submittal requirements	Y	

**IV. Source-Specific Applicable Requirements**

**Table IV.C.2.1 Process Units  
 Source-specific Applicable Requirements**

**FCC**

**S-4285 Fluid Catalytic Cracking Unit, Catalyst Regenerator abated by A-0014 Electro-Static Precipitator**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
1-522.9	Recordkeeping requirements	Y	
1-522.10	Monitors	Y	
<b>SIP BAAQMD Regulation 1</b>	<b>General Provisions and Definitions (10/7/98)</b>	Y	
1-301	Public Nuisance Prohibition	Y	
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	Y	
1-522.7	Emission limit exceedance reporting requirements	Y	
<b>BAAQMD Regulation 6</b>	<b>Particulate Matter and Visible Emissions (12/19/90)</b>		
6-301	Ringelmann No. 1 Limitation	Y	
6-302	Opacity Limitation (where opacity monitor is required by the District)	Y	
6-304	Tube Cleaning	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	
<b>BAAQMD Regulation 9 Rule 1</b>	<b>Inorganic Gaseous Pollutants – Sulfur Dioxide (3/15/95)</b>		
9-1-310	Emission Limitations for Fluid Catalytic Cracking Units, Fluid Cokers, and Coke Calcining Kilns	Y	
9-1-310.1	Catalytic cracking unit emission limitation	Y	
9-1-313	Sulfur Removal Operations at Petroleum Refineries (processing more than 20,000 bbl/day of crude oil)	Y	
9-1-313.1	Crude oil sulfur content does not exceed 0.10 percent by weight, or	Y	
9-1-313.2	Operation of a sulfur removal and recovery system that removes and recovers: 95% of H <sub>2</sub> S from refinery fuel gas, 95% of H <sub>2</sub> S and ammonia from process water streams (sulfur recovery is required when a facility removes 16.5 ton/day or more of elemental sulfur).	Y	
9-1-502	Emission Monitoring Requirements (Regulations 1-520, 1-522)	Y	



#### IV. Source-Specific Applicable Requirements

**Table IV.C.2.1 Process Units  
 Source-specific Applicable Requirements**

**FCC**

**S-4285 Fluid Catalytic Cracking Unit, Catalyst Regenerator abated by A-0014 Electro-Static Precipitator**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<b>SIP Regulation 9 Rule 1</b>	<b>Inorganic Gaseous Pollutants – Sulfur Dioxide (5/20/92) [only provisions which are different than current BAAQMD regulation are listed]</b>	<b>Y</b>	
9-1-313.2	Operation of a sulfur removal and recovery system that removes and recovers: 95% of H <sub>2</sub> S from refinery fuel gas, 95% of H <sub>2</sub> S and ammonia from process water streams	Y	
<b>40 CFR 60 Subpart J</b>	<b>Standards of Performance for Petroleum Refineries (8/17/89)</b>	<b>Y</b>	
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	
60.103	Standard for Carbon Monoxide	Y	
60.103(a)	Limit on carbon monoxide emissions from catalyst regenerator	Y	
60.104	Standard for Sulfur Oxides	Y	
60.104(b)(2)	Limit on sulfur oxide emissions from catalyst regenerator without add-on control device, OR	Y	
60.104(b)(3)	Limit on sulfur content of fluid catalytic cracking unit feed	Y	
60.104©	Compliance determined daily on rolling 7-day basis	Y	
60.104I	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(a)(2) (i)	Requirement on the span of the CO monitoring device	Y	
60.105(a)(2) (ii)	Exemption from continuous CO concentration emission monitoring	Y	
60.105 ©	Recording requirement for coke burn-off rate	Y	
60.105 (e)(1)	Opacity excesses	Y	
60.105 (e)(2)	Carbon monoxide excesses	Y	
60.106	Test methods and procedures	Y	
60.106(b)(3)	Coke burn rate equation	Y	
60.106(I)(12)	Alternative Method for Determining Compliance		
60.107	Reporting and recordkeeping requirements.	Y	

#### IV. Source-Specific Applicable Requirements

**Table IV.C.2.1 Process Units  
 Source-specific Applicable Requirements**

**FCC**

**S-4285 Fluid Catalytic Cracking Unit, Catalyst Regenerator abated by A-0014 Electro-Static Precipitator**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.108	Performance test and compliance provisions.	Y	
<b>40 CFR 63 Subpart UUU</b>	<b>National Emission Standards for Hazardous Pollutants for Petroleum Refineries: Catalytic Cracking Units, Catalytic Reforming Units, and Sulfur Recovery Units (4/11/02)</b>	<b>Y</b>	Notifi- cation by 8/9/02; com- pliance by 4/11/05
63.1561	Subject to this subpart	Y	4/11/05
63.1562	Parts of plants that are covered (including exemptions)	Y	4/11/05
63.1563	When to comply	Y	4/11/05
63.1564	Requirement for metal hap emissions for catalytic cracking units	Y	4/11/05
63.1564(a)(1)	Catalytic cracking unit is subject to NSPS for PM in 60.102	Y	4/11/05
63.1564(a)(3)	Operation, maintenance, and monitoring plan (OMMP)	Y	4/11/05
63.1564(a)(4)	Emission and operating limit does not apply during pre-approved planned mtce	Y	4/11/05
63.1564(b)(1)	Continuous monitoring systems requirement (COMS required)	Y	4/11/05
63.1564(b)(5)	Initial compliance per table 5 (no new test if unit is NSPS but must certify)	Y	4/11/05
63.1564(b)(6)	Submit OMMP to permit authority with NOCS	Y	4/11/05
63.1564(b)(7)	Submit NOCS	Y	4/11/05
63.1564©(1)	Demonstrate continuous compliance	Y	4/11/05
63.1564(c)(2)	Maintain records documenting compliance with OMMP	Y	4/11/05
63.1565	Requirements for organic hap emissions form catalytic cracking units	Y	4/11/05
63.1565(a)(1)	Catalytic cracking unit is subject to NSPS for CO in 60.103	Y	4/11/05
63.1565(a)(3)	Operation, maintenance, and monitoring plan (OMMP)	Y	4/11/05
63.1565(a)(4)	Emission and operating limit does not apply during pre-approved planned mtce	Y	4/11/05
63.1565(b)(1)	Continuous monitoring systems requirement (CO CEMS required)	Y	4/11/05
63.1565(b)(1)(i)	CO CEMS not required, upon written request, if 30 days average<50 ppm CO	Y	4/11/05
63.1565(b)(4)	Initial compliance per table 12 (no new test if unit is NSPS, but must certify)	Y	4/11/05

#### IV. Source-Specific Applicable Requirements

**Table IV.C.2.1 Process Units  
 Source-specific Applicable Requirements**

**FCC**  
**S-4285 Fluid Catalytic Cracking Unit, Catalyst Regenerator abated by A-0014 Electro-Static Precipitator**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.1565(b)(5)	Submit OMMP to permit authority with NOCS	Y	4/11/05
63.1565(b)(6)	Submit NOCS	Y	4/11/05
63.1565(c)(1)	Demonstrate continuous compliance per tables 13 and 14	Y	4/11/05
63.1565(c)(2)	Comply with OMMP procedures	Y	4/11/05
63.1569	Bypass lines	Y	4/11/05
63.1570	General requirements	Y	4/11/05
63.1570(d)	Develop & implement a SSMP	Y	4/11/05
63.1570(e)	During periods of SSM, operate in accordance with your SSMP	Y	4/11/05
63.1570(f)	Report all instances not in compliance with limits or work practice standards	Y	4/11/05
63.1571	Initial performance test requirements	Y	4/11/05
63.1572	Monitoring, installation, operation, & maintenance requirements	Y	4/11/05
63.1573	Monitoring alternatives	Y	4/11/05
63.1574	Notification requirements	Y	4/11/05
63.1575	Reporting requirements	Y	4/11/05
63.1576	Recordkeeping requirements	Y	4/11/05
63.1577	General provision applicability	Y	4/11/05
<b>Condition #11066</b>	<b>Permit condition parts are listed below:</b>	Y	
Part 1	FCC Feedrate [applicable to S-4285]	Y	
Part 2	POC & PM-10 Source Test [applicable to S-4285]	Y	
Part 3	Criteria Pollutant TPY limits [applicable to S-4285]	Y	
Part 4	330 ppmv SO2 limit [applicable to S-4285]	Y	
Part 5	NOx limits [applicable to S-4285]	Y	
Part 6	CO limits [applicable to S-4285]	Y	
Part 7	TSP limit/ESP energized [applicable to S-4285 and A0014]	Y	
Part 7a1	ESP rappers inspection & repair [applicable to S-4285 and A0014]	Y	
Part 7a3	Transformer Rectifier (TR) readings [applicable to S-4285 and A0014]	Y	
Part 7a4	ESP Inlet Temperature [applicable to S-4285 and A0014]	Y	
Part 7a5	TR Limits [applicable to S-4285 and A0014]	Y	

**IV. Source-Specific Applicable Requirements**

**Table IV.C.2.1 Process Units  
 Source-specific Applicable Requirements**

**FCC**

**S-4285 Fluid Catalytic Cracking Unit, Catalyst Regenerator abated by A-0014 Electro-Static Precipitator**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 7b	TSP Source Testing [applicable to S-4285 and A0014]	Y	
Part 7c	District approved monthly log [applicable to S-4285 and A0014]	Y	
Part 9	SOx, NOx, & CO CEM required [applicable to S-4285]	Y	
Part 10a	9.8 lb SOx/1000 lb coke burned limit [applicable to S-4285] (source follows this now) OR	Y	
Part 10b	Feed < 0.3 wt. Sulfur [applicable to S-4285] (source does not follow this now, but has option to)	Y	
Part 11	Recordkeeping: Daily log [applicable to S-4285]	Y	
Part 14	Start-Up 7-day grace period [applicable to S-4285]	Y	
Part 15	NH3 Injection Rate Upper Limit [applicable to S-4285]	N	
<b>Condition #18655</b>	<b>Permit condition parts are listed below:</b>	Y	
Part 2	Source test requirement for compliance with 6-330	Y	

**Table IV.C.3.1 Process Units (Miscellaneous Process Units)**

**Table IV.C.3.1 Process Units  
 Source-specific Applicable Requirements**

**Miscellaneous Process Units**

**S-4155 F-135 Hot Oil Furnace, S-4226 FGHT FCC Gasoline Hydrotreater, S-4233 Jet Hydrotreater, S-4234 No. 5 Naphtha Hydrotreater, S-4235 Diesel Hydrotreater, (DHT), S-4236 No. 4 Crude Unit, S-4237 No. 5 Rheniformer, S-4250 Hydrogen Manufacturing, S-4251 Solvent Deasphalting Plant (SDA), S-4252 TKN Isocracker Plant, S-4253 TKC Isocracker Plant, S-4261 Wax Deoiler No. 2, S-4262 Wax Rerun Plant, S-4265 Lube/Wax Refinishing, S-4282 Penhex Isomerization Plant, S-4283 No. 4 Catalytic Reformer, S-4286 FCC Gas Recovery Unit Light Ends Recovery GRU, S-4291 H2SO4 Alkylation Plant, S-4292 FCC Polymer Plant, S-4340 Light Neutral Hydrocracker (LNC), S-4341 Light Neutral Hydrofinisher (LNHF), S-4342 Heavy Neutral Hydrocracker (HNHC), S-4343 Heavy Neutral Hydrofinisher (HNHF), S-4346 Gas Recovery Unit (GRU RLOP), S-4348 H2 Recovery Plant (RLOP), S-4355 Alky (Yard) DIB S-4354 Butamer Plant, S-4356 Tertiary Amyl Methyl Ether Plant (TAME), S-4360 Perc Storage Vessel, S-4400 Wax Melt Vessel, S-6050 MTBE Plant**

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

#### IV. Source-Specific Applicable Requirements

**Table IV.C.3.1 Process Units  
 Source-specific Applicable Requirements**

**Miscellaneous Process Units**

S-4155 F-135 Hot Oil Furnace, S-4226 FGHT FCC Gasoline Hydrotreater, S-4233 Jet Hydrotreater, S-4234 No. 5 Naphtha Hydrotreater, S-4235 Diesel Hydrotreater, (DHT), S-4236 No. 4 Crude Unit, S-4237 No. 5 Rheniformer, S-4250 Hydrogen Manufacturing, S-4251 Solvent Deasphalting Plant (SDA), S-4252 TKN Isocracker Plant, S-4253 TKC Isocracker Plant, S-4261 Wax Deoiler No. 2, S-4262 Wax Rerun Plant, S-4265 Lube/Wax Refinishing, S-4282 Penhex Isomerization Plant, S-4283 No. 4 Catalytic Reformer, S-4286 FCC Gas Recovery Unit Light Ends Recovery GRU, S-4291 H2SO4 Alkylation Plant, S-4292 FCC Polymer Plant, S-4340 Light Neutral Hydrocracker (LNC), S-4341 Light Neutral Hydrofinisher (LNHF), S-4342 Heavy Neutral Hydrocracker (HNHC), S-4343 Heavy Neutral Hydrofinisher (HNHF), S-4346 Gas Recovery Unit (GRU RLOP), S-4348 H2 Recovery Plant (RLOP), S-4355 Alky (Yard) DIB S-4354 Butamer Plant, S-4356 Tertiary Amyl Methyl Ether Plant (TAME), S-4360 Perc Storage Vessel, S-4400 Wax Melt Vessel, S-6050 MTBE Plant

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<b>40 CFR 63 Subpart UUU</b>	<b>National Emission Standards for Hazardous Pollutants for Petroleum Refineries: Catalytic Cracking Units, Catalytic Reforming Units, and Sulfur Recovery Units (4/11/02)</b> (applies to S-4237, S-4283 only)	<b>Y</b>	Notification by 8/9/02; compliance by 4/11/05
63.1561	Subject to this subpart (applies to S-4237, S-4283 only)	Y	4/11/05
63.1562	Parts of plants that are covered (including exemptions) (applies to S-4237, S-4283 only)	Y	4/11/05
63.1562(f)(5)	Subpart does not apply to gaseous streams routed to a fuel gas system (exempts S-4237 & S-4283 from 63.1566 because these de-pressure & purge to fuel gas)	Y	4/11/05
63.1563	When to comply (applies to S-4237, S-4283 only)	Y	4/11/05
63.1567	Requirements for inorganic hap emissions from catalytic reforming units (S-4237, S-4283 only)	Y	4/11/05
63.1567(a)(1)	Emission limit (S-4237, S-4283 only)	Y	4/11/05
63.1567(a)(1)(i)	Option 1: % reduction standard for HCl emissions (S-4237, S-4283 only) or	Y	4/11/05
63.1567(a)(1)(ii)	Option 2: 30 ppmv dry HCl concentration limit corrected to 3% O2 (S-4237, S-4283 only)	Y	4/11/05
63.1567(a)(2)	Site specific operating limit. Cat regen HCl exhaust gas conc < limit established during performance test (S-4237, S-4283 only)	Y	4/11/05
63.1567(a)(3)	Prepare & operate in accordance with an OMMP (S-4237, S-4283 only)	Y	4/11/05
63.1567(b)(2)	Conduct performance test per table 25, measure HCl in exhaust gas & establish operating limit (S-4237, S-4283 only)	Y	4/11/05
63.1567(b)(3)	Establish site specific operating limit in table 23 using method in table 25 (S-4237, S-4283 only)	Y	4/11/05

#### IV. Source-Specific Applicable Requirements

**Table IV.C.3.1 Process Units  
 Source-specific Applicable Requirements**

**Miscellaneous Process Units**

**S-4155 F-135 Hot Oil Furnace, S-4226 FGHT FCC Gasoline Hydrotreater, S-4233 Jet Hydrotreater, S-4234 No. 5 Naphtha Hydrotreater, S-4235 Diesel Hydrotreater, (DHT), S-4236 No. 4 Crude Unit, S-4237 No. 5 Rheniformer, S-4250 Hydrogen Manufacturing, S-4251 Solvent Deasphalting Plant (SDA), S-4252 TKN Isocracker Plant, S-4253 TKC Isocracker Plant, S-4261 Wax Deoiler No. 2, S-4262 Wax Rerun Plant, S-4265 Lube/Wax Refinishing, S-4282 Penhex Isomerization Plant, S-4283 No. 4 Catalytic Reformer, S-4286 FCC Gas Recovery Unit Light Ends Recovery GRU, S-4291 H2SO4 Alkylation Plant, S-4292 FCC Polymer Plant, S-4340 Light Neutral Hydrocracker (LNC), S-4341 Light Neutral Hydrofinisher (LNHF), S-4342 Heavy Neutral Hydrocracker (HNHC), S-4343 Heavy Neutral Hydrofinisher (HNHF), S-4346 Gas Recovery Unit (GRU RLOP), S-4348 H2 Recovery Plant (RLOP), S-4355 Alky (Yard) DIB S-4354 Butamer Plant, S-4356 Tertiary Amyl Methyl Ether Plant (TAME), S-4360 Perc Storage Vessel, S-4400 Wax Melt Vessel, S-6050 MTBE Plant**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.1567(b)(4)	Demonstrate initial compliance by a performance test (S-4237, S-4283 only)	Y	4/11/05
63.1567(b)(5)	Submit OMM plan with NOCS (S-4237, S-4283 only)	Y	4/11/05
63.1567(b)(6)	Submit NOCS with results of initial compliance demonstration (S-4237, S-4283 only)	Y	4/11/05
63.1567(c)(1)	Demonstrate continuous compliance per tables 27 & 28, (S-4237, S-4283 only)	Y	4/11/05
63.1567(c)(2)	Maintain records to document OMM plan compliance (S-4237, S-4283 only)	Y	4/11/05
63.1569	Bypass lines (S-4237, S-4283 only)	Y	4/11/05
63.1570	General requirements (S-4237, S-4283 only)	Y	4/11/05
63.1570(d)	Develop & implement a SSMP (S-4237, S-4283 only)	Y	4/11/05
63.1570(e)	During periods of SSM, operate in accordance with your SSMP (S-4237, S-4283 only)	Y	4/11/05
63.1570(f)	Report all instances not in compliance with limits or work practice standards (S-4237, S-4283 only)	Y	4/11/05
63.1570(g)	Deviation during SSM not a violation if following SSMP (S-4237, S-4283 only)	Y	4/11/05
63.1571	Initial performance test requirements (S-4237, S-4283 only)	Y	4/11/05
63.1572	Monitoring, installation, operation, & maintenance requirements (S-4237, S-4283 only)	Y	4/11/05
63.1573	Monitoring alternatives (S-4237, S-4283 only)	Y	4/11/05
63.1574	Notification requirements (S-4237, S-4283 only)	Y	4/11/05
63.1575	Reporting requirements (S-4237, S-4283 only)	Y	4/11/05

#### IV. Source-Specific Applicable Requirements

**Table IV.C.3.1 Process Units  
 Source-specific Applicable Requirements**

**Miscellaneous Process Units**

**S-4155 F-135 Hot Oil Furnace, S-4226 FGHT FCC Gasoline Hydrotreater, S-4233 Jet Hydrotreater, S-4234 No. 5 Naphtha Hydrotreater, S-4235 Diesel Hydrotreater, (DHT), S-4236 No. 4 Crude Unit, S-4237 No. 5 Rheniformer, S-4250 Hydrogen Manufacturing, S-4251 Solvent Deasphalting Plant (SDA), S-4252 TKN Isocracker Plant, S-4253 TKC Isocracker Plant, S-4261 Wax Deoiler No. 2, S-4262 Wax Rerun Plant, S-4265 Lube/Wax Refinishing, S-4282 Penhex Isomerization Plant, S-4283 No. 4 Catalytic Reformer, S-4286 FCC Gas Recovery Unit Light Ends Recovery GRU, S-4291 H2SO4 Alkylation Plant, S-4292 FCC Polymer Plant, S-4340 Light Neutral Hydrocracker (LNC), S-4341 Light Neutral Hydrofinisher (LNHF), S-4342 Heavy Neutral Hydrocracker (HNHC), S-4343 Heavy Neutral Hydrofinisher (HNHF), S-4346 Gas Recovery Unit (GRU RLOP), S-4348 H2 Recovery Plant (RLOP), S-4355 Alky (Yard) DIB S-4354 Butamer Plant, S-4356 Tertiary Amyl Methyl Ether Plant (TAME), S-4360 Perc Storage Vessel, S-4400 Wax Melt Vessel, S-6050 MTBE Plant**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.1576	Recordkeeping requirements (S-4237, S-4283 only)	Y	4/11/05
63.1577	General provision applicability (S-4237, S-4283 only)	Y	4/11/05
Condition #469	Applies to S-4233, S-4234, S-4236, S-4237, S-4250, S-4252, S-4261, S-4262, S-4265, S-4283, S-4291, S-4292, S-4340, S-4341, S-4342, S-4343, S-4400	Y	
Condition #8180	Applies to S-4235.	Y	
Condition #8773	Applies to S-4251 & 4155.	Y	
Condition #9048	Applies to S-4253.	Y	
Condition #14701	Applies to S-4282A, S-4291 S-4355, S-4356	Y	
Condition #6001	Applies to S-4286.	Y	
Condition #13369	Applies to S-4346, S-4348.	Y	
Condition #7642	Applies to S-6050.	Y	
Condition #15698	Applies to S-4250. Continuously monitor washwater temperature, vent flow and wash water flow. Emission < 15 lbs C/day or < 300 ppm C dry, 3-hr average, water temp < 80F, 3-hr average vent flow < 5 Klb/hr, 3-hr average water flow > 30 gpm, water/vent flow ratio > 11.6	Y	
Condition #16393	Applies to S-4261	Y	
Condition #20944	Applies to S-4292	N	
Condition #18137	Throughput Limits	N	
Condition	Applies to S-4354 and 4360		

**IV. Source-Specific Applicable Requirements**

**Table IV.C.3.1 Process Units  
 Source-specific Applicable Requirements**

**Miscellaneous Process Units**

S-4155 F-135 Hot Oil Furnace, S-4226 FGHT FCC Gasoline Hydrotreater, S-4233 Jet Hydrotreater, S-4234 No. 5 Naphtha Hydrotreater, S-4235 Diesel Hydrotreater, (DHT), S-4236 No. 4 Crude Unit, S-4237 No. 5 Rheniformer, S-4250 Hydrogen Manufacturing, S-4251 Solvent Deasphalting Plant (SDA), S-4252 TKN Isocracker Plant, S-4253 TKC Isocracker Plant, S-4261 Wax Deoiler No. 2, S-4262 Wax Rerun Plant, S-4265 Lube/Wax Refinishing, S-4282 Penhex Isomerization Plant, S-4283 No. 4 Catalytic Reformer, S-4286 FCC Gas Recovery Unit Light Ends Recovery GRU, S-4291 H2SO4 Alkylation Plant, S-4292 FCC Polymer Plant, S-4340 Light Neutral Hydrocracker (LNC), S-4341 Light Neutral Hydrofinisher (LNHF), S-4342 Heavy Neutral Hydrocracker (HNHC), S-4343 Heavy Neutral Hydrofinisher (HNHF), S-4346 Gas Recovery Unit (GRU RLOP), S-4348 H2 Recovery Plant (RLOP), S-4355 Alky (Yard) DIB S-4354 Butamer Plant, S-4356 Tertiary Amyl Methyl Ether Plant (TAME), S-4360 Perc Storage Vessel, S-4400 Wax Melt Vessel, S-6050 MTBE Plant

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
18337			
Condition 22979	Applies to S-4250		
Condition 22641	Applies to S-4226		

**Table IV.D.1.1 Refinery (Refinery)**

**Table IV.D.1.1 Refinery  
 Refinery-wide Applicable Requirements**

**Refinery**

**Facility #A0010**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<b>BAAQMD Regulation 1</b>	<b>General Provisions and Definitions (05/02/01)</b>		
1-510	Area Monitoring	Y	
1-530	Area Monitoring Downtime	Y	
1-540	Area Monitoring Data Examination	Y	
1-542	Area Concentration Excesses	Y	
1-543	Record Maintenance	Y	
1-544	Monthly Summary	Y	
1-602	Area and Continuous Emissions Monitoring	N	



**IV. Source-Specific Applicable Requirements**

**Table IV.D.1.1 Refinery  
 Refinery-wide Applicable Requirements**

**Refinery**

**Facility #A0010**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
<b>NSPS Title 40 Part 60 Subpart A</b>	<b>General Provisions</b>		
40 CFR 60.1	Applicability	Y	
40 CFR 60.2	Definitions	Y	
40 CFR 60.3	Units and Abbreviations	Y	
40 CFR 60.4	Address	Y	
40 CFR 60.5	Determination of Construction or Modification	Y	
40 CFR 60.6	Review of Plans	Y	
40 CFR 60.7	Notification and Record Keeping	Y	
40 CFR 60.8	Performance Tests	Y	
40 CFR 60.9	Availability of Information	Y	
40 CFR 60.11	Compliance with Standards and Maintenance Requirements	Y	
40 CFR 60.12	Circumvention	Y	
40 CFR 60.13	Monitoring Requirements	Y	
40 CFR 60.14	Modification	Y	
40 CFR 60.15	Reconstructions	Y	
40 CFR 60.488	Reconstruction from NSPS Subpart VV	Y	
40 CFR 60.17	Incorporated by Reference	Y	
40 CFR 60.19	General Notification and Reporting Requirements	Y	
<b>NESHAP Title 40 Part 61 Subpart A</b>	<b>NESHAP, General Provisions (03/16/94)</b>		
40 CFR 61.01	Lists of Pollutants and Applicability of Part 61	Y	
40 CFR 61.02	Definitions	Y	
40 CFR 61.03	Units and Abbreviations	Y	
40 CFR 61.04	Address	Y	
40 CFR 61.05	Prohibited Activities	Y	
40 CFR 61.06	Determination of Construction or Modification	Y	
40 CFR 61.07	Application for Approval of Construction or Modification	Y	
40 CFR 61.08	Approval of construction or modification	Y	
40 CFR 61.09	Notification of startup	Y	

**IV. Source-Specific Applicable Requirements**

**Table IV.D.1.1 Refinery  
 Refinery-wide Applicable Requirements**

**Refinery**

**Facility #A0010**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
40 CFR 61.10	Source reporting and waiver request	Y	
40 CFR 61.12	Compliance with Standards and Maintenance Requirements	Y	
40 CFR 61.13	Emission Tests and Waiver of Emission Tests	Y	
40 CFR 61.14	Monitoring Reports	Y	
40 CFR 61.15	Modification	Y	
40 CFR 61.18	Incorporation by reference	Y	
40 CFR 61.19	Circumvention	Y	
<b>NESHAP Title 40 Part 61 Subpart FF</b>	<b>NESHAP, Benzene Waste Operations (01/07/93)</b>		
40 CFR 61.340(a)	The provisions of this subpart apply to owners and operators of chemical manufacturing plants, coke by-product recovery plants, and petroleum refineries.		
40 CFR 61.342	Standards: general	Y	
40 CFR 61.342(b)	Standards: General; Facility with TAB > 10Mg/year in compliance by 4/7/93	Y	
40 CFR 61.342©9(c) & (c)(1))	Standards: General; Treat benzene-containing waste streams in accordance with 61.342(c)(1)(i), 61.342(c)(1)(ii) and 61.342(c)(1)(iii)	Y	
40 CFR 61.342(c)(1)(i)	Standards: General; Remove or destroy benzene in accordance with 61.348	Y	
40 CFR 61.342(c)(1)(ii)	Standards: General; Comply with 61.343 through 61.347 for treatment units operated in accordance with 61.342(c)(1)(i)	Y	
40 CFR 61.342(c)(1)(iii)	Standards: General; Comply with 61.343 through 61.347 for treatment units for recycled wastes. Recycled wastes subject to 61.342(c)	Y	
40 CFR 61.342(e)	Standards: General; Alternative to 61.342(c) and 61.342(d)	Y	
40 CFR 61.342(e)(1)	Standards: General; Treat waste with a flow-weighted annual average water content of less than 10% per 61.342(c)(1)	Y	
40 CFR 61.342(e)(2)	Standards: General; Treatment of waste with a flow-weighted annual average water content of 10% or more by volume.	Y	
40 CFR 61.342(e)(2)(i)	Benzene content of aqueous waste must be equal to or less than 6.0 Mg/yr (6.6 ton/yr), as determined in 61.355(k).	Y	
40 CFR 61.342(e)(2)(ii)	Standards: General; Determine 61.342(e)(2) benzene quality per	Y	
40 CFR 61.346	Standards: Individual drain systems (need to include (b)(3), (b)(4)(iv) & (b)(5))		

**IV. Source-Specific Applicable Requirements**

**Table IV.D.1.1 Refinery  
 Refinery-wide Applicable Requirements**

**Refinery**

**Facility #A0010**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
61.350	When is a delay of repair allowed, and when must the delayed repair be complete? 61.350 delay of repair is allowed if repair is technically impossible without a shutdown; repair to be complete by the end of the next shutdown	Y	
61.353	What are the responsibilities associated with approval of alternative technologies? 61.353 the person requesting the alternative must show equivalency; and the Administrator must publish any approval in the Federal Register	Y	
61.354	Is monitoring required for control devices? 61.354© daily inspect the continuous monitoring devices specified herein, except as specified in 61.354(d) & (e)	Y	
	Are there control devices that do not require continuous data recorders? 61.354(d) carbon adsorption that is not regenerated on site may be monitored without a continuous recorder; or not monitored if replaced on a sufficiently frequent interval	Y	
	May alternative parameters be monitored in lieu of those specified? 61.354(e) allowed if adequacy of the alternative is demonstrated	Y	
	Are inspections required for by-pass lines in closed vent systems? 61.354(f) inspect daily if using a flow indicator or inspect monthly if using car-seal/lock-&-key	Y	
	Is additional monitoring required for systems maintained at negative pressure? 61.354(g) continuously monitor the system pressure	Y	
61.355	Procedure for detecting emissions 61.355(h) per Method 21	Y	
	Procedure for performance testing of control devices 61.355(i) for 61.349(a)(2) to demonstrate compliance with reduction efficiency	Y	
61.356	How long are records to be kept? 61.356(a) keep all records	Y	
	Are records required for the design of the control equipment (e.g., control devices, floating roofs, etc.)? 61.356(d) for 61.343 – 61.347 required, keep for the life of the equipment	Y	
	Are records required documenting the performance of control devices? 61.356(f) for 61.349 required, keep for the life of the control device	Y	

**IV. Source-Specific Applicable Requirements**

**Table IV.D.1.1 Refinery  
 Refinery-wide Applicable Requirements**

**Refinery**

**Facility #A0010**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
	Are records required for visual inspections and repairs? 61.356(g) for 61.343 – 61.347 required only when defects are found	Y	
	Are records required for Method 21 leak inspections and repairs? 61.356(h) for 61.343 – .347, 61.349 required for each inspection	Y	
	Are records of startup/shutdown and monitoring data required for control devices? 61.356(j) for 61.349 required	Y	
	Are records of monitoring data required for systems maintained under negative pressure? 61.356(m) for 61.343 – 61.347 required	Y	
40 CFR 61.357(d)	Reporting Requirements: Facilities with 10 Mg/yr or more total benzene in waste (this citation pulls in a number of others)	Y	
<b>NESHAP Title 40 Part 63 Subpart A</b>	<b>General Provisions of MACT Standards (03/16/94)</b>		
40 CFR 63.1	Applicability	Y	
40 CFR 63.2	Definitions	Y	
40 CFR 63.4	Prohibited activities and circumvention	Y	
40 CFR 63.5	Construction and Reconstruction	Y	
40 CFR 63.6	Compliance with standards and maintenance requirements	Y	
40 CFR 63.7	Performance testing requirements	Y	
40 CFR 63.8	Monitoring requirements	Y	
40 CFR 63.9	Notification requirements	Y	
40 CFR 63.10	Record keeping and reporting requirements	Y	
40 CFR 63.11	Control Device Requirements	Y	
40 CFR 63.12	State Authority and Delegations	Y	
40 CFR 63.13	Addresses of EPA Regional Offices	Y	
40 CFR 63.14	Incorporation by Reference	Y	
40 CFR 63.15	Availability of Information and confidentiality	Y	
<b>40 CFR 63</b>	<b>National Emission Standards for Hazardous Air Pollutants for Source Categories: General Provisions; and Requirements for Control Technology Determinations for Major Sources in</b>		

**IV. Source-Specific Applicable Requirements**

**Table IV.D.1.1 Refinery  
 Refinery-wide Applicable Requirements**

**Refinery**

**Facility #A0010**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
	<b>Accordance with Clean Air Act Sections, Section 112(g) and 112(j); Final Rule</b>		
63.52	Approved process for new and existing affected sources.	Y	
63.52(a)	Sources subject to section 112(j) as of the section 112(j) deadline	Y	
63.52(a)(1)	Submit an application for Title V permit revision	Y	
63.52(e)	Permit application review	Y	
63.52(e)(1)	Submit a Part 2 MACT application meeting the requirements of 63.53(b) for Combustion Turbines	Y	
63.52(e)(1)	Submit a Part 2 MACT application meeting the requirements of 63.53(b) for Organic Liquids Distribution	Y	
63.52(e)(1)	Submit a Part 2 MACT application meeting the requirements of 63.53(b) for Site Remediation	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 Reciprocating Internal Combustion Engines	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	
<b>40 CFR 63 Subpart CC</b>	<b>National Emission Standards for Hazardous Air Pollutants for Petroleum Refineries (06/12/1996)</b>		
63.640(a)	Applicability applies to petroleum refining process units and to related emission points.	Y	
63.640©	Applicability and Designation of Affected Source—Includes all emission points at Refinery	Y	
63.640(d)	Applicability and Designation of Affected Source—Exclusions	Y	
63.640(f)	Applicability and Designation of Affected Source—miscellaneous process vents	Y	

#### IV. Source-Specific Applicable Requirements

**Table IV.D.1.1 Refinery  
 Refinery-wide Applicable Requirements**

**Refinery**

**Facility #A0010**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.640(g)	Applicability and Designation of Affected Source —Exempt Processes	Y	
63.640(h)	Applicability and Designation of Affected Source —Compliance dates	Y	
63.640(i)	Applicability and Designation of Affected Source —New petroleum refining process unit requirements	Y	
63.640(j)	Applicability and Designation of Affected Source —Changes to existing petroleum refining process units	Y	
63.640(k)	Applicability and Designation of Affected Source —Additional requirements for new or changed sources	Y	
63.640(l)	Applicability and Designation of Affected Source —Additions of equipment (i.e. process vents, storage vessels, etc) in Group 1 sources not subject to 63.640(i) or (k).	Y	
63.640(m)	Applicability and Designation of Affected Source —Changes causing Group 2 emission points to become Group 1 points	Y	
63.640(q)	For overlap of subpart CC with local or State regulations, the permitting authority for the affected source may allow consolidation of the monitoring, recordkeeping, and reporting requirements under this subpart.	Y	
63.641	Definitions: (arranged alphabetically) Group 1 wastewater stream, Group 2 wastewater stream, miscellaneous process vents (specifically does not include emissions from wastewater collection and conveyance systems).	Y	
63.642	General Standards	Y	
63.642(a)	Apply for a part 70 or part 71 operating permit	Y	
63.642©	Table 6 of this subpart specifies the Subpart A provisions that apply.	Y	
63.642(d)	Initial performance tests and compliance determinations shall be required only as specified in this subpart	Y	
63.642(e)	Keep copies of all applicable reports and records for at least 5 years, except as otherwise specified in this subpart.	Y	
63.642(f)	All reports required by this subpart shall be sent to the Administrator	Y	
63.642(i)	Existing source owners/operators shall demonstrate compliance with (g) by following procedures in (k) or by following emission averaging compliance approach in (l) for specified emission points and the procedures in (k) for other emission points.	Y	
63.642(k)	Existing source owners/operators may comply, and new sources owners/operators shall comply with the wastewater provisions in 63.647 and comply with 63.654 and is exempt from (g)	Y	
63.647(a)	Comply with 61.340-61.355 (Subpart FF). Owners/operators of Group 1 wastewater streams shall comply with sections 61.340 to 61.355 of part 61, subpart FF for each stream that meets the definition of 63.641.	Y	
63.647(b)	Wastewater Provisions	Y	

**IV. Source-Specific Applicable Requirements**

**Table IV.D.1.1 Refinery  
 Refinery-wide Applicable Requirements**

**Refinery**

**Facility #A0010**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
63.647©	Periodic measurement of benzene concentrations	Y	
63.654(a)	Compliance with in recordkeeping in 40 CFR 61, Subpart FF	Y	
63.654(e)	Periodic Reporting and Recordkeeping Requirements	Y	
63.654(g)	Semi-Annual Reporting and Recordkeeping Requirements	Y	
63.654(h)(1)	Reports of startup, shutdown, and malfunction	Y	
63.654(h)(2)	Notifications of inspections for storage vessels	Y	
63.654(i)(1)	Records for storage vessels	Y	
63.654(i)(4)	Information required by 63.654(h)	Y	
Appendix Table 1	Hazardous Air Pollutants	Y	
Appendix Table 6	Hazardous Air Pollutants	Y	
BAAQMD Regulation 8 Rule 5	Storage of organic liquids (12/15/99)	Y	
8-5-117	Low vapor pressure exemption	Y	
<b>BAAQMD Regulation 8, Rule 10</b>	Organic Compound – Process Vessel Depressurization (1/21/2004)		
<b>8-10-301</b>	<b>Depressurization Control Options</b>	<b>N</b>	
<b>8-10-302</b>	<b>Opening of Process Vessels</b>	<b>N</b>	
<b>8-10-302.1</b>	<b>organic compounds cannot exceed 10,000 ppm (methane) prior to release to atmosphere</b>	<b>N</b>	
<b>8-10-302.2</b>	<b>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%</b>	<b>N</b>	
<b>8-10-401</b>	<b>Turnaround Records. Annual report due February 1 of each year with initial report of process vessels due 4/1/2004.</b>	<b>N</b>	
<b>8-10-501</b>	<b>Monitoring prior to and during process vessel opening</b>	<b>Y</b>	
<b>8-10-502</b>	<b>Concentration measurement meeting the accuracy requirements of EPA Method 21</b>	<b>Y</b>	
<b>8-10-503</b>	<b>Recordkeeping</b>	<b>N</b>	
<b>8-10-601</b>	<b>Monitoring Procedures</b>	<b>N</b>	

**IV. Source-Specific Applicable Requirements**

**Table IV.D.1.1 Refinery  
 Refinery-wide Applicable Requirements**

**Refinery**

**Facility #A0010**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
<b>SIP</b> Regulation 8, Rule 10	Organic Compound – Process Vessel Depressurization (7/20/83)		
<b>8-10-301</b>	<b>Process Vessel Depressurizing.</b>	<b>Y</b>	
<b>8-10-301.1</b>	<b>recovery to the fuel gas system</b>	<b>Y</b>	
<b>8-10-301.2</b>	<b>combustion at a firebox or incinerator</b>	<b>Y</b>	
<b>8-10-301.3</b>	<b>combustion at a flare</b>	<b>Y</b>	
<b>8-10-301.4</b>	<b>containment such that emissions to atmosphere do not occur</b>	<b>Y</b>	
<b>8-10-401</b>	<b>Turnaround Records.</b>	<b>Y</b>	
<b>8-10-401.1</b>	<b>date of depressurization event</b>	<b>Y</b>	
<b>8-10-401.2</b>	approximate vessel hydrocarbon concentration when emissions to atmosphere begin	Y	
<b>8-10-401.3</b>	approximate quantity of POC emissions to atmosphere	Y	
<b>BAAQMD</b> <b>Regulation 8</b> <b>Rule 18</b>	<b>Organic Compounds, Equipment Leaks (1/7/98)</b>	Y	
<b>BAAQMD</b> <b>Regulation 8</b> <b>Rule 40</b>	<b>Aeration of Contaminated Soil and Removal of Underground Storage Tanks (12/15/99)</b>	Y	
8-40-304	Active Storage Piles	Y	
8-40-305	Inactive Storage Piles	Y	
8-40-306	Contaminated Soil – Excavation and Removal	Y	
8-40-402	Reporting, Excavation of Contaminated Soil	Y	
<b>BAAQMD</b> <b>Regulation 9</b> <b>Rule 1</b>	<b>Sulfur Dioxide(3/15/95)</b>	<b>N</b>	
9-1-110	Conditional Exemption, Area Monitoring	Y	
9-1-301	Limitations on Ground Level Concentrations	Y	
9-1-501	Area Monitoring Requirements	Y	
9-1-601	Ground Level Monitoring	Y	



**IV. Source-Specific Applicable Requirements**

**Table IV.D.1.1 Refinery  
 Refinery-wide Applicable Requirements**

**Refinery**

**Facility #A0010**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<b>BAAQMD Regulation 9 Rule 2</b>	<b>Hydrogen Sulfide(10/6/99)</b>	N	
9-2-110	Exemptions	N	
9-2-301	Limitations on Hydrogen Sulfide	N	
9-2-501	Area Monitoring Requirements	N	
9-2-601	Ground Level Monitoring	N	
Condition #469	Refinery CAP	Y	
Condition #20764			
Part 1	Requirement to verify the true vapor pressure, whenever the organic liquid in the tank is changed (Regulation 2-6-409.2)	Y	
Part 2	Requirement to maintain District-approved log for at least five year from date of entry (Regulation 2-6-409.2)	Y	

**Table IV.E.1.1 Sulfur Recovery (H2S Plants)**

**Table IV.E.1.1 Sulfur Recovery  
 Source-specific Applicable Requirements**

**H2S Plants**

**S-4345 #18 Plant (also called #2 NH3/H2S), S-4433 #3 H2S Plant, S-4434 #4 H2S Plant, S-4435 #5 H2S Plant, S-4429 #8 Plant (also called NH3/H2S)**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<b>BAAQMD Regulation 9 Rule 1</b>	<b>Inorganic Gaseous Pollutants – Sulfur Dioxide (3/15/95)</b>		
9-1-313	Sulfur Removal Operations at Petroleum Refineries (processing more than 20,000 bbl/day of crude oil)	Y	

#### IV. Source-Specific Applicable Requirements

**Table IV.E.1.1 Sulfur Recovery  
 Source-specific Applicable Requirements**

**H2S Plants**

**S-4345 #18 Plant (also called #2 NH3/H2S), S-4433 #3 H2S Plant, S-4434 #4 H2S Plant, S-4435 #5 H2S Plant, S-4429 #8 Plant (also called NH3/H2S)**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
9-1-313.2	Operation of a sulfur removal and recovery system that removes and recovers: 95% of H2S from refinery fuel gas, 95% of H2S and ammonia from process water streams (sulfur recovery is required when a facility removes 16.5 ton/day or more of elemental sulfur).	Y	
<b>SIP Regulation 9 Rule 1</b>	<b>Inorganic Gaseous Pollutants – Sulfur Dioxide (5/20/92)</b> [Only provisions which are different than current BAAQMD regulation are listed]	Y	
9-1-313.2	Operation of a sulfur removal and recovery system that removes and recovers: 95% of H2S from refinery fuel gas, 95% of H2S and ammonia from process water streams.	Y	
Condition #469	Refinery Cap (Only applies to S-4345)	Y	
Condition #18655			
Part 2	Source test requirement for 6-330	Y	
Condition 18945			
Parts 1-6	Daily and annual throughput limits	N	
Part 7	Record keeping	N	

**Table IV.E.2.1 Sulfur Recovery (Claus Plants)**

**Table IV.E.2.1 Sulfur Recovery  
 Source-specific Applicable Requirements**

**Claus Plants**

**S-4227 Sulfur Plant Claus Unit abated by A-0020 Tail Gas Unit for #1 SRU Train Absorption & Regeneration, S-4228 Sulfur Plant Claus Unit abated by A-0021 Tail Gas Unit for #2 SRU Train Absorption & Regeneration, S-4229 Sulfur Plant Claus Unit abated by A-0022 Tail Gas Unit for #3 SRU Train Absorption & Regeneration**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<b>BAAQMD Regulation 1</b>	<b>General Provisions and Definitions (5/2/01)</b>	N	

#### IV. Source-Specific Applicable Requirements

**Table IV.E.2.1 Sulfur Recovery  
 Source-specific Applicable Requirements**

**Claus Plants**

**S-4227 Sulfur Plant Claus Unit abated by A-0020 Tail Gas Unit for #1 SRU Train Absorption & Regeneration, S-4228 Sulfur Plant Claus Unit abated by A-0021 Tail Gas Unit for #2 SRU Train Absorption & Regeneration, S-4229 Sulfur Plant Claus Unit abated by A-0022 Tail Gas Unit for #3 SRU Train Absorption & Regeneration**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
1-520	Continuous Emission Monitoring [applicable in accordance with 9-1-502]	Y	
1-520.4	SO2 monitor at sulfur recovery plants emitting more than 100 lb/day SO2	Y	
1-520.8	Monitors required by Regulations 10, 12 and 2-1-403	Y	
1-522	Continuous Emission Monitoring and Recordkeeping Procedures [applicable in accordance with 9-1-502]	Y	
1-522.1	Approval of plans and specifications	Y	
1-522.2	Scheduling requirements	Y	
1-522.3	CEM performance testing	Y	
1-522.4	Reporting of inoperative CEMs	Y	
1-522.5	CEM calibration requirements	Y	
1-522.6	CEM accuracy requirements	Y	
1-522.7	Emission limit exceedance reporting requirements	Y	
1-522.8	Monitoring data submittal requirements	Y	
1-522.9	Recordkeeping requirements	Y	
<b>SIP Regulation 1</b>	<b>General Provisions and Definitions (10/7/98)</b> [provisions of SIP are identical to current Regulation 1 for "SO2 sources", but not for combustion devices]	Y	
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	Y	
1-522.7	Emission limit exceedance reporting requirements	Y	
<b>BAAQMD Regulation 6</b>	<b>Particulate Matter and Visible Emissions (12/19/90)</b>		
6-301	Ringelmann Number 1 Limitation	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	
<b>BAAQMD Regulation 9 Rule 1</b>	<b>Inorganic Gaseous Pollutants – Sulfur Dioxide (3/15/95)</b>		
9-1-307	Emission Limitations for Sulfur Recovery Plants [applies to sulfur plants which emit 100 lb/day SO2 or more]	Y	

#### IV. Source-Specific Applicable Requirements

**Table IV.E.2.1 Sulfur Recovery  
 Source-specific Applicable Requirements**

**Claus Plants**

**S-4227 Sulfur Plant Claus Unit abated by A-0020 Tail Gas Unit for #1 SRU Train Absorption & Regeneration, S-4228 Sulfur Plant Claus Unit abated by A-0021 Tail Gas Unit for #2 SRU Train Absorption & Regeneration, S-4229 Sulfur Plant Claus Unit abated by A-0022 Tail Gas Unit for #3 SRU Train Absorption & Regeneration**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
9-1-313	Sulfur Removal Operations at Petroleum Refineries (processing more than 20,000 bbl/day of crude oil)	Y	
9-1-313.2	Operation of a sulfur removal and recovery system that removes and recovers: 95% of H2S from refinery fuel gas, 95% of H2S and ammonia from process water streams (sulfur recovery is required when a facility removes 16.5 ton/day or more of elemental sulfur).	Y	
9-1-502	Emission Monitoring Requirements (Regulations 1-520, 1-522) [if subject to 9-1-304 or 9-1-307]	Y	
<b>SIP Regulation 9 Rule 1</b>	<b>Inorganic Gaseous Pollutants – Sulfur Dioxide (5/20/92)        [Only provisions which are different than current BAAQMD regulation are listed]</b>	<b>Y</b>	
9-1-313.2	Operation of a sulfur removal and recovery system that removes and recovers: 95% of H2S from refinery fuel gas, 95% of H2S and ammonia from process water streams.	Y	
<b>NSPS 40 CFR 60 Subpart J</b>	<b>Standards of Performance for Petroleum Refineries</b>		
60.104(a)(2)(i)	Limit on sulfur dioxide emissions from Claus sulfur recovery plants	Y	
60.105(a)(5)	Continuous SO2 monitoring requirement for Claus Sulfur recovery plant emissions to atmosphere	Y	
60.105(a)(5)(i)	Requirement on the span of the SO2 monitoring device	Y	
60.105(a)(5)(ii)	Methods for performance evaluations and relative accuracy audits	Y	
60.105(e)(4)(i)	Sulfur dioxide excesses	Y	
60.106	Test methods and procedure	Y	
60.107	Reporting and recordkeeping requirements	Y	
60.108	Performance test and compliance	Y	
<b>40 CFR 63 Subpart UUU</b>	<b>National Emission Standards for Hazardous Pollutants for Petroleum Refineries: Catalytic Cracking Units, Catalytic Reforming Units, and Sulfur Recovery Units (4/11/02)</b>	<b>Y</b>	Notification by 8/9/02; compliance by 4/11/05

#### IV. Source-Specific Applicable Requirements

**Table IV.E.2.1 Sulfur Recovery  
 Source-specific Applicable Requirements**

**Claus Plants**

**S-4227 Sulfur Plant Claus Unit abated by A-0020 Tail Gas Unit for #1 SRU Train Absorption & Regeneration, S-4228 Sulfur Plant Claus Unit abated by A-0021 Tail Gas Unit for #2 SRU Train Absorption & Regeneration, S-4229 Sulfur Plant Claus Unit abated by A-0022 Tail Gas Unit for #3 SRU Train Absorption & Regeneration**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.1561	Subject to this subpart	Y	4/11/05
63.1562	Parts of plants that are covered (including exemptions)	Y	4/11/05
63.1563	When to comply	Y	4/11/05
63.1568	Requirements for hap emissions from sulfur recovery units	Y	4/11/05
63.1568(a)(1)	250 ppmv dry SO <sub>2</sub> emission limit (@0% O <sub>2</sub> ) for existing unit W/oxidation control system	Y	4/11/05
63.1568(a)(3)	Prepare & operate in complian with an OMM plan	Y	4/11/05
63.1568(b)(1)	SO <sub>2</sub> and O <sub>2</sub> CEMS required to continuously monitor complaince	Y	4/11/05
63.1568(b)(5)	Demonstrate initial compliance: for units already NSPS, no new performance test or CEMS eval. But certify vents meet SO <sub>2</sub> limit & CEMS performance	Y	4/11/05
63.1568(b)(6)	Submit OMM plan to permit authority with NOCS	Y	4/11/05
63.1568(b)(7)	Submit NOCS	Y	4/11/05
63.1568(c)(1)	Collect hourly average SO <sub>2</sub> ppmv dry @ 0% O <sub>2</sub> . Record 12-hour average SO <sub>2</sub> & report exceedances of the 12-hour average	Y	4/11/05
63.1568(c)(2)	Comply with the OMM plan	Y	4/11/05
63.1569	Bypass lines	Y	4/11/05
63.1570	General requirements	Y	4/11/05
63.1570(d)	Develop & implement a SSMP	Y	4/11/05
63.1570(e)	During periods of SSM, operate in accordance with your SSMP	Y	4/11/05
63.1570(f)	Report all instances not in compliance with limits or work practice standards	Y	4/11/05
63.1570(g)	Deviation during SSM not a violation if following SSMP	Y	4/11/05
63.1571	Initial performance test requirements	Y	4/11/05
63.1572	Monitoring, installation, operation, & maintenance requirements	Y	4/11/05
63.1573	Monitoring alternatives	Y	4/11/05
63.1574	Notification requirements	Y	4/11/05
63.1575	Reporting requirements	Y	4/11/05

**IV. Source-Specific Applicable Requirements**

**Table IV.E.2.1 Sulfur Recovery  
 Source-specific Applicable Requirements**

**Claus Plants**

**S-4227 Sulfur Plant Claus Unit abated by A-0020 Tail Gas Unit for #1 SRU Train Absorption & Regeneration, S-4228 Sulfur Plant Claus Unit abated by A-0021 Tail Gas Unit for #2 SRU Train Absorption & Regeneration, S-4229 Sulfur Plant Claus Unit abated by A-0022 Tail Gas Unit for #3 SRU Train Absorption & Regeneration**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
63.1576	Recordkeeping requirements	Y	4/11/05
63.1577	General provision applicability	Y	4/11/05
Condition #469	Refinery Cap	Y	
Condition #18655.2	Annual SO3/H2SO4 Source Test	Y	
Condition #19063.1	SRU #1 Train Sulfur Throughput Limit [applies to S-4227]	N	
Condition #19063.2	SRU #2 Train Sulfur Throughput Limit [applies to S-4228]	N	
Condition #19063.3	SRU #2 Train Sulfur Throughput Limit [applies to S-4229]	N	
Condition #19063.4	10 ppm H2S SRU stacks limit [applies to Tail Gas Units A-20, A-21, and A-22]	Y	
Condition #19063.5	Daily log	N	
Condition #19063.6	Log kept onsite 5 years	N	
Condition 22262			
Part 2	Visible emissions monitoring	Y	

**IV. Source-Specific Applicable Requirements**

**Table IV.E.3.1 Sulfur Recovery (Sulfur Rack)**

**Table IV.E.3.1 Sulfur Recovery  
 Source-specific Applicable Requirements**

**Sulfur Racks**

**S-3141, S-4396 Sulfur Loading Racks and S-3226 Sulfur Storage Tank abated by A-0043 Vent Water Scrubber**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Condition #18137	Throughput limits	N	
Condition #1046 Part 1	Sulfur Storage Tank S-3141 shall be abated by A-0043 Venturi Scrubber. (Basis: cumulative increase)	N	
Condition #1046 Part 2	Downtime of the A-43 Scrubber shall be minimized to the extent practicable	N	
Condition #1046 Part 3	Owner/operator of S-3141 shall maintain records of preventive maintenance downtime	N	

#### IV. Source-Specific Applicable Requirements

**Table**

**Table IV.F.1.0 Storage Tanks  
 Source-specific Applicable Requirements**

**Tanks with Conditions only**

**S-25, S-1894, S-1909, S-1911, S-1913, S-1914, S-1915, S-1919, S-2920, S\_2921, S-6125**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
Permit Condition 4233	Applies to S-1911, S-1913, S-1914, S-1915, S-1919, S-2920, S-2921		
Permit Condition 11208	Applies to S-1911, S-6125, S-1909		
Permit Condition 12580	Applies to S-1894		
Permit Condition 15107	Applies to S-25		

**.F.1.1 Tanks (FRT's Cluster 01a)**

**Table IV.F.1.1 Tanks  
 Source-specific Applicable Requirements**

**Fixed Roof Tanks Cluster 01a**

**S-1821, S-2917, S-2918,S-3141, S-3160, S-3161, S-3162, S-3163, S-3164, S-3165, S-3166, S-3167, S-3168, S-3169, S-3170, S-3171, S-3172, S-3179, S-3182, S-3185, S-3186, S-3194, S-3195, S-3215, S-3216, S-3226, S-5101, S-5103, S-5105, S-5107, S-5108, S-5109, S-5110, S-5112, S-5113, S-5115, S-5117, S-5118, S-5119, S-5121, S-5122, S-5123, S-5125, S-5126, S-5127, S-5128, S-5129, S-5130, S-5131, S-5132, S-5133, S-5134, S-5135, S-5136, S-5137, S-5138, S-5139, S-5140, S-5201, S-5202, S-5203, S-5204, S-5205, S-5206, S-5207, S-5208, S-5209, S-5210, S-5211, S-5212, S-5213, S-5214, S-5215, S-5216, S-5217, S-5218, S-5219, S-5220, S-5221, S-5222, S-5223, S-5224, S-5227, S-5228, S-5229, S-5230, S-5232, S-5233, S-5234, S-5237, S-5240, S-5241, S-5603**

**External Floating Roof Tanks Cluster 01a**

**S-3185**

**Internal Floating Roof Tanks Cluster 01a**

**S-3182**



#### IV. Source-Specific Applicable Requirements

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<b>BAAQMD Regulation 8-5-117</b>	<b>Low Vapor Pressure Exemption &lt; 0.5 psia (11/27/02)</b>	<b>Y</b>	
<b>Refinery MACT</b>	<b>NESHAP for Petroleum Refineries REQUIREMENTS FOR TANKS ALSO SUBJECT TO NSPS Kb</b>		
63.640(n)	Which rule governs for storage vessels subject to both Refinery MACT and NSPS subpart Kb? 63.640(n)(1) NSPS subpart Kb	Y	
<b>NSPS Subpart Kb</b>	<b>Volatile Organic Liquid Storage Vessels REQUIREMENTS FOR RECORD KEEPING ONLY</b>		
60.116b(a)	Applicability records: Time period for keeping records of applicability determination, unless specified otherwise. 60.116b(a) keep records	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) internal diameter & 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(d)	Periodic Reports: Miscellaneous additional information to report: 60.116b(d) TVP exceedances for a tank > 20,000 gallons that is normally below the TVP cutoff	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(f)	Special requirements for tanks storing waste mixtures: 60.116b(f) TVP determination every 6 months if: TVP < control cutoff & TVP > monitoring cutoff	Y	
60.116b(g)	Periodic Reports: Miscellaneous reporting exemptions: 60.116b(g) reporting of TVP exceedances is not required if tank is routed to a compliant control device	Y	
	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	
<b>NSPS Subpart A</b>	<b>New Source Performance Standards GENERAL PROVISIONS</b>		
60.7(a)	Initial Notification: Is initial notification of the source's existence required? 60.7(a)(1) notification within 30 days after construction begins.	Y	

**IV. Source-Specific Applicable Requirements**

**Table IV.F.1.1 Tanks  
 Source-specific Applicable Requirements**

**Fixed Roof Tanks Cluster 01a**

S-1821, S-2917, S-2918, S-3141, S-3160, S-3161, S-3162, S-3163, S-3164, S-3165, S-3166, S-3167, S-3168, S-3169, S-3170, S-3171, S-3172, S-3179, S-3182, S-3185, S-3186, S-3194, S-3195, S-3215, S-3216, S-3226, S-5101, S-5103, S-5105, S-5107, S-5108, S-5109, S-5110, S-5112, S-5113, S-5115, S-5117, S-5118, S-5119, S-5121, S-5122, S-5123, S-5125, S-5126, S-5127, S-5128, S-5129, S-5130, S-5131, S-5132, S-5133, S-5134, S-5135, S-5136, S-5137, S-5138, S-5139, S-5140, S-5201, S-5202, S-5203, S-5204, S-5205, S-5206, S-5207, S-5208, S-5209, S-5210, S-5211, S-5212, S-5213, S-5214, S-5215, S-5216, S-5217, S-5218, S-5219, S-5220, S-5221, S-5222, S-5223, S-5224, S-5227, S-5228, S-5229, S-5230, S-5232, S-5233, S-5234, S-5237, S-5240, S-5241, S-5603

**External Floating Roof Tanks Cluster 01a**

S-3185

**Internal Floating Roof Tanks Cluster 01a**

S-3182

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	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	Y
	General recordkeeping requirements: keep all reports and notification for the specified period of time.	60.7(f) required	Y
Condition #4233	Applies to S-2917 and S-2918	N	
Condition #11024	Applies to S-3185	Y	
Condition #12580	Applies to S-1821	N	
Condition #1046	Applies to S-3141 and S-3226	N	
Condition #18137	Throughput limits	N	

#### IV. Source-Specific Applicable Requirements

Table IV.F.1.2 Tanks (FRT's Cluster 01b)

**Table IV.F.1.2 Tanks  
 Source-specific Applicable Requirements**

**Fixed Roof Tanks Cluster 01b**

S-0200A, S-0204, S-0223, S-0225, S-0234, S-0290, S-0291, S-0293, S-0319, S-0397, S-0401, S-0501, S-0583, S-0900, S-0907, S-0910, S-0957, S-0979, S-0984, S-1052, S-1149, S-1431, S-1455, S-1456, S-1468, S-1470, S-1492, S-1493, S-1546, S-1636, S-1653, S-1679, S-1685, S-1723, S-1724, S-1725, S-1908, S-1989, S-2520, S-2540, S-3139, S-3142, S-3146, S-3148, S-3310

**Internal Floating Roof Tanks Cluster 01b**

S-0328, S-1634, S-3147

**External Floating Roof Tanks Cluster 01b**

S-0955, S-0956, S-1297, S-1506, S-1451, S-1899, S-1428, S-1020, S-3132, S-3138

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 8-5-117	Low Vapor Pressure Exemption < 0.5 psia (11/27/02)	Y	
Refinery MACT	<b>NESHAP for Petroleum Refineries            REQUIREMENTS FOR RECORD KEEPING ONLY</b>		
63.642(e) 63.654(i)	General recordkeeping requirements: Time period for keeping records, unless specified otherwise.	63.642(e) & 63.654(i)(4) keep all other records, retrievable within 24 hr	Y
	General recordkeeping requirements: Keep all reports and notification for the specified period of time.	63.642(e) & 63.654(i)(4) required	Y
63.646(h) 63.9 (b)	Initial Notification: Is initial notification of the source's existence required?	63.646(h) Table 6 Ref. 63.9 (b)(2) Not required	Y
63.646(i)	Implementation Plan	63.646(i) & 63.652(b) Not required	Y
63.654(f) 63.652(b)	Notification of Compliance Status report:	63.654(f) later of next Periodic Report after compliance or January 15, 1999	Y
	Report determination of applicability for other individual tanks (i.e., for MACT rules, whether Group1 or Group2)?	63.654(f)(1)(i)(A) with initial Notification of Compliance Status; Jan. 15, 1999	Y
63.654(h)	Report applicability for varying-use tanks?	63.654(h)(6)(ii) with the initial NOC Status report	Y
	Other (initial) Reports: Report applicability for varying-use tanks?	63.654(h)(6)(ii) required with the initial Notification of Compliance Status report	

**IV. Source-Specific Applicable Requirements**

**Table IV.F.1.2 Tanks  
 Source-specific Applicable Requirements**

**Fixed Roof Tanks Cluster 01b**

S-0200A, S-0204, S-0223, S-0225, S-0234, S-0290, S-0291, S-0293, S-0319, S-0397, S-0401, S-0501, S-0583, S-0900, S-0907, S-0910, S-0957, S-0979, S-0984, S-1052, S-1149, S-1431, S-1455, S-1456, S-1468, S-1470, S-1492, S-1493, S-1546, S-1636, S-1653, S-1679, S-1685, S-1723, S-1724, S-1725, S-1908, S-1989, S-2520, S-2540, S-3139, S-3142, S-3146, S-3148, S-3310

**Internal Floating Roof Tanks Cluster 01b**

S-0328, S-1634, S-3147

**External Floating Roof Tanks Cluster 01b**

S-0955, S-0956, S-1297, S-1506, S-1451, S-1899, S-1428, S-1020, S-3132, S-3138

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.654(i) 63.123(a)	Applicability records: Time period for keeping records of applicability determination, unless specified otherwise.	63.654(i)(1) 63.123(a) keep record readily accessible for the service life of the tank	Y
63.654(i) 63.646(a) 63.119(a) 63.123(a)	Applicability records: Records of dimensions & capacity required for Nonexempt tanks?	63.654(i)(1) 63.646(a)&63.119(a)(3) 63.123(a) required, keep record readily accessible for service life of the tank	Y
	Applicability records: Additional recordkeeping requirements for certain tanks.	63.654(i)(1)(iv) determination of HAP content keep record readily accessible for service life of the tank	
Condition # 4233	Applies to S-1908	N	
Condition #10967 Part 1	Applies to S-1052	Y	
Condition #10967 Part 2	Applies to S-1052	Y	
Condition #10967 Part 3	Applies to S-1052	Y	
Condition #11228	Throughput Limits	Y	
Condition #11436	Applies to S-1653	Y	
Condition #18137	Throughput limits	N	

#### IV. Source-Specific Applicable Requirements

Table IV.F.1.3 Tanks (FRT's Cluster 02)

**Table IV.F.1.3 Tanks  
 Source-specific Applicable Requirements**

**Fixed Roof Tanks Cluster 02**

**S-0021, S-0660, S-6066, S-4940**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<b>BAAQMD Regulation 8, Rule 5</b>	<b>Storage of Organic Liquids (11/27/02)</b>		
8-5-110	Exemption due to size and age	Y	
8-5-111	Limited Exemption, Tank Removal From and Return to Service	Y	
8-5-111.1	Notice to the APCO	Y	
8-5-111.2	Compliance before notification	Y	
8-5-111.3	Continuous and quick filling, emptying and refilling	Y	
8-5-111.4	Use of vapor recovery	Y	
8-5-111.5	Minimization of emissions	Y	
8-5-111.6	Written notice of completion not required	Y	
8-5-111.7	Compliance with Section 8-5-328	Y	
8-5-301	Storage Tank Control Requirements (internal floating roof, external floating roof, or approved emission control system)	Y	
8-5-302	Requirements for Submerged Fill Pipes	Y	
8-5-303	Requirements for Pressure Vacuum Valves	Y	
8-5-328	Tank cleaning requirements	Y	
8-5-328.1.2	Concentration of <10,000 ppm as methane after cleaning	Y	
8-5-328.2	Tank degassing when ozone excess is predicted	Y	
8-5-404	Certification	Y	
8-5-501	Records	Y	
8-5-502	Tank Cleaning Annual Source Test Requirement	Y	
8-5-503	Portable hydrocarbon detector	Y	
8-5-601	Analysis of Samples, Reid Vapor Pressure	Y	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-603	Determination of Emissions	Y	
8-5-603.1.2	Concentration of organic compounds after degassing	Y	
8-5-604	Determinations of Applicability	Y	
<b>EPA</b>	<b>Exempt from all Refinery MACT, NSPS K, Ka and Kb Standards for Hydrocarbon Storage Tanks (per &lt;10,000 gallon exemption)</b>	<b>Y</b>	
Condition #11193	Applies to S-0660 and S-6066	Y	

**IV. Source-Specific Applicable Requirements**

**Table IV.F.1.3 Tanks  
 Source-specific Applicable Requirements**

**Fixed Roof Tanks Cluster 02**

**S-0021, S-0660, S-6066, S-4940**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Condition #18137	Throughput limits	N	
Condition # 23001	Applies to S-4940	Y	

**Table IV.F.1.4 Tanks (FRT's Cluster 05)**

**Table IV.F.1.4 Tanks  
 Source-specific Applicable Requirements**

**Fixed Roof Tanks Cluster 05**

**S-0605 (S-0605 in Wastewater Cluster 40b), S-6200, S-6201, S-6202, S-6203, S-6204, S-6205, S-6206, S-6207, S-6208, S-6209, S-6210, S-6211, S-6212, S-6213, S-6214, S-6215, S-6216, S-6217, S-6218, S-6219 (Abatement device requirements for S-6200 through S-6219 are provided in Table II-B)**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<b>BAAQMD Regulation 8, Rule 5</b>	<b>Storage of Organic Liquids (11/27/02)</b>		
8-5-110	Exemption due to size and age	Y	
8-5-111	Limited Exemption, Tank Removal From and Return to Service	Y	
8-5-111.1	Notice to the APCO	Y	
8-5-111.2	Compliance before notification	Y	
8-5-111.3	Continuous and quick filling, emptying and refilling	Y	
8-5-111.4	Use of vapor recovery	Y	
8-5-111.5	Minimization of emissions	Y	
8-5-111.6	Written notice of completion not required	Y	
8-5-111.7	Compliance with Section 8-5-328	Y	
8-5-112	Limited Exemption, Tanks in Operation	Y	
8-5-112.1	Notice to the APCO	Y	
8-5-112.2	Compliance and certification before commencement of work	Y	
8-5-112.3	No product movement; minimization of emissions	Y	
8-5-112.4	Exemption does not exceed 7 days	Y	

**IV. Source-Specific Applicable Requirements**

**Table IV.F.1.4 Tanks  
 Source-specific Applicable Requirements**

**Fixed Roof Tanks Cluster 05**

**S-0605 (S-0605 in Wastewater Cluster 40b), S-6200, S-6201, S-6202, S-6203, S-6204, S-6205, S-6206, S-6207, S-6208, S-6209, S-6210, S-6211, S-6212, S-6213, S-6214, S-6215, S-6216, S-6217, S-6218, S-6219 (Abatement device requirements for S-6200 through S-6219 are provided in Table II-B)**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-5-301	Storage Tank Control Requirements (internal floating roof, external floating roof, or approved emission control system)	Y	
8-5-302	Requirements for Submerged Fill Pipes	Y	
8-5-303	Requirements for Pressure Vacuum Valves	Y	
8-5-328	Tank cleaning requirements	Y	
8-5-328.1.2	Concentration of <10,000 ppm as methane after cleaning	Y	
8-5-328.2	Tank degassing when ozone excess is predicted	Y	
8-5-404	Certification	Y	
8-5-501	Records	Y	
8-5-502	Tank Cleaning Annual Source Test Requirement	Y	
8-5-503	Portable hydrocarbon detector	Y	
8-5-601	Analysis of Samples, Reid Vapor Pressure	Y	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-603	Determination of Emissions	Y	
8-5-603.1.2	Concentration of organic compounds after degassing	Y	
8-5-604	Determinations of Applicability	Y	
<b>EPA</b>	<b>Exempt from all Refinery MACT, NSPS K, Ka and Kb Standards for Hydrocarbon Storage Tanks (per &lt;10,000 gallon exemption)</b>	<b>Y</b>	
<b>Wastewater Requirements for S-6200 through S-6219 (from Wastewater Cluster 60b)</b>			
<b>BAAQMD Regulation 11 Rule 12</b>	<b>Hazardous Pollutants – National Emission Standards for Benzene Emissions from Benzene Transfer Operations and Benzene Waste Operations (7/18/90, refer to NESHAP Subpart FF below)</b>	<b>N</b>	
<b>Refinery MACT</b>	<b>NESHAP for Petroleum Refineries        REQUIREMENTS FOR WASTEWATER STREAMS</b>		
63.641	What is a Refinery MACT Group 1 wastewater stream?	63.641 if Total Annual Benzene ≥ 10 Mg/yr, then each wastewater stream with flow rate ≥ 0.02 liters/min and benzene concentration ≥ 10 ppmw and not exempt from controls under 61 Subpart FF	Y
63.647	What does Refinery MACT require for Group 1 wastewater streams?	63.647(a) comply with 61 Subpart FF (below)	Y

**IV. Source-Specific Applicable Requirements**

**Table IV.F.1.4 Tanks  
 Source-specific Applicable Requirements**

**Fixed Roof Tanks Cluster 05**

**S-0605 (S-0605 in Wastewater Cluster 40b), S-6200, S-6201, S-6202, S-6203, S-6204, S-6205, S-6206, S-6207, S-6208, S-6209, S-6210, S-6211, S-6212, S-6213, S-6214, S-6215, S-6216, S-6217, S-6218, S-6219 (Abatement device requirements for S-6200 through S-6219 are provided in Table II-B)**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	Which definitions govern?	63.647(b) the definitions in Refinery MACT supercede those in 61 Subpart FF	Y
	Clarification with respect to violations	63.647© a monitoring excursion, a failure to perform a leak inspection, or a failure to repair a leak shall constitute a violation	Y
63.654	Which recordkeeping and reporting requirements govern?	63.654(a) recordkeeping and reporting shall be per 61 Subpart FF	Y
<b>NESHAP Subpart FF</b>	<b>Benzene Waste Operations REQUIREMENTS FOR CONTAINERS</b>		
61.345	When is this type of WMU subject to these requirements?	61.345(a) when invoked by 61.342(c)(1)(ii) for facilities with Total Annual Benzene ≥ 10 Mg/yr	Y
	Install, operate, and maintain a cover over the WMU.	61.345(a)(1) required for the container 61.345(a)(3) Container is to be located within an enclosure	Y
	Route vapors through a closed vent system to a control device?	61.345(a)(1) Not required for container 61.345(a)(3) required for the enclosure	Y
	The cover and all openings to operate with no detectable emissions (< 500 ppmv)?	61.345(a)(1)(i) required for the container 61.345(a)(3)(i) required for the enclosure	Y
	Demonstrate no detectable emissions using Method 21?	61.345(a)(1)(i) required for the container 61.345(a)(3)(i) required for the enclosure	Y
	Inspection per Method 21 required initially, and annually thereafter?	61.345(a)(1)(i) required for the container 61.345(a)(3)(i) required for the enclosure	Y



**IV. Source-Specific Applicable Requirements**

**Table IV.F.1.4 Tanks  
 Source-specific Applicable Requirements**

**Fixed Roof Tanks Cluster 05**

**S-0605 (S-0605 in Wastewater Cluster 40b), S-6200, S-6201, S-6202, S-6203, S-6204, S-6205, S-6206, S-6207, S-6208, S-6209, S-6210, S-6211, S-6212, S-6213, S-6214, S-6215, S-6216, S-6217, S-6218, S-6219 (Abatement device requirements for S-6200 through S-6219 are provided in Table II-B)**

Applicable Requirement	Regulation Title or Description of Requirement		Federally Enforceable (Y/N)	Future Effective Date
	Each opening to be kept closed, gasketed, & latched at all times that waste is present within, except when the opening is in use?	61.345(a)(1)(ii) required for the container 61.345(a)(3) Not required for the enclosure	Y	
	Are there requirements that are unique to this type of WMU?	61.345(a)(2) Load using a submerged fill pipe	Y	
	Are there conditions for which vapors are not required to be routed to a control device?	61.345(a)(3) Not required at any time other than when the container is open while waste is being treated	Y	
	What is required for WMUs not routed to a control device?	61.345(a)(3) routing to a control device is not required for containers that are kept closed while waste is being treated	Y	
	Visual inspection initially, and quarterly thereafter, to ensure that the cover and all openings are closed & gasketed properly?	61.345(b) required for the container 61.345(b) required for the enclosure	Y	
	First attempt at repair of broken seal or gasket or other problem (including detectable emissions) to be made within 15 days?	61.345© required for the container 61.345© required for the enclosure	Y	
	Delay of repair allowed?	61.345© yes, for the container, per 61.350 61.345© yes, for the enclosure, per 61.350	Y	
61.349	Closed vent system requirements?	61.349 no detectable emissions (500 ppmv), gas-tight gauging & sampling devices, etc.	Y	
	Control device requirements?	61.349 95% efficiency or equivalent with specified monitoring, recordkeeping & reporting	Y	
	Must the closed vent system operate with no detectable emissions (< 500 ppmw)?	61.349(a)(1)(i) required	Y	
	How is leak-tightness of the closed vent system inspected?	61.349(a)(1)(i) initially & annually, per Method 21	Y	

**IV. Source-Specific Applicable Requirements**

**Table IV.F.1.4 Tanks  
 Source-specific Applicable Requirements**

**Fixed Roof Tanks Cluster 05**

**S-0605 (S-0605 in Wastewater Cluster 40b), S-6200, S-6201, S-6202, S-6203, S-6204, S-6205, S-6206, S-6207, S-6208, S-6209, S-6210, S-6211, S-6212, S-6213, S-6214, S-6215, S-6216, S-6217, S-6218, S-6219 (Abatement device requirements for S-6200 through S-6219 are provided in Table II-B)**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	Must by-pass lines either have a flow indicator or be secured closed with a car-seal/lock-&-key?	61.349(a)(1)(ii) required Y	
	Must all gauging & sampling devices be gas-tight, and closed except when in use?	61.349(a)(1)(iii) required Y	
	Must pressure-relief devices be closed and sealed during normal operations?	61.349(a)(1)(iv) required Y	
	What is required if the control device is an enclosed combustion unit?	61.349(a)(2)(i) reduce Total Organic Compounds $\geq$ 95% or Total Organic Compound conc. $\leq$ 20 ppmv or minimum residence time & temperature of 0.5 sec at 760°C Y	
	What is required if the control device is a vapor recovery unit?	61.349(a)(2)(ii) reduce Total Organic Compounds $\geq$ 95% or benzene $\geq$ 98% Y	
	What is required if the control device is an alternative technology?	61.349(a)(2)(iv) reduce TOC $\geq$ 95% or benzene $\geq$ 98%; and approved by the Administrator Y	
	Must the closed vent system & control device operate at all times when waste is in the WMU?	61.349(b) required, except when maintenance/repair of the WMU requires shutdown of the control device Y	
	What is required to demonstrate compliance of a control device that is not a flare?	61.349© Either engineering calculations or performance tests Y	
	Can performance tests be required for control devices?	61.349(e) perform performance tests of the control device upon the request of the Administrator Y	
	What visual inspections are required for the closed vent system and control device?	61.349(f) inspect initially & annually for visible defects Y	
	If defects are found during an inspection, how quickly must they be repaired?	61.349(g) first attempt within 5 days, final repair within 15 days; unless delay allowed per 61.350 Y	
	Must control devices be monitored?	61.349(h) required, per 61.354© Y	

**IV. Source-Specific Applicable Requirements**

**Table IV.F.1.4 Tanks  
 Source-specific Applicable Requirements**

**Fixed Roof Tanks Cluster 05**

**S-0605 (S-0605 in Wastewater Cluster 40b), S-6200, S-6201, S-6202, S-6203, S-6204, S-6205, S-6206, S-6207, S-6208, S-6209, S-6210, S-6211, S-6212, S-6213, S-6214, S-6215, S-6216, S-6217, S-6218, S-6219 (Abatement device requirements for S-6200 through S-6219 are provided in Table II-B)**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date	
61.350	When is a delay of repair allowed, and when must the delayed repair be complete?	61.350 delay of repair is allowed if repair is technically impossible without a shutdown; repair to be complete by the end of the next shutdown	Y	
61.353	What are the responsibilities associated with approval of alternative technologies?	61.353 the person requesting the alternative must show equivalency; and the Administrator must publish any approval in the Federal Register	Y	
61.354	Is monitoring required for control devices?	61.354© daily inspect the continuous monitoring devices specified herein, except as specified in 61.354(d) & (e)	Y	
	Are there control devices that do not require continuous data recorders?	61.354(d) carbon adsorption that is not regenerated on site may be monitored without a continuous recorder; or not monitored if replaced on a sufficiently frequent interval	Y	
	May alternative parameters be monitored in lieu of those specified?	61.354(e) allowed if adequacy of the alternative is demonstrated	Y	
	Are inspections required for by-pass lines in closed vent systems?	61.354(f) inspect daily if using a flow indicator or inspect monthly if using car-seal/lock-&-key	Y	
	Is additional monitoring required for systems maintained at negative pressure?	61.354(g) continuously monitor the system pressure	Y	
61.355	Procedure for detecting emissions	61.355(h) per Method 21	Y	
	Procedure for performance testing of control devices	61.355(i) for 61.349(a)(2) to demonstrate compliance with reduction efficiency	Y	
61.356	How long are records to be kept?	61.356(a) keep all records	Y	
	Are records required for the design of the control equipment (e.g., control devices, floating roofs, etc.)?	61.356(d) for 61.343 – 61.347 required, keep for the life of the equipment	Y	

**IV. Source-Specific Applicable Requirements**

**Table IV.F.1.4 Tanks  
 Source-specific Applicable Requirements**

**Fixed Roof Tanks Cluster 05**

**S-0605 (S-0605 in Wastewater Cluster 40b), S-6200, S-6201, S-6202, S-6203, S-6204, S-6205, S-6206, S-6207, S-6208, S-6209, S-6210, S-6211, S-6212, S-6213, S-6214, S-6215, S-6216, S-6217, S-6218, S-6219 (Abatement device requirements for S-6200 through S-6219 are provided in Table II-B)**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	Are records required documenting the performance of control devices? 61.356(f) for 61.349 required, keep for the life of the control device	Y	
	Are records required for visual inspections and repairs? 61.356(g) for 61.343 – 61.347 required only when defects are found	Y	
	Are records required for Method 21 leak inspections and repairs? 61.356(h) for 61.343 – .347, 61.349 required for each inspection	Y	
	Are records of startup/shutdown and monitoring data required for control devices? 61.356(j) for 61.349 required	Y	
	Are records of monitoring data required for systems maintained under negative pressure? 61.356(m) for 61.343 – 61.347 required	Y	
Condition #11193	Applies to S-0605	Y	
Condition #10761	Applies to S-6200 through S-6219	Y	
Condition #18137	Throughput limits	N	

**Table IV.F.1.5 Tanks (FRT's Cluster 11)**

**Table IV.F.1.5 Tanks  
 Source-specific Applicable Requirements**

**External Floating Roof Tanks Cluster 11**

**S-0232, S-0297, S-0298, S-0398, S-1292, S-1518, S-1798, S-1799, S-1843, S-1966, S-3074, S-3100**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<b>BAAQMD Regulation 8, Rule 5</b>	<b>Storage of Organic Liquids (11/27/02)</b>		

#### IV. Source-Specific Applicable Requirements

**Table IV.F.1.5 Tanks**  
**Source-specific Applicable Requirements**

**External Floating Roof Tanks Cluster 11**

**S-0232, S-0297, S-0298, S-0398, S-1292, S-1518, S-1798, S-1799, S-1843, S-1966, S-3074, S-3100**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-5-111	Limited Exemption, Tank Removal From and Return to Service	Y	
8-5-111.1	Notice to the APCO	Y	
8-5-111.2	Compliance before notification	Y	
8-5-111.3	Continuous and quick filling, emptying and refilling	Y	
8-5-111.4	Use of vapor recovery	Y	
8-5-111.5	Minimization of emissions	Y	
8-5-111.6	Written notice of completion not required	Y	
8-5-111.7	Compliance with Section 8-5-328	Y	
8-5-112	Limited Exemption, Tanks in Operation	Y	
8-5-112.1	Notice to the APCO	Y	
8-5-112.2	Compliance and certification before commencement of work	Y	
8-5-112.3	No product movement; minimization of emissions	Y	
8-5-112.4	Exemption does not exceed 7 days	Y	
8-5-301	Storage Tank Control Requirements (internal floating roof, external floating roof, or approved emission control system)	Y	
8-5-302	Requirements for Submerged Fill Pipes	Y	
8-5-303	Requirements for Pressure Vacuum Valves	Y	
8-5-304	Requirements for External Floating Roofs	Y	
8-5-320	Tank fitting requirements	Y	
8-5-320.2	Openings in the floating roof except p/v valves and vacuum breaker vents	Y	
8-5-320.3	Openings in the floating roof except floating roof legs	Y	
8-5-320.4	Solid sampling or gauging wells and similar fixed projections	Y	
8-5-320.5	Slotted sampling or gauging wells and similar fixed projections	Y	
8-5-320.6	Emergency roof drain	Y	
8-5-321	Primary seal requirements	Y	
8-5-321.1	No holes, tears, or other openings in the primary seal fabric	Y	
8-5-321.2	The seal shall be liquid mounted except as provided in 8-5-305.1	Y	
8-5-321.3	Metallic shoe type seals	Y	
8-5-321.3.1	Geometry of shoe	Y	
8-5-321.3.2	Gaps for welded tanks	Y	
8-5-322	Secondary seal requirements	Y	
8-5-322.1	No holes, tears, or other openings in the secondary seal	Y	

**IV. Source-Specific Applicable Requirements**

**Table IV.F.1.5 Tanks  
 Source-specific Applicable Requirements**

**External Floating Roof Tanks Cluster 11**

**S-0232, S-0297, S-0298, S-0398, S-1292, S-1518, S-1798, S-1799, S-1843, S-1966, S-3074, S-3100**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-5-322.2	Insertion of probes	Y	
8-5-322.3	Gap length	Y	
8-5-322.5	Gap for welded tanks with seal installed after September 4, 1985	Y	
8-5-322.6	Secondary seal shall not be attached to primary seal	Y	
8-5-328	Tank cleaning requirements	Y	
8-5-328.1.2	Concentration of <10,000 ppm as methane after cleaning	Y	
8-5-328.2	Tank degassing when ozone excess is predicted	Y	
8-5-401	Inspection Requirements for External Floating Roof Tanks	Y	
8-5-404	Certification	Y	
8-5-405	Information required	Y	
8-5-501	Records	Y	
8-5-502	Tank Cleaning Annual Source Test Requirement	Y	
8-5-503	Portable hydrocarbon detector	Y	
8-5-601	Analysis of Samples, Reid Vapor Pressure	Y	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-603	Determination of Emissions	Y	
8-5-603.1.2	Concentration of organic compounds after degassing	Y	
8-5-604	Determinations of Applicability	Y	
<b>Refinery MACT</b>	<b>NESHAP for Petroleum Refineries        REQUIREMENTS FOR RECORD KEEPING ONLY</b>		
63.642(e) 63.654(l)	General recordkeeping requirements: Time period for keeping records, unless specified otherwise.	63.642(e) & 63.654(i)(4) keep all other records, retrievable within 24 hr	Y
	General recordkeeping requirements: keep all reports and notification for the specified period of time.	63.642(e) & 63.654(i)(4) required	Y
63.646(h) 63.9(b)	Initial Notification: Is initial notification of the source's existence required?	63.646(h) Table 6 Ref. 63.9 (b)(2) Not required	Y
63.646(i) 63.652(b)	Implementation Plan:	63.646(i) & 63.652(b) Not required	Y
63.654(f)	Notification of Compliance Status report:	63.654(f) later of next Periodic Report after compliance or January 15, 1999	Y

**IV. Source-Specific Applicable Requirements**

**Table IV.F.1.5 Tanks  
 Source-specific Applicable Requirements**

**External Floating Roof Tanks Cluster 11**

**S-0232, S-0297, S-0298, S-0398, S-1292, S-1518, S-1798, S-1799, S-1843, S-1966, S-3074, S-3100**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
	Report determination of applicability for other individual tanks (i.e., for MACT rules, whether Group1 or Group2)?	63.654(f)(1)(i)(A) with initial Notification of Compliance Status; Jan. 15, 1999	Y
63.654(h)	Report applicability for varying-use tanks?	63.654(h)(6)(ii) with the initial NOC Status report	Y
	Other (initial) Reports: Report applicability for varying-use tanks?	63.654(h)(6)(ii) required with the initial Notification of Compliance Status report	Y
63.654(i) 63.123(a)	Applicability records: Time period for keeping records of applicability determination, unless specified otherwise.	63.654(i)(1) 63.123(a) keep record readily accessible for the service life of the tank	Y
63.654(i) 63.646(a) 63.119(a) 63.123(a)	Applicability records: Records of dimensions & capacity required for nonexempt tanks?	63.654(i)(1) 63.646(a)&63.119(a)(3) 63.123(a) required keep record readily accessible for service life of the tank	Y
	Applicability records: Additional recordkeeping requirements for certain tanks.	63.654(i)(1)(iv) determination of HAP content keep record readily accessible for service life of the tank	Y
Throughput	Conditon #2238	Applies to S-3100	Y
Condition #13597	Applies to S-1798		Y
Condition #3697	Applies to S-1799		Y
Condition #18137	Throughput limits		N

**IV. Source-Specific Applicable Requirements**

**Table IV.F.1.6 Tanks (FRT's Cluster 12)**

**Table IV.F.1.6 Tanks  
 Source-specific Applicable Requirements**

**Internal Floating Roof Tanks Cluster 12**

**S-1633**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<b>BAAQMD Regulation 8, Rule 5</b>	<b>Storage of Organic Liquids (11/27/02)</b>		
8-5-111	Limited Exemption, Tank Removal From and Return to Service	Y	
8-5-111.1	Notice to the APCO	Y	
8-5-111.2	Compliance before notification	Y	
8-5-111.3	Continuous and quick filling, emptying and refilling	Y	
8-5-111.4	Use of vapor recovery	Y	
8-5-111.5	Minimization of emissions	Y	
8-5-111.6	Written notice of completion not required	Y	
8-5-111.7	Compliance with Section 8-5-328	Y	
8-5-112	Limited Exemption, Tanks in Operation	Y	
8-5-112.1	Notice to the APCO	Y	
8-5-112.2	Compliance and certification before commencement of work	Y	
8-5-112.3	No product movement; minimization of emissions	Y	
8-5-112.4	Exemption does not exceed 7 days	Y	
8-5-301	Storage Tank Control Requirements (internal floating roof, external floating roof, or approved emission control system)	Y	
8-5-305	Requirements for Internal Floating Roofs	Y	
8-5-320	Tank fitting requirements	Y	
8-5-320.2	Openings in the floating roof except p/v valves and vacuum breaker vents	Y	
8-5-320.3	Openings in the floating roof except floating roof legs	Y	
8-5-320.4	Solid sampling or gauging wells and similar fixed projections	Y	
8-5-320.5	Slotted sampling or gauging wells and similar fixed projections	Y	
8-5-320.6	Emergency roof drain	Y	
8-5-321	Primary seal requirements	Y	
8-5-321.1	No holes, tears, or other openings in the primary seal fabric	Y	
8-5-321.2	The seal shall be liquid mounted except as provided in 8-5-305.1	Y	
8-5-321.3	Metallic shoe type seals	Y	
8-5-321.3.1	Geometry of shoe	Y	



#### IV. Source-Specific Applicable Requirements

**Table IV.F.1.6 Tanks**  
**Source-specific Applicable Requirements**

**Internal Floating Roof Tanks Cluster 12**

**S-1633**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-5-321.3.2	Gaps for welded tanks	Y	
8-5-322	Secondary seal requirements	Y	
8-5-322.1	No holes, tears, or other openings in the secondary seal	Y	
8-5-322.2	Insertion of probes	Y	
8-5-322.3	Gap length	Y	
8-5-322.5	Gap for welded tanks with seal installed after September 4, 1985	Y	
8-5-322.6	Secondary seal shall not be attached to primary seal	Y	
8-5-328	Tank cleaning requirements	Y	
8-5-328.1.2	Concentration of <10,000 ppm as methane after cleaning	Y	
8-5-328.2	Tank degassing when ozone excess is predicted	Y	
8-5-402	Inspection Requirements for Internal Floating Roof Tanks	Y	
8-5-404	Certification	Y	
8-5-405	Information required	Y	
8-5-501	Records	Y	
8-5-502	Tank Cleaning Annual Source Test Requirement	Y	
8-5-503	Portable hydrocarbon detector	Y	
8-5-601	Analysis of Samples, Reid Vapor Pressure	Y	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-603	Determination of Emissions	Y	
8-5-603.1.2	Concentration of organic compounds after degassing	Y	
8-5-604	Determinations of Applicability	Y	
<b>Refinery MACT</b>	<b>NESHAP for Petroleum Refineries REQUIREMENTS FOR RECORD KEEPING ONLY</b>		
63.642(e) 63.654(i)(4)	General recordkeeping requirements: Time period for keeping records, unless specified otherwise.	63.642(e) & 63.654(i)(4) keep all other records, retrievable within 24 hr	Y
	General recordkeeping requirements: keep all reports and notification for the specified period of time.	63.642(e) & 63.654(i)(4) required	Y
63.646(h)	Initial Notification: Is initial notification of the source's existence required?	63.646(h) Table 6 Ref. 63.9 (b)(2) Not required	Y
63.646(i) 63.652(b)	Implementation Plan:	63.646(i) & 63.652(b) Not required	Y

**IV. Source-Specific Applicable Requirements**

**Table IV.F.1.6 Tanks  
 Source-specific Applicable Requirements**

**Internal Floating Roof Tanks Cluster 12**

**S-1633**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
63.654(f)	Notification of Compliance Status report: 63.654(f) later of next Periodic Report after compliance date or January 15, 1999	Y	
	Report determination of applicability for other individual tanks (i.e., for MACT rules, whether Group1 or Group2)? 63.654(f)(1)(i)(A) with initial Notification of Compliance Status; Jan. 15, 1999	Y	
63.654(h)	Report applicability for varying-use tanks? 63.654(h)(6)(ii) with the initial NOC Status report	Y	
	Other (initial) Reports: Report applicability for varying-use tanks? 63.654(h)(6)(ii) required with the initial Notification of Compliance Status report	Y	
63.654(i) 63.123(a)	Applicability records: Time period for keeping records of applicability determination, unless specified otherwise. 63.654(i)(1) 63.123(a) keep record readily accessible for the service life of the tank	Y	
63.654(i) 63.646(a) 63.119(a) 63.123(a)	Applicability records: Records of dimensions & capacity required for nonexempt tanks? 63.654(i)(1) 63.646(a)&63.119(a)(3) 63.123(a) required keep record readily accessible for service life of the tank.	Y	
63.654(I)	Applicability records: Additional recordkeeping requirements for certain tanks. 63.654(I)(1)(iv) determination of HAP content. Keep record readily accessible for service life of the tank.	Y	
Condition #18137	Throughput limits	N	

#### IV. Source-Specific Applicable Requirements

Table IV.F.1.7 Tanks (FRT's Cluster 13)

Table IV.F.1.7 Tanks  
 Source-specific Applicable Requirements

**Fixed Roof Tanks Cluster 13**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<b>BAAQMD Regulation 8, Rule 5</b>	<b>Storage of Organic Liquids (11/27/02)</b>		
8-5-111	Limited Exemption, Tank Removal From and Return to Service	Y	
8-5-111.1	Notice to the APCO	Y	
8-5-111.2	Compliance before notification	Y	
8-5-111.3	Continuous and quick filling, emptying and refilling	Y	
8-5-111.4	Use of vapor recovery	Y	
8-5-111.5	Minimization of emissions	Y	
8-5-111.6	Written notice of completion not required	Y	
8-5-111.7	Compliance with Section 8-5-328	Y	
8-5-112	Limited Exemption, Tanks in Operation	Y	
8-5-112.1	Notice to the APCO	Y	
8-5-112.2	Compliance and certification before commencement of work	Y	
8-5-112.3	No product movement; minimization of emissions	Y	
8-5-112.4	Exemption does not exceed 7 days	Y	
8-5-301	Storage Tank Control Requirements (internal floating roof, external floating roof, or approved emission control system)	Y	
8-5-302	Requirements for Submerged Fill Pipes	Y	
8-5-303	Requirements for Pressure Vacuum Valves	Y	
8-5-328	Tank cleaning requirements	Y	
8-5-328.1.2	Concentration of <10,000 ppm as methane after cleaning	Y	
8-5-328.2	Tank degassing when ozone excess is predicted	Y	
8-5-404	Certification	Y	
8-5-501	Records	Y	
8-5-502	Tank Cleaning Annual Source Test Requirement	Y	
8-5-503	Portable hydrocarbon detector	Y	
8-5-601	Analysis of Samples, Reid Vapor Pressure	Y	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-603	Determination of Emissions	Y	
8-5-603.1.2	Concentration of organic compounds after degassing	Y	

#### IV. Source-Specific Applicable Requirements

**Table IV.F.1.7 Tanks**  
**Source-specific Applicable Requirements**

**Fixed Roof Tanks Cluster 13**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-5-604	Determinations of Applicability	Y	
<b>Refinery MACT</b>	<b>NESHAP for Petroleum Refineries REQUIREMENTS FOR RECORD KEEPING ONLY</b>		
63.642(e) 63.654(i)	General recordkeeping requirements: Time period for keeping records, unless specified otherwise.	63.642(e) & 63.654(i)(4) keep all other records, retrievable within 24 hours	Y
	General recordkeeping requirements:  Keep all reports and notification for the specified period of time.	63.642(e) & 63.654(i)(4) required	Y
63.646(h) 63.9 (b)	Initial Notification: Is initial notification of the source's existence required?	63.646(h) Table 6 Ref. 63.9 (b)(2) Not required	Y
63.646(i) 63.652(b)	Implementation Plan:	63.646(i) & 63.652(b) Not required	Y/N
63.654(f)	Notification of Compliance Status report:	63.654(f) later of next Periodic Report after compliance or January 15, 1999	Y
	Report determination of applicability for other individual tanks (i.e., for MACT rules, whether Group1 or Group2)?	63.654(f)(1)(i)(A) with initial Notification of Compliance Status; Jan. 15, 1999	Y
63.654(h)	Report applicability for varying-use tanks?	63.654(h)(6)(ii) with the initial NOC Status report	Y
	Other (initial) Reports: Report applicability for varying-use tanks?	63.654(h)(6)(ii) required with the initial Notification of Compliance Status report	Y
63.654(i) 63.123(a)	Applicability records: Time period for keeping records of applicability determination, unless specified otherwise.	63.654(i)(1) 63.123(a) keep record readily accessible for the service life of the tank	Y
63.654(i) 63.646(a) 63.119(a) 63.123(a)	Applicability records: Records of dimensions & capacity required for nonexempt tanks?	63.654(i)(1) 63.646(a)&63.119(a)(3) 63.123(a) required keep record readily accessible for service life of the tank	Y
Condition #18137	Throughput limits	N	

#### IV. Source-Specific Applicable Requirements

Table IV.F.1.8 Tanks (FRT's Cluster 16)

**Table IV.F.1.8 Tanks  
 Source-specific Applicable Requirements**

**Fixed Roof Tanks Cluster 16**

**S-9302, S-9303**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<b>BAAQMD Regulation 8, Rule 5</b>	<b>Storage of Organic Liquids (11/27/02)</b>		
8-5-111	Limited Exemption, Tank Removal From and Return to Service	Y	
8-5-111.1	Notice to the APCO	Y	
8-5-111.2	Compliance before notification	Y	
8-5-111.3	Continuous and quick filling, emptying and refilling	Y	
8-5-111.4	Use of vapor recovery	Y	
8-5-111.5	Minimization of emissions	Y	
8-5-111.6	Written notice of completion not required	Y	
8-5-111.7	Compliance with Section 8-5-328	Y	
8-5-112	Limited Exemption, Tanks in Operation	Y	
8-5-112.1	Notice to the APCO	Y	
8-5-112.2	Compliance and certification before commencement of work	Y	
8-5-112.3	No product movement; minimization of emissions	Y	
8-5-112.4	Exemption does not exceed 7 days	Y	
8-5-301	Storage Tank Control Requirements (internal floating roof, external floating roof, or approved emission control system)	Y	
8-5-302	Requirements for Submerged Fill Pipes	Y	
8-5-303	Requirements for Pressure Vacuum Valves	Y	
8-5-328	Tank cleaning requirements	Y	
8-5-328.1.2	Concentration of <10,000 ppm as methane after cleaning	Y	
8-5-328.2	Tank degassing when ozone excess is predicted	Y	
8-5-404	Certification	Y	
8-5-501	Records	Y	
8-5-502	Tank Cleaning Annual Source Test Requirement	Y	
8-5-503	Portable hydrocarbon detector	Y	
8-5-601	Analysis of Samples, Reid Vapor Pressure	Y	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-603	Determination of Emissions	Y	
8-5-603.1.2	Concentration of organic compounds after degassing	Y	
8-5-604	Determinations of Applicability	Y	

**IV. Source-Specific Applicable Requirements**

**Table IV.F.1.8 Tanks  
 Source-specific Applicable Requirements**

**Fixed Roof Tanks Cluster 16**

**S-9302, S-9303**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
<b>Refinery MACT</b>	<b>NESHAP for Petroleum Refineries            REQUIREMENTS FOR RECORDKEEPING ONLY</b>		
63.642(e)	General recordkeeping requirements: Time period for keeping records, unless specified otherwise.	63.642(e) & 63.654(i)(4) keep all other records 5 years, retrievable within 24 hr	Y
	General recordkeeping requirements: keep all reports and notification for the specified period of time.	63.642(e) & 63.654(i)(4) required	Y
63.654(f)	Notification of Compliance Status report:	63.654(f) later of next Periodic Report after compliance or January 15, 1999	Y
	Report determination of applicability for other individual tanks (i.e., for MACT rules, whether Group1 or Group2)?	63.654(f)(1)(i)(A) with initial Notification of Compliance Status; Jan. 15, 1999	Y
63.654(h)	Report applicability for varying-use tanks?	63.654(h)(6)(ii) with the initial NOC Status report	Y
	Other (initial) Reports: Report applicability for varying-use tanks?	63.654(h)(6)(ii) required with the initial Notification of Compliance Status report	Y
63.654(i)	Applicability records: Time period for keeping records of applicability determination, unless specified otherwise.	63.654(i)(1) 63.123(a) keep record readily accessible for the service life of the tank	Y
	Applicability records: Records of dimensions & capacity required for nonexempt tanks?	63.654(i)(1) 63.646(a)&63.119(a)(3) 63.123(a) required, keep record readily accessible for service life of the tank	Y
Condition #18137	Throughput limits	N	

#### IV. Source-Specific Applicable Requirements

**Table IV.F.1.9 Tanks (EFRT's Cluster 17)**

**Table IV.F.1.9 Tanks  
 Source-specific Applicable Requirements**

**External Floating Roof Tanks Cluster 17**

**S-3101, S-3102, S-3129**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<b>BAAQMD Regulation 8, Rule 5</b>	<b>Storage of Organic Liquids (11/27/02)</b>		
8-5-111	Limited Exemption, Tank Removal From and Return to Service	Y	
8-5-111.1	Notice to the APCO	Y	
8-5-111.2	Compliance before notification	Y	
8-5-111.3	Continuous and quick filling, emptying and refilling	Y	
8-5-111.4	Use of vapor recovery	Y	
8-5-111.5	Minimization of emissions	Y	
8-5-111.6	Written notice of completion not required	Y	
8-5-111.7	Compliance with Section 8-5-328	Y	
8-5-112	Limited Exemption, Tanks in Operation	Y	
8-5-112.1	Notice to the APCO	Y	
8-5-112.2	Compliance and certification before commencement of work	Y	
8-5-112.3	No product movement; minimization of emissions	Y	
8-5-112.4	Exemption does not exceed 7 days	Y	
8-5-301	Storage Tank Control Requirements (internal floating roof, external floating roof, or approved emission control system)	Y	
8-5-304	Requirements for External Floating Roofs	Y	
8-5-320	Tank fitting requirements	Y	
8-5-320.2	Openings in the floating roof except p/v valves and vacuum breaker vents	Y	
8-5-320.3	Openings in the floating roof except floating roof legs	Y	
8-5-320.4	Solid sampling or gauging wells and similar fixed projections	Y	
8-5-320.5	Slotted sampling or gauging wells and similar fixed projections	Y	
8-5-320.6	Emergency roof drain	Y	
8-5-321	Primary seal requirements	Y	
8-5-321.1	No holes, tears, or other openings in the primary seal fabric	Y	
8-5-321.2	The seal shall be liquid mounted except as provided in 8-5-305.1	Y	
8-5-321.3	Metallic shoe type seals	Y	
8-5-321.3.1	Geometry of shoe	Y	

**IV. Source-Specific Applicable Requirements**

**Table IV.F.1.9 Tanks  
 Source-specific Applicable Requirements**

**External Floating Roof Tanks Cluster 17**

**S-3101, S-3102, S-3129**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-5-321.3.2	Gaps for welded tanks	Y	
8-5-322	Secondary seal requirements	Y	
8-5-322.1	No holes, tears, or other openings in the secondary seal	Y	
8-5-322.2	Insertion of probes	Y	
8-5-322.3	Gap length	Y	
8-5-322.5	Gap for welded tanks with seal installed after September 4, 1985	Y	
8-5-322.6	Secondary seal shall not be attached to primary seal	Y	
8-5-328	Tank cleaning requirements	Y	
8-5-328.1.2	Concentration of <10,000 ppm as methane after cleaning	Y	
8-5-328.2	Tank degassing when ozone excess is predicted	Y	
8-5-401	Inspection Requirements for External Floating Roof Tanks	Y	
8-5-404	Certification	Y	
8-5-405	Information required	Y	
8-5-501	Records	Y	
8-5-502	Tank Cleaning Annual Source Test Requirement	Y	
8-5-503	Portable hydrocarbon detector	Y	
8-5-601	Analysis of Samples, Reid Vapor Pressure	Y	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-603	Determination of Emissions	Y	
8-5-603.1.2	Concentration of organic compounds after degassing	Y	
8-5-604	Determinations of Applicability	Y	
<b>Refinery MACT</b>	<b>NESHAP for Petroleum Refineries          REQUIREMENTS FOR TANKS ALSO SUBJECT TO NSPS K</b>		
63.640(n)	Which rule governs for storage vessels subject to the control requirements of NSPS subpart K but subject to only recordkeeping under Refinery MACT?	63.640(n)(6) NSPS subpart K	Y
<b>NSPS Subpart K</b>	<b>Petroleum Liquids Storage Vessels          REQUIREMENTS FOR EXTERNAL FLOATING ROOF TANKS</b>		
60.112(a)	EFRT operating requirements: When landing the floating roof on its support legs, is the tank to be emptied & either refilled or degassed ASAP?	60.112(a)(1)	Y



**IV. Source-Specific Applicable Requirements**

**Table IV.F.1.9 Tanks  
 Source-specific Applicable Requirements**

**External Floating Roof Tanks Cluster 17**

**S-3101, S-3102, S-3129**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
	EFR Rim Seals: vapor-mounted primary seal: liquid-mounted primary seal: mechanical-shoe primary seal:	60.112(a)(1) OK alone OK alone OK alone	Y
60.113(a)	Applicability records: Time period for keeping records of applicability determination, unless specified otherwise.	60.113(a) keep record as long as the tank is in that service	Y
60.113(a) 60.113(b) 60.113(c) 60.113(d)	Applicability records: Additional recordkeeping requirements for certain tanks.	60.113(a) – (d) internal diameter & TVP of the stored product, if capacity > 40,000 gallons and TVP > 1.0 keep record as long as the tank is in that service	Y
	True vapor pressure (TVP) determination for applicability:	60.113(b) & (c) true vapor pressure (not maximum TVP), & thus could be based on the annual average temperature	Y
60.7(a)	Initial Notification: Is initial notification of the source's existence required?	60.7(a)(1) notification within 30 days after begin construction	Y
	Report (document) having initially achieved compliance?	60.7(a)(3) notification of startup within 15 days, but no required to certify compliance	Y
	Notification of Compliance Status report:	60.7(a)(3) 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
<b>NSPS Subpart A</b>	<b>New Source Performance Standards GENERAL PROVISIONS</b>		
60.7(f)	General recordkeeping requirements: Time period for keeping records, unless specified otherwise.	60.7(f) keep all reports & notifications	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

**IV. Source-Specific Applicable Requirements**

**Table IV.F.1.9 Tanks  
 Source-specific Applicable Requirements**

**External Floating Roof Tanks Cluster 17**

**S-3101, S-3102, S-3129**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Condition #18137	Throughput limits	N	
Condition #21237	Notification requirement for S-1514, S-3072, and S-3101 regarding pumping and piping capacities.	N	

**Table IV.F.1.10 Tanks (EFRT's Cluster 23)**

**Table IV.F.1.10 Tanks  
 Source-specific Applicable Requirements**

**External Floating Roof Tanks Cluster 23**

**S-0399, S-3180, S-3189, S-3190, S-3191, S-3193, S-3196, S-3197, S-3198, S-3201, S-3202, S-3213, S-3214, S-3225**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<b>BAAQMD Regulation 8, Rule 5</b>	<b>Storage of Organic Liquids (11/27/02)</b>		
8-5-111	Limited Exemption, Tank Removal From and Return to Service	Y	
8-5-111.1	Notice to the APCO	Y	
8-5-111.2	Compliance before notification	Y	
8-5-111.3	Continuous and quick filling, emptying and refilling	Y	
8-5-111.4	Use of vapor recovery	Y	
8-5-111.5	Minimization of emissions	Y	
8-5-111.6	Written notice of completion not required	Y	
8-5-111.7	Compliance with Section 8-5-328	Y	
8-5-112	Limited Exemption, Tanks in Operation	Y	
8-5-112.1	Notice to the APCO	Y	
8-5-112.2	Compliance and certification before commencement of work	Y	
8-5-112.3	No product movement; minimization of emissions	Y	
8-5-112.4	Exemption does not exceed 7 days	Y	

#### IV. Source-Specific Applicable Requirements

**Table IV.F.1.10 Tanks**  
**Source-specific Applicable Requirements**

**External Floating Roof Tanks Cluster 23**

**S-0399, S-3180, S-3189, S-3190, S-3191, S-3193, S-3196, S-3197, S-3198, S-3201, S-3202,  
 S-3213, S-3214, S-3225**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-5-301	Storage Tank Control Requirements (internal floating roof, external floating roof, or approved emission control system)	Y	
8-5-304	Requirements for External Floating Roofs	Y	
8-5-320	Tank fitting requirements	Y	
8-5-320.2	Openings in the floating roof except p/v valves and vacuum breaker vents	Y	
8-5-320.3	Openings in the floating roof except floating roof legs	Y	
8-5-320.4	Solid sampling or gauging wells and similar fixed projections	Y	
8-5-320.5	Slotted sampling or gauging wells and similar fixed projections	Y	
8-5-320.6	Emergency roof drain	Y	
8-5-321	Primary seal requirements	Y	
8-5-321.1	No holes, tears, or other openings in the primary seal fabric	Y	
8-5-321.2	The seal shall be liquid mounted except as provided in 8-5-305.1	Y	
8-5-321.3	Metallic shoe type seals	Y	
8-5-321.3.1	Geometry of shoe	Y	
8-5-321.3.2	Gaps for welded tanks	Y	
8-5-322	Secondary seal requirements	Y	
8-5-322.1	No holes, tears, or other openings in the secondary seal	Y	
8-5-322.2	Insertion of probes	Y	
8-5-322.3	Gap length	Y	
8-5-322.5	Gap for welded tanks with seal installed after September 4, 1985	Y	
8-5-322.6	Secondary seal shall not be attached to primary seal	Y	
8-5-328	Tank cleaning requirements	Y	
8-5-328.1.2	Concentration of <10,000 ppm as methane after cleaning	Y	
8-5-328.2	Tank degassing when ozone excess is predicted	Y	
8-5-401	Inspection Requirements for External Floating Roof Tanks	Y	
8-5-404	Certification	Y	
8-5-405	Information required	Y	
8-5-501	Records	Y	
8-5-502	Tank Cleaning Annual Source Test Requirement	Y	
8-5-503	Portable hydrocarbon detector	Y	
8-5-601	Analysis of Samples, Reid Vapor Pressure	Y	

**IV. Source-Specific Applicable Requirements**

**Table IV.F.1.10 Tanks  
 Source-specific Applicable Requirements**

**External Floating Roof Tanks Cluster 23**

**S-0399, S-3180, S-3189, S-3190, S-3191, S-3193, S-3196, S-3197, S-3198, S-3201, S-3202,  
 S-3213, S-3214, S-3225**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-603	Determination of Emissions	Y	
8-5-603.1.2	Concentration of organic compounds after degassing	Y	
8-5-604	Determinations of Applicability	Y	
<b>Refinery MACT</b>	<b>NESHAP for Petroleum Refineries            REQUIREMENTS FOR TANKS ALSO SUBJECT TO NSPS Kb</b>		
63.640(n)	Which rule governs for storage vessels subject to both Refinery MACT and NSPS subpart Kb?	63.640(n)(1) NSPS subpart Kb	Y
	Does Refinery MACT provide for EFR secondary seals to be pulled back or temporarily removed during NSPS Kb inspections of the primary seal?	63.640(n)(8)(i) yes	Y
	Does Refinery MACT provide for delay of NSPS Kb seal gap measurements due to unsafe conditions?	63.640(n)(8)(ii) yes – up to 30 days, or empty the tank within 45 days	Y
	Does Refinery MACT provide for extensions of time to perform NSPS Kb inspections of unsafe tanks?	63.640(n)(8)(iii) yes – up to 2 extensions of 30 days each	Y
	Does Refinery MACT provide for extensions of time to repair defects found during NSPS Kb inspections?	63.640(n)(8)(iii) yes – up to 2 extensions of 30 days each	Y
	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

**IV. Source-Specific Applicable Requirements**

**Table IV.F.1.10 Tanks  
 Source-specific Applicable Requirements**

**External Floating Roof Tanks Cluster 23**

**S-0399, S-3180, S-3189, S-3190, S-3191, S-3193, S-3196, S-3197, S-3198, S-3201, S-3202,  
 S-3213, S-3214, S-3225**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<b>NSPS Subpart Kb</b>	<b>Volatiles Organic Liquid Storage Vessels            REQUIREMENTS FOR EXTERNAL FLOATING ROOF TANKS</b>		
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 w/rim-mounted secondary OK w/rim-mounted secondary	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 auto. 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**

**Table IV.F.1.10 Tanks  
 Source-specific Applicable Requirements**

**External Floating Roof Tanks Cluster 23**

**S-0399, S-3180, S-3189, S-3190, S-3191, S-3193, S-3196, S-3197, S-3198, S-3201, S-3202,  
 S-3213, S-3214, S-3225**

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 ASAP?	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)	UNSAFE CONDITIONS: Delay of EFR seal gap measurements allowed for unsafe conditions? If unable to make safe to measure, must the EFRT be emptied?	60.113b(b)(4)	Y
	EXTENSIONS OF TIME: If EFRT is unsafe to inspect & cannot be emptied within 45 days?	60.113b(b)(4)(iii)	Y
	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 CONDITIONS: 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**

**Table IV.F.1.10 Tanks  
 Source-specific Applicable Requirements**

**External Floating Roof Tanks Cluster 23**

**S-0399, S-3180, S-3189, S-3190, S-3191, S-3193, S-3196, S-3197, S-3198, S-3201, S-3202,  
 S-3213, S-3214, S-3225**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
	DETERMINATION OF EFR RIM-SEAL GAP AREAS: Use probes of various widths to determine the gap area?	60.113b(2)(iii) yes	Y
	DETERMINATION OF EFR RIM-SEAL GAP AREAS: Sum the gap areas & divide by the diameter of the tank?	60.113b(3) yes	Y
	EFRT REPAIRS: Time allowed for repair of defects found during in-service inspections of EFRs: If unable to repair, empty the EFRT & remove from service?	60.113b(4) make repairs within 45 days 60.113b(4) yes, within 45 days	Y
	EFR Primary Seal Gap Inspection Criteria: maximum area: maximum gap width:	60.113b(4)(i) 10 in <sup>2</sup> /ft.diameter 1.5 inches	Y
	Shall there be no holes, tears, or openings in the EFR seals?	60.113b(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(4)(i)(A) yes	Y
	EFR Secondary Seal Gap Inspection Criteria: maximum area: maximum gap width:	60.113b(4)(ii)(B) 1 in <sup>2</sup> /ft.diameter 0.5 in.	Y
	Are EFR rim seals allowed to be pulled back or temporarily removed during inspection?	60.113b(4)(ii)(B)	Y
	EXTENSIONS OF TIME: If EFRT defects cannot be repaired & the tank cannot be emptied within 45 days?	60.113b(4)(iii) 1 extension of 30 days, if needed	Y
	Periodic Reports: EFR report to include a prior request for 30-day extension, w/ documentation of need?	60.113b(4)(iii) required	Y
	Periodic Reports: Additional information to be included if an extension is utilized for an EFR:	60.113b(4)(iii) document the reason for the extension	Y

#### IV. Source-Specific Applicable Requirements

**Table IV.F.1.10 Tanks**  
**Source-specific Applicable Requirements**

**External Floating Roof Tanks Cluster 23**

**S-0399, S-3180, S-3189, S-3190, S-3191, S-3193, S-3196, S-3197, S-3198, S-3201, S-3202, S-3213, S-3214, S-3225**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	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 compliance 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	Record keeping for inspections: keep inspection reports as specified	60.115b keep records 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, internal diameter 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 records Y	



#### IV. Source-Specific Applicable Requirements

**Table IV.F.1.10 Tanks**  
**Source-specific Applicable Requirements**

**External Floating Roof Tanks Cluster 23**

**S-0399, S-3180, S-3189, S-3190, S-3191, S-3193, S-3196, S-3197, S-3198, S-3201, S-3202, S-3213, S-3214, S-3225**

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 records readily accessible for the life of the tank	Y	
60.116b(c)	Applicability records: Additional recordkeeping requirements for certain tanks.	60.116b(c) internal diameter & TVP of the stored product, if capacity $\geq$ 20,000 gallons and TVP $\geq$ 2.2, or capacity $\geq$ 40,000 gallons and TVP $\geq$ 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	
<b>NSPS Subpart A</b>	<b>New Source Performance Standards GENERAL PROVISIONS</b>			
60.7(a)	Initial Notification: Is initial notification of the source's existence required?	60.7(a)(1) notification within 30 days after beginning construction.	Y	
60.7(a) 60.115b	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	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	
Condition 2856	Applies to S-399		N	
Condition #6660	Applies to S-3189		Y	

**IV. Source-Specific Applicable Requirements**

**Table IV.F.1.10 Tanks  
 Source-specific Applicable Requirements**

**External Floating Roof Tanks Cluster 23**

**S-0399, S-3180, S-3189, S-3190, S-3191, S-3193, S-3196, S-3197, S-3198, S-3201, S-3202,  
 S-3213, S-3214, S-3225**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
Condition #6661	Applies to S-3190	Y	
Condition #7583	Applies to S-3191	Y	
Condition #8253	Applies to S-3193	Y	
Condition #13467	Applies to S-3196	Y	
Condition #8252	Applies to S-3197	Y	
Condition #8715	Applies to S-3198	Y	
Condition #13364	Applies to S-3202	Y	
Condition #13008	Applies to S-3201	Y	
Condition #12139	Applies to S-3213	Y	
Condition #12104	Applies to S-3214	Y	
Condition #18137	Throughput limits	N	
Condition #18702	Throughput limits	Y	

**Table IV.F.1.11 Tanks (IFRT's Cluster 24)**

**Table IV.F.1.11 Tanks  
 Source-specific Applicable Requirements**

**Internal Floating Roof Tanks Cluster 24**

**S-1635, S-1637**

#### IV. Source-Specific Applicable Requirements

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<b>BAAQMD Regulation 8, Rule 5</b>	<b>Storage of Organic Liquids (11/27/02)</b>		
8-5-111	Limited Exemption, Tank Removal From and Return to Service	Y	
8-5-111.1	Notice to the APCO	Y	
8-5-111.2	Compliance before notification	Y	
8-5-111.3	Continuous and quick filling, emptying and refilling	Y	
8-5-111.4	Use of vapor recovery	Y	
8-5-111.5	Minimization of emissions	Y	
8-5-111.6	Written notice of completion not required	Y	
8-5-111.7	Compliance with Section 8-5-328	Y	
8-5-112	Limited Exemption, Tanks in Operation	Y	
8-5-112.1	Notice to the APCO	Y	
8-5-112.2	Compliance and certification before commencement of work	Y	
8-5-112.3	No product movement; minimization of emissions	Y	
8-5-112.4	Exemption does not exceed 7 days	Y	
8-5-301	Storage Tank Control Requirements (internal floating roof, external floating roof, or approved emission control system)	Y	
8-5-305	Requirements for Internal Floating Roofs	Y	
8-5-320	Tank fitting requirements	Y	
8-5-320.2	Openings in the floating roof except p/v valves and vacuum breaker vents	Y	
8-5-320.3	Openings in the floating roof except floating roof legs	Y	
8-5-320.4	Solid sampling or gauging wells and similar fixed projections	Y	
8-5-320.5	Slotted sampling or gauging wells and similar fixed projections	Y	
8-5-320.6	Emergency roof drain	Y	
8-5-321	Primary seal requirements	Y	
8-5-321.1	No holes, tears, or other openings in the primary seal fabric	Y	
8-5-321.2	The seal shall be liquid mounted except as provided in 8-5-305.1	Y	
8-5-321.3	Metallic shoe type seals	Y	
8-5-321.3.1	Geometry of shoe	Y	
8-5-321.3.2	Gaps for welded tanks	Y	
8-5-322	Secondary seal requirements	Y	
8-5-322.1	No holes, tears, or other openings in the secondary seal	Y	
8-5-322.2	Insertion of probes	Y	
8-5-322.3	Gap length	Y	
8-5-322.5	Gap for welded tanks with seal installed after September 4, 1985	Y	
8-5-322.6	Secondary seal shall not be attached to primary seal	Y	
8-5-328	Tank cleaning requirements	Y	

**IV. Source-Specific Applicable Requirements**

**Table IV.F.1.11 Tanks  
 Source-specific Applicable Requirements**

**Internal Floating Roof Tanks Cluster 24**

**S-1635, S-1637**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
8-5-328.1.2	Concentration of <10,000 ppm as methane after cleaning	Y	
8-5-328.2	Tank degassing when ozone excess is predicted	Y	
8-5-402	Inspection Requirements for Internal Floating Roof Tanks	Y	
8-5-404	Certification	Y	
8-5-405	Information required	Y	
8-5-501	Records	Y	
8-5-502	Tank Cleaning Annual Source Test Requirement	Y	
8-5-503	Portable hydrocarbon detector	Y	
8-5-601	Analysis of Samples, Reid Vapor Pressure	Y	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-603	Determination of Emissions	Y	
8-5-603.1.2	Concentration of organic compounds after degassing	Y	
8-5-604	Determinations of Applicability	Y	
<b>Refinery MACT</b>	<b>NESHAP for Petroleum Refineries            REQUIREMENTS FOR TANKS ALSO SUBJECT TO NSPS Kb</b>		
63.640(n)	Which rule governs for storage vessels subject to both Refinery MACT and NSPS subpart Kb?	63.640(n)(1) NSPS subpart Kb	Y
	Does Refinery MACT provide for EFR secondary seals to be pulled back or temporarily removed during NSPS Kb inspections of the primary seal?	63.640(n)(8)(i) yes	Y
	Does Refinery MACT provide for delay of NSPS Kb seal gap measurements due to unsafe conditions?	63.640(n)(8)(ii) yes – up to 30 days, or empty the tank within 45 days	Y
	Does Refinery MACT provide for extensions of time to perform NSPS Kb inspections of unsafe tanks?	63.640(n)(8)(iii) yes – up to 2 extensions of 30 days each	Y
	Does Refinery MACT provide for extensions of time to repair defects found during NSPS Kb inspections?	63.640(n)(8)(iii) yes – up to 2 extensions of 30 days each	Y
	Does Refinery MACT provide for waiving the NSPS Kb prior-request requirement for extensions of time?	63.640(n)(8)(iii) yes	Y

**IV. Source-Specific Applicable Requirements**

**Table IV.F.1.11 Tanks  
 Source-specific Applicable Requirements**

**Internal Floating Roof Tanks Cluster 24**

**S-1635, S-1637**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
	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	
<b>NSPS Subpart Kb</b>	<b>Volatil Organic Liquid Storage Vessels                  REQUIREMENTS FOR INTERNAL FLOATING ROOF TANKS</b>		
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 ASAP? 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: OK w/rim-mounted secondary liquid-mounted primary seal: OK alone mechanical-shoe primary seal: OK alone 60.112b(a)(1)(ii)	Y	
	Must IFR vapor-mounted rim seals be continuous? 60.112b(a)(1)(ii)(B) required	Y	
	IFR deck openings other than for vents to project into liquid? 60.112b(a)(1)(iii) required	Y	
	Deck openings (wells) other than for vents, drains, or legs to have covers that are kept closed except for access? 60.112b(a)(1)(iv) required	Y	
	IFR access hatch & gauge float well covers to be bolted closed? 60.112b(a)(1)(iv) required	Y	
	IFR well covers to be gasketed? 60.112b(a)(1)(iv) & (ix) required	Y	
	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	

**IV. Source-Specific Applicable Requirements**

**Table IV.F.1.11 Tanks  
 Source-specific Applicable Requirements**

**Internal Floating Roof Tanks Cluster 24**

**S-1635, S-1637**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
	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 auto. 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, include 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	
	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/CFRT REPAIRS: Time allowed for repair of defects found during in-service inspections: 60.113b(a)(2) make repairs within 45 days	Y	
	IFRT/CFRT REPAIRS: If unable to repair, empty the tank & remove from service? 60.113b(a)(2) yes, within 45 days	Y	

**IV. Source-Specific Applicable Requirements**

**Table IV.F.1.11 Tanks  
 Source-specific Applicable Requirements**

**Internal Floating Roof Tanks Cluster 24**

**S-1635, S-1637**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
	EXTENSIONS OF TIME: If defects cannot be repaired & the IFRT/CFRT 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, w/ documentation of need?	60.113b(a)(2) required	Y
	Periodic Reports: Additional information to be included if an extension is utilized for an IFR/CFR:	60.113b(a)(2) document the reason for the extension	Y
	OPTION: Does this rule allow an internal inspection every 5 years to replace both inspections noted above, if the IFR/CFR is equipped with a sec. Seal?	60.113b(a)(3) & (4) yes	Y
	IFRT/CFRT 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 (i.e., prior to filling or refilling); but a 7-day verbal notice acceptable if the event is unplanned?	60.113b(a)(5) required	Y
60.115b	Record keeping for inspections: keep inspection reports as specified	60.115b keep records	Y
60.115b(a)	IFRT/CFRT 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, internal diameter 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 records	Y

#### IV. Source-Specific Applicable Requirements

**Table IV.F.1.11 Tanks**  
**Source-specific Applicable Requirements**

**Internal Floating Roof Tanks Cluster 24**

**S-1635, S-1637**

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(c)	Applicability records: Additional recordkeeping requirements for certain tanks.	60.116b(c) internal diameter & TVP of the stored product, if capacity $\geq 20,000$ gallons and TVP $\geq 2.2$ , or capacity $\geq 40,000$ gallons and TVP $\geq 0.51$ . 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	
<b>NSPS Subpart A</b>	<b>New Source Performance Standards</b> <b>GENERAL PROVISIONS</b>			
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	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	
Condition #15671	Applies to S-1635		Y	
Condition 1069	Applies to S-1637		N	
Condition #18137	Throughput limits		N	



#### IV. Source-Specific Applicable Requirements

Table IV.F.1.12 Tanks (FRT's Cluster 25)

**Table IV.F.1.12 Tanks  
 Source-specific Applicable Requirements**

**Fixed Roof Tanks Cluster 25**

S-6220, S-6221, S-6222, S-6223, S-6224, S-6225, S-6226, S-6227, S-6228, S-6229, S-6230, S-6231, S-6232, S-6233, S-6234, S-6235, S-6236, S-6237, S-6238, S-6239, S-3110, S-3111 (S-3110 & S-3111 in Table IV.G.1.5) (Abatement device requirements for S-6220 through S-6239 are provided in Table II-B)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<b>BAAQMD Regulation 8, Rule 5</b>	<b>Storage of Organic Liquids (11/27/02)</b>		
8-5-111	Limited Exemption, Tank Removal From and Return to Service	Y	
8-5-111.1	Notice to the APCO	Y	
8-5-111.2	Compliance before notification	Y	
8-5-111.3	Continuous and quick filling, emptying and refilling	Y	
8-5-111.4	Use of vapor recovery	Y	
8-5-111.5	Minimization of emissions	Y	
8-5-111.6	Written notice of completion not required	Y	
8-5-111.7	Compliance with Section 8-5-328	Y	
8-5-112	Limited Exemption, Tanks in Operation	Y	
8-5-112.1	Notice to the APCO	Y	
8-5-112.2	Compliance and certification before commencement of work	Y	
8-5-112.3	No product movement; minimization of emissions	Y	
8-5-112.4	Exemption does not exceed 7 days	Y	
8-5-301	Storage Tank Control Requirements (internal floating roof, external floating roof, or approved emission control system)	Y	
8-5-302	Requirements for Submerged Fill Pipes	Y	
8-5-303	Requirements for Pressure Vacuum Valves	Y	
8-5-328	Tank cleaning requirements	Y	
8-5-328.1.2	Concentration of <10,000 ppm as methane after cleaning	Y	
8-5-328.2	Tank degassing when ozone excess is predicted	Y	
8-5-404	Certification	Y	
8-5-501	Records	Y	
8-5-502	Tank Cleaning Annual Source Test Requirement	Y	
8-5-503	Portable hydrocarbon detector	Y	
8-5-601	Analysis of Samples, Reid Vapor Pressure	Y	

**IV. Source-Specific Applicable Requirements**

**Table IV.F.1.12 Tanks  
 Source-specific Applicable Requirements**

**Fixed Roof Tanks Cluster 25**

**S-6220, S-6221, S-6222, S-6223, S-6224, S-6225, S-6226, S-6227, S-6228, S-6229, S-6230, S-6231, S-6232, S-6233, S-6234, S-6235, S-6236, S-6237, S-6238, S-6239, S-3110, S-3111 (S-3110 & S-3111 in Table IV.G.1.5) (Abatement device requirements for S-6220 through S-6239 are provided in Table II-B)**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-603	Determination of Emissions	Y	
8-5-603.1.2	Concentration of organic compounds after degassing	Y	
8-5-604	Determinations of Applicability	Y	
<b>Refinery MACT</b>	<b>NESHAP for Petroleum Refineries            REQUIREMENTS FOR TANKS ALSO SUBJECT TO NSPS Kb</b>		
63.640(n)	Which rule governs for storage vessels subject to both Refinery MACT and NSPS subpart Kb? 63.640(n)(1) NSPS subpart Kb	Y	
<b>NSPS Subpart Kb</b>	<b>Volatile Organic Liquid Storage Vessels            REQUIREMENTS FOR FIXED ROOF TANK-CONTROL DEVICE</b>		
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, or a flare per 60.18	Y	
	Control device (flare) Compliance demonstration: 60.112b(a)(3)(ii) flare to be designed as specified in 60.18 (c)	Y	
60.113b©	Control device (other than flare) Compliance demonstration: 60.113b©(1) operating plan, efficiency demonstration & parameter(s) to be monitored	Y	
	Other (initial) Reports: For control device other-than flare? 60.113b©(1) submit operating plan for approval, with the initial notification	Y	
	Control device (other than flare) Operating requirements: 60.113b©(2) operate and monitor per the plan	Y	
60.113b(d)	Control device (flare) Operating requirements: 60.113b(d) operate per general control device requirements in 60.18 (e) & (f)	Y	
60.115b	Record keeping for inspections: keep inspection reports as specified 60.115b keep records	Y	
60.115b©	Record keeping for tanks routed to a control device other than a flare: 60.115b© operating plan & records of parametric monitoring data	Y	
60.115b(d)	Other (initial) Reports: For a flare? 60.115b(d)(1) submit results of compliance demonstration within 6 months of start-up	Y	

**IV. Source-Specific Applicable Requirements**

**Table IV.F.1.12 Tanks  
 Source-specific Applicable Requirements**

**Fixed Roof Tanks Cluster 25**

**S-6220, S-6221, S-6222, S-6223, S-6224, S-6225, S-6226, S-6227, S-6228, S-6229, S-6230, S-6231, S-6232, S-6233, S-6234, S-6235, S-6236, S-6237, S-6238, S-6239, S-3110, S-3111 (S-3110 & S-3111 in Table IV.G.1.5) (Abatement device requirements for S-6220 through S-6239 are provided in Table II-B)**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	Record keeping for tanks routed to a flare: 60.115b(d)(2) periods of operation in which the pilot flame is absent	Y	
	Periodic Reports: Tanks routed to a flare: 60.115b(d)(3) semiannual reports of all periods in which the pilot flame was absent	Y	
60.116b(a)	Applicability records: Time period for keeping records of applicability determination, unless specified otherwise. 60.116b(a) keep records	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) internal diameter & 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	
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	
<b>NSPS Subpart A</b>	<b>New Source Performance Standards GENERAL PROVISIONS</b>		
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	

**IV. Source-Specific Applicable Requirements**

**Table IV.F.1.12 Tanks  
 Source-specific Applicable Requirements**

**Fixed Roof Tanks Cluster 25**

**S-6220, S-6221, S-6222, S-6223, S-6224, S-6225, S-6226, S-6227, S-6228, S-6229, S-6230, S-6231, S-6232, S-6233, S-6234, S-6235, S-6236, S-6237, S-6238, S-6239, S-3110, S-3111 (S-3110 & S-3111 in Table IV.G.1.5) (Abatement device requirements for S-6220 through S-6239 are provided in Table II-B)**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	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	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
<b>Wastewater Requirements for S-6220 through S-6239 (from Wastewater Cluster 60b)</b>			
<b>BAAQMD Regulation 11 Rule 12</b>	<b>Hazardous Pollutants – National Emission Standards for Benzene Emissions from Benzene Transfer Operations and Benzene Waste Operations (7/18/90, refer to NESHAP Subpart FF below)</b>	N	
<b>Refinery MACT</b>	<b>NESHAP for Petroleum Refineries REQUIREMENTS FOR WASTEWATER STREAMS</b>	Y	
63.641	What is a Refinery MACT Group 1 wastewater stream?	63.641 if Total Annual Benzene $\geq$ 10 Mg/yr, then each wastewater stream with flow rate $\geq$ 0.02 liters/min and benzene concentration $\geq$ 10 ppmw and not exempt from controls under 61 Subpart FF	Y
63.647	What does Refinery MACT require for Group 1 wastewater streams?	63.647(a) comply with 61 Subpart FF (below)	Y
	Which definitions govern?	63.647(b) the definitions in Refinery MACT supercede those in 61 Subpart FF	Y
	Clarification with respect to violations	63.647© a monitoring excursion, a failure to perform a leak inspection, or a failure to repair a leak shall constitute a violation	Y

**IV. Source-Specific Applicable Requirements**

**Table IV.F.1.12 Tanks  
 Source-specific Applicable Requirements**

**Fixed Roof Tanks Cluster 25**

**S-6220, S-6221, S-6222, S-6223, S-6224, S-6225, S-6226, S-6227, S-6228, S-6229, S-6230, S-6231, S-6232, S-6233, S-6234, S-6235, S-6236, S-6237, S-6238, S-6239, S-3110, S-3111 (S-3110 & S-3111 in Table IV.G.1.5) (Abatement device requirements for S-6220 through S-6239 are provided in Table II-B)**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
63.654	Which recordkeeping and reporting requirements govern? 63.654(a) recordkeeping and reporting shall be per 61 Subpart FF	Y	
<b>NESHAP Subpart FF</b>	<b>Benzene Waste Operations REQUIREMENTS FOR CONTAINERS</b>	<b>Y</b>	
61.345	When is this type of WMU subject to these requirements? 61.345(a) when invoked by 61.342(c)(1)(ii) for facilities with total annual Benzene $\geq$ 10 Mg/yr	Y	
	Install, operate, and maintain a cover over the WMU. 61.345(a)(1) required for the container 61.345(a)(3) Container is to be located within an enclosure	Y	
	Route vapors through a closed vent system to a control device? 61.345(a)(1) Not required for container 61.345(a)(3) required for the enclosure	Y	
	The cover and all openings to operate with no detectable emissions (< 500 ppmv)? 61.345(a)(1)(i) required for the container 61.345(a)(3)(i) required for the enclosure	Y	
	Demonstrate no detectable emissions using Method 21? 61.345(a)(1)(i) required for the container 61.345(a)(3)(i) required for the enclosure	Y	
	Inspection per Method 21 required initially, and annually thereafter? 61.345(a)(1)(i) required for the container 61.345(a)(3)(i) required for the enclosure	Y	
	Each opening to be kept closed, gasketed, & latched at all times that waste is present within, except when the opening is in use? 61.345(a)(1)(ii) required for the container 61.345(a)(3) Not required for the enclosure	Y	
	Are there requirements that are unique to this type of WMU? 61.345(a)(2) Load using a submerged fill pipe	Y	
	Are there conditions for which vapors are not required to be routed to a control device? 61.345(a)(3) Not required at any time other than when the container is open while waste is being treated	Y	

**IV. Source-Specific Applicable Requirements**

**Table IV.F.1.12 Tanks  
 Source-specific Applicable Requirements**

**Fixed Roof Tanks Cluster 25**

**S-6220, S-6221, S-6222, S-6223, S-6224, S-6225, S-6226, S-6227, S-6228, S-6229, S-6230, S-6231, S-6232, S-6233, S-6234, S-6235, S-6236, S-6237, S-6238, S-6239, S-3110, S-3111 (S-3110 & S-3111 in Table IV.G.1.5) (Abatement device requirements for S-6220 through S-6239 are provided in Table II-B)**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	What is required for WMUs not routed to a control device? 61.345(a)(3) routing to a control device is not required for containers that are kept closed while waste is being treated	Y	
	Visual inspection initially, and quarterly thereafter, to ensure that the cover and all openings are closed & gasketed properly? 61.345(b) required for the container 61.345(b) required for the enclosure	Y	
	First attempt at repair of broken seal or gasket or other problem (including detectable emissions) to be made within 15 days? 61.345© required for the container 61.345© required for the enclosure	Y	
	Delay of repair allowed? 61.345© yes, for the container, per 61.350 61.345© yes, for the enclosure, per 61.350	Y	
61.349	Closed vent system requirements? 61.349 no detectable emissions (500 ppmv), gas-tight gauging & sampling devices, etc.	Y	
	Control device requirements? 61.349 95% efficiency or equivalent with specified monitoring, recordkeeping & reporting	Y	
	Must the closed vent system operate with no detectable emissions (< 500 ppmw)? 61.349(a)(1)(i) required	Y	
	How is leak-tightness of the closed vent system inspected? 61.349(a)(1)(i) initially & annually, per Method 21	Y	
	Must all gauging & sampling devices be gas-tight, and closed except when in use? 61.349(a)(1)(iii) required	Y	
	Must pressure-relief devices be closed and sealed during normal operations? 61.349(a)(1)(iv) required	Y	

**IV. Source-Specific Applicable Requirements**

**Table IV.F.1.12 Tanks  
 Source-specific Applicable Requirements**

**Fixed Roof Tanks Cluster 25**

**S-6220, S-6221, S-6222, S-6223, S-6224, S-6225, S-6226, S-6227, S-6228, S-6229, S-6230, S-6231, S-6232, S-6233, S-6234, S-6235, S-6236, S-6237, S-6238, S-6239, S-3110, S-3111 (S-3110 & S-3111 in Table IV.G.1.5) (Abatement device requirements for S-6220 through S-6239 are provided in Table II-B)**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	What is required if the control device is an enclosed combustion unit?	61.349(a)(2)(i) reduce Total Organic Compounds $\geq$ 95% or Total Organic Compound conc. $\leq$ 20 ppmv or minimum residence time & temperature of 0.5 sec at 760°C	Y
	What is required if the control device is a vapor recovery unit?	61.349(a)(2)(ii) reduce Total Organic Compounds $\geq$ 95% or benzene $\geq$ 98%	Y
	Must the closed vent system & control device operate at all times when waste is in the WMU?	61.349(b) required, except when maintenance/repair of the WMU requires shutdown of the control device	Y
	What is required to demonstrate compliance of a control device that is not a flare?	61.349© either engineering calculations or performance tests	Y
	Can performance tests be required for control devices?	61.349(e) perform performance tests of the control device upon the request of the Administrator	Y
	What visual inspections are required for the closed vent system and control device?	61.349(f) inspect initially & annually for visible defects	Y
	If defects are found during an inspection, how quickly must they be repaired?	61.349(g) first attempt within 5 days, final repair within 15 days; unless delay allowed per 61.350	Y
	Must control devices be monitored?	61.349(h) required, per 61.354©	Y
61.350	When is a delay of repair allowed, and when must the delayed repair be complete?	61.350 delay of repair is allowed if repair is technically impossible without a shutdown; repair to be complete by the end of the next shutdown	Y
61.353	What are the responsibilities associated with approval of alternative technologies?	61.353 the person requesting the alternative must show equivalency; and the Administrator must publish any approval in the Federal Register	Y

**IV. Source-Specific Applicable Requirements**

**Table IV.F.1.12 Tanks  
 Source-specific Applicable Requirements**

**Fixed Roof Tanks Cluster 25**

**S-6220, S-6221, S-6222, S-6223, S-6224, S-6225, S-6226, S-6227, S-6228, S-6229, S-6230, S-6231, S-6232, S-6233, S-6234, S-6235, S-6236, S-6237, S-6238, S-6239, S-3110, S-3111 (S-3110 & S-3111 in Table IV.G.1.5) (Abatement device requirements for S-6220 through S-6239 are provided in Table II-B)**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
61.354	Is monitoring required for control devices?	61.354© daily inspect the continuous monitoring devices specified herein, except as specified in 61.354(d) & (e)	Y
	Are there control devices that do not require continuous data recorders?	61.354(d) carbon adsorption that is not regenerated on site may be monitored without a continuous recorder; or not monitored if replaced on a sufficiently frequent interval	Y
	May alternative parameters be monitored in lieu of those specified?	61.354(e) allowed if adequacy of the alternative is demonstrated	Y
	Are inspections required for by-pass lines in closed vent systems?	61.354(f) inspect daily if using a flow indicator or inspect monthly if using car-seal/lock-&-key	Y
	Is additional monitoring required for systems maintained at negative pressure?	61.354(g) continuously monitor the system pressure	Y
61.355	Procedure for detecting emissions	61.355(h) per Method 21	Y
	Procedure for performance testing of control devices	61.355(i) for 61.349(a)(2) to demonstrate compliance with reduction efficiency	Y
61.356	How long are records to be kept?	61.356(a) keep all records	Y
	Are records required for the design of the control equipment (e.g., control devices, floating roofs, etc.)?	61.356(d) for 61.343 – 61.347 required, keep for the life of the equipment	Y
	Are records required documenting the performance of control devices?	61.356(f) for 61.349 required keep for the life of the control device	Y
	Are records required for visual inspections and repairs?	61.356(g) for 61.343 – 61.347 required only when defects are found	Y
	Are records required for Method 21 leak inspections and repairs?	61.356(h) for 61.343 – .347, 61.349 required for each inspection	Y



**IV. Source-Specific Applicable Requirements**

**Table IV.F.1.12 Tanks  
 Source-specific Applicable Requirements**

**Fixed Roof Tanks Cluster 25**

S-6220, S-6221, S-6222, S-6223, S-6224, S-6225, S-6226, S-6227, S-6228, S-6229, S-6230, S-6231, S-6232, S-6233, S-6234, S-6235, S-6236, S-6237, S-6238, S-6239, S-3110, S-3111 (S-3110 & S-3111 in Table IV.G.1.5) (Abatement device requirements for S-6220 through S-6239 are provided in Table II-B)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	Are records of startup/shutdown and monitoring data required for control devices? 61.356(j) for 61.349 required	Y	
	Are records of monitoring data required for systems maintained under negative pressure? 61.356(m) for 61.343 – 61.347 required	Y	
Condition #10761	Applies to S-6220 through S-6239	Y	
Condition #18137	Throughput limits	N	

**Table IV.F.1.13 Tanks (EFRT's Cluster 26)**

**Table IV.F.1.13 Tanks  
 Source-specific Applicable Requirements**

**External Floating Roof Tanks Cluster 26**

S-0231, S-0634, S-0679, S-0953, S-0954, S-0990, S-0991, S-0992, S-1287, S-1296, S-1444, S-1459, S-1488, S-1489, S-1491, S-1504, S-1514, S-1686, S-1687, S-1688, S-3071, S-3072, S-3073, S-3075, S-3076, S-3103, S-3104, S-3105, S-3106, S-3107, S-3126, S-3128, S-3133, S-3134, S-3144

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<b>BAAQMD Regulation 8, Rule 5</b>	<b>Storage of Organic Liquids (11/27/02)</b>		
8-5-111	Limited Exemption, Tank Removal From and Return to Service	Y	
8-5-111.1	Notice to the APCO	Y	
8-5-111.2	Compliance before notification	Y	
8-5-111.3	Continuous and quick filling, emptying and refilling	Y	
8-5-111.4	Use of vapor recovery	Y	
8-5-111.5	Minimization of emissions	Y	
8-5-111.6	Written notice of completion not required	Y	

#### IV. Source-Specific Applicable Requirements

**Table IV.F.1.13 Tanks**  
**Source-specific Applicable Requirements**

**External Floating Roof Tanks Cluster 26**

**S-0231, S-0634, S-0679, S-0953, S-0954, S-0990, S-0991, S-0992, S-1287, S-1296, S-1444, S-1459, S-1488, S-1489, S-1491, S-1504, S-1514, S-1686, S-1687, S-1688, S-3071, S-3072, S-3073, S-3075, S-3076, S-3103, S-3104, S-3105, S-3106, S-3107, S-3126, S-3128, S-3133, S-3134, S-3144**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-5-111.7	Compliance with Section 8-5-328	Y	
8-5-112	Limited Exemption, Tanks in Operation	Y	
8-5-112.1	Notice to the APCO	Y	
8-5-112.2	Compliance and certification before commencement of work	Y	
8-5-112.3	No product movement; minimization of emissions	Y	
8-5-112.4	Exemption does not exceed 7 days	Y	
8-5-301	Storage Tank Control Requirements (internal floating roof, external floating roof, or approved emission control system)	Y	
8-5-304	Requirements for External Floating Roofs	Y	
8-5-320	Tank fitting requirements	Y	
8-5-320.2	Openings in the floating roof except p/v valves and vacuum breaker vents	Y	
8-5-320.3	Openings in the floating roof except floating roof legs	Y	
8-5-320.4	Solid sampling or gauging wells and similar fixed projections	Y	
8-5-320.5	Slotted sampling or gauging wells and similar fixed projections	Y	
8-5-320.6	Emergency roof drain	Y	
8-5-321	Primary seal requirements	Y	
8-5-321.1	No holes, tears, or other openings in the primary seal fabric	Y	
8-5-321.2	The seal shall be liquid mounted except as provided in 8-5-305.1	Y	
8-5-321.3	Metallic shoe type seals	Y	
8-5-321.3.1	Geometry of shoe	Y	
8-5-321.3.2	Gaps for welded tanks	Y	
8-5-322	Secondary seal requirements	Y	
8-5-322.1	No holes, tears, or other openings in the secondary seal	Y	
8-5-322.2	Insertion of probes	Y	
8-5-322.3	Gap length	Y	
8-5-322.5	Gap for welded tanks with seal installed after September 4, 1985	Y	
8-5-322.6	Secondary seal shall not be attached to primary seal	Y	
8-5-328	Tank cleaning requirements	Y	
8-5-328.1.2	Concentration of <10,000 ppm as methane after cleaning	Y	
8-5-328.2	Tank degassing when ozone excess is predicted	Y	
8-5-401	Inspection Requirements for External Floating Roof Tanks	Y	

**IV. Source-Specific Applicable Requirements**

**Table IV.F.1.13 Tanks  
 Source-specific Applicable Requirements**

**External Floating Roof Tanks Cluster 26**

**S-0231, S-0634, S-0679, S-0953, S-0954, S-0990, S-0991, S-0992, S-1287, S-1296, S-1444, S-1459, S-1488, S-1489, S-1491, S-1504, S-1514, S-1686, S-1687, S-1688, S-3071, S-3072, S-3073, S-3075, S-3076, S-3103, S-3104, S-3105, S-3106, S-3107, S-3126, S-3128, S-3133, S-3134, S-3144**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-5-404	Certification	Y	
8-5-405	Information required	Y	
8-5-501	Records	Y	
8-5-502	Tank Cleaning Annual Source Test Requirement	Y	
8-5-503	Portable hydrocarbon detector	Y	
8-5-601	Analysis of Samples, Reid Vapor Pressure	Y	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-603	Determination of Emissions	Y	
8-5-603.1.2	Concentration of organic compounds after degassing	Y	
8-5-604	Determinations of Applicability	Y	
<b>Refinery MACT</b>	<b>NESHAP for Petroleum Refineries        REQUIREMENTS FOR EXTERNAL FLOATING ROOF TANKS</b>		
63.642(e) 63.654(i)	General recordkeeping requirements: Time period for keeping records, unless specified otherwise.	63.642(e) & 63.654(i)(4) keep all other records, retrievable within 24 hr	Y
	General recordkeeping requirements: keep all reports and notification for the specified period of time.	63.642(e) & 63.654(i)(4) required	Y
63.646(a) 63.119(c)	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 w/rim-mounted secondary OK w/rim-mounted secondary	Y
	Must vapor-mounted rim seals be continuous on EFRs?	63.646(a) 63.119(c)(1)(iii) yes	Y
63.646(a) 63.119(c) 63.120(b)	Are EFR rim seals allowed to be pulled back or temporarily removed during inspection?	63.646(a) 63.119(c)(1)(iii) 63.120(b)(4) yes	Y
	EFRT operating requirements: When landing the floating roof on its support legs, is the tank to be emptied & either refilled or degassed ASAP?	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

**IV. Source-Specific Applicable Requirements**

**Table IV.F.1.13 Tanks  
 Source-specific Applicable Requirements**

**External Floating Roof Tanks Cluster 26**

**S-0231, S-0634, S-0679, S-0953, S-0954, S-0990, S-0991, S-0992, S-1287, S-1296, S-1444, S-1459, S-1488, S-1489, S-1491, S-1504, S-1514, S-1686, S-1687, S-1688, S-3071, S-3072, S-3073, S-3075, S-3076, S-3103, S-3104, S-3105, S-3106, S-3107, S-3126, S-3128, S-3133, S-3134, S-3144**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
	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
	Seal Gap Measurements: For affected EFRTs with a mechanical-shoe or liquid-mounted primary-only rim seal, prior to installing a sec. 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 yr or more of exempt service:	63.646(a) 63.120(b)(1)(iv) measure gaps of both seals within 90 days	Y
	MEASUREMENT CONDITIONS: Are EFR seal gap measurements to be made with the roof floating?	63.646(a) 63.120(b)(2)(i) yes	Y

**IV. Source-Specific Applicable Requirements**

**Table IV.F.1.13 Tanks  
 Source-specific Applicable Requirements**

**External Floating Roof Tanks Cluster 26**

**S-0231, S-0634, S-0679, S-0953, S-0954, S-0990, S-0991, S-0992, S-1287, S-1296, S-1444, S-1459, S-1488, S-1489, S-1491, S-1504, S-1514, S-1686, S-1687, S-1688, S-3071, S-3072, S-3073, S-3075, S-3076, S-3103, S-3104, S-3105, S-3106, S-3107, S-3126, S-3128, S-3133, S-3134, S-3144**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
	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 in <sup>2</sup> /ft.diameter 1.5 inches	Y	
	EFR Secondary Seal Gap Inspection Criteria: Maximum area: Maximum gap width: 63.646(a) 63.120(b)(4) 1 in <sup>2</sup> /ft. diameter 0.5 inches	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	

**IV. Source-Specific Applicable Requirements**

**Table IV.F.1.13 Tanks  
 Source-specific Applicable Requirements**

**External Floating Roof Tanks Cluster 26**

**S-0231, S-0634, S-0679, S-0953, S-0954, S-0990, S-0991, S-0992, S-1287, S-1296, S-1444, S-1459, S-1488, S-1489, S-1491, S-1504, S-1514, S-1686, S-1687, S-1688, S-3071, S-3072, S-3073, S-3075, S-3076, S-3103, S-3104, S-3105, S-3106, S-3107, S-3126, S-3128, S-3133, S-3134, S-3144**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
	Notification of Inspections: Are notifications of Inspections to demonstrate initial compliance required, For EFR internal inspections:	63.646(a) 63.120(b)(10) internal inspections not required for initial compliance	Y
	EFRT REPAIRS: Repair of defects if the tank is empty?	63.646(a) 63.120(b)(10)(i) prior to refilling	Y
63.646©	EFR well covers to be gasketed?	63.646© not required at existing sources	Y
	EFR vents to be gasketed?	63.646© not required at existing sources	Y
	EFR deck openings other than for vents to project into liquid?	63.646© not required at existing sources	Y
	EFR access hatch & gauge float well covers to be bolted closed?	63.646© not required at existing sources	Y
	EFR emergency roof drains to have seals covering at least 90% of the opening?	63.646© not required at existing sources	Y
	EFR guidepole wells to have a deck cover gasket and a pole wiper?	63.646© not required at existing sources	Y
	EFRT unslotted guidepoles to have a gasketed cap at the top of the pole?	63.646© not required at existing sources	Y
	EFRT slotted guidepoles to have either an internal float or a pole sleeve?	63.646© not required at existing sources	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 auto. Bleeder vent (vacuum breaker) to be closed except when the deck is landed?	63.646(f)(3) required	Y
63.646(h) 63.9 (b)	Initial Notification: Is initial notification of the source's existence required?	63.646(h) Table 6 Ref. 63.9 (b)(2) Not required	Y
63.646(i) 63.652(b)	Implementation Plan:	63.646(i) & 63.652(b) Not required	Y

**IV. Source-Specific Applicable Requirements**

**Table IV.F.1.13 Tanks  
 Source-specific Applicable Requirements**

**External Floating Roof Tanks Cluster 26**

**S-0231, S-0634, S-0679, S-0953, S-0954, S-0990, S-0991, S-0992, S-1287, S-1296, S-1444, S-1459, S-1488, S-1489, S-1491, S-1504, S-1514, S-1686, S-1687, S-1688, S-3071, S-3072, S-3073, S-3075, S-3076, S-3103, S-3104, S-3105, S-3106, S-3107, S-3126, S-3128, S-3133, S-3134, S-3144**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
63.646(l) 63.654(h)	Notification of Inspections: Is the State or local authority allowed to waive the notification requirements?	63.646(l) 63.654(h)(2)(i)©&(ii) yes	Y
63.654(f)	Report (document) having initially achieved compliance?	63.654(f) later of next Periodic Report after achieving compliance or 1/15/99	Y
	Notification of Compliance Status report:	63.654(f) later of next Periodic Report after compliance or January 15, 1999	Y
	Report determination of applicability for other individual tanks (i.e., for MACT rules, whether Group1 or Group2)?	63.654(f)(1)(i)(A) with initial Notification of Compliance Status; Jan. 15, 1999	Y
	EFRT report to include:	63.654(f)(1)(i)(A) Group determinations, actual or anticipated date of compliance; if already in compliance, description of controls	Y
63.654(g)	Report of periodic inspections, etc. AFTER documenting initial compliance?	63.654(g) begin Sept 13, 1999 then semiannual	Y
	Periodic Reports: Report of EFR inspection failures to include:	63.654(g)(2) – (4) date of inspection, internal diameter of tank, description of failure, & date of repair or emptying	Y
	Periodic Reports: EFR report to include a prior request for 30-day extension, w/ documentation of need?	63.654(-)(2) – (4) prior request is not required	Y
	Periodic Reports: Additional information to be included if an extension is utilized for an EFR:	63.654(g)(2)(i) 63.654(g)(3)(ii) document the reason for the extension	Y
	Periodic Reports: Report EFR seal gap Inspections if there was No out-of-compliance?	63.654(g)(3)(i) Not required	Y
	Periodic Reports: Report EFR seal gap Inspections when there is out-of-compliance?	63.654(g)(3)(i) required within 60 days after each semiannual period	Y
63.654(h) 63.646(a) 63.120(b)	Notification of Inspections: Is 30-day notice required for internal inspections of EFRTs (i.e., prior to filling or refilling); but a 7-day verbal notice acceptable if the event is unplanned?	63.654(h)(2)(i) 63.646(a) 63.120(b)(10) required	Y

**IV. Source-Specific Applicable Requirements**

**Table IV.F.1.13 Tanks  
 Source-specific Applicable Requirements**

**External Floating Roof Tanks Cluster 26**

**S-0231, S-0634, S-0679, S-0953, S-0954, S-0990, S-0991, S-0992, S-1287, S-1296, S-1444, S-1459, S-1488, S-1489, S-1491, S-1504, S-1514, S-1686, S-1687, S-1688, S-3071, S-3072, S-3073, S-3075, S-3076, S-3103, S-3104, S-3105, S-3106, S-3107, S-3126, S-3128, S-3133, S-3134, S-3144**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
	Notification of Inspections: Is 30-day notice required prior to EFR seal gap measurements?	63.654(h)(2)(ii) 63.646(a) 63.120(b)(9) required	Y
	Report applicability for varying-use tanks?	63.654(h)(6)(ii) with the initial NOC Status report	Y
	Other (initial) Reports: Report applicability for varying-use tanks?	63.654(h)(6)(ii) required with the initial Notification of Compliance Status report	Y
63.654(i) 63.123(a)	Applicability records: Time period for keeping records of applicability determination, unless specified otherwise.	63.654(i)(1) 63.123(a) keep record readily accessible for the service life of the tank	Y
63.654(i) 63.646(a) 63.119(a) 63.123(a)	Applicability records: Records of dimensions & capacity required for nonexempt tanks?	63.654(i)(1) 63.646(a)&63.119(a)(3) 63.123(a) required keep record readily accessible for service life of the tank	Y
63.654(i) 63.123© 63.654(d) 63.123(e)	Record keeping for inspections: Keep inspection reports as specified	63.654(i)(1) 63.123© - (e) all inspections	Y
	Records of EFR inspection reports:	63.654(i)(1) 63.123(d) all inspections	Y
63.654(i) 63.123 (g)	Record keeping for delayed repairs: When utilizing a delay of repair provision, keep documentation of the reason for the delay.	63.654(i)(1) 63.123 (g) required	Y
	Applicability records: Additional recordkeeping requirements for certain tanks.	63.654(i)(1)(iv) determination of HAP content keep record readily accessible for service life of the tank	Y
Condition #8503	Applies to S-0679	Y	
Condition #10908	Applies to S-1489	Y	
Condition #10909	Applies to S-0992	Y	
Condition #11025	Applies to S-3106	Y	



**IV. Source-Specific Applicable Requirements**

**Table IV.F.1.13 Tanks**  
**Source-specific Applicable Requirements**

**External Floating Roof Tanks Cluster 26**

**S-0231, S-0634, S-0679, S-0953, S-0954, S-0990, S-0991, S-0992, S-1287, S-1296, S-1444, S-1459, S-1488, S-1489, S-1491, S-1504, S-1514, S-1686, S-1687, S-1688, S-3071, S-3072, S-3073, S-3075, S-3076, S-3103, S-3104, S-3105, S-3106, S-3107, S-3126, S-3128, S-3133, S-3134, S-3144**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
Condition #17470	Applies to S-3126	Y	
Condition #15038	Applies to S-3133	Y	
Condition #13859	Applies to S-3134	Y	
Condition #18137	Throughput limits	N	
Condition #21237	Notification requirement for S-1514, 3072, and S-3101 regarding pumping and piping capacities.	N	
Condition #22641	Applies to S-1296, S-1514	N	

#### IV. Source-Specific Applicable Requirements

**Table IV.F.1.14 Tanks (IFRT's Cluster 27)**

**Table IV.F.1.14 Tanks  
 Source-specific Applicable Requirements**

**Internal Floating Roof Tanks Cluster 27**

**S-1289, S-1645**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<b>BAAQMD Regulation 8, Rule 5</b>	<b>Storage of Organic Liquids (11/27/02)</b>		
8-5-111	Limited Exemption, Tank Removal From and Return to Service	Y	
8-5-111.1	Notice to the APCO	Y	
8-5-111.2	Compliance before notification	Y	
8-5-111.3	Continuous and quick filling, emptying and refilling	Y	
8-5-111.4	Use of vapor recovery	Y	
8-5-111.5	Minimization of emissions	Y	
8-5-111.6	Written notice of completion not required	Y	
8-5-111.7	Compliance with Section 8-5-328	Y	
8-5-112	Limited Exemption, Tanks in Operation	Y	
8-5-112.1	Notice to the APCO	Y	
8-5-112.2	Compliance and certification before commencement of work	Y	
8-5-112.3	No product movement; minimization of emissions	Y	
8-5-112.4	Exemption does not exceed 7 days	Y	
8-5-301	Storage Tank Control Requirements (internal floating roof, external floating roof, or approved emission control system)	Y	
8-5-305	Requirements for Internal Floating Roofs	Y	
8-5-320	Tank fitting requirements	Y	
8-5-320.2	Openings in the floating roof except p/v valves and vacuum breaker vents	Y	
8-5-320.3	Openings in the floating roof except floating roof legs	Y	
8-5-320.4	Solid sampling or gauging wells and similar fixed projections	Y	
8-5-320.5	Slotted sampling or gauging wells and similar fixed projections	Y	
8-5-320.6	Emergency roof drain	Y	
8-5-321	Primary seal requirements	Y	
8-5-321.1	No holes, tears, or other openings in the primary seal fabric	Y	
8-5-321.2	The seal shall be liquid mounted except as provided in 8-5-305.1	Y	
8-5-321.3	Metallic shoe type seals	Y	

#### IV. Source-Specific Applicable Requirements

**Table IV.F.1.14 Tanks**  
**Source-specific Applicable Requirements**

**Internal Floating Roof Tanks Cluster 27**

**S-1289, S-1645**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-5-321.3.1	Geometry of shoe	Y	
8-5-321.3.2	Gaps for welded tanks	Y	
8-5-322	Secondary seal requirements	Y	
8-5-322.1	No holes, tears, or other openings in the secondary seal	Y	
8-5-322.2	Insertion of probes	Y	
8-5-322.3	Gap length	Y	
8-5-322.5	Gap for welded tanks with seal installed after September 4, 1985	Y	
8-5-322.6	Secondary seal shall not be attached to primary seal	Y	
8-5-328	Tank cleaning requirements	Y	
8-5-328.1.2	Concentration of <10,000 ppm as methane after cleaning	Y	
8-5-328.2	Tank degassing when ozone excess is predicted	Y	
8-5-402	Inspection Requirements for Internal Floating Roof Tanks	Y	
8-5-404	Certification	Y	
8-5-405	Information required	Y	
8-5-501	Records	Y	
8-5-502	Tank Cleaning Annual Source Test Requirement	Y	
8-5-503	Portable hydrocarbon detector	Y	
8-5-601	Analysis of Samples, Reid Vapor Pressure	Y	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-603	Determination of Emissions	Y	
8-5-603.1.2	Concentration of organic compounds after degassing	Y	
8-5-604	Determinations of Applicability	Y	
<b>Refinery MACT</b>	<b>NESHAP for Petroleum Refineries REQUIREMENTS FOR INTERNAL FLOATING ROOF TANKS</b>		
63.642(e) 63.654(i)	General recordkeeping requirements: Time period for keeping records, unless specified otherwise.	63.642(e) & 63.654(i)(4) keep all other records, retrievable within 24 hr	Y
	General recordkeeping requirements: keep all reports and notification for the specified period of time.	63.642(e) & 63.654(1)(4) required	Y
63.646(a) 63.119(b)	IFRT operating requirements: When landing the floating roof on its support legs, is the tank to be emptied & either refilled or degassed ASAP?	63.646(a) 63.119(b)(1) & (b)(2) yes	Y

**IV. Source-Specific Applicable Requirements**

**Table IV.F.1.14 Tanks  
 Source-specific Applicable Requirements**

**Internal Floating Roof Tanks Cluster 27**

**S-1289, S-1645**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	Temporary exemption from operating requirements while the internal floating roof is landed on its support legs? 63.646(a) 63.119(b)(1) exempt	Y	
	IFR Rim Seals: vapor-mounted primary seal: liquid-mounted primary seal: mechanical-shoe primary seal: 63.646(a) 63.119(b)(3)(i) – (3)(iii) OK w/rim-mounted secondary OK alone OK alone	Y	
	Must IFR vapor-mounted rim seals be continuous? 63.646(a) 63.119(b)(3)(iii) required	Y	
63.646(a) 63.120(a)	Tank Top Visual Inspections (of IFR/CFR from manways and hatches of the fixed roof): 63.646(a) & 63.120(a) annually after initial fill or compliance	Y	
	IFR/CFR Internal Inspections: (up close visual inspection of the floating roof, seals, & fittings): 63.646(a) & 63.120(a) at least 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: 63.646(a) 63.120(a)(2)(ii) & (3) internal inspection not required for initial compliance	Y	
	OPTION: Does this rule allow an internal inspection every 5 years to replace both inspections noted above, if the IFR/CFR is equipped with a sec. Seal? 63.646(a) 63.120(a)(3)(i) yes	Y	
	Is there to be no liquid on the internal floating roof? 63.646(a) 63.120(a)(4) required	Y	
	Are there to be no IFR rim seal gaps that are visible from the tank top? 63.646(a) 63.120(a)(4) required	Y	
	Shall there be no holes, tears, or openings in the IFR seals? 63.646(a) 63.120(a)(4) & (7) required	Y	
	IFRT/CFRT REPAIRS: Time allowed for repair of defects found during in-service inspections: 63.646(a) 63.120(a)(4) make repairs within 45 days	Y	
	IFRT/CFRT REPAIRS: If unable to repair, empty the tank & remove from service? 63.646(a) 63.120(a)(4) yes, within 45 days	Y	

**IV. Source-Specific Applicable Requirements**

**Table IV.F.1.14 Tanks  
 Source-specific Applicable Requirements**

**Internal Floating Roof Tanks Cluster 27**

**S-1289, S-1645**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
	EXTENSIONS OF TIME: If defects cannot be repaired & the IFRT/CFRT cannot be emptied within 45 days?	63.646(a) 63.120(a)(4) up to 2 extensions of 30 days each, if needed	Y
	IFRT/CFRT REPAIRS: Repair of defects if the tank is empty?	63.646(a) 63.120(a)(7) prior to refilling	Y
63.646©	IFR well covers to be gasketed?	63.646© not required at existing sources	Y
	IFR vents to be gasketed?	63.646© not required at existing sources	Y
	IFR deck openings other than for vents to project into liquid?	63.646© not required at existing sources	Y
	IFR access hatch & gauge float well covers to be bolted closed?	63.646© not required at existing sources	Y
	IFR guidepole & column wells allowed a flexible-fabric sleeve seal or a gasketed cover?	63.646© not applicable at existing sources	Y
	IFRT unslotted guidepoles to have a gasketed cap at the top of the pole?	63.646© not required at existing sources	Y
	IFRT slotted guidepoles to have a deck cover gasket and pole wiper, and either an internal float or a pole sleeve?	63.646© not required at existing sources	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
	IFR rim space vents to remain closed except when the pressure setting is exceeded?	63.646(f)(2) required	Y
	IFR Auto. Bleeder vent (vacuum breaker) to be closed except when the deck is landed?	63.646(f)(3) required	Y
63.646(h) 63.9 (b)	Initial Notification: Is initial notification of the source's existence required?	63.646(h) Table 6 Ref. 63.9 (b)(2) not required	Y
63.646(i) 63.652(b)	Implementation Plan:	63.646(i) & 63.652(b) not required	Y
63.646(l) 63.654(h)	Notification of Inspections: Is the State or local authority allowed to waive the notification requirements?	63.646(l) 63.654(h)(2)(i)©&(ii) yes	Y

#### IV. Source-Specific Applicable Requirements

**Table IV.F.1.14 Tanks**  
**Source-specific Applicable Requirements**

**Internal Floating Roof Tanks Cluster 27**

**S-1289, S-1645**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.654(f)	Report (document) having initially achieved compliance?	63.654(f) later of next Periodic Report after achieving compliance or 1/15/99	Y
	Notification of Compliance Status report:	63.654(f) later of next Periodic Report after compliance or January 15, 1999	Y
	Report determination of applicability for other individual tanks (i.e., for MACT rules, whether Group1 or Group2)?	63.654(f)(1)(i)(A) with initial Notification of Compliance Status; Jan. 15, 1999	Y
	IFRT/CFRT report to include:	63.654(f)(1)(i)(A) Group determinations, actual or anticipated date of compliance; if already in compliance, description of controls	Y
63.654(g)	Report of periodic inspections, etc. AFTER documenting initial compliance?	63.654(g) begin Sept 13, 1999, then semiannual	Y
	Periodic Reports: Report of IFR/CFR inspections that find out-of-compliance?	63.654(g)(2) – (4) required within 60 days after each semiannual period	Y
	Periodic Reports: Report of IFR/CFR inspection failures to include:	63.654(g)(2) – (4) date of inspection, internal diameter of tank, description of failure, & date of repair or emptying	Y
	Periodic Reports: IFR/CFR report to include prior request for 30-day extension, w/ documentation of need?	63.654(g)(2) – (4) prior request is not required	Y
	Periodic Reports: Additional information to be included if an extension is utilized for an IFR/CFR:	63.654(g)(2)(i) 63.654(g)(3)(ii) document the reason for the extension	Y
63.654(h) 63.646(a) 63.120(a)	Notification of Inspections: Is 30-day notice required for internal inspections of IFRTs (i.e., prior to filling or refilling); but a 7-day verbal notice acceptable if the event is unplanned?	63.654(h)(2)(i) 63.646(a) 63.120(a)(5)&(6) required	Y
	Report applicability for varying-use tanks?	63.654(h)(6)(ii) with the initial NOC Status report	Y
	Other (initial) Reports: Report applicability for varying-use tanks?	63.654(h)(6)(ii) required with the initial Notification of Compliance Status report	Y

**IV. Source-Specific Applicable Requirements**

**Table IV.F.1.14 Tanks  
 Source-specific Applicable Requirements**

**Internal Floating Roof Tanks Cluster 27**

**S-1289, S-1645**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
63.654(i) 63.123(a)	Applicability records: Time period for keeping records of applicability determination, unless specified otherwise.	63.654(i)(1) 63.123(a) keep record readily accessible for the service life of the tank	Y
63.654(i) 63.646(a) 63.119(a) 63.123(a)	Applicability records: Records of dimensions & capacity required for nonexempt tanks?	63.654(i)(1) 63.646(a)&63.119(a)(3) 63.123(a) required keep record readily accessible for service life of the tank	Y
63.654(i) 63.123© 63.654(d) 63.123(e)	Record keeping for inspections: keep inspection reports as specified	63.654(i)(1) 63.123© - (e) all inspections	Y
	Records of IFR & CFR inspection reports:	63.654(i)(1) 63.123© & (e) all inspections	Y
63.654(i) 63.123 (g)	Record keeping for delayed repairs: When utilizing a delay of repair provision, keep documentation of the reason for the delay.	63.654(i)(1) 63.123 (g) required	Y
	Applicability records: Additional recordkeeping requirements for certain tanks.	63.654(i)(1)(iv) determination of HAP content keep record readily accessible for service life of the tank	Y
Condition #21307	Applies to S-1645		
Condition #18137	Throughput limits	N	

**Table IV.G.1.1 Tanks (Treatment Unit Cluster 10)**

**Table IV.G.1.1 Wastewater  
 Source-specific Applicable Requirements**

**Treatment Unit Cluster 10**

**S-3200 4 CU Desalter Water Treatment Unit, S-6061 Alkane Groundwater Treatment Unit**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
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#### IV. Source-Specific Applicable Requirements

**Table IV.G.1.1 Wastewater  
 Source-specific Applicable Requirements**

**Treatment Unit Cluster 10**

**S-3200 4 CU Desalter Water Treatment Unit, , S-6061 Alkane Groundwater Treatment Unit**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<b>BAAQMD Regulation 11 Rule 12</b>	<b>Hazardous Pollutants – National Emission Standards for Benzene Emissions from Benzene Transfer Operations and Benzene Waste Operations (7/18/90, refer to NESHAP Subpart FF below)</b>	N	
<b>Refinery MACT</b>	<b>NESHAP for Petroleum Refineries            REQUIREMENTS FOR WASTEWATER STREAMS</b>		
63.641	What is a Refinery MACT Group 1 wastewater stream?  63.641 if Total Annual Benzene $\geq$ 10 Mg/yr, then each wastewater stream with flow rate $\geq$ 0.02 liters/min and benzene concentration $\geq$ 10 ppmw and not exempt from controls under 61 Subpart FF	Y	
63.647	What does Refinery MACT require for Group 1 wastewater streams?  63.647(a) comply with 61 Subpart FF (below)	Y	
	Which definitions govern?  63.647(b) the definitions in Refinery MACT supercede those in 61 Subpart FF	Y	
	Clarification with respect to violations  63.647© a monitoring excursion, a failure to perform a leak inspection, or a failure to repair a leak shall constitute a violation	Y	
63.654	Which recordkeeping and reporting requirements govern?  63.654(a) recordkeeping and reporting shall be per 61 Subpart FF	Y	
<b>NESHAP Subpart FF</b>	<b>Benzene Waste Operations            REQUIREMENTS FOR TREATMENT PROCESSES</b>		
61.348	What level of performance is required for the treatment process?  61.348(a)(1) reduce benzene concentration to below 10 ppmw; or remove benzene mass by at least 99%; or destroy benzene by at least 99% via incineration	Y	
	Are treatment processes (e.g. a steam stripper) subject to the same controls as wastewater treatment units?  61.348(a)(2) treatment processes shall be controlled for air emissions in the same manner as wastewater treatment units (all are defined as Waste Management Units per 61.341)	Y	
	Are the requirements for inspecting openings in treatment processes modified as compared to openings in wastewater treatment units?  61.348(e) (1) & (2). Not (e)(3)no detectable emissions (< 500 ppmv) and annual verification by Method 21 are only required for systems operated under negative pressure	Y	



**IV. Source-Specific Applicable Requirements**

**Table IV.G.1.1 Wastewater  
 Source-specific Applicable Requirements**

**Treatment Unit Cluster 10**

**S-3200 4 CU Desalter Water Treatment Unit, , S-6061 Alkane Groundwater Treatment Unit**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
	Can performance tests be required for treatment processes? 61.348(f) perform performance tests of the treatment process upon the request of the Administrator	Y	
	How is ongoing compliance of the treatment process to be assured? 61.348(g) the treatment process shall be monitored per 61.354	Y	
61.349	Must the closed vent system operate with no detectable emissions (< 500 ppmw)? 61.349(a)(1)(i) required	Y	
	How is leak-tightness of the closed vent system inspected? 61.349(a)(1)(i) initially & annually, per Method 21	Y	
	Must all gauging & sampling devices be gas-tight, and closed except when in use? 61.349(a)(1)(iii) required	Y	
	Must pressure-relief devices be closed and sealed during normal operations? 61.349(a)(1)(iv) required	Y	
	What is required if the control device is an enclosed combustion unit? 61.349(a)(2)(i) reduce Total Organic Compounds $\geq$ 95% or Total Organic Compound conc. $\leq$ 20 ppmv or minimum residence time & temperature of 0.5 sec at 760°C	Y	
	What is required if the control device is a vapor recovery unit? 61.349(a)(2)(ii) reduce Total Organic Compounds $\geq$ 95% or benzene $\geq$ 98%	Y	
	Must the closed vent system & control device operate at all times when waste is in the WMU? 61.349(b) required, except when maintenance/repair of the Waste Management Unit requires shutdown of the control device	Y	
	What is required to demonstrate compliance of a control device that is not a flare? 61.349© either engineering calculations or performance tests	Y	
	Can performance tests be required for control devices? 61.349(e) perform performance tests of the control device upon the request of the Administrator	Y	

**IV. Source-Specific Applicable Requirements**

**Table IV.G.1.1 Wastewater  
 Source-specific Applicable Requirements**

**Treatment Unit Cluster 10**

**S-3200 4 CU Desalter Water Treatment Unit, , S-6061 Alkane Groundwater Treatment Unit**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
	What visual inspections are required for the closed vent system and control device? 61.349(f) inspect initially & annually for visible defects	Y	
	If defects are found during an inspection, how quickly must they be repaired? 61.349(g) first attempt within 5 days, final repair within 15 days; unless delay allowed per 61.350	Y	
	Must control devices be monitored? 61.349(h) required, per 61.354©	Y	
61.350	When is a delay of repair allowed, and when must the delayed repair be complete? 61.350 delay of repair is allowed if repair is technically impossible without a shutdown; repair to be complete by the end of the next shutdown	Y	
61.353	What are the responsibilities associated with approval of alternative technologies? 61.353 the person requesting the alternative must show equivalency; and the Administrator must publish any approval in the Federal Register	Y	
61.354	What monitoring is required for the waste streams exiting the treatment process? 61.354(a) monthly sampling to measure the exiting benzene concentration or continuous parametric monitoring; except for streams controlled under certain other rules per 61.348(d)	Y	
	Is additional monitoring required for combined waste streams? 61.354(b) for a combined waste stream subject to 61.348(b) also monitor monthly the benzene concentration entering the first exempt Waste Management Unit, & the flow if not a bio-unit	Y	
	Is monitoring required for control devices? 61.354© daily inspect the continuous monitoring devices specified herein, except as specified in 61.354(d) & (e)	Y	
	Are there control devices that do not require continuous data recorders? 61.354(d) carbon adsorption that is not regenerated on site may be monitored without a continuous recorder; or not monitored if replaced on a sufficiently frequent interval	Y	
	May alternative parameters be monitored in lieu of those specified? 61.354(e) allowed if adequacy of the alternative is demonstrated	Y	

**IV. Source-Specific Applicable Requirements**

**Table IV.G.1.1 Wastewater  
 Source-specific Applicable Requirements**

**Treatment Unit Cluster 10**

**S-3200 4 CU Desalter Water Treatment Unit, S-6061 Alkane Groundwater Treatment Unit**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
	Are inspections required for by-pass lines in closed vent systems?	61.354(f) inspect daily if using a flow indicator or inspect monthly if using car-seal/lock-&-key	Y
	Is additional monitoring required for systems maintained at negative pressure?	61.354(g) continuously monitor the system pressure	Y
61.355	How is the total annual benzene quantity from facility waste (Total Annual Benzene) determined?	61.355(a) – (c) as specified herein	Y
	Procedure for performance testing of treatment processes	61.355(d) for 61.348(a)(1)(i) to demonstrate compliance with 10 ppmw	Y
	Procedure for performance testing of treatment processes	61.355(e) for 61.348(a)(1)(ii) to demonstrate compliance w/ 99% benzene removal	Y
	Procedure for performance testing of treatment processes	61.355(f) for 61.348(a)(1)(iii) to demonstrate compliance with 99% benzene destruction by combustion	Y
	Procedure for performance testing of a wastewater treatment system	61.355(g) for 61.348(b) to demonstrate compliance with requirements for combined waste streams	Y
	Procedure for detecting emissions	61.355(h) per Method 21	Y
	Procedure for performance testing of control devices	61.355(i) for 61.349(a)(2) to demonstrate compliance with reduction efficiency	Y
	Procedure for determining specified benzene quantity (Benzene Quantity)	61.355(j)	Y
	Procedure for determining specified benzene quantity (Benzene Quantity)	61.355(k) for 61.342(e) to demonstrate compliance w/ benzene mass limit	Y
61.356	How long are records to be kept?	61.356(a) keep all records	Y
	Are records required for each waste stream, whether controlled or not?	61.356(b) required, identifying whether controlled	Y
	Are records required for units exempt from controls due to low concentration of pollutants?	61.356(b)(1) required	Y

**IV. Source-Specific Applicable Requirements**

**Table IV.G.1.1 Wastewater  
 Source-specific Applicable Requirements**

**Treatment Unit Cluster 10**

**S-3200 4 CU Desalter Water Treatment Unit, , S-6061 Alkane Groundwater Treatment Unit**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
	Are records required for other waste streams that may be exempt from treatment and controls on the basis of low flow rate or other mass limits?	61.356(b)(1) – (6) required, including Benzene Quantity determination and other characteristics to document exemptions from controls	Y
	Are records required for wastes shipped off-site for treatment?	61.356© for 61.342(f) required	Y
	Are records required for the design of the control equipment (e.g., control devices, floating roofs, etc.)?	61.356(d) for 61.343 – 61.347 required, keep for the life of the equipment	Y
	Are records required documenting the performance of treatment processes?	61.356(e) for 61.348 required, keep for the life of the Waste Management Unit	Y
	Are records required documenting the performance of control devices?	61.356(f) for 61.349 required, keep for the life of the control device	Y
	Are records required for visual inspections and repairs?	61.356(g) for 61.343 – 61.347 required only when defects are found	Y
	Are records required for Method 21 leak inspections and repairs?	61.356(h) for 61.343 – .347, 61.349 required for each inspection	Y
	Are records of startup/shutdown and monitoring data required for WMUs?	61.356(i) for 61.348 required for each Waste Management Unit used to meet benzene treatment requirements	Y
	Are records of startup/shutdown and monitoring data required for control devices?	61.356(j) for 61.349 required	Y
	Are records of monitoring data required for systems maintained under negative pressure?	61.356(m) for 61.343 – 61.347 required	Y
61.357	Is an initial facility status report required?	61.357(a) required, with Total Annual Benzene determination & data on each waste stream	Y
	What continuing reports are required subsequent to the initial report, for facilities exempt from controls?	61.357© if $1 \leq \text{Total Annual Benzene} < 10 \text{ Mg/yr}$ , update the facility status report annually, and when a change results in Total Annual Benzene $\geq 10 \text{ Mg/yr}$	Y
<b>Condition #4650</b>	<b>Permit conditions as follows:</b>		
Part 5	Applies to S-3200/A-3200	A3200 minimum temp of 1000 F with continuous temperature monitoring	

**IV. Source-Specific Applicable Requirements**

**Table IV.G.1.1 Wastewater  
 Source-specific Applicable Requirements**

**Treatment Unit Cluster 10**

**S-3200 4 CU Desalter Water Treatment Unit , S-6061 Alkane Groundwater Treatment Unit**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
Part 6	Applies to S-3200/A-3200 A-3200 vent gas to be vented into flame zone at all times		
Part 7	Applies to S-3200/A-3200 S-3200 continuous flow monitor/recorder		
Part 8	Applies to S-3200/A-3200 S-3200 continuous pressure monitor/recorder		
Part 9	Applies to S-3200/A-3200 S-3200 pump concentration limit 100 ppm	Y	
Part 10	Applies to S-3200/A-3200 Pump seals with water seal flush systems as specified	Y	
Part 11	Applies to S-3200/A-3200 S-3200 quarterly inspection and maintenance pumps and valves	Y	
Part 12	Applies to S-3200/A-3200 S-3200 maintain records	Y	
Part 13	Applies to S-3200/A-3200 S-3200 initial source test	Y	
Part 14	Applies to S-3200/A-3200 S-3200 source test requirement	Y	
Part 15	Applies to S-3200/A-3200 S-3200 source test acceptance	Y	
Part 16	Applies to S-3200/A-3200 and S-3192 keepings-3200 fugitive count- final	Y	
Condition #11193 Part 2	Applies to S-6061 Flanges equipped with BACT as specified	Y	
Condition #11193 Part 3	Applies to S-6061 Valves equipped with BACT as specified	Y	
Condition #18137	Throughput limits	N	

**Table IV.G.1.2 Wastewater (Process Drains Cluster 20d)**

**Table IV.G.1.2 Wastewater  
 Source-specific Applicable Requirements**

**Process Drains Cluster 20d**

**Process Drains Not Subject to QQQ**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
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**IV. Source-Specific Applicable Requirements**

**Table IV.G.1.2 Wastewater  
 Source-specific Applicable Requirements**

**Process Drains Cluster 20d**

**Process Drains Not Subject to QQQ**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<b>BAAQMD Regulation 8 Rule 8</b>	<b>Organic Compounds–WASTEWATER (OIL-WATER) SEPARATORS (INDIVIDUAL DRAIN SYSTEMS EXEMPT FROM CONTROLS)</b>		
8-8-112 8-8-210 8-8-502	Exemption from controls for low concentration of pollutants (records are required)	112, 210 & 502 junction boxes, oil-water separators, DAFs, and any channel, pond, trench or basin between the oil-water separator and the DAF are exempt from controls [but records are required] if < 1.0 ppmv critical organic compound concentration (as defined at 8-8-210) [this exemption does not apply to sludge dewatering units or to slop oil vessels]	Y
	Exemption from controls for low wastewater temperature (records are required)	112, 210 & 502 junction boxes, oil-water separators, DAFs, and any channel, pond, trench or basin between the oil-water separator and the DAF are exempt from controls [but records are required] if temperature of influent wastewater < 20 C (68 F) [this exemption does not apply to sludge dewatering units or to slop oil vessels]	Y
8-8-501 8-8-502	How long are records to be kept?	501 & 502 keep all records	Y
	Are records required for units exempt from controls due to low concentration of pollutants?	502 for 112 required	Y
	Are records required for units exempt from controls due to low temperature of the influent wastewater?	502 for 112 required	Y
8-8-308	Standards for Junction Boxes  Any junction box equipped with solid, gasketed fixed cover, or a solid manhole cover. Openings are allowed if the total open area is below 12.6 in <sup>2</sup> , and vent pipes at least 3 ft in length		Y
<b>BAAQMD Regulation 11 Rule 12</b>	<b>Hazardous Pollutants – National Emission Standards for Benzene Emissions from Benzene Transfer Operations and Benzene Waste Operations (7/18/90, refer to NESHAP Subpart FF below)</b>		N
<b>Refinery MACT</b>	<b>NESHAP for Petroleum Refineries REQUIREMENTS FOR WASTEWATER STREAMS</b>		

**IV. Source-Specific Applicable Requirements**

**Table IV.G.1.2 Wastewater  
 Source-specific Applicable Requirements**

**Process Drains Cluster 20d**

**Process Drains Not Subject to QQQ**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.641	What is a Refinery MACT Group 1 wastewater stream?	63.641 if Total Annual Benzene $\geq$ 10 Mg/yr, then each wastewater stream with flow rate $\geq$ 0.02 liters/min and benzene concentration $\geq$ 10 ppmw and not exempt from controls under 61 Subpart FF	Y
63.647	What does Refinery MACT require for Group 1 wastewater streams?	63.647(a) comply with 61 Subpart FF (below)	Y
	Which definitions govern?	63.647(b) the definitions in Refinery MACT supercede those in 61 Subpart FF	Y
	Clarification with respect to violations	63.647© a monitoring excursion, a failure to perform a leak inspection, or a failure to repair a leak shall constitute a violation	Y
63.654	Which recordkeeping and reporting requirements govern?	63.654(a) recordkeeping and reporting shall be per 61 Subpart FF	Y
<b>NESHAP Subpart FF</b>	<b>Benzene Waste Operations          INDIVIDUAL DRAIN SYSTEMS exempt FROM CONTROLS</b> There are no 61 Subpart FF requirements related to control of air emissions for WMUs that are exempt from controls. [There are record keeping, reporting, and in some cases monitoring requirements for the waste stream(s) received by this WMU, but these requirements are addressed within the scope of Cluster 10 – Treatment Processes.]	<b>Y</b>	

**Table IV.G.1.3 Wastewater (Process Drains Cluster 20q)**

**Table IV.G.1.3 Wastewater  
 Source-specific Applicable Requirements**

**Process Drains Cluster 20q**

**S-4235 Diesel Hydrotreater Plant, S-4251 Solvent Deasphalting Plant, S-4282A Penhex Isomerization Plant, S-4285 FCCU S-4291 H2SO4 Alkylation Plant, S-6050 MTBE Plant, S-4356 TAME/SHU Plant**

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

**Table IV.G.1.3 Wastewater  
 Source-specific Applicable Requirements**

**Process Drains Cluster 20g**

**S-4235 Diesel Hydrotreater Plant, S-4251 Solvent Deasphalting Plant, S-4282A Penhex Isomerization Plant, S-4285 FCCU S-4291 H2SO4 Alkylolation Plant, S-6050 MTBE Plant, S-4356 TAME/SHU Plant**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<b>BAAQMD Regulation 8 Rule 8</b>	<b>Organic Compounds–WASTEWATER (OIL-WATER) SEPARATORS (INDIVIDUAL DRAIN SYSTEMS EXEMPT FROM CONTROLS) (6/15/94)</b>		
8-8-112 8-8-210 8-8-502	Exemption from controls for low concentration of pollutants (records are required)	112, 210 & 502 junction boxes, oil-water separators, DAFs, and any channel, pond, trench or basin between the oil-water separator and the DAF are exempt from controls [but records are required] if < 1.0 ppmv critical organic compound concentration (as defined at 8-8-210) [this exemption does not apply to sludge dewatering units or to slop oil vessels]	Y
	Exemption from controls for low wastewater temperature (records are required)	112, 210 & 502 junction boxes, oil-water separators, DAFs, and any channel, pond, trench or basin between the oil-water separator and the DAF are exempt from controls [but records are required] if temperature of influent wastewater < 20 C (68 F) [this exemption does not apply to sludge dewatering units or to slop oil vessels]	Y
8-8-501 8-8-502	How long are records to be kept?	501 & 502 Keep all records	Y
	Are records required for units exempt from controls due to low concentration of pollutants?	502 for 112 required	Y
	Are records required for units exempt from controls due to low temperature of the influent wastewater?	502 for 112 required	Y
8-8-308	Standards for Junction Boxes  Any junction box equipped with solid, gasketed fixed cover, or a solid manhole cover. Openings are allowed if the total open area is below 12.6 in <sup>2</sup> , and vent pipes at least 3 ft in length		Y
<b>BAAQMD Regulation 10</b>	<b>Standards of Performance for New Stationary Sources (2/16/00, refer to NSPS Subpart QQQ below)</b>		
<b>BAAQMD Regulation 11 Rule 12</b>	<b>Hazardous Pollutants – National Emission Standards for Benzene Emissions from Benzene Transfer Operations and Benzene Waste Operations (7/18/90, refer to NESHAP Subpart FF below)</b>		



**IV. Source-Specific Applicable Requirements**

**Table IV.G.1.3 Wastewater  
 Source-specific Applicable Requirements**

**Process Drains Cluster 20q**

**S-4235 Diesel Hydrotreater Plant, S-4251 Solvent Deasphalting Plant, S-4282A Penhex Isomerization Plant, S-4285 FCCU S-4291 H2SO4 Alkylation Plant, S-6050 MTBE Plant, S-4356 TAME/SHU Plant**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<b>Refinery MACT</b>	<b>NESHAP for Petroleum Refineries REQUIREMENTS FOR WASTEWATER STREAMS</b>		
63.641	What is a Refinery MACT Group 1 wastewater stream? 63.641 if Total Annual Benzene $\geq$ 10 Mg/yr, then each wastewater stream with flow rate $\geq$ 0.02 liters/min and benzene concentration $\geq$ 10 ppmw and not exempt from controls under 61 Subpart FF	Y	
63.647	What does Refinery MACT require for Group 1 wastewater streams? 63.647(a) comply with 61 Subpart FF (below)	Y	
	Which definitions govern? 63.647(b) the definitions in Refinery MACT supercede those in 61 Subpart FF	Y	
	Clarification with respect to violations 63.647© a monitoring excursion, a failure to perform a leak inspection, or a failure to repair a leak shall constitute a violation	Y	
63.654	Which recordkeeping and reporting requirements govern? 63.654(a) recordkeeping and reporting shall be per 61 Subpart FF	Y	
<b>NESHAP Subpart FF</b>	<b>Benzene Waste Operations INDIVIDUAL DRAIN SYSTEMS exempt FROM CONTROLS</b> There are no 61 Subpart FF requirements related to control of air emissions for WMUs that are exempt from controls. [There are record keeping, reporting, and in some cases monitoring requirements for the waste stream(s) received by this WMU, but these requirements are addressed within the scope of Cluster 10 – Treatment Processes.]	<b>Y</b>	
<b>NSPS Subpart QQQ</b>	<b>Petroleum Refinery Wastewater Systems REQUIREMENTS FOR INDIVIDUAL DRAIN SYSTEMS</b> Requirements shown are for compliance with 60.692-2, and do not address compliance with 60.693-1.		
60.692-1	Where are the requirements for controlling air emissions specified? 60.692-1(a) affected facilities shall comply with the specified control requirements or alternatives [specified in 60.692-1 to 60.692-5 and 60.693-1 to 60.693-2]	Y	
	When is this type of WMU subject to these requirements? 60.692-1(a) At all times except during startup, shutdown, or malfunction	Y	

**IV. Source-Specific Applicable Requirements**

**Table IV.G.1.3 Wastewater  
 Source-specific Applicable Requirements**

**Process Drains Cluster 20g**

**S-4235 Diesel Hydrotreater Plant, S-4251 Solvent Deasphalting Plant, S-4282A Penhex Isomerization Plant, S-4285 FCCU S-4291 H2SO4 Alkylolation Plant, S-6050 MTBE Plant, S-4356 TAME/SHU Plant**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	How is compliance determined? 60.692-1(b) compliance will be determined by review of records, reports, test results, & inspections	Y	
60.692-2	What are the requirements of the alternative? 60.692-2 Drains must have a water seal; Junction Boxes must be covered & any vent pipe $\geq$ 3 ft long & $\leq$ 4 in. diameter; and Sewer Lines must be covered or enclosed; and all are subject to visual inspections initially and at specified intervals thereafter, with first efforts at repair within 15 days, except drains within 24 hr	Y	
60.692-6	When is a delay of repair allowed, and when must the delayed repair be complete? 60.692-6 Delay of repair is allowed if repair is technically impossible without a shutdown; repair to be complete by the end of the next shutdown [records required per 60.697(e)]	Y	
60.692-7	When must facilities achieve compliance? 60.692-7 & 60.14(g) Up to 180 days after modifications, unless delayed to avoid shutdown (otherwise prior to initial startup)	Y	
60.696	What initial inspections are required? 60.696(a) visually inspect prior to initial use	Y	
60.697	How long are records to be kept? 60.697(a) keep all records	Y	
	Are records required for visual inspections and repairs? 60.697(b) & (g) required only when defects are found	Y	
	Are records required for delay of repair? 60.697(e) required, with signature	Y	
	Are records required for the design of the control equipment (e.g., control devices, floating roofs, etc.)? 60.697(f) required, keep for the life of the equipment	Y	
60.698	Is an initial facility status report required? 60.698(b) required, within 60 days after startup	Y	

**IV. Source-Specific Applicable Requirements**

**Table IV.G.1.3 Wastewater  
 Source-specific Applicable Requirements**

**Process Drains Cluster 20g**

**S-4235 Diesel Hydrotreater Plant, S-4251 Solvent Deasphalting Plant, S-4282A Penhex Isomerization Plant, S-4285 FCCU S-4291 H2SO4 Alkylolation Plant, S-6050 MTBE Plant, S-4356 TAME/SHU Plant**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	What additional reports are required for facilities subject to controls? 60.698(b) & (c) semiannual certification that all inspections have been performed, with documentation of corrective actions and monitoring excursions	Y	
	What additional reports are required for facilities subject to controls? 60.698(e) notification & documentation, if compliance is delayed per 60.692-7	Y	

**Table IV.G.1.4 Wastewater (Separator Cluster 30c)**

**Table IV.G.1.4 Wastewater  
 Source-specific Applicable Requirements**

**Separator Cluster 30c**

**S-4148 #13 Separator, S-4413 #2A Separator, S-4414 #1A Separator, (S-6250 in Table IV.G.1.8)**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<b>SIP BAAQMD Regulation 8 Rule 8</b>	<b>Organic Compounds–WASTEWATER (OIL-WATER) SEPARATORS REQUIREMENTS FOR OIL-WATER SEPARATORS (6/15/94)</b>		
8-8-114 8-8-501	Wastewater stream allowed to bypass treatment 114 & 501 wastewater is allowed to bypass the oil-water separator & DAF on days that are not ozone excess days [but records are required]	Y	
8-8-301 8-8-302	Are there conditions for which vapors are not required to be routed to a control device? 301.1, 302.1, 302.4 if equipped with a fixed cover that meets certain criteria, then routing to a control device is not required	Y	

**IV. Source-Specific Applicable Requirements**

**Table IV.G.1.4 Wastewater  
 Source-specific Applicable Requirements**

**Separator Cluster 30c**

**S-4148 #13 Separator, S-4413 #2A Separator, S-4414 #1A Separator, (S-6250 in Table IV.G.1.8)**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	What is required for WMUs not routed to a control device? 301.1 if capacity is < 300 gal/min and the fixed cover is gasketed w/no gaps > 1/8 in, subject to semiannual inspections, then vapors need not be routed to control device 302.1 if capacity is ≥ 300 gal/min then routing to a control device is not required if the fixed cover is full contact and vapor tight 302.4 if capacity is ≥ 300 gal/min then routing to a control device is not required if the fixed cover has no leaks > 1,000 ppm, subject to semiannual inspections	Y	
	If not exempt from the control device requirements, are there alternative provisions for compliance? 301.2 & 302.2 floating roof	Y	
	What are the requirements of the alternative? 301.2 & 302.2 Floating roof shall be vapor-tight, and shall be equipped with primary and secondary seals subject to gap criteria, with inspection of the primary seal every 5 years and inspection of the secondary seal annually	Y	
	Route vapors through a closed vent system to a control device? 301.3 & 302.3 required	Y	
	Closed vent system requirements? 301.3 & 302.3 95% efficiency, by weight requirement applies to the combination of collection and destruction of vapors	Y	
	Control device requirements? 301.3 & 302.3 95% efficiency, by weight requirement applies to the combination of collection and destruction of vapors	Y	
8-8-303	Install, operate, and maintain a cover over the WMU. 303 required	Y	
	The cover and all openings to operate with no detectable emissions (< 500 ppmv)? 303 required	Y	
	Each opening to be kept closed, gasketed, & latched at all times that waste is present within, except when the opening is in use? 303 required	Y	

**IV. Source-Specific Applicable Requirements**

**Table IV.G.1.4 Wastewater  
 Source-specific Applicable Requirements**

**Separator Cluster 30c**

**S-4148 #13 Separator, S-4413 #2A Separator, S-4414 #1A Separator, (S-6250 in Table IV.G.1.8)**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	Must all gauging & sampling devices be gas-tight, and closed except when in use? 303 required	Y	
8-8-313	Uncontrolled wastewater collection system components at petroleum refineries	N	
8-8-501	Are records required for bypassed wastewater? 501 for 114 required	Y	
8-8-501	How long are records to be kept? 501 keep all records	Y	
8-8-503	Are records required for visual inspections and repairs? 503 required for each inspection	Y	
	Are records required for Method 21 leak inspections and repairs? 503 required for each inspection	Y	
8-8-504 8-8-603	Procedure for detecting emissions 504 & 603 per Method 21	Y	
8-8-602	What is required to demonstrate compliance of a control device that is not a flare? 602 measurement of emissions	Y	
	Can performance tests be required for control devices? 602 frequency of testing is not specified	Y	
8-8-603 8-8-504	Demonstrate no detectable emissions using Method 21? 603 & 504 required	Y	
<b>BAAQMD Regulation 8 Rule 8</b>	<b>Organic Compounds–WASTEWATER (OIL-WATER) SEPARATORS REQUIREMENTS FOR OIL-WATER SEPARATORS (9/15/04)</b>		
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. Non vapor tight leaks shall be minimized within 24 hours and repaired within 7 days.	N	
8-8-313	Uncontrolled wastewater collection system components at petroleum refineries	N	
<b>BAAQMD Regulation 11 Rule 12</b>	<b>Hazardous Pollutants – National Emission Standards for Benzene Emissions from Benzene Transfer Operations and Benzene Waste Operations (7/18/90, refer to NESHAP Subpart FF below)</b>	N	

**IV. Source-Specific Applicable Requirements**

**Table IV.G.1.4 Wastewater  
 Source-specific Applicable Requirements**

**Separator Cluster 30c**

**S-4148 #13 Separator, S-4413 #2A Separator, S-4414 #1A Separator, (S-6250 in Table IV.G.1.8)**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<b>Refinery MACT</b>	<b>NESHAP for Petroleum Refineries            REQUIREMENTS FOR WASTEWATER STREAMS</b>		
63.641	What is a Refinery MACT Group 1 wastewater stream?	63.641 if Total Annual Benzene $\geq$ 10 Mg/yr, then each wastewater stream with flow rate $\geq$ 0.02 liters/min <u>and</u> benzene concentration $\geq$ 10 ppmw <u>and</u> not exempt from controls under 61 Subpart FF	Y
63.647	What does Refinery MACT require for Group 1 wastewater streams?	63.647(a) comply with 61 Subpart FF (below)	Y
	Which definitions govern?	63.647(b) the definitions in Refinery MACT supercede those in 61 Subpart FF	Y
	Clarification with respect to violations	63.647© a monitoring excursion, a failure to perform a leak inspection, or a failure to repair a leak shall constitute a violation	Y
63.654	Which recordkeeping and reporting requirements govern?	63.654(a) recordkeeping and reporting shall be per 61 Subpart FF	Y
<b>NESHAP Subpart FF</b>	<b>Benzene Waste Operations            OIL-WATER SEPARATORS EXEMPT FROM CONTROLS</b> There are no 61 Subpart FF requirements related to control of air emissions for WMUs that are exempt from controls. [There are record keeping, reporting, and in some cases monitoring requirements for the waste stream(s) received by this WMU, but these requirements are addressed within the scope of Cluster 10 – Treatment Processes.]		
Condition #18137	Applies to S-4148, S-4413, S-4414		N

**IV. Source-Specific Applicable Requirements**

**Table IV.G.1.5 Wastewater (Non-EFRT or IFRT Tanks Cluster 40b)**

**Table IV.G.1.5 Wastewater  
 Source-specific Applicable Requirements**

**Non-EFRT or IFRT Tanks Cluster 40b**

**S-0605 Alkane GWT Feed Surge Tank abated by A-0607, S-0610 Alkane GWT Surge Tank,  
 S-3110 DEBRU Surge Tank and S-3111 DEBRU Surge Tank both abated by A-3200,  
 S-3192 Desalter Effluent Skim Tank**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<b>BAAQMD Regulation 8 Rule 8</b>	<b>Organic Compounds–WASTEWATER (OIL-WATER) SEPARATORS TANKS exempt FROM CONTROLS</b>		
8-8-112 8-8-210 8-8-502	Exemption from controls for low concentration of pollutants (records are required)	112, 210 & 502 junction boxes, oil-water separators, DAFs, and any channel, pond, trench or basin between the oil-water separator and the DAF are exempt from controls [but records are required] if < 1.0 ppmv critical organic compound concentration (as defined at 8-8-210) [this exemption does not apply to sludge dewatering units or to slop oil vessels]	Y
	Exemption from controls for low wastewater temperature (records are required)	112, 210 & 502 junction boxes, oil-water separators, DAFs, and any channel, pond, trench or basin between the oil-water separator and the DAF are exempt from controls [but records are required] if temperature of influent wastewater < 20 C (68 F) [this exemption does not apply to sludge dewatering units or to slop oil vessels]	Y
8-8-114 8-8-501	Wastewater stream allowed to bypass treatment	114 & 501 wastewater is allowed to bypass the oil-water separator & DAF on days that are not ozone excess days [but records are required]	Y
8-8-501 8-8-502	How long are records to be kept?	501 & 502 keep all records	Y
	Are records required for bypassed wastewater?	501 for 114 required	Y
	Are records required for units exempt from controls due to low concentration of pollutants?	502 for 112 required	Y
	Are records required for units exempt from controls due to low temperature of the influent wastewater?	502 for 112 required	Y
<b>BAAQMD Regulation 11 Rule 12</b>	<b>Hazardous Pollutants – National Emission Standards for Benzene Emissions from Benzene Transfer Operations and Benzene Waste Operations (7/18/90, refer to NESHAP Subpart FF below)</b>		N

**IV. Source-Specific Applicable Requirements**

**Table IV.G.1.5 Wastewater  
 Source-specific Applicable Requirements**

**Non-EFRT or IFRT Tanks Cluster 40b**

**S-0605 Alkane GWT Feed Surge Tank abated by A-0607, S-0610 Alkane GWT Surge Tank,  
 S-3110 DEBRU Surge Tank and S-3111 DEBRU Surge Tank both abated by A-3200,  
 S-3192 Desalter Effluent Skim Tank**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<b>Refinery MACT</b>	<b>NESHAP for Petroleum Refineries            REQUIREMENTS FOR WASTEWATER STREAMS</b>		
63.641	What is a Refinery MACT Group 1 wastewater stream?	63.641 if Total Annual Benzene $\geq$ 10 Mg/yr, then each wastewater stream with flow rate $\geq$ 0.02 liters/min and benzene concentration $\geq$ 10 ppmw and not exempt from controls under 61 Subpart FF	Y
63.647	What does Refinery MACT require for Group 1 wastewater streams?	63.647(a) comply with 61 Subpart FF (below)	Y
	Which definitions govern?	63.647(b) the definitions in Refinery MACT supercede those in 61 Subpart FF	Y
	Clarification with respect to violations	63.647(c) a monitoring excursion, a failure to perform a leak inspection, or a failure to repair a leak shall constitute a violation	Y
63.654	Which recordkeeping and reporting requirements govern?	63.654(a) recordkeeping and reporting shall be per 61 Subpart FF	Y
<b>NESHAP Subpart FF</b>	<b>Benzene Waste Operations            REQUIREMENTS FOR TANKS</b>		
61.343	When is this type of WMU subject to these requirements?	61.343(a) when invoked by 61.342(c)(1)(ii) for facilities with Total Annual Benzene $\geq$ 10 Mg/yr	Y
	If not exempt from the control device requirements, are there alternative provisions for compliance?	61.343(a) Comply with 61.351	Y
	Install, operate, and maintain a cover over the WMU.	61.343(a)(1) required (fixed roof)	Y
	Route vapors through a closed vent system to a control device?	61.343(a)(1) required	Y
	The cover and all openings to operate with no detectable emissions (< 500 ppmv)?	61.343(a)(1)(i)(A) required	Y
	Demonstrate no detectable emissions using Method 21?	61.343(a)(1)(i)(A) required	Y



**IV. Source-Specific Applicable Requirements**

**Table IV.G.1.5 Wastewater  
 Source-specific Applicable Requirements**

**Non-EFRT or IFRT Tanks Cluster 40b**

**S-0605 Alkane GWT Feed Surge Tank abated by A-0607, S-0610 Alkane GWT Surge Tank,  
 S-3110 DEBRU Surge Tank and S-3111 DEBRU Surge Tank both abated by A-3200,  
 S-3192 Desalter Effluent Skim Tank**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	Inspection per Method 21 required initially, and annually thereafter? 61.343(a)(1)(i)(A) required	Y	
	Each opening to be kept closed, gasketed, & latched at all times that waste is present within, except when the opening is in use? 61.343(a)(1)(i)(B) required	Y	
	Visual inspection initially, and quarterly thereafter, to ensure that the cover and all openings are closed & gasketed properly? 61.343© required	Y	
	First attempt at repair of broken seal or gasket or other problem (including detectable emissions) to be made within 15 days? 61.343(d) 45 days allowed	Y	
	Delay of repair allowed? 61.343(d) yes, per 61.350	Y	
61.349	Closed vent system requirements? 61.349 no detectable emissions (500 ppmv), gas-tight gauging & sampling devices, etc.	Y	
	Control device requirements? 61.349 95% efficiency or equivalent with specified monitoring, recordkeeping & reporting	Y	
	Must the closed vent system operate with no detectable emissions (< 500 ppmw)? 61.349(a)(1)(i) required	Y	
	How is leak-tightness of the closed vent system inspected? 61.349(a)(1)(i) initially & annually, per Method 21	Y	
	Must all gauging & sampling devices be gas-tight, and closed except when in use? 61.349(a)(1)(iii) required	Y	
	What is required if the control device is an enclosed combustion unit? 61.349(a)(2)(i) reduce Total Organic Compounds $\geq$ 95% or Total Organic Compound conc. $\leq$ 20 ppmv or minimum residence time & temperature of 0.5 sec at 760°C	Y	

**IV. Source-Specific Applicable Requirements**

**Table IV.G.1.5 Wastewater  
 Source-specific Applicable Requirements**

**Non-EFRT or IFRT Tanks Cluster 40b**

**S-0605 Alkane GWT Feed Surge Tank abated by A-0607, S-0610 Alkane GWT Surge Tank,  
 S-3110 DEBRU Surge Tank and S-3111 DEBRU Surge Tank both abated by A-3200,  
 S-3192 Desalter Effluent Skim Tank**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	What is required if the control device is a vapor recovery unit? 61.349(a)(2)(ii) reduce Total Organic Compounds ≥ 95% or benzene ≥ 98%	Y	
	Must pressure-relief devices be closed and sealed during normal operations? 61.349(a)(1)(iv) required	Y	
	What is required if the control device is an enclosed combustion unit? 61.349(a)(2)(i) reduce TOC ≥ 95% or TOC conc. ≤ 20 ppmv or minutes residence time & temperature of 0.5 sec at 760°C	Y	
	What is required if the control device is a vapor recovery unit? 61.349(a)(2)(ii) reduce TOC ≥ 95% or benzene ≥ 98%	Y	
	Must the closed vent system & control device operate at all times when waste is in the WMU? 61.349(b) required, except when maintenance/repair of the WMU requires shutdown of the control device	Y	
	What is required to demonstrate compliance of a control device that is not a flare? 61.349© performance tests	Y	
	Can performance tests be required for control devices? 61.349(e) perform performance tests of the control device upon the request of the Administrator	Y	
	What visual inspections are required for the closed vent system and control device? 61.349(f) inspect initially & annually for visible defects	Y	
	If defects are found during an inspection, how quickly must they be repaired? 61.349(g) first attempt within 5 days, final repair within 15 days; unless delay allowed per 61.350	Y	
	Must control devices be monitored? 61.349(h) required, per 61.354©	Y	
61.350	When is a delay of repair allowed, and when must the delayed repair be complete? 61.350 delay of repair is allowed if repair is technically impossible without a shutdown; repair to be complete by the end of the next shutdown	Y	

**IV. Source-Specific Applicable Requirements**

**Table IV.G.1.5 Wastewater  
 Source-specific Applicable Requirements**

**Non-EFRT or IFRT Tanks Cluster 40b**

**S-0605 Alkane GWT Feed Surge Tank abated by A-0607, S-0610 Alkane GWT Surge Tank,  
 S-3110 DEBRU Surge Tank and S-3111 DEBRU Surge Tank both abated by A-3200,  
 S-3192 Desalter Effluent Skim Tank**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date	
61.353	What are the responsibilities associated with approval of alternative technologies?	61.353 the person requesting the alternative must show equivalency; and the Administrator must publish any approval in the Federal Register	Y	
61.354	Is monitoring required for control devices?	61.354© daily inspect the continuous monitoring devices specified herein, except as specified in 61.354(d) & (e)	Y	
	Are there control devices that do not require continuous data recorders?	61.354(d) carbon adsorption that is not regenerated on site may be monitored without a continuous recorder; or not monitored if replaced on a sufficiently frequent interval	Y	
	May alternative parameters be monitored in lieu of those specified?	61.354(e) allowed if adequacy of the alternative is demonstrated	Y	
	Are inspections required for by-pass lines in closed vent systems?	61.354(f) inspect daily if using a flow indicator <u>or</u> inspect monthly if using car-seal/lock-&-key	Y	
	Is additional monitoring required for systems maintained at negative pressure?	61.354(g) continuously monitor the system pressure	Y	
61.355	Procedure for detecting emissions	61.355(h) per Method 21	Y	
	Procedure for performance testing of control devices	61.355(i) for 61.349(a)(2) to demonstrate compliance with reduction efficiency	Y	
61.356	How long are records to be kept?	61.356(a) keep all records	Y	
	Are records required for the design of the control equipment (e.g., control devices, floating roofs, etc.)?	61.356(d) for 61.343 – 61.347 required, keep for the life of the equipment	Y	
	Are records required documenting the performance of control devices?	61.356(f) for 61.349 required, keep for the life of the control device	Y	
	Are records required for visual inspections and repairs?	61.356(g) for 61.343 – 61.347 required only when defects are found	Y	

**IV. Source-Specific Applicable Requirements**

**Table IV.G.1.5 Wastewater  
 Source-specific Applicable Requirements**

**Non-EFRT or IFRT Tanks Cluster 40b**

**S-0605 Alkane GWT Feed Surge Tank abated by A-0607, S-0610 Alkane GWT Surge Tank,  
 S-3110 DEBRU Surge Tank and S-3111 DEBRU Surge Tank both abated by A-3200,  
 S-3192 Desalter Effluent Skim Tank**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	Are records required for Method 21 leak inspections and repairs? 61.356(h) for 61.343 – .347, 61.349 required for each inspection	Y	
	Are records of startup/shutdown and monitoring data required for control devices? 61.356(j) for 61.349 required	Y	
	Are records of monitoring data required for systems maintained under negative pressure? 61.356(m) for 61.343 – 61.347 required	Y	
61.357	What additional reports are required for facilities subject to controls? 61.357(e) for 61.351 or 61.352, notification [per 61.07 or 61.10] of intent to use the specified alternative	Y	
<b>Condition #4650</b>	<b>Permit conditions as follows:</b>		
Part 1 and 5	Applies to S-3192 S-3192 POC emissions abated by A3200 by at least 98.5%	Y	
Part 2 and 6	Applies to S-3192 S-3192 POC combined emissions not to exceed 1.0 lb/day	Y	
Part 3 and 7	Applies to S-3192 S-3192 Benzene combined emissions not to exceed 0.04 lbs/day	Y	
Part 4 and 8	Applies to S-3192 S-3192 Benzene combined liquid concentration not to exceed 1% (wt) (10000 ppm)	Y	
<b>Condition #11193</b>	<b>Permit conditions as follows:</b>		
Part 1	Applies to S-0605 abated by A0607 and S-0610 Total Throughput for S-0605	Y	
Part 2	Applies to S-0605 abated by A0607 and S-0610 Flanges equipped with BACT	Y	
Part 3	Applies to S-0605 abated by A0607 and S-0610 Valves equipped with BACT	Y	
Part 6	Applies to S-0605 abated by A0607 and S-0610 Vent S-0605 to A-0607 at all times	Y	
Part 7	Applies to S-0605 abated by A0607 and S-0610 Vent S-0610 to A-0607 at all times	Y	
Part 8	Applies to S-0605 abated by A0607 and S-0610 Abatement efficiency of 95% or more	Y	
Part 9	Applies to S-0605 abated by A0607 Carbon Monitoring requirement	Y	

**IV. Source-Specific Applicable Requirements**

**Table IV.G.1.5 Wastewater  
 Source-specific Applicable Requirements**

**Non-EFRT or IFRT Tanks Cluster 40b**

**S-0605 Alkane GWT Feed Surge Tank abated by A-0607, S-0610 Alkane GWT Surge Tank,  
 S-3110 DEBRU Surge Tank and S-3111 DEBRU Surge Tank both abated by A-3200,  
 S-3192 Desalter Effluent Skim Tank**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 10	Applies to S-0605 abated by A0607 and S-0610 Annual average Benzene concentration <250 ppm	Y	
Part 11	Applies to S-0605 abated by A0607, and S-0610 Sample/Analysis Required	Y	
Part 12	Applies to S-0605 abated by A0607, and S-0610 Record keeping	Y	
<b>Condition #4650</b>	<b>Permit conditions as follows:</b>	<b>Y</b>	
Part 1 and 5	Applies to S-3110 and S-3111; POC Emissions abated by 98.5% or more pertaining to tanks in Permit Condition; that pertaining to A-3200 is included in S-3200 /A-3200	Y	
Part 2 and 6	Applies to S-3110 and S-3111; Abated POC emissions combined < 1.0 lb/day pertaining to tanks in Permit Condition; that pertaining to A-3200 is included in S-3200 /A-3200	Y	
Part 3 and 7	Applies to S-3110 and S-3111; Abated Benzene emissions combined <.04 lb/day pertaining to tanks in Permit Condition; that pertaining to A-3200 is included in S-3200 /A-3200	Y	
Part 4 and 8	Applies to S-3110 and S-3111; Benzene liquid concentration < 1.0 wt. pertaining to tanks in Permit Condition; that pertaining to A-3200 is included in S-3200/A-3200	Y	
Condition #18137	Throughput Limits for S-0605, S-3110, S-3111	N	

**Table IV.G.1.6 Wastewater (FRT's Tanks Cluster 45e)**

**Table IV.G.1.6 Wastewater  
 Source-specific Applicable Requirements**

**EFRT Tanks Cluster 45e**

**S-0231, S-0232, S-0399, S-1504, S-3126, S-3127, S-3128, S-3076, S-3144**

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

**Table IV.G.1.6 Wastewater  
 Source-specific Applicable Requirements**

**EFRT Tanks Cluster 45e**

**S-0231, S-0232, S-0399, S-1504, S-3126, S-3127, S-3128, S-3076, S-3144**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<b>SIP BAAQMD Regulation 8 Rule 5</b>	<b>Organic Compounds – STORAGE OF ORGANIC LIQUIDS. REQUIREMENTS FOR EXTERNAL FLOATING ROOF TANKS</b>		
8-5-111	EFRT operating requirements: When landing the floating roof on its support legs, is the tank to be emptied & either refilled or degassed ASAP?	111 yes, but only allowed for stock change, tank cleaning, or repairs, & requires written notice	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?	111.1 not required, but 3-day notice is required prior to removing tank from service	Y
8-5-112	Are EFR rim seals allowed to be pulled back or temporarily removed during inspection?	112 yes, 7-day time limit	Y
	Notification of Inspections: Are notifications of inspections to demonstrate initial compliance required, For EFR seal gap measurements:	112.4 7-day notice required prior to secondary seal replacement; no other notifications specified pertaining to seals	Y
8-5-311 8-5-320 8-5-321	EFR Rim Seals: vapor-mounted primary seal: liquid-mounted primary seal: mechanical-shoe primary seal:	311.1, 321 Not Allowed 321.4, 320.1 OK w/rim- mounted secondary 321.3, 320.1 OK w/rim- mounted secondary	Y
8-5-320	EFR deck openings other than for vents to project into liquid?	320.2.1, 4.1 & 5.1 required	Y
	EFR vents to be gasketed?	320.2.2 required	Y
	Deck openings (wells) other than for vents, drains, or legs to have covers that are kept closed except for access?	320.2.2 & 4.2 maximum gap = 1/8 in. (& drains not exempt)	Y
	EFR well covers to be gasketed?	320.2.2 & 4.2 required	Y
	EFR rim space vents to remain closed except when the pressure setting is exceeded?	320.3 required	Y
	EFR Auto. Bleeder vent (vacuum breaker) to be closed except when the deck is landed?	320.3 required	Y

**IV. Source-Specific Applicable Requirements**

**Table IV.G.1.6 Wastewater  
 Source-specific Applicable Requirements**

**EFRT Tanks Cluster 45e**

**S-0231, S-0232, S-0399, S-1504, S-3126, S-3127, S-3128, S-3076, S-3144**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	EFR guidepole wells to have a deck cover gasket and a pole wiper?	320.5.2 required Y	
	EFRT slotted guidepoles to have either an internal float or a pole sleeve?	320.5.2 required Y	
	EFR emergency roof drains to have seals covering at least 90% of the opening?	320.6 required Y	
8-5-321 8-5-322	DETERMINATION OF EFR RIM-SEAL GAP AREAS: Sum the gap areas & divide by the diameter of the tank?	321 & 322 different procedure, limiting the % of circumference over which the gap can be exceeded 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?	321 & 322 321 & 322 Y	
	Shall there be no holes, tears, or openings in the EFR seals?	321.1 & 322.1 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?	321.3 yes Y	
	EFR Primary Seal Gap Inspection Criteria: maximum area: maximum gap width:	321.3 & 321.- 0.5 – 2.5 in. Y	
8-5-322	EFR Secondary Seal Gap Inspection Criteria: maximum area: maximum gap width:	322 ≤ 5% w/gap > 0.02 in. 0.06 in. Y	
8-5-328 8-5-329	Temporary exemption from operating requirements while the external floating roof is landed on its support legs?	328 & 329 exempt per 111, but 328 & 329 impose restrictions on tank cleaning & on activities commenced on excess ozone days Y	
8-5-401	Seal Gap Measurements: FREQUENCY AFTER INITIAL COMPLIANCE, For the EFR Primary Seal:	401 every 5 years Y	

#### IV. Source-Specific Applicable Requirements

**Table IV.G.1.6 Wastewater  
 Source-specific Applicable Requirements**

**EFRT Tanks Cluster 45e**

**S-0231, S-0232, S-0399, S-1504, S-3126, S-3127, S-3128, S-3076, S-3144**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-5-402	Seal Gap Measurements: 402 FREQUENCY AFTER INITIAL annually COMPLIANCE, For the EFR Secondary Seal:	Y	
	EFR Internal Inspections: up-close 402 visual inspection of the floating roof, at the same schedule as the secondary seals, & fittings: seal	Y	
8-5-404	Seal Gap Measurements: 404 For new EFRTs: submit certification of seal gap measurements upon installation	Y	
	Notification of Compliance Status 404 report: certification to be submitted upon installation for floating-roof rim seals	Y	
	EFRT report to include: 404 seal gap measurements	Y	
	Periodic Reports: 404.3 Miscellaneous additional annual certification of tank degassing information to report: equipment	Y	
8-5-405	Periodic Reports: 405 Report EFR seal gap inspections if required (at same frequency as the there was no out-of-compliance? measurements, but does not specify how promptly; but 404.2.1 specifies that interval between certification of annual secondary seal inspections shall not exceed 15 months)	Y	
	Periodic Reports: 405 Report EFR seal gap inspections required (at same frequency as the when there is out-of-compliance? measurements, but does not specify how promptly; but 404.2.1 specifies that interval between certification of annual secondary seal inspections shall not exceed 15 months)	Y	
	Periodic Reports: 405 Report of EFR inspection date of inspection, actual seal gap data, failures to include: & determination of compliance	Y	
8-5-501	Applicability records: 501 Additional recordkeeping type of liquid stored & its TVP, for all requirements for certain tanks. nonexempt tanks	Y	
8-5-602	True vapor pressure (TVP) 602 or 604 determination for applicability: based on maximum (instantaneous) tank storage temperature	Y	



**IV. Source-Specific Applicable Requirements**

**Table IV.G.1.6 Wastewater  
 Source-specific Applicable Requirements**

**EFRT Tanks Cluster 45e**

**S-0231, S-0232, S-0399, S-1504, S-3126, S-3127, S-3128, S-3076, S-3144**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<b>SIP BAAQMD Regulation 8 Rule 8</b>	<b>Organic Compounds–WASTEWATER (OIL-WATER) Collection and SEPARATOR Schemes (6/15/94)</b>		
8-8-305	Slop oil vessels shall be equipped with a solid, gasketed, fixed cover with no cracks greater than 0.125 inches or an organic compound vapor recovery system with combined collection and destruction efficiency of at least 70%, by weight	Y	
<b>BAAQMD Regulation 8 Rule 8</b>	<b>Organic Compounds–WASTEWATER (OIL-WATER) Collection and SEPARATOR Schemes(9/15/04)</b>		
8-8-305	Slop oil vessels shall be equipped with a solid, gasketed, fixed cover with no cracks greater than 0.125 inches or an organic compound vapor recovery system with combined collection and destruction efficiency of at least 70%, by weight	Y	
<b>BAAQMD Regulation 11 Rule 12</b>	<b>Hazardous Pollutants – National Emission Standards for Benzene Emissions from Benzene Transfer Operations and Benzene Waste Operations (7/18/90, refer to NESHAP Subpart FF below)</b>	N	
<b>NSPS Subpart Kb</b>	<b>Volatile Organic Liquid Storage Vessels REQUIREMENTS FOR EXTERNAL FLOATING ROOF TANKS</b>		
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 w/rim-mounted secondary OK w/rim-mounted secondary	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

#### IV. Source-Specific Applicable Requirements

**Table IV.G.1.6 Wastewater  
 Source-specific Applicable Requirements**

**EFRT Tanks Cluster 45e**

**S-0231, S-0232, S-0399, S-1504, S-3126, S-3127, S-3128, S-3076, S-3144**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	EFRT rim space vents to remain closed except when the pressure setting is exceeded? 60.112b(a)(2)(ii) required	Y	
	EFRT Auto. Bleeder vent (vacuum breaker) to be closed except when the deck is landed? 60.112b(a)(2)(ii) required	Y	
	EFRT emergency roof drains to have seals covering at least 90% of the opening? 60.112b(a)(2)(ii) required	Y	
	EFRT 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 ASAP? 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)	UNSAFE CONDITIONS: Delay of EFR seal gap measurements allowed for unsafe conditions? If unable to make safe to measure, must the EFRT be emptied? 60.113b(b)(1) 60.113b(b)(1)	Y	
	EXTENSIONS OF TIME: If EFRT is unsafe to inspect & cannot be emptied within 45 days? 60.113b(b)(1)	Y	
	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	

**IV. Source-Specific Applicable Requirements**

**Table IV.G.1.6 Wastewater  
 Source-specific Applicable Requirements**

**EFRT Tanks Cluster 45e**

**S-0231, S-0232, S-0399, S-1504, S-3126, S-3127, S-3128, S-3076, S-3144**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
	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 yr or more of exempt service:	60.113b(b)(1)(iii) measure gaps of both seals within 60 days	Y
	MEASUREMENT CONDITIONS: 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
	EFRT REPAIRS: Time allowed for repair of defects found during in-service inspections of EFRTs: 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 in <sup>2</sup> /ft.diam. 1.5 in.	Y
	Shall there be no holes, tears, or openings in the EFR seals?	60.113b(b)(4)(i) & (ii) yes	Y

**IV. Source-Specific Applicable Requirements**

**Table IV.G.1.6 Wastewater  
 Source-specific Applicable Requirements**

**EFRT Tanks Cluster 45e**

**S-0231, S-0232, S-0399, S-1504, S-3126, S-3127, S-3128, S-3076, S-3144**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
	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	
	EFR Secondary Seal Gap Inspection Criteria: maximum area: maximum gap width: 60.113b(b)(4)(ii)(B) 1 in <sup>2</sup> /ft.diameter 0.5 in.	Y	
	Are EFR rim seals allowed to be pulled back or temporarily removed during inspection? 60.113b(b)(4)(ii)(B)	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, w/ 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 inspections not required for initial compliance	Y	
	EFRT REPAIRS: Repair of defects if the tank is empty? 60.113b(b)(6)(i) prior to refilling	Y	
	Notification of Inspections: Is 30-day notice required for internal inspections of EFRTs (i.e., prior to filling or refilling); but a 7-day verbal notice acceptable if the event is unplanned? 60.113b(b)(6)(ii) required	Y	

**IV. Source-Specific Applicable Requirements**

**Table IV.G.1.6 Wastewater  
 Source-specific Applicable Requirements**

**EFRT Tanks Cluster 45e**

**S-0231, S-0232, S-0399, S-1504, S-3126, S-3127, S-3128, S-3076, S-3144**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
60.115b	Recordkeeping for inspections: Keep inspection reports as specified	60.115b keep records 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, internal diameter 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 records 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©	Applicability records: Additional recordkeeping requirements for certain tanks.	60.116b© internal diameter & 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	
<b>NSPS Subpart A</b>	<b>New Source Performance Standards GENERAL PROVISIONS</b>		
60.7(a)	Initial Notification: Is initial notification of the source's existence required?	60.7(a)(1) notification within 30 days after begin construction Y	
	Report (document) having initially achieved compliance?	60.7(a)(3) 60.115b(a)(1) & (b)(1) within 15 days after initial fill Y	

**IV. Source-Specific Applicable Requirements**

**Table IV.G.1.6 Wastewater  
 Source-specific Applicable Requirements**

**EFRT Tanks Cluster 45e**

**S-0231, S-0232, S-0399, S-1504, S-3126, S-3127, S-3128, S-3076, S-3144**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
	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	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	
<b>Refinery MACT</b>	<b>NESHAP for Petroleum Refineries        REQUIREMENTS FOR WASTEWATER STREAMS</b>		
63.641	What is a Refinery MACT Group 1 wastewater stream? 63.641 if Total Annual Benzene $\geq$ 10 Mg/yr, then each wastewater stream with flow rate $\geq$ 0.02 liters/min and benzene concentration $\geq$ 10 ppmw and not exempt from controls under 61 Subpart FF	Y	
	Which provisions apply to wastewater tanks? 63.641 wastewater tanks are not storage vessels, but are subject to the wastewater provisions	Y	
63.647	What does Refinery MACT require for Group 1 wastewater streams? 63.647(a) comply with 61 Subpart FF (below)	Y	
	Which definitions govern? 63.647(b) the definitions in Refinery MACT supercede those in 61 Subpart FF	Y	
	Clarification with respect to violations 63.647© a monitoring excursion, a failure to perform a leak inspection, or a failure to repair a leak shall constitute a violation	Y	
63.654	Which recordkeeping and reporting requirements govern? 63.654(a) recordkeeping and reporting shall be per 61 Subpart FF	Y	

**IV. Source-Specific Applicable Requirements**

**Table IV.G.1.6 Wastewater  
 Source-specific Applicable Requirements**

**EFRT Tanks Cluster 45e**

**S-0231, S-0232, S-0399, S-1504, S-3126, S-3127, S-3128, S-3076, S-3144**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<b>NESHAP Subpart FF</b>	<b>Benzene Waste Operations REQUIREMENTS FOR TANKS</b>		
61.343	When is this type of WMU subject to these requirements?	61.343(a) when invoked by 61.342(c)(1)(ii) for facilities with Total Annual Benzene $\geq$ 10 Mg/yr	Y
	If not exempt from the control device requirements, are there alternative provisions for compliance?	61.343(a) Comply with 61.351	Y
61.351	What are the requirements of the alternative?	61.351 Floating roof or equivalent, in compliance with NSPS Subpart Kb	Y
61.356	How long are records to be kept?	61.356(a) keep all records	Y
	Are records required for the design of the control equipment (e.g., control devices, floating roofs, etc.)?	61.356(d) for 61.343 – 61.347 required, keep for the life of the equipment	Y
	Are records required for floating roofs used as alternative control equipment in tanks?	61.356(k) for 61.351 required as per 60.115b [NSPS subpart Kb]	Y
61.357	What additional reports are required for facilities subject to controls?	61.357(e) for 61.351 or 61.352, notification [per 61.07 or 61.10] of intent to use the specified alternative	Y
	What additional reports are required for facilities subject to controls?	61.357(f) for 61.351, reports for floating roofs as per 60.115b [NSPS Kb]	Y
Condition #18137	Throughput limits	N	
Condition #23262	Applies to S-3127	N	
Part 1	Throughput	N	
Part 2	Vapor Pressure Limit	N	
Part 3	Benzene Limit	N	
Part 4	Sampling of Vapor Pressure and Benzene	N	
Part 5	Heating limitation	N	
Part 6	Recordkeeping	N	

**IV. Source-Specific Applicable Requirements**

**Table IV.G.1.7 Wastewater (Bioreactor Cluster 50d)**

**Table IV.G.1.7 Wastewater  
 Source-specific Applicable Requirements**

**Bioreactor Cluster 50d**

**S-4393 Bioreactor**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<b>BAAQMD Regulation 8 Rule 8</b>	<b>Organic Compounds–WASTEWATER (OIL-WATER) SEPARATORS            SURFACE IMPOUNDMENTS exempt FROM CONTROLS</b>		
8-8-112 8-8-210 8-8-502	Exemption from controls for low concentration of pollutants (records are required)	112, 210 & 502 junction boxes, oil-water separators, DAFs, and any channel, pond, trench or basin between the oil-water separator and the DAF are exempt from controls [but records are required] if < 1.0 ppmv critical organic compound concentration (as defined at 8-8-210) [this exemption does not apply to sludge dewatering units or to slop oil vessels]	Y
	Exemption from controls for low wastewater temperature (records are required)	112, 210 & 502 junction boxes, oil-water separators, DAFs, and any channel, pond, trench or basin between the oil-water separator and the DAF are exempt from controls [but records are required] if temperature of influent wastewater < 20 C (68 F) [this exemption does not apply to sludge dewatering units or to slop oil vessels]	Y
8-8-501 8-8-502	How long are records to be kept?	501 & 502 keep all records	Y
	Are records required for units exempt from controls due to low concentration of pollutants?	502 for 112 required	Y
	Are records required for units exempt from controls due to low temperature of the influent wastewater?	502 for 112 required	Y
<b>BAAQMD Regulation 11 Rule 12</b>	<b>Hazardous Pollutants – National Emission Standards for Benzene Emissions from Benzene Transfer Operations and Benzene Waste Operations (7/18/90, refer to NESHAP Subpart FF below)</b>		
<b>Refinery MACT</b>	<b>NESHAP for Petroleum Refineries            REQUIREMENTS FOR WASTEWATER STREAMS</b>		
63.641	What is a Refinery MACT Group 1 wastewater stream?	63.641 if Total Annual Benzene $\geq$ 10 Mg/yr, then each wastewater stream with flow rate $\geq$ 0.02 liters/min and benzene concentration $\geq$ 10 ppmw and not exempt from controls under 61 Subpart FF	Y



**IV. Source-Specific Applicable Requirements**

**Table IV.G.1.7 Wastewater  
 Source-specific Applicable Requirements**

**Bioreactor Cluster 50d**

**S-4393 Bioreactor**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date	
63.647	What does Refinery MACT require for Group 1 wastewater streams?	63.647(a) comply with 61 Subpart FF (below)	Y	
	Which definitions govern?	63.647(b) the definitions in Refinery MACT supercede those in 61 Subpart FF	Y	
	Clarification with respect to violations	63.647© a monitoring excursion, a failure to perform a leak inspection, or a failure to repair a leak shall constitute a violation	Y	
63.654	Which recordkeeping and reporting requirements govern?	63.654(a) recordkeeping and reporting shall be per 61 Subpart FF	Y	
<b>NESHAP Subpart FF</b>	<b>Benzene Waste Operations</b> <b>SURFACE IMPOUNDMENTS exempt FROM CONTROLS</b> There are no 61 Subpart FF requirements related to control of air emissions for WMUs that are exempt from controls. [There are record keeping, reporting, and in some cases monitoring requirements for the waste stream(s) received by this WMU, but these requirements are addressed within the scope of Cluster 10 – Treatment Processes.]	<b>Y</b>		
Condition #18137	Throughput limit for S-4393	N		
Condition #15698, part 11	Applies to S-4393	Y		

**Table IV.G.1.8 Wastewater (Containers Cluster 60b)**

**Table IV.G.1.8 Wastewater  
 Source-specific Applicable Requirements**

**Containers (Portable Wastewater Handling Units) Cluster 60b**

**Bins, Drums, Vacuum Trucks, S-6250 Oil Water Separator Tank abated by  
 A-0630 and A-0631 Carbon Canisters, Vessels 1A & B and 2A and B  
 (Carbon Washout Poly Tanks for S-1504 Tank)**

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

**Table IV.G.1.8 Wastewater  
 Source-specific Applicable Requirements**

**Containers (Portable Wastewater Handling Units) Cluster 60b**

**Bins, Drums, Vacuum Trucks, S-6250 Oil Water Separator Tank abated by  
 A-0630 and A-0631 Carbon Canisters, Vessels 1A & B and 2A and B  
 (Carbon Washout Poly Tanks for S-1504 Tank)**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<b>BAAQMD Regulation 8 Rule 8</b>	<b>Organic Compounds–WASTEWATER (OIL-WATER) SEPARATORS (CONTAINERS exempt FROM CONTROLS)</b>		
8-8-112 8-8-210 8-8-502	Exemption from controls for low concentration of pollutants (records are required)	112, 210 & 502 junction boxes, oil-water separators, DAFs, and any channel, pond, trench or basin between the oil-water separator and the DAF are exempt from controls [but records are required] if < 1.0 ppmv critical organic compound concentration (as defined at 8-8-210) [this exemption does not apply to sludge dewatering units or to slop oil vessels]	Y
	Exemption from controls for low wastewater temperature (records are required)	112, 210 & 502 junction boxes, oil-water separators, DAFs, and any channel, pond, trench or basin between the oil-water separator and the DAF are exempt from controls [but records are required] if temperature of influent wastewater < 20 C (68 F) [this exemption does not apply to sludge dewatering units or to slop oil vessels]	Y
8-8-114 8-8-501	Wastewater stream allowed to bypass treatment	114 & 501 wastewater is allowed to bypass the oil-water separator & DAF on days that are not ozone excess days [but records are required]	Y
8-8-501 8-8-502	How long are records to be kept?	501 & 502 keep all records	Y
	Are records required for bypassed wastewater?	501 for 114 required	Y
	Are records required for units exempt from controls due to low concentration of pollutants?	502 for 112 required	Y
	Are records required for units exempt from controls due to low temperature of the influent wastewater?	502 for 112 required	Y
<b>BAAQMD Regulation 11 Rule 12</b>	<b>Hazardous Pollutants – National Emission Standards for Benzene Emissions from Benzene Transfer Operations and Benzene Waste Operations (7/18/90, refer to NESHAP Subpart FF below)</b>		N

**IV. Source-Specific Applicable Requirements**

**Table IV.G.1.8 Wastewater  
 Source-specific Applicable Requirements**

**Containers (Portable Wastewater Handling Units) Cluster 60b**

**Bins, Drums, Vacuum Trucks, S-6250 Oil Water Separator Tank abated by  
 A-0630 and A-0631 Carbon Canisters, Vessels 1A & B and 2A and B  
 (Carbon Washout Poly Tanks for S-1504 Tank)**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<b>Refinery MACT</b>	<b>NESHAP for Petroleum Refineries            REQUIREMENTS FOR WASTEWATER STREAMS</b>		
63.641	What is a Refinery MACT Group 1 wastewater stream?	63.641 if Total Annual Benzene $\geq$ 10 Mg/yr, then each wastewater stream with flow rate $\geq$ 0.02 liters/min and benzene concentration $\geq$ 10 ppmw and not exempt from controls under 61 Subpart FF	Y
63.647	What does Refinery MACT require for Group 1 wastewater streams?	63.647(a) comply with 61 Subpart FF (below)	Y
	Which definitions govern?	63.647(b) the definitions in Refinery MACT supercede those in 61 Subpart FF	Y
	Clarification with respect to violations	63.647© a monitoring excursion, a failure to perform a leak inspection, or a failure to repair a leak shall constitute a violation	Y
63.654	Which recordkeeping and reporting requirements govern?	63.654(a) recordkeeping and reporting shall be per 61 Subpart FF	Y
<b>NESHAP Subpart FF</b>	<b>Benzene Waste OperationsREQUIREMENTS FOR CONTAINERS</b>		
61.345	When is this type of WMU subject to these requirements?	61.345(a) when invoked by 61.342(c)(1)(ii) for facilities with Total Annual Benzene $\geq$ 10 Mg/yr	Y
	Install, operate, and maintain a cover over the WMU.	61.345(a)(1) required for the container 61.345(a)(3) Container is to be located within an enclosure	Y
	Route vapors through a closed vent system to a control device?	61.345(a)(1) Not required for container 61.345(a)(3) required for the enclosure	Y
	The cover and all openings to operate with no detectable emissions (< 500 ppmv)?	61.345(a)(1)(i) required for the container 61.345(a)(3)(i) required for the enclosure	Y

**IV. Source-Specific Applicable Requirements**

**Table IV.G.1.8 Wastewater  
 Source-specific Applicable Requirements**

**Containers (Portable Wastewater Handling Units) Cluster 60b**

**Bins, Drums, Vacuum Trucks, S-6250 Oil Water Separator Tank abated by  
 A-0630 and A-0631 Carbon Canisters, Vessels 1A & B and 2A and B  
 (Carbon Washout Poly Tanks for S-1504 Tank)**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	Demonstrate no detectable emissions using Method 21? 61.345(a)(1)(i) required for the container 61.345(a)(3)(i) required for the enclosure	Y	
	Inspection per Method 21 required initially, and annually thereafter? 61.345(a)(1)(i) required for the container 61.345(a)(3)(i) required for the enclosure	Y	
	Each opening to be kept closed, gasketed, & latched at all times that waste is present within, except when the opening is in use? 61.345(a)(1)(ii) required for the container 61.345(a)(3) Not required for the enclosure	Y	
	Are there requirements that are unique to this type of WMU? 61.345(a)(2) Load using a submerged fill pipe	Y	
	Are there conditions for which vapors are not required to be routed to a control device? 61.345(a)(3) Not required at any time other than when the container is open while waste is being treated	Y	
	What is required for WMUs not routed to a control device? 61.345(a)(3) routing to a control device is not required for containers that are kept closed while waste is being treated	Y	
	Visual inspection initially, and quarterly thereafter, to ensure that the cover and all openings are closed & gasketed properly? 61.345(b) required for the container 61.345(b) required for the enclosure	Y	
	First attempt at repair of broken seal or gasket or other problem (including detectable emissions) to be made within 15 days? 61.345© required for the container 61.345© required for the enclosure	Y	
	Delay of repair allowed? 61.345© yes, for the container, per 61.350 61.345© yes, for the enclosure, per 61.350	Y	
61.349	Closed vent system requirements? 61.349 no detectable emissions (500 ppmv), gas-tight gauging & sampling devices, etc.	Y	
	Control device requirements? 61.349 95% efficiency or equivalent with specified monitoring, recordkeeping & reporting	Y	

**IV. Source-Specific Applicable Requirements**

**Table IV.G.1.8 Wastewater  
 Source-specific Applicable Requirements**

**Containers (Portable Wastewater Handling Units) Cluster 60b**

**Bins, Drums, Vacuum Trucks, S-6250 Oil Water Separator Tank abated by  
 A-0630 and A-0631 Carbon Canisters, Vessels 1A & B and 2A and B  
 (Carbon Washout Poly Tanks for S-1504 Tank)**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	Must the closed vent system operate with no detectable emissions (< 500 ppmw)?	61.349(a)(1)(i) required Y	
	How is leak-tightness of the closed vent system inspected?	61.349(a)(1)(i) initially & annually, per Method 21 Y	
	Must all gauging & sampling devices be gas-tight, and closed except when in use?	61.349(a)(1)(iii) required Y	
	Must pressure-relief devices be closed and sealed during normal operations?	61.349(a)(1)(iv) required Y	
	What is required if the control device is an alternative technology?	61.349(a)(2)(i)&(ii) refer to section in regulation Y	
	Must the closed vent system & control device operate at all times when waste is in the WMU?	61.349(b) required, except when maintenance/repair of the WMU requires shutdown of the control device Y	
	What is required to demonstrate compliance of a control device that is not a flare?	61.349© either engineering calculations or performance tests Y	
	Can performance tests be required for control devices?	61.349(e) perform performance tests of the control device upon the request of the Administrator Y	
	What visual inspections are required for the closed vent system and control device?	61.349(f) inspect initially & annually for visible defects Y	
	If defects are found during an inspection, how quickly must they be repaired?	61.349(g) first attempt within 5 days final repair within 15 days; unless delay allowed per 61.350 Y	
	Must control devices be monitored?	61.349(h) required, per 61.354© Y	
61.350	When is a delay of repair allowed, and when must the delayed repair be complete?	61.350 delay of repair is allowed if repair is technically impossible without a shutdown; repair to be complete by the end of the next shutdown Y	

**IV. Source-Specific Applicable Requirements**

**Table IV.G.1.8 Wastewater  
 Source-specific Applicable Requirements**

**Containers (Portable Wastewater Handling Units) Cluster 60b**

**Bins, Drums, Vacuum Trucks, S-6250 Oil Water Separator Tank abated by  
 A-0630 and A-0631 Carbon Canisters, Vessels 1A & B and 2A and B  
 (Carbon Washout Poly Tanks for S-1504 Tank)**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date	
61.353	What are the responsibilities associated with approval of alternative technologies?	61.353 the person requesting the alternative must show equivalency; and the Administrator must publish any approval in the Federal Register	Y	
61.354	Is monitoring required for control devices?	61.354© daily inspect the continuous monitoring devices specified herein, except as specified in 61.354(d) & (e)	Y	
	Are there control devices that do not require continuous data recorders?	61.354(d) carbon adsorption that is not regenerated on site may be monitored without a continuous recorder; or not monitored if replaced on a sufficiently frequent interval	Y	
	May alternative parameters be monitored in lieu of those specified?	61.354(e) allowed if adequacy of the alternative is demonstrated	Y	
	Are inspections required for by-pass lines in closed vent systems?	61.354(f) inspect daily if using a flow indicator <u>or</u> inspect monthly if using car-seal/lock-&-key	Y	
	Is additional monitoring required for systems maintained at negative pressure?	61.354(g) continuously monitor the system pressure	Y	
61.355	Procedure for detecting emissions	61.355(h) per Method 21	Y	
	Procedure for performance testing of control devices	61.355(i) for 61.349(a)(2) to demonstrate compliance with reduction efficiency	Y	
61.356	How long are records to be kept?	61.356(a) keep all records	Y	
	Are records required for the design of the control equipment (e.g., control devices, floating roofs, etc.)?	61.356(d) for 61.343 – 61.347 required, keep for the life of the equipment	Y	
	Are records required documenting the performance of control devices?	61.356(f) for 61.349 required, keep for the life of the control device	Y	
	Are records required for visual inspections and repairs?	61.356(g) for 61.343 – 61.347 required only when defects are found	Y	

**IV. Source-Specific Applicable Requirements**

**Table IV.G.1.8 Wastewater  
 Source-specific Applicable Requirements**

**Containers (Portable Wastewater Handling Units) Cluster 60b**

**Bins, Drums, Vacuum Trucks, S-6250 Oil Water Separator Tank abated by  
 A-0630 and A-0631 Carbon Canisters, Vessels 1A & B and 2A and B  
 (Carbon Washout Poly Tanks for S-1504 Tank)**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
	Are records required for Method 21 leak inspections and repairs? 61.356(h) for 61.343 – .347, 61.349 required for each inspection	Y	
	Are records of startup/shutdown and monitoring data required for control devices? 61.356(j) for 61.349 required	Y	
	Are records of monitoring data required for systems maintained under negative pressure? 61.356(m) for 61.343 – 61.347 required	Y	
<b>Condition #12842</b>	<b>Permit condition applies as follows:</b>		
Part 1	Applies to S-6250 abated by A0630 and A0631 S-6250 vented to abatement at all times	Y	
Part 2	Applies to S-6250 abated by A0630 and A0631 A-0630 Carbon Replacement Requirement	Y	
Part 3	Applies to S-6250 abated by A0630 and A0631 A-0631 Carbon Replacement Requirement	Y	
Part 4	Applies to S-6250 abated by A0630 and A0631 Limits apply to non-methane HC emissions	Y	
Part 5	Applies to S-6250 abated by A0630 and A0631 Carbon Monitoring Requirement	Y	
Part 6	Applies to S-6250 abated by A0630 and A0631 Recordkeeping for carbon life	Y	
Part 7	Applies to S-6250 abated by A0630 and A0631 Record keeping	Y	
Part 8	Applies to S-6250 abated by A-0630 and A-0631 Recordkeeping	Y	
Condition #18137	Throughput Limit for S-6250	N	

#### IV. Source-Specific Applicable Requirements

**Table IV.H.1.1 VOC (Cold Cleaners)**

**Table IV.H.1.1 VOC Sources  
 Source-specific Applicable Requirements**

**Cold Cleaners**

**S-4420 (Exempt), S-4426, S-4427, S-4428**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<b>BAAQMD Regulation 8 Rule 1</b>	<b>Organic Compounds – General Provisions (6/15/94)</b>		
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	
<b>BAAQMD Regulation 8 Rule 16</b>	<b>Organic Compounds – Solvent Cleaning Operations (9/16/98)</b>		
8-16-118	Limited Exemption, Compounds with Low Volatility	N	
8-16-303	Cold Cleaner Requirements	N	
8-16-303.1	General Operating Requirements	N	
8-16-303.1.1	Maintain Proper Working Order	Y	
8-16-303.1.2	Leak Repair Requirement	Y	
8-16-303.1.3	Solvent Storage or Disposal – Evaporation Prevention	Y	
8-16-303.1.4	Waste Solvent Disposal	N	
8-16-303.1.4(a)	Covered Containers for Waste Solvent Awaiting Pick-up	N	
8-16-303.1.5	Solvent Evaporation Minimization Devices shall not be Removed	N	
8-16-303.1.6	Solvent Spray Requirements	N	
8-16-303.2	Cold Cleaner Operating Requirements	Y	
8-16-303.2.1	Solvent shall be Drained from Cleaned Parts	Y	
8-16-303.2.2	Solvent Agitation	Y	
8-16-303.2.3	Solvent Cleaning of Porous or Absorbent Materials is Prohibited	Y	
8-16-303.3	Cold Cleaner General Equipment Requirements	N	
8-16-303.3.1	Container	Y	
8-16-303.3.2	Solvent Evaporation Reduction for Idle Equipment	N	
8-16-303.3.3	Used Solvent Returned to Container	N	
8-16-303.3.4	Label Stating Operating Requirements	Y	
8-16-501	Solvent Records	N	
<b>SIP Regulation 8 Rule 16</b>	<b>Organic Compounds – Solvent Cleaning Operations (6/15/94)</b>		



#### IV. Source-Specific Applicable Requirements

**Table IV.H.1.1 VOC Sources  
 Source-specific Applicable Requirements**

**Cold Cleaners**

**S-4420 (Exempt), S-4426, S-4427, S-4428**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-16-303	Cold Cleaner Requirements	Y	
8-16-303.1	General Operating Requirements	Y	
8-16-303.1.4	Waste Solvent Disposal	Y	
8-16-303.1.5	Solvent Evaporation Minimization Devices shall not be Removed	Y	
8-16-303.1.6	Solvent Spray Requirements	Y	
8-16-303.3.2	Solvent Evaporation Reduction for Idle Equipment	Y	
8-16-303.3.3	Used Solvent Returned to Container	Y	
8-16-501	Solvent Records	Y	
8-16-501.2	Facility-wide Quarterly Solvent Usage Records	Y	
<b>Condition #17527</b>	Applies to S-4426 S-4427, S-4428		
Part 1	High IBP (> 248 F) solvent restriction	Y	
Part 2	Annual solvent throughput limit	Y	
Part 3	Recordkeeping requirement	Y	
Condition #18137	Throughput Limits	N	

**Table IV.H.2.1 VOC Sources (Fugitive Components Applicability Matrix)**

**Table IV.H.2.1 VOC Sources  
 Source-specific Applicable Requirements**

**Fugitive Components Applicability Matrix**

Process Unit	BAAQMD Regulation 8-28	BAAQMD Regulation 8-18	NSPS Part 60, Subpart GGG; BAAQMD Regulation 10-59	NSPS Part 60, Subpart VV; BAAQMD Regulation 10-52	NESHAP Part 61, Subpart J	NESHAP Part 61, Subpart FF; BAAQMD Regulation 11-12	NESHAP Part 61, Subpart V; BAAQMD Regulation 11-7	NESHAP Part 63, Subpart CC	BAAQMD Condition #8869
101-FCC Reactor		x	x	x				x	x
102-MTBE Plant		x	x	X				x	
104-FCC Gas Recovery Unit		x	x	X				x	

**IV. Source-Specific Applicable Requirements**

**Table IV.H.2.1 VOC Sources  
 Source-specific Applicable Requirements**

**Fugitive Components Applicability Matrix**

Process Unit	BAAQMD Regulation 8-28	BAAQMD Regulation 8-18	NSPS Part 60, Subpart GGG; BAAQMD Regulation 10-59	NSPS Part 60, Subpart VV; BAAQMD Regulation 10-52	NESHAP Part 61, Subpart J	NESHAP Part 61, Subpart FF; BAAQMD Regulation 11-12	NESHAP Part 61, Subpart V; BAAQMD Regulation 11-7	NESHAP Part 63, Subpart CC	BAAQMD Condition #8869
105-FCC H2S Removal		x							x
106-FCC Caustic Treating		x						x	x
107-FCC CO Boiler and Misc		x							x
108-DeIsobutanizer		x	x	x				x	x
110-Propylene Polymer		x							
120-Pole Yard Tanks		x			x applicable components– only – Benzene service		x applicable components– only – Benzene service	x	
121-LPG Spheres & Racks		x							
127-Sulfur Recovery Unit		x							
135/136 C5 SHU/TAME Plant		x	x	x				x	x
137-H2SO4 Alkylation – new		x	x	x				x	x
305-Boiler Shop Furnace		x							
401-Solvent Deasphalting (SDA)		x	x	x				x	
402-H2 Mfg. Plant A & B Train		x							
403-TKC Reaction/Distillation		x	x	x				x	
404-TKN Reaction		x						x	
405-IsoCracking Reaction		x						x	
406-Iso Distillation/Gas Recovery		x						x	
407-NH3-H2S Recovery		x							

**IV. Source-Specific Applicable Requirements**

**Table IV.H.2.1 VOC Sources  
 Source-specific Applicable Requirements**

**Fugitive Components Applicability Matrix**

Process Unit	BAAQMD Regulation 8-28	BAAQMD Regulation 8-18	NSPS Part 60, Subpart GGG; BAAQMD Regulation 10-59	NSPS Part 60, Subpart VV; BAAQMD Regulation 10-52	NESHAP Part 61, Subpart J	NESHAP Part 61, Subpart FF; BAAQMD Regulation 11-12	NESHAP Part 61, Subpart V; BAAQMD Regulation 11-7	NESHAP Part 63, Subpart CC	BAAQMD Condition #8869
408-Isomax H2 Booster	x	x							
409-Isomax Tar Stripper		x							
410-Misc Utilities		x							
412-4 H2S Plant		x							
413-Flare Gas Recovery		x							
414-RLOP LNC Plant		x						x	
415-RLOP LNC Distillation Section		x	x	x				x	
416-RLOP LNHF Plant		x						x	
417-RLOP HNC Plant		x						x	
418-RLOP HNC Distillation Section		x						x	
419-RLOP HNHF Plant		x	x	x				x	
420-RLOP LNHF Distillation Section		x	x	x				x	
421-RLOP No 2 NH3-H2S Removal		x	x	x				x	
422-RLOP Gas Recovery Unit		x	x	x				x	
423-H2 Recovery Unit		x	x	x					x
425-RLOP Flares		x							
429-H2S Mfg. Plant B Train		x							
708-Wax Rerun		x						x	
710-No 2 Wax Deoiler	x	x						x	
712-Thermoform Kiln		x							

#### IV. Source-Specific Applicable Requirements

**Table IV.H.2.1 VOC Sources  
 Source-specific Applicable Requirements**

#### Fugitive Components Applicability Matrix

Process Unit	BAAQMD Regulation 8-28	BAAQMD Regulation 8-18	NSPS Part 60, Subpart GGG; BAAQMD Regulation 10-59	NSPS Part 60, Subpart VV; BAAQMD Regulation 10-52	NESHAP Part 61, Subpart J	NESHAP Part 61, Subpart FF; BAAQMD Regulation 11-12	NESHAP Part 61, Subpart V; BAAQMD Regulation 11-7	NESHAP Part 63, Subpart CC	BAAQMD Condition #8869
906-No 4 Rheniformer		x			x applicable components – only – Benzene service		x applicable components – only – Benzene service	x	
950-Jet Hydrotreater		x						x	
951-Naptha Hydrotreater		x			x applicable components – only – Benzene service		x applicable components – only – Benzene service	x	
952-No 5 Rheniformer		x						x	
953-No 5 H2S & Flare Gas Recovery		x							
954-LSFO H2 Booster		x							
955-No 4 Crude Unit	x	x			x applicable components – only – Benzene service	x applicable components – only-FF service	x applicable components – only – Benzene service	x	
956-Diesel Hydrotreater		x	x	x				x	
957-LSFO Utilities		x						x	
962-Penhex Isomerization		x	x	x	x applicable components – only – Benzene service		x applicable components – only – Benzene service	x	x
966-Naptha Splitter		x	x	x				x	
967-Reformate Splitter		x	x	x	x applicable components – only – Benzene service		x applicable components – only – Benzene service	x	
969-Caustic Scrubber		x	x	x					

**IV. Source-Specific Applicable Requirements**

**Table IV.H.2.1 VOC Sources  
 Source-specific Applicable Requirements**

**Fugitive Components Applicability Matrix**

Process Unit	BAAQMD Regulation 8-28	BAAQMD Regulation 8-18	NSPS Part 60, Subpart GGG; BAAQMD Regulation 10-59	NSPS Part 60, Subpart VV; BAAQMD Regulation 10-52	NESHAP Part 61, Subpart J	NESHAP Part 61, Subpart FF; BAAQMD Regulation 11-12	NESHAP Part 61, Subpart V; BAAQMD Regulation 11-7	NESHAP Part 63, Subpart CC	BAAQMD Condition #8869
1001-Util Gen	x					x applicable components only-FF service			
1002-No 1 Power Plant	x	x							
1007-Cogen 1000 Train		x							
1008-Cogen 2000 Train		x							
1010-Cogen Utilities		x							
1603-No 1 Pump Station		x						x	
1604- Office & Main Tank Area, 2 & 7 Pump Station		x						x	
1611-RPH – Shore Tank Area	x	x						x	
1615-RPH-Ethyl Plant		x						x	
1617-RPH-General		x						x	
1618-RPH-21 Pump Station		x						x	
1619-RPH- 21A Pump Station		x						x	
1620-RPH-SP Hill, 13 Pump Station		x						x	
1621-RPH-SPMain Tank Field/Ethyl Roads		x						x	
1622-RPH-W. Main/Bldg., 18 Pump Station		x						x	
1624-RPH-Ethyl/Standard Roads, 17 Pump Station	x	x						x	
1626-CPH-Quarry Tanks, 8 Pump Station		x						x	

#### IV. Source-Specific Applicable Requirements

**Table IV.H.2.1 VOC Sources  
 Source-specific Applicable Requirements**

##### Fugitive Components Applicability Matrix

Process Unit	BAAQMD Regulation 8-28	BAAQMD Regulation 8-18	NSPS Part 60, Subpart GGG; BAAQMD Regulation 10-59	NSPS Part 60, Subpart VV; BAAQMD Regulation 10-52	NESHAP Part 61, Subpart J	NESHAP Part 61, Subpart FF; BAAQMD Regulation 11-12	NESHAP Part 61, Subpart V; BAAQMD Regulation 11-7	NESHAP Part 63, Subpart CC	BAAQMD Condition #8869
1627-CPH-Separators, 24 Pump Station		x						x	

**Table IV.H.2.1 VOC Sources (Fugitive Components)**

**Table IV.H.2.1 VOC Sources  
 Source-specific Applicable Requirements**

##### Fugitive Components

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<b>BAAQMD Regulation 8 Rule 18</b>	<b>Organic Compounds-Equipment Leaks (3/18/98)</b>		
8-18-100	General/Applicability	Y	
8-18-200	Definitions	Y	
8-18-301	General Standard	Y	
8-18-302	Valves	Y	
8-18-303	Pumps and compressors	Y	
8-18-304	Connections	Y	
8-18-305	Pressure relief devices	Y	
8-18-306	Non-repairable equipment	Y	
8-18-307	Liquid Leaks	Y	
8-18-308	Alternate compliance	Y	
8-18-401	Inspection	Y	
8-18-402	Identification	Y	
8-18-403	Visual inspection schedule	Y	
8-18-404	Alternate inspection schedule	Y	
8-18-405	Alternate inspection reduction plan	Y	
8-18-406	Interim Compliance	Y	
8-18-501	Portable Hydrocarbon Detector	Y	
8-18-502	Records	Y	

#### IV. Source-Specific Applicable Requirements

**Table IV.H.2.1 VOC Sources  
 Source-specific Applicable Requirements**

**Fugitive Components**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<b>BAAQMD Regulation 8 Rule 28</b>	<b>Episodic Releases From Pressure Relief Devices at Petroleum Refineries and Chemical Plants (3/18/98)</b>	N	
8-28-100	General/Applicability	N	
8-28-200	Definitions	N	
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 Rel-ases – Pressure Relief Devices at Petroleum Refineries	Y	
8-28-401	Reporting at Petroleum Refineries and Chemical Plants	N	
8-28-402	Inspection	N	
8-28-403	Records	N	
8-28-404	Identification	N	
8-28-405	Prevention Measures Procedures	N	
<b>SIP Regulation 8 Rule 28</b>	<b>Pressure Relief Valves at Petroleum Refineries and Chemical Plants (6/15/94)</b>		
8-28-100	General/Applicability	Y	
8-28-200	Definitions	Y	
8-28-301	Pressure Relief Valve	Y	
8-28-401	Reporting	Y	
8-28-402	Inspection	Y	
8-28-403	Records	Y	
8-28-404	Identification	Y	
<b>NSPS Part 60 Subpart GGG; BAAQMD Regulation 10-59</b>	<b>Standards of Performance for Equipment Leaks (Fugitive Emission Sources) (5/30/84); BAAQMD Standards of Performance for New Stationary Sources (4/19/89)</b>		
40 CFR 60.590	Applicability	Y	
60.591	Definitions	Y	
60.592	Subject to provisions of Part 60, Subpart VV	Y	
60.593	Exceptions	Y	
BAAQMD Regulation 10-59	Incorporates by reference 40 CFR 60 Subpart GGG	Y	

#### IV. Source-Specific Applicable Requirements

**Table IV.H.2.1 VOC Sources  
 Source-specific Applicable Requirements**

**Fugitive Components**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<b>NSPS Part 60 Subpart QQQ; BAAQMD Regulation 10 Rule 69</b>	<b>Standards of Performance for VOC Emission From Petroleum Refinery Wastewater Systems (7/18/95);</b>	Y	
	<b>BAAQMD Standards of Performance for New Stationary Sources (12/20/95)</b> [see Wastewater Cluster 20q for QQQ exemption requirements]		
<b>BAAQMD Regulation 10 Rule 69</b>	Incorporates by reference 40 CFR 60 Subpart QQQ	Y	
60.692-1	Standards: General	Y	
60.692-2	Standards: Individual drain systems	Y	
60.692-3	Standards: Oil water separators	Y	
60.692-4	Standards: Aggregate facilities	Y	
60.692-5	Standards: Control vent systems and control devices	Y	
60.692-6	Standards: Delay of repair	Y	
60.692-7	Standards: Delay of compliance	Y	
60.693-1	Alternative standards for individual drain systems	Y	
60.693-2	Alternative standards for oil water separators	Y	
<b>NSPS Part 60 Subpart VV; BAAQMD Regulation 10 Rule 52</b>	<b>Standards of Performance for Equipment Leaks (Fugitive Emission Sources) (8/18/95);</b>		
	<b>BAAQMD Standards of Performance for New Stationary Sources (12/20/95)</b>		
60.480	Applicability	Y	
60.481	Definitions	Y	
60.482-1	General Standards	Y	
60.482-2	Pump Standards:		
60.482-2(a)(1)	Monthly monitoring of each pump, except for 60.482-1©, 60.482-2(d), (e), or (f)	Y	
60.482-2(a)(2)	Weekly visual inspection of each pump, except for (e), (f), or (g)	Y	
60.482-2(b)	Air measurement >10,000 ppm or dripping liquid indicates leak	Y	
60.482-2 ©	Pump leak repair period	Y	
60.482-2(d)	Requirements for Dual-Mechanical seal pump	Y	
60.482-2(e)	No detectable emission designation: <500 ppm	Y	
60.482-2(f)	Requirements for Closed Vent Systems	Y	
60.482-3	Compressor Standards	Y	
60.482-4	Requirements for Pressure Relief Devices in gas/vapor service	Y	
60.482-4(a)	Pressure relief valve (gas/vapor) < 500 ppm above background	Y	



#### IV. Source-Specific Applicable Requirements

**Table IV.H.2.1 VOC Sources  
 Source-specific Applicable Requirements**

**Fugitive Components**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.482-5	Requirements for Sampling connecting systems	Y	
60.482-6	Requirements for Open-ended valves or lines	Y	
60.482-7	Valve Standards:		
60.482-7(b) and (c)	Air measurement >10,000 ppm or dripping liquid indicates leak	Y	
60.482-7(a)-(c)	Monitor monthly unless 2 successive months <10,000 ppm, then monitor first month of each quarter. If leak >10,000 ppm is detected, resume monthly monitoring	Y	
60.482-7 (d)	Valve leak repair period	Y	
60.482-7(e)	Methods for first attempts or minimizing valve leaks	Y	
60.482-7(f)	Designated no-emissions (<500 ppm) valves with no external actuating mechanisms in contact with process fluid, may revert to annual monitoring, or that requested by the Administrator	Y	
60.482-7(g)	Allows relief from 60.482.7(a) monitoring if designated as unsafe-to-monitor. BAAQMD Regulation 8-18 does not allow this relief.	Y	
60.482-8	Pumps and Valves in heavy liquid service, pressure relief devices in light and heavy liquid service and flanges and other connectors	Y	
60.482-8(a)	Pumps and valves in heavy liquid service, Pressure Relief devices (light or heavy liquid), Flanges, Connectors leak shall be measured for leak in 5 days if detected by inspection, or if a leak is seen, heard, or smelled	Y	
60.482-9(b)	Repair may be delayed for isolated equipment	Y	
60.482-9©	Delay of repair for valves is 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 as soon as practicable, but within 6 months	Y	
60.482-10	Requirements for Closed-vent systems and control devices	Y	
60.482-10©	Combustion devices ≥95% destruction efficiency or ≥0.75 seconds and ≥816°C	Y	
60.482-10(g)	Closed-vent systems leak ≥ 500 ppm and visible leak indication. First attempt to repair leak (visible or ≥ 500 ppm) within 5 days, repair complete within 15 days, except as allowed for in 60.482-10(h)	Y	
60.483-1 60.483-2 8-18-404.1	If a process unit has 5 consecutive quarters with <2% of valves leaking at >10,000 ppm, then any individual valve which measures <100 ppm for 5 consecutive quarters may be monitored annually	Y	
60.484	Equivalence of means of emission limitation	Y	
60.485	Test Methods and Procedures	Y	
60.486	Record Keeping	Y	
60.487	Reporting	Y	

**IV. Source-Specific Applicable Requirements**

**Table IV.H.2.1 VOC Sources  
 Source-specific Applicable Requirements**

**Fugitive Components**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<b>BAAQMD Regulation 10 Rule 52</b>	Incorporates by reference 40 CFR 60 Subpart VV	Y	
<b>NESHAP Part 61 Subpart J</b>	<b>National Emission Standards for Equipment Leaks (Fugitive Emission Sources) of Benzene (6/6/84)</b>		
61.110	Applicability	Y	
61.111	Definitions	Y	
61.112	Subject to provisions of Part 61, Subpart V	Y	
<b>NESHAP Part 61 Subpart FF; BAAQMD Regulation 11 Rule 12</b>	<b>National Emission Standard for Benzene Waste Operations (3/7/90); BAAQMD National Emission Standard for Benzene Emissions from Benzene Transfer Operations and Benzene Waste Operations (4/19/89)</b>		
61.340	Applicability	Y	
61.341	Definitions	Y	
61.349	Standards: Closed vent systems and control devices	Y	
61.349(a)	Closed vent system and control device used to comply with standards of this subpart shall be properly designed, installed, operated, and maintained.	Y	
61.349(a)(1)(i)	Closed vent system designed to operate with no detectable emissions (<500 ppm).	Y	
61.349(a)(1)(iii)	All gauging and sampling devices shall be gas-tight except when gauging or sampling is taking place.	Y	
61.349(a)(1)(iv)	For each closed-vent system, one or more devices which vent directly to the atmosphere may be used on the closed-vent system provided each device remains in a closed, sealed position during normal operations, except when the device needs to open to prevent physical damage or permanent deformation of the closed-vent system resulting from malfunction of the unit.	Y	
61.349(b)	Closed vent system and control device used to comply with this subpart shall be operated at all times when waste is placed in the WMU vented to the control device except when maintenance or repair of the WMU cannot be completed without a shutdown.	Y	
61.349(c)	Demonstration of compliance for control devices, other than flares	Y	
61.349(d)	Demonstration of compliance for flares	Y	
61.349(e)	Administrator may request demonstration of control device at any time	Y	
61.349(f)	Each closed-vent system and control device shall be inspected quarterly.	Y	
61.349(g)	If visible defects are observed, repair within 5 calendar days, as soon as practicable, but not later than 15 calendar days.	Y	
61.356(h)	Recordkeeping	Y	

#### IV. Source-Specific Applicable Requirements

**Table IV.H.2.1 VOC Sources  
 Source-specific Applicable Requirements**

**Fugitive Components**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
61.357 (d)(6)	The owner/operator shall submit quarterly a certification that all of the required inspections have been carried out.	Y	
<b>BAAQMD Regulation 11 Rule 12</b>	<b>Incorporates by reference 40 CFR 61 Subpart FF</b>	N	
<b>NESHAP Part 61 Subpart V; BAAQMD Regulation 11 Rule 7</b>	<b>National Emission Standards for Equipment Leaks (Fugitive Emission Sources) (6/6/84); Hazardous Pollutants: Benzene (3/6/85)</b>		
40 CFR 61.240	Applicability: VHAP service	Y	
61.241	Definitions	Y	
61.242-1	General Standards	Y	
61.242-2	Pump Standards		
61.242-2(a)(1)	Monthly monitoring of each pump, except for 61.242-2(d), (e), or (f)	Y	
61.242-2(a)(2)	Weekly visual inspection of each pump, except for (e), (f), or (g)	Y	
61.242-2(b)	Air measurement >10,000 ppm or dripping liquid indicates leak	Y	
61.242-2 ©	Pump leak repair period	Y	
61.242-2(d)	Requirements for Dual-Mechanical seal pump	Y	
61.242-2(e)	No detectable emission designation: <500 ppm	Y	
61.242-2(f)	Requirements for Closed Vent Systems	Y	
61.242-2(g)	I For If unsafe to monitor sites, monitor as frequently as practicable.	Y	
61.242-2(h)	Monthly visual inspections for un-manned sites	Y	
61.242-3	Compressor Standards	Y	
61.242-4	Requirements for Pressure Relief Devices in gas/vapor service	Y	
61.242-4(a)	Pressure relief valve (gas/vapor) leak ≥ 500 ppm above background	Y	
61.242-5	Requirements for Sampling connecting systems	Y	
61.242-6	Requirements for Open-ended valves or lines	Y	
61.242-7	Valve Standards		
61.242-7(a)-(c)	Monitor monthly unless 2 successive months <10,000 ppm, then monitor first month of each quarter. If leak >10,000 ppm is detected, resume monthly monitoring	Y	
61.242-7(b) and (c)	b) If an instrument reading of 10,000 ppm or greater is measured, a leak is detected.  ©(1) Any valve for which a leak is not detected for 2 successive months may be monitored the first month of every quarter, beginning with the next quarter, until a leak is detected.	Y	

#### IV. Source-Specific Applicable Requirements

**Table IV.H.2.1 VOC Sources  
 Source-specific Applicable Requirements**

**Fugitive Components**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
61.242-7(d)	First attempt at repair	Y	
61.242-7(e)	Methods for first attempts or minimizing valve leaks	Y	
61.242-7(f)	Designated no-emissions (<500 ppm) valves with no external actuating mechanisms in contact with process fluid, may revert to annual monitoring, or that requested by the Administrator	Y	
61.242-7(g)	Allows relief from 61.242.7(a) monitoring if designated as unsafe-to-monitor	Y	
61.242-8	Pressure Relief Devices in liquid service and Flanges and other Connectors Standards	Y	
61.242-8(a)	Pumps and valves in heavy liquid service, Pressure Relief devices (light or heavy liquid), Flanges, Connectors leak shall be measured for leak in 5 days if detected by inspection, or if a leak is seen, heard, or smelled	Y	
61.242-9	Product accumulator vessels shall be equipped with a closed-vent system and control device	Y	
61.242-10(b)	Repair may be delayed for isolated equipment	Y	
61.242-10©	Delay of repair for valves is only allowed under certain circumstances	Y	
61.242-10(d)(1)	Only dual-mechanical seal pumps qualify for delay of repair	Y	
61.242-10(d)(2)	Pump leaks must be repaired within 6 months	Y	
61.242-11	Requirements for closed-vent systems and control devices	Y	
61.242-11©	Combustion devices $\geq 95\%$ destruction efficiency or $\geq 0.50$ seconds and $\geq 760^\circ\text{C}$	Y	
61.242-11(f)	Closed-vent systems leak $\geq 500$ ppm and visible leak indication. First attempt to repair leak (visible or $\geq 500$ ppm) within 5 days, repair complete within 15 days, except as allowed for in 60.482-10(h)	Y	
61.243-1, 61.243-2, and BAAQMD 8-18-404.1	If a process unit has 5 consecutive quarters with <2% of valves leaking at >10,000 ppm, then any individual valve which measures <100 ppm for 5 consecutive quarters may be monitored annually	Y	
61.245	Test Methods and Procedures	Y	
61.246	Recordkeeping	Y	
61.247	Reporting	Y	
<b>BAAQMD Regulation 11 Rule 7</b>	<b>General: Equipment must be uniquely marked</b>		
11-7-100	General/Applicability	N	
11-7-200	Definitions	N	
11-7-301	Equipment marking	N	
11-7-302	Pump Standards	N	
11-7-303	Compressor Standards	N	

#### IV. Source-Specific Applicable Requirements

**Table IV.H.2.1 VOC Sources  
 Source-specific Applicable Requirements**

**Fugitive Components**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
11-7-304	Pressure Relief Devices in Gas/Vapor Service Standards	N	
11-7-305	Sampling Connecting System Standards	N	
11-7-306	Open-ended Valve Standards	N	
11-7-307	Valve Standards	N	
11-7-308	Pressure Relief Devices in Liquid Service, Flanges and Other Connector Standards	N	
11-7-309	Product Accumulator Vessel Standards	N	
11-7-310	Delay of Repair Limitations	N	
11-7-311	Closed Vent Systems and Control Device Standards	N	
11-7-312	Alternative Standards for Valves in Benzene Service	N	
11-7-313	Alternative Standards for Valves – Skip Period Leak Detection and Repair	N	
11-7-314	Alternative Means of Emission Limitation	N	
11-7-601	Monitoring shall be conducted as specified in 40 CFR 61 and the Manual of Procedures	N	
<b>NESHAP Part 63 Subpart CC</b>	<b>National Emission Standards for Hazardous Air Pollutants from Petroleum Refineries</b>		
63.640(a)	Applicability	Y	
63.641	Definitions	Y	
63.642(e)	Keep records for 5 years	Y	
63.648(a)	Equipment leak standards. Comply with 40 CFR 60, Subpart VV	Y	
63.648(b)	Use of monitoring data from prior to 8/18/95 to qualify for less stringent monitoring frequency	Y	
63.648©	Alternate requirements	Y	
63.648(d)	New sources	Y	
63.648(e)	Reciprocating pumps in heavy liquid service	Y	
63.648(f)	Reciprocating pumps in light liquid service	Y	
63.648(g)	Compressors in hydrogen service	Y	
63.648(h)	Records	Y	
63.648(i)	Reciprocating compressors exemption	Y	
63.649	Alternate means of emission limitation	Y	
63.654(d)	Recordkeeping and reporting	Y	
Condition #8869	Applies to S-32103	Y	
Condition 22003	Applies to A-414, A-620 – 625, A-627, A-628	Y	
Condition #23201	Applies to A-620, A-622, A-623, A-624, A-627, and A-628	Y	

#### IV. Source-Specific Applicable Requirements

**Table IV.H.2.1 VOC Sources  
 Source-specific Applicable Requirements**

**Fugitive Components**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 1	Sources subject to NSPS Subparts A and J	Y	

**Table IV.H.31. VOC Sources (Paint Booth)**

**Table IV.H.3.1 VOC Sources  
 Source-specific Applicable Requirements**

**Paint Booth and Printers**

**S-4410, S-4424, S-7601**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<b>BAAQMD Regulation 8 Rule 1</b>	<b>Organic Compounds – General Provisions (11/4/98)</b>		
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	
<b>BAAQMD Regulation 8 Rule 4</b>	<b>Organic Compounds – General Solvent and Surface Coating Operations (5/15/96)</b>		
8-4-302	Solvents and Surface Coating Requirements	N	
8-4-302.1	Emissions less than 5 tons per year	N	
8-4-302.2	Abatement $\geq$ 85%	N	
8-4-302.3	VOC $\leq$ 3.5 lb/gal	N	
8-4-312	Solvent Evaporation Loss Minimization	N	
8-4-312.1	Storage and Disposal of Solvent Impregnated Cloth or Paper	N	
8-4-312.2	No Organic Compounds for Cleanup of Spray Equipment Unless Controls are Used	N	
8-4-312.3	Closed Containers for Spent or Fresh Organic Solvents	N	
8-4-501	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	Records Retention	Y	

**IV. Source-Specific Applicable Requirements**

**Table IV.H.3.1 VOC Sources  
 Source-specific Applicable Requirements**

**Paint Booth and Printers**

**S-4410, S-4424, S-7601**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
<b>SIP Regulation 8 Rule 4</b>	<b>Organic Compounds – General Solvent and Surface Coating Operations (12/20/95)</b>		
8-4-302	Limitation on Solvents and Surface Coatings	Y	
<b>BAAQMD Regulation 8 Rule 19</b>	<b>Organic Compounds – Surface Coating of Miscellaneous Metal Parts and Products (12/20/95) (not applicable to S-7601)</b>		
8-19-110	Exemption, Low usage Coatings	Y	
8-19-302	Coating VOC Limits	Y	
8-19-302.1	Baked Coating	Y	
8-19-302.2	Air-Dried Coating	Y	
8-19-307	Prohibition of Specification	Y	
8-19-312	Specialty Coating VOC Limits	Y	
8-19-312.1 through 312.13	Specific Baked and Air-Dried VOC content limits	Y	
8-19-313	Spray Application Equipment Limitations	Y	
8-19-313.1	HVLP Spray; or	Y	
8-19-313.2	Electrostatic Spray; or	Y	
8-19-313.3	Detailing Gun; or	Y	
8-19-313.4	Other Method Approved in Writing by the APCO	Y	
8-19-320	Solvent Evaporative Loss Minimization	Y	
8-19-320.1	Storage and Disposal of Solvent Impregnated Cloth or Paper	Y	
8-19-320.2	No Organic Compounds for Cleanup of Spray Equipment unless Controls are Used	Y	
8-19-320.3	Closed Containers for Coatings or Solvents Not in Use	Y	
8-19-407	Specialty Coating Petition	Y	
8-19-501	Records	Y	
8-19-501.1	Maintain Data Necessary to Evaluate Compliance	Y	
8-19-501.2	Weekly Coating Usage Records	Y	
8-19-501.3	Daily Recording of Key System Operating Parameters	Y	
8-19-501.4	Monthly Cleaning Solvent Records	Y	
8-19-501.5	Records Retention	Y	
<b>BAAQMD Regulation 8 Rule 31</b>	<b>Organic Compounds – Surface Coating of Plastic Parts and Products (12/20/95) (not applicable to S-7601)</b>		

#### IV. Source-Specific Applicable Requirements

**Table IV.H.3.1 VOC Sources  
 Source-specific Applicable Requirements**

**Paint Booth and Printers**

**S-4410, S-4424, S-7601**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
8-31-111	Exemption, Low usage coatings	Y	
8-31-302	General VOC Limit	Y	
8-31-306	Flexible Coating VOC Limits	Y	
8-31-307	Prohibition of Specification	Y	
8-31-309	Specialty Coating VOC Limits	Y	
8-31-310	Spray Application Equipment Limitations	Y	
8-31-310.1	HVLP Spray; or	Y	
8-31-310.2	Electrostatic Spray; or	Y	
8-31-310.3	Detailing Gun; or	Y	
8-31-310.4	Other Method Approved in Writing by the APCO	Y	
8-31-320	Solvent Evaporative Loss Minimization	Y	
8-31-320.1	Storage and Disposal of Solvent Impregnated Cloth or Paper	Y	
8-31-320.2	No Organic Compounds for Cleanup of Spray Equipment Unless Controls are Used	Y	
8-31-320.3	Closed Containers for Coatings or Solvents Not in Use	Y	
8-31-401	Extreme Performance Coating Petition	Y	
8-31-501	Records	Y	
8-31-501.1	Maintain Data Necessary to Evaluate Compliance	Y	
8-31-501.2	Weekly Coating Usage Records	Y	
8-31-501.3	Daily Recording of Key System Operating Parameters	Y	
8-31-501.4	Monthly Cleaning Solvent Records	Y	
8-31-501.5	Records Retention	Y	
<b>BAAQMD Regulation 8 Rule 32</b>	<b>Organic Compounds – Wood Products Coating (06/19/96) ( not applicable to S-7601)</b>		
8-32-111	Exemption, Small coating operations	Y	
8-32-119	Limited Exemption, Extreme Environmental Conditions	Y	
8-32-301	Spray Application Equipment Limitations	Y	
8-32-302	General Wood Product Limits	N	
8-32-302.1	High Solids Coatings	N	
8-32-302.2	Low Solids Coatings	N	
8-32-303	Furniture, Custom Cabinetry and Custom Architectural Millwork Limits	N	



#### IV. Source-Specific Applicable Requirements

**Table IV.H.3.1 VOC Sources  
 Source-specific Applicable Requirements**

**Paint Booth and Printers**

**S-4410, S-4424, S-7601**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
8-32-303.1	High Solids Coatings	N	
8-32-303.2	Low Solids Coatings	N	
8-32-305	Prohibition of Specification	Y	
8-32-307	Alternative Compliance, Section 8-32-302	N	
8-32-320	Solvent Evaporative Loss Minimization	Y	
8-32-320.1	Storage and Disposal of Solvent Impregnated Cloth or Paper	Y	
8-32-320.2	Closed Containers for Fresh or Spent Solvent	Y	
8-32-320.3	No Organic Compounds for Cleanup of Spray Equipment Unless Controls are Used	Y	
8-32-320.4	Closed Containers for Stripper, Coating, Adhesive, Catalyst or Thinner	Y	
8-32-403	Extreme Environmental Conditions Petition	N	
8-32-404	Alternative Compliance Petition and Approval	N	
8-32-501	Records	N	
8-32-501.1	Maintain Data Necessary to Evaluate Compliance	N	
8-32-501.2	Daily Coating Usage Records	Y	
8-32-501.3	Daily Recording of Key System Operating Parameters	N	
8-32-501.4	Records Retention	Y	
<b>SIP Regulation 8 Rule 32</b>	<b>Organic Compounds – Wood Products Coating (12/20/95) (not applicable to S-7601)</b>		
8-32-111	Exemption, Small coating operations	Y	
8-32-303	General Wood Products Limits	Y	
8-32-303.1	High Solids Coatings	Y	
8-32-303.2	Low Solids Coatings	Y	
8-32-304	Furniture and Custom Architectural Millwork Limits	Y	
8-32-304.1	High Solids Coatings	Y	
8-32-304.2	Low Solids Coatings	Y	
8-32-402	Progress Report	Y	
8-32-501	Recordkeeping Requirements	Y	
8-32-501.1	Maintain Data Necessary to Evaluate Compliance	Y	
8-32-501.3	Daily Recording of Key System Operating Parameters	Y	
8-32-503	Custom Architectural Millwork Recordkeeping Requirements	Y	

**IV. Source-Specific Applicable Requirements**

**Table IV.H.3.1 VOC Sources  
 Source-specific Applicable Requirements**

**Paint Booth and Printers**

**S-4410, S-4424, S-7601**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
<b>Condition #5640</b>	<b>Permit condition applies as follows:</b>		
Part 1	Annual coating usage limit	Y	
Part 2	Hexavalent chrome coating brush application requirement	N	
Part 3	Annual clean-up solvent usage limit.	Y	
Part 4	Recordkeeping requirements	Y	
<b>Condition #21165</b>	<b>Permit condition applies as follows: to S-4424</b>		
Part 1	Annual POC emission limit	N	
Part 2	Daily POC emission limit	N	
Part 3	Toxic emission limit	N	
Part 4	Recordkeeping requirements	Y	
<b>Condition # 22266</b>	<b>Permit condition applies to S-7601</b>		
Part 1	Annual ink usage limit	N	
Part 2	Annual Cleaning solvent usage limit	N	
Part 3	Record keeping requirements	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.

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

Compliance with the throughput limit listed in Table II for S-3100

## VI. PERMIT CONDITIONS

### Condition #469

For S-4038 to S-4046, S-4059 to S-4062, S-4068 to S-4072, S-4093 to S-4095, S-4107, S-4117 to S-4119, S-4127, S-4132, S-4135, S-4153, S-4154, S-4156, S-4157, S-4159, S-4160, S-4161, S-4162, S-4163 to S-4169, S-4171, S-4180, S-4188, S-4189, S-4191 to S-4194, S-4227 to S-4230, S-4233, S-4234, S-4236 to S-4240, S-4250, S-4252, S-4262, S-4265, S-4283, S-4315, S-4330 to S-4343, S-4345, S-4349, S-4396, S-4400, S-4402 to S-4404, S-6005, S-6010, S-6012, S-6013, S-6015 to S-6017, S-6019, S-6039, S-6089:

**CHEVRON REFINERY CAP  
“BUBBLE” PERMIT CONDITION  
APPLICATION #27797  
Last Revised per A/N 19972, 8/1/98**

All criteria pollutant emissions from A-54 (Application #19972) shall be included in the cap calculation. Conditions #16393 and #16698 are considered part of or linked to these conditions. **The basis of this refinery-wide cap condition is “Bubble”.** Per Appendix J, of Authority to Construct Number 27797, the following are excluded from the Refinery baseline: Coal liquefaction Pilot Plant (Chevron Research), FCC, Nitric Acid Plant, Fugitive emissions from existing process units (except as used to adjust the monthly and yearly emission limits for process units shutdown, valves, pump and compressor seals, cooling towers, and drains), tankage, S-4155 SDA Furnace

## VI. Permit Conditions

**CHEVRON REFINERY CAP  
 PERMIT CONDITIONS  
 APPLICATION #27797  
 LAST REVISED 7/2/97, A/N 16876  
 Revised per A/N 19972, A/N 4134**

### 1. Emission Limitations

Listed below are calendar year emission limits for the refinery only and for refinery and wharf activity taken together. If the yearly limit for any pollutant is exceeded, the applicable requirements of Section 2.A shall apply. However, if in a given calendar year, any of the limits of Section 1.A are exceeded, such excess shall be allowed so long as it is offset in that calendar year by a compensatory reduction in wharf emissions at a ratio of 2:1 in the limit for the same pollutant in Section 1.B.

A. Refinery only:		B. Wharf and Refinery:	
Particulates	281.1 ton/yr	Particulates	326.0 ton/yr
Hydrocarbons	326.3 ton/yr	Hydrocarbons	391.1 ton/yr
Nox	5,772.0 ton/yr	Nox	6,151.0 ton/yr
SO <sub>2</sub>	392.0 ton/yr	SO <sub>2</sub>	918.0 ton/yr
CO	723.5 ton/yr	CO	773.5 ton/yr

The hydrocarbon emission limitation in Section 1.B may be exceeded only to the extent that lightering emissions may exceed 24.1 ton/yr. In the event that lightering emissions do exceed 24.1 ton/yr, this ton/yr limitation shall only be increased by 1 ton/yr for each ton of lightering emissions in excess of 24.1 ton/yr. However, in no event shall such increased lightering emissions cause the ton/yr hydrocarbon limit to be increased by more than 5.7 ton/yr. Credit for reductions in the annual limit for hydrocarbons in Section 1.B (which could be applied against excess hydrocarbon emissions above the limitations in Section 1.A) shall only be allowed to the extent that annual wharf and refinery hydrocarbon are less than 391.1 tons/yr.

C. Listed below are the maximum calendar month emission limits for refinery activity. These limits provide a mechanism, which will allow Chevron in any given month to offset certain limited increases in refinery emissions, above the refinery component of the maximum baseline month, by achieving in that same month actual reductions in emissions from wharf activity, below the wharf component of the maximum baseline month, at a ratio of 2:1. Thus, these limits will vary slightly from month to month in accordance with the formula set forth below. This formula consists of two numbers for each pollutant of concern: a fixed baseline number (which is equivalent to the emissions attributable to refinery operations in the maximum baseline month in Chevron's 3-year baseline) plus a factor, which varies with the actual emissions, associated with wharf activity during a given month. The fixed component in the factor for each pollutant is the maximum baseline month in Chevron's 3-year baseline, and the variable "awe" represents the actual wharf emissions for the month in question. As "awe" increases, the factor (and hence Chevron's ability to have monthly emissions from the refinery in a given month which exceed the refinery component of the maximum baseline month) will decrease. This factor shall be disregarded if less than zero. If the monthly limit for any pollutant, as determined by this formula, is exceeded, the applicable requirements of Section 2.B shall apply.

Refinery only:

	Baseline	Factor
Particulates	32.8	$(4.0 - \text{"awe"})/2$ ton/mo.
Hydrocarbons	31.2	$(6.4 - \text{"awe"})/2$ ton/mo.
NO <sub>x</sub>	539.2	$(37.1 - \text{"awe"})/2$ ton/mo.
SO <sub>2</sub>	155.5	$(53.8 - \text{"awe"})/2$ ton/mo.
CO	125.6	$(4.2 - \text{"awe"})/2$ ton/mo.

## VI. Permit Conditions

- D. Listed below are calendar month emission limits applicable to the refinery only, which if exceeded, shall trigger the offset requirements of Section 2.C.

Refinery only:

Particulates	27.5 ton/mo
Hydrocarbons	31.1 ton/mo
NOx	538.2 ton/mo
SO <sub>2</sub>	75.5 ton/mo
CO	113.6 ton/mo

- E. If, at the end of any calendar month, the total emissions accumulated so far in that calendar year exceed the permitted calendar year emissions set forth in Section 1.B prorated to the number of months elapsed so far that year plus the amounts set forth below, the informational requirements of Section 2.D shall apply.

Wharf and Refinery together:

Particulates	29.9 tons
Hydrocarbons	35.9 tons
NOx	563.8 tons
SO <sub>2</sub>	84.1 tons
CO	70.9 tons

- F. The limits set forth in Sections 1.A, 1.B, and 1.C above are legal limits which are never to be exceeded. Accordingly, in the event that any such limit ever is exceeded, Chevron shall be immediately subject to the applicable sanctions in Section 2 below. However, these limits may be adjusted upward or downward pursuant to the provisions of Section 9 below.

### 2. Alternative Emission Limitations

The following conditions apply when the emission limits set forth in Section 1 above are exceeded.

- A. If any of the annual emission limits of Section 1.A or 1.B are exceeded, the following conditions shall apply:
- i. Chevron shall install and maintain on a permanent basis abatement equipment (or shall implement on a permanent basis such other abatement measures or techniques which will achieve equivalent emission reductions), as specified in the Environmental Management Plan or as approved by the Air Pollution Control Officer, to control emissions of the pollutant of concern so as to offset the excess at a ratio of 2:1 (i.e. for every ton per year by which the applicable limit is exceeded, the hardware to be installed or other measures to be taken shall achieve a permanent emission reduction of 2 tons per year);
  - ii. The refinery shall not process more than 303,000 barrels of crude oil per stream day, or more than 257,000 barrels of crude oil per day averaged over any one calendar month until the emission reductions required under Section 2.A.i are achieved; and
  - iii. The permitted annual emission limit for the pollutant of concern shall be reduced by the amount by which said limit was exceeded on a prorated calendar monthly basis, until the emission reductions required under Section 2.A.i above are achieved.

## VI. Permit Conditions

- B. If any of the monthly maximum emission limits of Section 1.C are exceeded, the following conditions shall apply:
- i. The excess shall be charged against the permitted annual limit in Section 1.A above which is applicable to that pollutant by twice the amount by which the limit in Section 1.C is exceeded; provided, however, that if such monthly excess occurs during December, then, to the extent that such excess cannot be charged as provided above without causing the annual limit to be exceeded, it shall be charged once against the current calendar year and once against the following calendar year;
  - ii. Chevron shall either (a) install and maintain on a permanent basis abatement equipment (or shall implement on a permanent basis such other abatement measures or techniques which will achieve equivalent emission reductions) as specified in the Environmental Management Plan, or as approved by the Air Pollution Control Officer, to control emissions of the pollutant of concern so as to offset the excess at a ratio of 2:1 (i.e., for every ton per month by which the applicable limit is exceeded, the hardware to be installed or other measures to be taken shall achieve a permanent emission reduction of 2 tons per month); or (b) take such other abatement measures approved by the Air Pollution Control Officer which will prevent a recurrence of the type of incident which caused the excess; and
  - iii. Chevron shall not process more than 303,000 barrels of crude oil per stream day, or more than 257,000 barrels of crude oil per stream day averaged over any one calendar month until the emission reductions or other abatement measures required under Section 2.B.ii above are achieved or taken.
- C. If any of the emission limits set forth in Section 1.D are exceeded, then the excess shall be charged against the permitted annual limit in Section 1.A above which is applicable to that pollutant by twice the amount by which the limit in Section 1.D is exceeded; provided, however, that if such monthly excess occurs in December, then, to the extent that such excess cannot be charged as provided above, without causing the annual limit to be exceeded, it shall be charged once against the current calendar year and once against the following calendar year. However, this provision shall only apply when the sanctions set forth in Section 2.B above are not triggered.
- D. If the emission limits of Section 1.E are exceeded, Chevron shall inform the District in writing within 30 days of the end of the calendar month as to what steps outlined in the Environmental Management Plan it will take to assure that the annual limits in Sections 1.A and 1.B will be met.
- E. After the District has determined that an excess of any of the limits set forth in Sections 1.A through 1.D has occurred, Chevron shall, within 90 days, submit to the District a plan detailing how this excess will be mitigated. If a short term control measure specified in the Environmental Management Plan is used to mitigate the excess, this measure must be implemented and the required reduction achieved by the end of the following calendar year. If abatement equipment is installed, a compliance plan must be submitted within the above mentioned 90 day period detailing all of the following:
1. How the reduction will be achieved;
  2. When the permit application will be submitted;
  3. When the on site construction will be completed; and
  4. When excess will be paid back (these excesses must be paid back by the end of the calendar year following the year in which abatement equipment was installed, or longer period as approved by the APCO).
- F. Reductions of reactive hydrocarbons may be used to offset increases in NO<sub>x</sub> at a ratio of 1:1, provided that Chevron demonstrates to the satisfaction of the Air Pollution Control Officer that the increased

## VI. Permit Conditions

NOx emissions will not cause or contribute to an excess of any ambient air quality standard for NO<sub>2</sub> at the point of maximum ground level impact

- G. If Chevron is subject to any of the requirements of Sections 2.A through 2.D, and Chevron fails to comply with any such requirement, each and every day on which any such failure occurs shall constitute a distinct and separate violation of the conditions of this permit, and shall subject Chevron to any and all appropriate sanctions provided by law.
- H. In the event that Chevron installs abatement equipment to achieve 2:1 offsets on a permanent basis (or takes measures which will achieve equivalent permanent emission reductions) pursuant to Section 2.B.ii (a) above, any such emission reductions shall be credited towards emission reductions which may be required under Section 2.A.i above for that same calendar year. In other words, if Chevron exceeds one of the maximum calendar month emission limits set forth in Section 1.C, and takes corrective action in accordance with Section 2.B.ii (a), but if after the end of the calendar year in which that violation took place, staff determines that Chevron also exceeded one or both of the calendar year emission limits for that same pollutant, then Chevron shall not be required to install additional abatement equipment or implement additional measures to achieve permanent emission reductions due to that violation of the calendar year limit or limits, and will not be considered in violation of such calendar year limit or limits, so long as the violation of the calendar year limit or limits is not greater than the violation of the monthly limit which was the subject of corrective action.

### 3. Monitoring

The following monitoring instruments listed shall be installed, calibrated, maintained and operated by Chevron in accordance with the District's Manual of Procedures.

- A. An instrument to continuously monitor nitrogen oxide emissions in the flue gas from each SCR unit.
- B. An instrument to continuously monitor the percentage of oxygen in the flue gas from each SCR Unit.
- C. Such other instruments as listed in Appendix A, which the APCO may at future date deem necessary to calculate emissions from the refinery. Such instruments need not be installed until the APCO so informs Chevron in writing.

### 4. Reporting and Record Keeping

The following conditions will document Chevron's emissions on a monthly basis, in addition to satisfying the requirements of Regulation 10-1-402 of District regulations.

- A. Chevron shall maintain a file containing all measurements, records, charts and other data which are required to be collected pursuant to the various provisions of this Permit to Operate, as well as all other data and calculations necessary to determine actual emissions from all refinery and wharf operations. This file shall include, but not be limited to: the data collected from all instack monitoring instruments, the records on fuel input rates, and the records of crude oil. Actual emissions from all units at the refinery which are included under the limits set forth in Section 1 above shall be calculated in accordance with Appendix A through N. This material shall be kept available for District inspection for a period of at least 2 years following the date on which such measurements, records or data are made or recorded.
- B. Chevron shall make a monthly report to the District, within 30 days after the end of each month, which shall include but need not be limited to the following information:
  - 1. Crude oil processed
  - 2. EFOB of each fuel burned
  - 3. Number and vessel class
  - 4. Lightering

## VI. Permit Conditions

### Emissions

#### 5. Process Unit Design

The owner/operator shall not exceed the throughput limits below. The following process unit design rates reflect the design and specifications outlined in the permit application and were used to calculate allowable emissions from the modified refinery:

UNIT	DESIGN PROCESS RATE
Light Neutral Hydrocracker(S-4340)	16,500 BPOD
Light Neutral Hydrofinisher(S-4341)	22,000 BPOD
Heavy Neutral Hydrocracker(S-4342)	26,000 BPOD
Heavy Neutral Hydrofinisher(S-4343)	12,000 BPOD
TKC Unit (Changed from 52K BGY 3/1/95)	65,000 BPOD

These units shall be designed and built to the above specifications, and annual/daily emissions caused by these units shall not exceed the amount that would be produced if the unit were operated at no more than the above design process rates for a calendar year/day.

#### 6. Combustion

- A. Fuel oil shall not be burned at the refinery.
- B. Except during start-ups and shutdowns and other low firing rate modes (i.e., when the flue gas entering the SCR units is below 572 F), the nitrogen oxides in the flue gases from the three new SCR units shall not exceed 40 ppm as NO<sub>x</sub> corrected to 3% oxygen averaged over any 8 hour period.
- C. Deleted on August 10, 1993 (by Mr. John Swanson).
- D. The P.A. Plant incinerator outlet temperature shall not be less than 1380 F averaged over 3 hours when the PA reactors have orthoxylene feed in.
- E. Furnaces F-1650 (S-4349), F-1610 (S-4330), F-1310 (S-4331), F-1750 (S-4333), F-1360 (S-4332), F-1200 (S-4334), F-1250 (S-4335), F-1410 (S-4336), F-1500 (S-4337), F-1550 (S-4338), and F-1110 (S-4339) shall not exceed a combined fired duty of 337.5 million BTU/HR (HHV) averaged over either any calendar day or averaged over any consecutive 12 month period. The owner/operator of these furnaces shall not exceed the individual daily enforceable limits in the table below:

Source	Furnace	Enforceable Limit MMBtu/day (HHV)	Used for Fees MMBtu/h (HHV)
S-4330	F-1610	328.8	13.7
S-4331	F-1310	501.6	20.9
S-4332	F-1360	1754.4	73.1
S-4333	F-1750	1504.8	62.7
S-4334	F-1200	607.2	25.3
S-4335	F-1250	595.2	24.8
S-4336	F-1410	600.0	25.0
S-4337	F-1500	739.2	30.8
S-4338	F-1550	864.0	36.0
S-4339	F-1110	456.0	19.0
S-4349	F-1650	396.0	16.5

The firing rate limits used above are expressed in terms of Higher Heating Value (HHV). When using Appendix 1 of Permit Condition 469 to estimate emissions, firing rates must be converted to Lower Heating Value (LHV). Firing rates in LHV are calculated by dividing the corresponding firing rate in HHV by 1.1.



## VI. Permit Conditions

Additional conditions for F-1650 (S-4349): [Added by B. Young on 7/2/97, A/N 16876]

- E1. Furnace F-1650 (S-4349) shall burn only natural gas or refinery fuel gas. The burners shall not be modified to burn liquid fuels without first obtaining a new Authority to Construct from the District.
- E2. The owner/operator of Furnace F-1650 (S-4349), a natural draft furnace, shall not emit from S-4349 nitrogen oxide emissions, as NO<sub>2</sub>, that exceed 20 ppmv, dry, corrected to 3 % oxygen, averaged over 3 hours. This emission limit shall not apply during startup and shutdown as defined below (basis: cumulative increase).
- E3. The owner/operator of Furnace F-1650 (S-4349), a natural draft furnace, shall not emit from S-4349 carbon monoxide emissions that exceed 50 ppmv, dry, corrected to 3 % oxygen, averaged over 8 hours. This emission limit shall not apply during startup and shutdown as defined below (basis: cumulative increase).  
For S-4349, startup shall mean that period of time during which a process heater is put into normal operation from an inactive status by following a prescribed series of separate steps or operations. The startup may not exceed 6 hours. Shutdown shall mean that period of time during which a process heater is taken out of service from a normal operating mode to an inactive status by following a prescribed series of separate steps of operations. The shutdown may not exceed 6 hours (basis: Regulation 2-1-403).
- E4. In order to demonstrate compliance with Conditions E2 and E3, the owner/operator of S-4349 shall perform a District approved source test within 60 days of startup and at least one source test each calendar year thereafter, in accordance with the District's Manual of Procedures. Source tests on S-4349 performed by the District may be used to meet the annual compliance demonstration requirement. For any non-District performed source test on S-4349, the permit holder shall notify the Manager of the District's Source Test Section at least seven days prior to the test, to provide the District staff the option of observing the testing. Within 45 days of test completion, a comprehensive report of the test results shall be submitted to the Manager of the District's Source Test Section for review and disposition. (basis: Regulation 2-1-403).

### 7. Access

- A. The APCO or his representatives and the U. S. Environmental Protection Agency shall have access to any portion of the refinery or wharf operations to conduct source tests or inspections in accordance with Section 1-440 of the District's Rules and Regulations, and the provisions of the Clean Air Act.
- B. The APCO or his representatives and the U. S. Environmental Protection Agency shall have the right to inspect and audit: (a) all records which are required to be maintained by Section 4 above; and (b) any other records in the applicant's possession which may indicate the nature or quantity of emissions from refinery and wharf operations, in accordance with Section 1-441 of the District Rules and Regulations, which Chevron deems to include materials that constitute trade secrets or proprietary data or information shall be designated as such and shall be treated as such in accordance with applicable statutes and regulations.

### 8. Enforcement

Violation by Chevron, its officers, employees or representatives of any of the conditions set forth in this conditional permit shall subject Chevron to enforcement action under Chapter 4 of Part 4 of Division 26 of the California Health and Safety Code, and to enforcement action by the U.S. Environmental Protection Agency pursuant to the Clean Air Act (42 U.S.C. Sec. 7401 et seq.). As appropriate, each and every such violation shall be deemed to be discrete and separate violation with respect to which the District will be entitled to take legal action.

## VI. Permit Conditions

### 9. Miscellaneous

- A. The following process units, including all furnaces and equipment shall be shut down within 90 days after feed is introduced to all of the new process units 1, 5, 8, and 12 listed in the Authority to Construct.
  1. #1 RPM Plant
  2. #2 RPM Plant
  3. #1 Lube Rerun Plant
  4. #2 Lube Rerun Plant
- B. Nothing in the above conditions shall be construed to permit termination of the existing conditions of the Number 4 LSFO crude unit.
- C. All equipment, facilities, and systems installed or used pursuant to, or to achieve compliance with the terms and conditions of, this conditional permit shall at all times be maintained in good working order and be operated with due regard for the goal of complying with the terms and conditions of this permit and with all applicable District regulations.
- D. Nothing in these conditions shall be construed to allow the violation of any law or any rule or regulation of the Bay Area Air Quality Management District, the State of California or the United States Environmental Protection Agency.
- E. In the event of changes in District regulations which may require actual reductions in the amount of emissions which would otherwise be allowed under the terms of this conditional permit to be emitted by any emission point covered by this permit, Chevron shall be required to reduce the annual limits set forth in Section 1 above by an amount equivalent to what would be required under any such rule change.
- F. Any emission reductions which Chevron may be required to undertake in accordance with Section 2 above, or any emission offsets (or other emission reductions) which Chevron may obtain to assure that the emission limits set forth in Section 1 are complied with shall not be eligible to be credited as emission reductions for purposes of calculating “cumulative increases”, and shall not be eligible to be “banked” in accordance with the District’s New Source Review Rule. Similarly, any emission increases which may occur from existing units at the refinery and/or wharf shall not be charged as emission increases for the purposes of calculating “cumulative increases” so long as Chevron complies with all applicable limits set forth in Section 1. However, any emission reductions in the refinery and wharf which Chevron obtains on a permanent and enforceable basis in accordance with the rules and regulations of the District, above and beyond those reductions required by this conditional permit, may be credited or banked, and the applicable limits or the applicable emission factor in Appendix 1 shall be adjusted accordingly; in the event that Chevron does apply to bank or credit any such emission reductions, the quantity of these emissions to be credited or banked shall be addressed at the time of such application.
- G. Chevron may elect with the concurrence of the APCO, that any new facilities or modifications which may in the future be proposed to be built by Chevron within the boundaries of the Richmond Refinery and which will be subject to the District’s New Source Review requirements, will also be subject to the limitations in this conditional permit. If Chevron so elects, and the APCO concurs, the baseline emissions for such new facilities or modifications shall be the limits set forth in Section 1 above, rather than actual emissions after the baseline period of 1978-80 (which period was used as the basis for issuance of this permit), and such new facilities or modifications shall be included as part of the refinery and wharf facilities subject to the overall limitations in Section 1 above. Emission changes at the refinery and wharf which are not covered by this permit shall be accumulated in accordance with the District’s permitting regulations, for purposes of calculating net “cumulative increases” or decreases; provided, however, that Chevron may incorporate at its option any such net cumulative increase or decrease within the appropriate limits set forth in Section 1 above. In such event, the applicable limits in Section 1 above shall be increased or reduced, as the case may be, by an amount equivalent to the net cumulative increase or decrease being transferred.

## VI. Permit Conditions

- H. The emission limits set forth in Section 1 above include an adjustment to account for fugitive emissions from the new facilities covered by this permit. In the event that the actual numbers of valves, pumps, flanges, process drains, and compressors for this project are other than were assumed in the analysis set forth in the permit application, the appropriate emission limits shall be adjusted accordingly.
- I. The terms and conditions of this permit shall become applicable on the first day of the month following the month when feed is first introduced into the Light Neutral Hydrocracking Unit or the Heavy Neutral Hydrocracking Unit; and for purposes of Chevron's operations during the first calendar year in which this Permit to Operate is effective, the emission limits set forth in Sections 1.A and 1.B shall be prorated to, and shall only apply during, those months of that year including and subsequent to the month in which this Permit to Operate is issued.
- J. Any adjustments to the emission limits in Section 1, which result from the operation of the other provisions of this permit, shall be calculated in accordance with the Appendices.
- K. Emissions in excess of applicable emission limitations resulting from breakdowns, malfunctions, or other causes for which a variance is granted by the Hearing Board, or for which the Air Pollution Control Officer grants relief in accordance with Section 1-112 of the District's Rules and Regulations, may be excluded by the Hearing Board or Air Pollution Control Officer, as appropriate, from those emission totals which are counted towards compliance with the limits set forth in Section 1 above; provided, however, that this provision shall not excuse Chevron from the obligation to report to the District pursuant to Section 4.B above the actual emissions from the emission points covered by this permit during the period covered by any such relief.

### 10. Severability

The provisions of this conditional Authority to Construct are intended to be severable, and, if any individual condition or provision hereof is held to be invalid by order of any court of competent jurisdiction, or for any other reason, the remainder of this conditional Authority to Construct shall not be affected hereby.

### 11. Environmental Management Plan (modified 7/2/97 B. Young)

Sixty days prior to start-up of any one new or modified unit, an initial Environmental Management Plan (EMP) shall be submitted to the District for review and comment by the APCO. This plan will detail how the application will make permanent emissions reductions to the facility if needed. This plan will explain the various control techniques available and to what sources they are most applicable in order to obtain permanent offsets. The purpose of this plan is to expedite any installation of abatement equipment if it is ever required. This plan shall be very extensive, outlining all of the control options and the source to which they are most applicable in order to provide offsets. Short term control strategies shall also be summarized. Included in this summary shall be a shutting down of certain sources, lowering or curtailing operational levels and fuel switching. Certain maximum reductions should be stated for each control strategy.

The EMP shall be updated and resubmitted at the APCO's request, but at no more than once per calendar year. If a control strategy outline in the EMP is used to meet one of the monthly limits set forth in Section 1 above, the EMP should be revised to reflect the use of such a strategy and resubmitted by Chevron to the District for review and comment by the APCO. To the extent that any EMP submittal contains confidential information, such information shall be afforded the protection provided by applicable laws, rules, and regulation. Once the APCO has reviewed an EMP submittal, the District staff's comments and recommendations on it shall be forwarded to Chevron as expeditious as practicable. Within 30 days after its receipt of such comments and recommendations, Chevron shall either (1) revise the EMP to reflect such comments and recommendations or (2) indicate which comments and recommendations Chevron did not include in its EMP revisions together with a detailed explanation as to why each comment and recommendation was not adopted or included in the EMP itself.

## VI. Permit Conditions

Additional conditions for S-4159 and S-4160, Plant 10 (2/17/93):

1. Fuel usage at the F-410 furnace (S-4159) shall not exceed 43 MMBtu/hr averaged over any consecutive 12 month period.
2. Fuel usage at the F-420 furnace (S-4160) shall not exceed 41 MMBtu/hr averaged over any consecutive 12 month period.
3. To confirm compliance with conditions #1 and #2, records of fuel usage at S-4159 and S-4160 shall be recorded in a District-approved log, summarized on a monthly basis, and made available for District inspection for a period of 24 months from the date on which a record is made.

Additional conditions for S-6015, Plant 10 (12/2/97):

For S-6015, Thermal Flare:

1. The smokeless capacity of S-6015, Thermal Flare, shall not be less than 240,000 pounds per hour. (Reasonably Available Control Technology)
2. To confirm compliance with Condition #1, prior to the start-up of S-6015, Chevron shall submit to the District a signed letter from the vendor of S-6015 that specifies the smokeless capacity of the flare in pounds per hour. (Reasonably Available Control Technology)

### APPENDICES FOR CONDITION #469

- Appendix A - Lists new instrumentation to be installed to monitor fuel and/or emissions.
- Appendix B - Details how to calculate future emissions from combustion sources (compressor engines, boilers, furnaces, blanketing, flares).
- Appendix C - Details how to calculate future emissions from other organic sources (product loading, oil water separator).
- Appendix D - Details how to calculate future emissions from other CO sources (phthalic anhydride plant).
- Appendix E - Details how to calculate future emissions from other sulfur oxide sources (sulfur recovery units).
- Appendix F - Future emissions from miscellaneous combustion sources (asphalt plant).
- Appendix G - Wharf calculation assumptions and fuel consumption tables.
- Appendix H - Details how to calculate future marine loading emissions and combustion emissions.
- Appendix I - Listing of all emission factors used.
- Appendix J - Exclusions from Refinery Baseline.
- Appendix K - Listing of all fugitive emission sources from the lube oil project.
- Appendix L - Copy of the products burned statement.
- Appendix M - Copy of P.A. Plant pumping record report and operating record.
- Appendix N - Method of Calculation when there is instrument down time.

### APPENDIX A NEW INSTRUMENTATION

Chevron shall install, calibrate and maintain the following monitoring instrumentation:

1. One instrument to continuously monitor nitrogen oxide emissions in the flue gas from each SCR Unit.
2. One instrument to continuously monitor the percentage of oxygen in the flue gas from each SCR Unit.
3. One instrument to continuously monitor the volume of fuel gas to each new furnace.

NOTE: The flue gas volumetric flow rate will be calculated from 2 and 3 above.

4. One flow meter to monitor Alkane compressor natural gas consumption.

**VI. Permit Conditions**

5. One flow meter to monitor natural gas blanketing at Alkane.
6. Instruments to monitor CO from each new furnace.

**APPENDIX B COMBUSTION EMISSIONS**

Outlined below are the methods by which future emissions will be calculated for compressors, boilers, furnaces, blanketing and flares.

Compressors

**The flow meters in Table I shall be used to monitor fuel to compressors:**

**TABLE I  
 FUEL TO COMPRESSORS**

<b>Refinery Area</b>	<b>Meter Name</b>	<b>Meter Description</b>	<b>Units</b>
UTIL	G116	Natural Gas to Inert Gas Compressors	SCF/HR
LUB/LPD	G532	Utilities, Natural Gas to Lube Oil Div.	SCF/D
3CAT	G520	V-116 to Compressor Engine	SCF/HR
2CAT	G164Y	Natural Gas Header to Reformer	SCF/D
ALKANE	NEW	Natural Gas to Alkane Compressors	

To calculate emissions:

Convert all values to SCF/D.

The conversion factor to BTU/SCF will vary monthly, as reported by PG&E.

Refer to the appropriate emission factors in Appendix I, Section A-4.

NOTE: Alkane Plant emission estimates were based on compressor horsepower to determine three-year baseline fuel consumption. Actual meter readings may warrant baseline adjustments.

Boilers

Fuel Oil

The following entries in the Products Burned Statement shall be used to monitor fuel oil to boilers:

1. S.O. #103 – No. 1 Power Plant (EFOB/MO)
2. S.O. #150 – No. 2 Steam Plant (EFOB/MO)
3. S.O. #811 – Cat. Steam Plant (EFOB/MO)

The grand total on the Product Burned Statement shall be determined from daily tank gauge readings from the following tanks:

1. T-241
2. T-242

Fuel oil burned at No. 2 Steam Plant and Cat. Steam Plant shall be allocated at the rate of 6 EFOB/Day/Burner, and 60 EFOB/Day, respectively. Fuel oil allocated to No. 1 Power Plant shall be determined by subtracting the allocations to No. 2 Steam Plant, Cat. Steam Plant and furnace allocations

## VI. Permit Conditions

(Section 3a) from the grand total. (Account S.O. #843, FCC CO Boiler, shall also be used in fuel oil balance, although this account will normally be zero.)

To calculate emissions:

1. The conversion to EFOB will vary daily as determined by the API Gravity Meter on the fuel oil system.
2. Assume 6,000,000 net BTU/EFOB.
3. Refer to the appropriate emission factors in Appendix I, Section A-1.

Fuel Gas

The following entries in the Products Burned Statement shall be used to monitor fuel gas to boilers:

1. S.O. #103 – No. 1 Power Plant (EFOB/MO)
2. S.O. #811 – Boiler Plant (EFOB/MO)
3. S.O. #150 – No. 2 Steam Plant (EFOB/MO)

These entries shall be determined from the flow meters in Table II.

**TABLE II**

<b>Refinery Area</b>	<b>Meter Name</b>	<b>Meter Description</b>	<b>Units</b>
No. 1 PP	G115	Emergency Natural Gas to No. 1 PP	SCF/D
CAT Stm	G125	Process & Natural Gas to Boiler House	SCF/D
No. 2 Stm	G162	Fuel Gas to No. 2 Steam Plant	SCF/HR
No. 1 PP	G54	Fuel Gas to No. 1 PP	SCF/D

To calculate emissions:

1. Convert all values to SCF/D.
2. The conversion factor to EFOB will vary daily, as determined by the specific gravity analysis on each fuel gas system.
3. Refer to the appropriate emission factors in Appendix I, Section A-2-d. The SO<sub>2</sub> emission factor shall be based on the H<sub>2</sub>S content in the fuel gas, which will be determined by the monthly average PPM of three continuous monitors in the fuel gas system (calculated monthly).

Assume 6,000,000 net BTU/EFOB.

Furnaces

Fuel Oil

The following entries in the Products Burned Statement shall be used to monitor fuel oil to furnaces:

1. S.O. #210 – Asphalt Plant
2. S.O. #281 – #4 Crude Unit
3. S.O. #282 – Mid Distillate Hydrofiner
4. S.O. #270 – #4 Cat. Reformer
5. S.O. #285 – #5 Catalytic Reformer
6. S.O. #286 – Vacuum Gas Oil Unit

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7. S.O. #309 – #11-1 Battery
8. S.O. #810 – Prop-Polymer Unit
9. S.O. #303 – #3 Battery
10. S.O. #848 – Isomax General
11. S.O. #857 – TKN-Iso Unit
12. S.O. #415 – Phenol Treating
13. S.O. #306 – #10 Battery
14. S.O. #310 – #11-2 Battery
15. S.O. #853 – SDA Unit
16. S.O. #326 – Resid. Stripper

These entries shall be determined from daily tank gauge readings for the following tanks:

1. T-241
2. T-242
3. T-907
4. T-908

Also, fuel oil burned at these unit furnaces shall be allocated at the rate of 6 EFOB/Day/Burner. A monthly Refinery fuel oil balance shall be made to verify allocations with tank gauge readings.

To calculate emissions:

1. Assume 6,000,000 net BTU/EFOB

Refer to the appropriate emission factors in Appendix I, Section A-1.

Fuel Gas

Existing Furnaces

Refer to the "Grand Total" on the Products Burned Statement. Subtract from this value the following:

1. Billings – S.O. #3000 (total material & supply).
2. Compressors – Amount in Section B-1 above.
3. Blanketing – Amount in Section B-4.
4. Flares – 1,033 EFOB/month, a constant (total for all flares).
5. Boilers – Amount in Section B-2-b above.
6. CO Boiler – S.O. #843 on Products Burned Statement.
7. FCC Unit – S.O. #840 on Products Burned Statement.
8. New RLOP Furnaces & RLOP Gas Blanketing- Hard charge meter.
9. Coal Liquifaction – Hard charge meter.
10. Coal Liquifaction – Fuel gas consumed in H2 plant to produce H2.

To calculate emissions:

1. Convert the value to SCF/D.

The conversion to BTU/SCF will change daily.

Refer to the appropriate emission factors in Appendix I, Section A-2. The SO<sub>2</sub> emission factor shall be based on the H<sub>2</sub>S content in the fuel gas, which will be determined by the monthly average PPM of the three continuous monitors in the fuel gas system.

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### New Furnaces

Ten new flow meters shall be installed to determine the amount of fuel gas being directed to the new furnaces. Emission calculations for TSP and organics will be the same as for existing furnaces (AP-42 emission factors).

Emission for NO<sub>x</sub> shall be determined by monitoring the fuel gas rate and percent O<sub>2</sub> to determine a volumetric flow. Knowing the flow and ppm NO<sub>x</sub>, emissions can be determined.

The SO<sub>2</sub> emission factor shall be based on this H<sub>2</sub>S content in the fuel gas, which will be determined by the monthly average PPM of the three continuous monitors in the fuel gas system.

CO emissions shall be determined from the CO monitor (at the outlet to each furnace) and volumetric flow.

### Naphtha

Refer to S.O. #281 on the Products Burner Statement for Naphtha burned at No. 4 Crude Unit. This entry shall be determined from the following flow meters:

Refinery Area	Meter Name	Meter Description	Units
1. LSFO	G552	#4 Crude Unit, E-1181 Naphtha to STG	MBBL/Day
2. LSFO	G553	Utilities Fuel Naphtha Make-up to V-3211	BBL/Day

To calculate emissions:

1. Assume 4,935,000 net BTU/BBL.
2. Refer to the appropriate emission factors in Appendix I, Section A-3.
3. Blanketing

The flow meters in Table III shall be used to meter natural gas to tanks:

Refinery Area	Meter Name	Meter Description	Units
CRACKING	G528Y	Tank Blanketing to Petrolite Hill	
CRACKING	G301	Natural Gas Blanketing to Poleyard Tkg.	SCF/D
ALKANE	NEW	Natural Gas Blanketing at Alkane	

To calculate emissions:

1. Convert this result to SCF/D.
2. This value is used as necessary in Section 3-B of this Appendix.

NOTE: Emissions for Alkane gas blanketing were determined using accounting estimates for three-year baseline gas use.



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### Flares

This value will remain constant at 1,033 EFOB/Month (total for all flares). The basis for this constant was determined in a refinery study for natural gas conservation.

To calculate emissions:

1. Convert this result to SCF/D.

Refer to the appropriate emission factors in Appendix I,

Section A-2. The SO<sub>2</sub> emission factor shall be based on the H<sub>2</sub>S content in the fuel gas, which will be determined by the monthly average PPM of the three continuous monitors in the fuel gas system.

NOTE: Isomax Flare Gas Recovery: Emissions reduction from the Isomax Flare Gas Recovery System will be determined in a future study. The resulting credits may be added to the Refinery baseline emissions.

### APPENDIX C OTHER ORGANIC EMISSIONS

#### Product Loading

Hydrocarbon loading emissions from Refinery operations shall be calculated as follows: Transfer Invoices for the loading of the following products into tank trucks, rail cars, and 55 gallon drums shall be used as the basis for calculating emissions.

- |     |             |     |                  |
|-----|-------------|-----|------------------|
| 1.  | HSFO        | 13. | DIESEL           |
| 2.  | LSFO        | 14. | MOGAS            |
| 3.  | JET-A       | 15. | AV. GAS 80 & 100 |
| 4.  | RPM         | 16. | SOLVENTS         |
| 5.  | JP-4        | 17. | THINNERS         |
| 6.  | WHITE GAS   | 18. | ACETONE          |
| 7.  | DELO        | 19. | PHENOL           |
| 8.  | OTHER LUBES | 20. | A. O. C5         |
| 9.  | WHITE OIL   | 21. | A. O. C6-7       |
| 10. | GREASE      | 22. | A. O. C6-9       |
| 11. | ASPHALT     | 23. | A. O. C8-9       |
| 12. | WAX         | 24. | OTHER CHEMICALS  |
|     |             | 25. | AUTO DIESEL      |

The emissions will be calculated by multiplying the quantities loaded as shown on the Transfer Invoices by the appropriate emission factor shown in Appendix I, Section C.

#### Oil-Water Separator Desalter Water

The emissions from this source is based on crude oil throughput. The crude oil throughput each month comes from the Refinery Stock Balance Sheet. Crude oil is received by pipeline, ship, rail car, and tank truck. All receipts are calculated by tank gauging and transfer invoices. The crude oil throughput is calculated by totaling all of the monthly receipts and adjusting the total by any changes in the monthly final tankage inventory.

## **VI. Permit Conditions**

Emissions are calculated as follows:

Total the crude oil throughput.

Assume desalter water is 5% of crude oil throughput.

Calculated amount of desalter water used and multiply by the appropriate emission factor in Appendix I, Section B.

## **APPENDIX D OTHER CO EMISSIONS**

Phthalic Anhydride Plant Incinerator

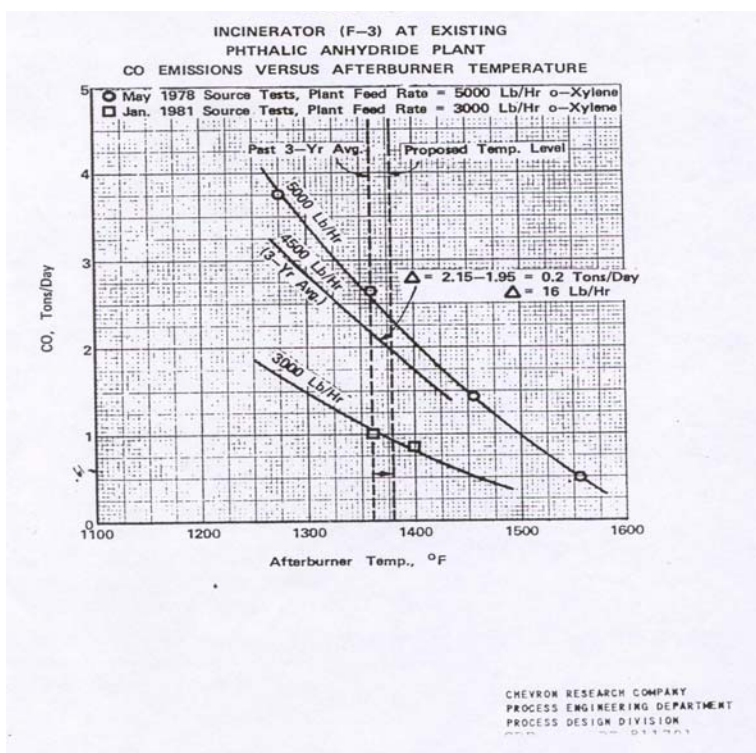
The CO emissions from the Phthalic Anhydride Plant CO Boiler shall be calculated from the following data:

1. PA Plant feed rate recorded on the P.A. Plant Pumping Record Report. This feed rate shall be calculated from daily tank gauge reading on tanks 1970 and 1971.
2. The F-3 incinerator/boiler operating temperature shall be recorded each shift on the Daily Operating Record. The temperature shall be obtained from TI-501.
3. The PA Plant operating hours shall be recorded on the Daily Stock Control Record.

The CO emissions shall be calculated by dividing the monthly total feed by the number of operating hours per month to obtain the plant feed rate. A monthly average operating temperature shall be calculated from the shift values when the PA reactors have orthoxylene feed in. The CO emissions shall then be calculated using the attached graph labeled "Figure B-2, Incinerator (F-3) at the existing PA Plant."

## VI. Permit Conditions

### APPENDIX D ATTACHMENT FIGURE B-2



## APPENDIX E OTHER SULFUR OXIDE EMISSIONS

### Sulfur Recovery Units

The emissions from the Sulfur Recovery Units will continue to be monitored by the existing in-stack monitors. The following items will be monitored for each SRU:

1. Stack gas PPM SO<sub>2</sub>
2. Stack flow rate
3. Stack temperature
4. SO<sub>2</sub> analyzer range
5. SO<sub>2</sub> analyzer status

This data will be processed by the existing multi-programmer, 6940B, and calculator, 9825A. A daily printout shall be made for each SRU showing average ppm SO<sub>2</sub> concentration and pounds per day of SO<sub>2</sub> emissions.

## **VI. Permit Conditions**

### **APPENDIX F MISCELLANEOUS COMBUSTION EMISSIONS**

#### Asphalt Plant Blowing Operation

The emissions from the asphalt blowing operation will be based on the total monthly sales of each of the following asphalt products as indicated on the Transfer Invoices for these products:

1. Roofers Shingle Saturant
2. Roofers Shingle Coating
3. FG #1 and LAM #1
4. FG #2 (Fiberglass 2A)
5. Laminating Asphalt
6. Tab Adhesive
7. Roofers Flux
8. Roofers Cut-Back #3
9. Chevron Utility Coating
10. Chevron Asphalt Coating
11. Asbestos Roof Coating Base
12. Bridgedeck Membrane

The emissions will be calculated by multiplying the tons of each product sold by the appropriate emission factor as shown in Appendix I, Section D.

**VI. Permit Conditions**

**APPENDIX G WHARF CALCULATION ASSUMPTIONS & FUEL CONSUMPTION TABLES**

The fuel consumed is based on those values listed in Tables I, II, III, and IV. Emission factors to be used are referenced in Appendix I, Table E. The following assumptions are used:

**APPENDIX G**

**TABLE I. MOTOR SHIP  
 FUEL CONSUMPTION FOR VARIOUS OPERATIONS**

Motor Ship Size	Maneuver (Transit) (Diesel) Gal/hr	(Fuel Oil) Gal/hr	Hoteling (Diesel) Gal/hr	Heating for Minas Crude (Fuel Oil) Gal/hr/MBBL	Discharging (Fuel Oil) Gal/MBBL
<20 MDWT	105	42	21	-	30
20-29 MDWT	236	42	21	-	30
30-39 MDWT	289	42	21	-	30
40-49 MDWT	341	42	21	-	30
50-59 MDWT	354	42	21	-	30
60-69 MDWT	394	84	42	-	30
70-79 MDWT	394	84	42	-	30
80-89 MDWT	459	84	42	-	30
90-99 MDWT	459	84	42	-	30
100-109 MDWT	551	84	42	-	30
110-119 MDWT	551	84	42	-	30
120-129 MDWT	551	84	42	0.25*	30
130-139 MDWT	551	84	42	0.25*	30
140-149 MDWT	656	126	63	0.25*	30

\*Fuel consumed for heating Minas included for entire time in Bay Area except when ship leaves Wharf (last three hours transit time).

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**APPENDIX G**

**TABLE II. STEAM SHIPS  
 FUEL CONSUMPTION FOR VARIOUS OPERATIONS**

Steam Ship Size	Maneuver (Transit) (Fuel Oil) Gal/hr	Hoteling 100% (Fuel Oil) Gal/hr	Heating for Minas Crude (Fuel Oil) Gal/hr/MBBL	Discharging (Fuel Oil) Gal/MBBL
<20 MDWT	210	42	-	30
20-29 MDWT	341	42	-	30
30-39 MDWT	394	42	-	30
40-49 MDWT	459	42	-	30
50-59 MDWT	551	42	-	30
60-69 MDWT	630	84	-	30
70-79 MDWT	630	84	-	30
80-89 MDWT	761	84	-	30
90-99 MDWT	761	84	-	30
100-109 MDWT	840	84	-	30
110-119 MDWT	840	84	-	30
120-129 MDWT	840	84	-	30
130-139 MDWT	840	84	-	30
140-149 MDWT	906	126	-	30
150 MDWT (Dejumboized)	906	126	0.25*	30
174 MDWT	906	126	-	30
190 MDWT	906	126	-	30

\*Fuel consumed for heating Minas included for entire time in Bay Area except when leaving Wharf (three hours transit time).

**VI. Permit Conditions**

**APPENDIX G**

**TABLE III. SPECIAL SHIPS  
 FUEL CONSUMPTION FOR VARIOUS OPERATIONS**

Ship	Maneuver (Transit) (Diesel) Gal/hr	Hoteling 100% Diesel Gal/hr	Discharging (Diesel) Gal/hr/MBBL	Comments
Exxon Galvaston (Tug permanently attached to barge)	190	42	30	Use tug assist emission factors
Gas Turbines	341	42	30	
Barges	See tug assist fuel consumption table	0	30	Use tug assist emission factors

**APPENDIX G**

**TABLE IV. TUG ASSIST  
 FUEL CONSUMPTION FOR VARIOUS OPERATIONS**

	Fuel Consumed (Diesel (Gal/hr))
Tug Assist for Ship $\leq$ 50 MDWT	65.56
Tug Assist for Ship $>$ 50 MDWT	131.12
Tug Assist for Barge $\leq$ 100 MBBLS	65.56
Tug Assist for Barge $>$ 100 MBBLS	131.12

**HARF MODEL ASSUMPTIONS AND/OR ESTIMATES:**

1. Tug assist times are fixed for each vessel movement.
2. Assumed composition of Marine Fuel:

Fuel oil (or residuum) = 2.0 w % Sulfur, 0.43 w % Nitrogen, 18° API  
 Marine Diesel = 0.5 w % Sulfur, 0.08 w % Nitrogen, 35° API  
 Tug Diesel = 0.50 w % Sulfur, 35° API

3. Hoteling emissions from ships at wharfs calculated from actual wharf time.

Hoteling emissions from vessels away from wharfs are not counted except when lightering.  
 Mother ship can only lighter to one ship or barge at a time.  
 Turbo electric ships fuel use equals same-sized steam ship fuel use.  
 Emissions from ballasting not included.  
 Emission from tank cleaning not included.

## APPENDIX H

### DETAILS HOW TO CALCULATE FUTURE MARINE LOADING EMISSIONS & COMBUSTION EMISSIONS

Details how to calculate future marine loading emissions and combustion emissions.

#### Combustion Emissions

##### Tug Assist Emissions

$$\text{Tug Assist Emissions} = \frac{\text{Tug Assist Time (hrs/call)} \times \text{Fuel Consumption (gal/hr)}}{\text{Factor (lb/gal)}}$$

(lbs pollutant/call) (Appen. I, Table E)

Tug Assist Time Per Call	
Barge	6 hrs
Tanker	4 hrs
Lighter Barge	4 hrs
Lighter Tanker	4 hrs
(Add 1 hr if vessel went to Pt. Orient Wharf)	

##### Transit Emissions (Ships Only)

$$\text{Transit Emissions} = \frac{\text{Transit Time (hrs/call)} \times \text{Fuel Consumption (gal/hr)}}{\text{Factor (lb/gal)}}$$

(lbs pollutant/call) (Appen. I, Table E)

Transit Time Per Call	
Tanker	6 hrs
Lighter Tanker	4 hrs
(Add 1 hr if vessel went to Pt. Orient Wharf)	

##### Hoteling Emissions (Ships Only)

$$\text{Hotel Emissions} = \frac{\text{Hotel Time (hrs)} \times \text{Fuel Consumption (gal/hr)}}{\text{Factor (lb/gal)}}$$

(lbs pollutant/call) (Appen. I, Table E)

$$\text{Hotel Time} = \text{Dock hrs} + \left[ \frac{\text{Lightered Quantity (bbls)}}{\text{**Lighter Rate (bbls/hr)}} + 2 \text{ hrs} \right]^*$$

\*Bracketed calculation included only if ship was a lighter ship or mother ship.

##### \*\*Lighter Rates

1. Crude lighter rate = 25 Mbbls/hr
2. If other than crude:
  - a. 25 Mbbls/hr if lighter vessel is >29 MDWT ship or >50 Mbbl barge
  - b. 5 Mbbls/hr if lighter vessel is ≤29 MDWT ship or ≤50 Mbbl barge



**VI. Permit Conditions**

Emissions (Discharge Only)

$$\text{Pump Emissions} = \frac{\text{Pumped Quantity (Mbbls)}}{\text{(lbs pollutant/call)}} \times \frac{30 \text{ gal. Fuel consumed}}{\text{Mbbls pumped}} \times \text{Factor (Appen. I, Table E, lb/gal)}$$

Minas Crude Heating Emissions

$$\text{Minas Heating Emissions} = \frac{\text{Minas Discharged (Mbbls)}}{\text{(lbs pollutant/call)}} \times \left[ \text{Dock Time} + 3 \text{ hrs (hrs)} \right] \times \frac{.25 \text{ gal}}{\text{Mbbl hr}} \times \text{Factor (Appen. I, Table E) (F.O. Hoteling Factor) (lbs/al)}$$

Loading or Lightering Volatile Organic Emissions

$$\text{Loading or Lightering Emissions} = \frac{\text{Quantity Loaded (Mbbls)}}{\text{(lbs HC)}} \times \text{Factor (Appen. I, Table F) (lbs HC/Mbbl)}$$

**APPENDIX I**

**REFINERY EMISSION FACTORS**

EMISSION FACTORS

(General factors. Where monitors are available, actual values will be used as stated in Appendix B.)

A.	Fuel (# of Pollutant/ Billion Net BTU)	Pollutant				
		TSP	NMHC	Nox	SOx	CO
1.	Fuel Oil					
	a. Boilers	56	7	470	515.2	35
	b. Furnaces	56	7	358.4	515.2	35
2.	Fuel Gas					
	a. New Furnaces	10	3	52.3	27 (160 ppm H2S)	39.8
	b. Existing Furnaces	10	3	170	3.88 (23 ppm)	17
	c. Flares (Pilot)	10	3	170	3.88	17
	d. Boilers <250 x 10 BTU/Hr	10	3	300	3.88	17
3.	Naphtha	12.2	5.2	196.6	12.51	25
4.	Natural Gas					
	a. Internal Comb. Eng.	10	105	3400	0.6	430
B.	Fugitive					
1.	Valves (#/day/valve)	-	-	-	-	-
	HC Vapor	-	1.416	-	-	-
	Light Liquid RVP>5	-	0.576	-	-	-
	Heavy Liquid RVP<5	-	0.012	-	-	-
2.	Pump Seals (#/day/seal)					
	a. Mechanical					
	Light Liquid RVP>5	-	6.0	-	-	-
	Heavy Liquid RVP>5	-	1.104	-	-	-
	b. Packing					
	Light Liquid RVP>5	-	10.0	-	-	-
	Heavy Liquid RVP>5	-	1.84	-	-	-
3.	Compressor Seals (#/day/seal)	-				
	H2>50%	-	2.64	-	-	-
	HC Vapor	-	33.6	-	-	-
4.	Cooling Towers (#/m gal)	-	0.7	-	-	-
5.	Separators (#/m gal)	-	0.2	-	-	-
6.	Drains (#/day/drain)	-	1.68	-	-	-

**VI. Permit Conditions**

C. Refinery Product Loading

Product	# of Organics/M Gal Loaded
HSFO	0.03
LSFO	0.03
JET A	0.04
RPM	0.03
JP-4	4.00
WHITE GAS (W/V.R.)	0.60
WHITE GAS (W/O V.R.)	6.00
DELO	0.03
OTHER LUBES	0.03
WHITE OIL	0.03
GREASE	0.0003
ASPHALT (W/V.R.)	0.003
WAX	0.0003
DIESEL	0.03
MOGAS (W V.R.)	0.60
MOGAS (W/O V.R.)	6.00
AV. GAS 80 (W V.R.)	0.60
AV. GAS 80 (W/O V.R.)	6.00
SOLV. & THINNERS	4.00
ACETONE (W/V.R.)	0.60
PHENOL (W/V.R.)	0.004
A.O. C5	6.00
A.O. C6-7	6.00
A.O. C6-9	6.00
A.O. C8-9	0.04
OTHER CHEMICALS	0.03
AV. GAS 100 (W/V.R.)	0.60
AV. GAS 100 (W/O V.R.)	6.00
AUTO DSL.	0.03

Note: Unless otherwise stated, product emission factors are for loading without vapor recovery.

## VI. Permit Conditions

### D. Asphalt Blowing

Asphalt Product	Airblown Asphalt Content (%)	A.P. 42 Emission <sup>1</sup> Factor for Airblown Asphalt (lb/ton)			Emission Factor for <sup>2</sup> This Product (lb/ton)		
		CO	Partics	Organics	CO	Partics	Organics
Roofers Shingle Saturant	100.	3.66	.58	.65	3.66	.58	.65
Roofers Shingle Coating	100.	3.66	.58	.65	3.66	.58	.65
FG #1 and LAM #1	100.	3.66	.58	.65	3.66	.58	.65
FG #2 (Fiberglass 2A)	100.	3.66	.58	.65	3.66	.58	.65
Laminating Asphalt	100.	3.66	.58	.65	3.66	.58	.65
Tab, Adhesive	100.	3.66	.58	.65	3.66	.58	.65
Roofers Flux	8.	3.66	.58	.65	.29	.046	.052
Roofers Cut-Back, #3	50.	3.66	.58	.65	1.83	.29	.33
Chevron Utility Coating	50.	3.66	.58	.65	1.83	.29	.33
Chevron Asphalt Coating	50.	3.66	.58	.65	1.83	.29	.33
Asbestos Roof Coating Base	50.	3.66	.58	.65	1.83	.29	.33
Bridgedeck Membrane	1.	3.66	.58	.65	0.37	.0058	.0065

<sup>1</sup>A.P. 42 Factors for controlled asphalt roofing manufacturing, asphalt blowing operation (12/77 edition).

<sup>2</sup>Product emission factor equals A.P. 42 factor multiplied by fraction of air-blown asphalt in the asphalt product.

### E. Ship Combustion (# of Pollutant/M gal of fuel)

Operation	P	O	NOx	SOx	CO
1. Steam Ship					
Maneuvering	19	3.1	48.2	315.3	2.62
Hoteling	19	3.1	20.9	315.3	2.62
Pumping	19	3.1	48.2	315.3	2.62
2. Motor Ship					
Maneuvering	20	32.8	367	70.1	56.9
Hoteling-Diesel	20	32.8	367	70.1	56.9
Pumping	19	3.1	48.2	315.3	2.62
Hoteling-Fuel Oil	19	3.1	20.9	315.3	2.62
3. Gas Turbines					
Maneuvering	11	4.17	71.8	70.1	31.2
Hoteling-Diesel	11	4.17	71.8	70.1	31.2
Pumping	11	4.17	71.8	70.1	31.2
4. Barges & Tugs					
All	25	13	571.2	70.1	56.9

**VI. Permit Conditions**

**APPENDIX I  
 TABLE F  
 HYDROCARBON EMISSIONS FROM ONLOADING OF  
 CRUDE OIL OR PRODUCTS**

Commodity	Hydrocarbon Emissions (lbs/MBBLs of Commodity)
1. Crude Oil	71.4 (Barges) 42.0 (Vessels)
2. Gasoline, Naphtha, Orthoxylene, Benzene, Cumene, BA-3, BA-1	168.0 (Barges) 101.0 (Vessels)
3. Jet, Diesel, TKN, Mixed Cutter, Alkane	0.21
4. Fuel oil, Bunker, Lubes, Charge Stock, Gas Oil Resid, 8 cut, Palc, Polymers	0.0017

(Note: Deep draft barges greater than 40 feet tank depth will use the hydrocarbon emission factors for “vessels” above.)

**APPENDIX J EXCLUSIONS FROM REFINERY BASELINE**

The following are excluded from the Refinery baseline:

1. Coal Liquefaction Pilot Plant (Chevron Research)
2. FCC
3. Nitric Acid Plant

Fugitive emissions from existing process units (except as used to adjust the monthly and yearly emission limits for process units’ shutdown).

Valves

Pump and compressor seals

Cooling towers

Drains

Tankage

## VI. Permit Conditions

### APPENDIX K FUGITIVE EMISSION SOURCES FROM LUBE OIL PROJECT

The following quantities of pumps, valves, compressors, and drains were used to determine the emission limits in Section VII of the Engineering Evaluation. After start-up of the project, emission limits will be adjusted as necessary per Section VII-9H of the evaluation.

1. Valves (>2 inch diameter)	
H2 Service (>50%)	250 ea.
HC Vapor Service	635 ea.
Light HC Liquid (RVP >0.5)	1050 ea.
Heavy HC Liquid (RVP <0.5)	435 ea.
Pump Seals	
1.RVP>0.5	
Mechanical	35 ea.
Packing	1 ea.
2. RVP <0.5	
Mechanical	33 ea.
Packing	4 ea.
3. Compressor Seals	
H2 Service (>50%)	17 ea.
HC Service	11 ea.
4. Drains	
All Service	227 ea.

### APPENDIX L PRODUCTS BURNED STATEMENT

Attached is a copy of the products burned statement on which monthly fuel usages to combustion sources are recorded.

### APPENDIX M Copy of P.A. Plant pumping record report and operating record.

Attached is a copy of the P.A. Plant pumping record report and operating record.

### APPENDIX N METHOD OF CALCULATION WHEN THERE IS INSTRUMENT DOWNTIME

Instrument downtime (including, but not limited to, instack monitors and other instruments whose readings are used to calculate emissions) caused by malfunction, upset, breakdown, repair, maintenance, or failure where such instrument downtime exceeds a continuous 24-hour period shall be handled as follows for purposes of calculating emissions: Emissions from the previous valid calendar day (or other relevant period) and by feed and/or product made. The emissions during the time period when the monitor is down shall be rationed according to feed rate and/or products made changes. The Air Pollution Control Officer reserves the right to source test during any monitor downtime period.

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### Condition #710, #711, and #712

For S-9304, GASOLINE DISPENSING FACILITY, G6042:

Condition 710

- \*1. To reduce flowrate between 8 to 8.6 gallons per minute, a flow limiter shall be permanently installed when using Emco-Wheaton nozzles. (basis: (cumulative increase))

Condition 711

- \*1. Vapor flowrate to Hirt processor shall not exceed 17.2 gallons per minute. (basis: (cumulative increase))

Condition 712

- \*1. To measure gauge pressure, a magnahelic shall be permanently installed on the vapor line of the dispenser. (basis: cumulative increase)

COND# 1046 -----

Condition 1046

(Revised under Application 9329 in May 2004)

1. The owner/operator shall not operate sulfur storage tanks S-3141 and S-3226 unless they are abated by the properly maintained and properly operated A-43 and A-44 Venturi Scrubbers at all times of operation, except during preventative maintenance at A-43 and A-44 scrubbers and/or during the American Petroleum Institute (API) internal inspections of the pressure vessels, which are expected to be conducted once every ten years at scrubbers A-43 and A-44.

(basis: cumulative increase)

2. The owner/operator shall minimize downtime of the A-43 and A-44 scrubbers to the extent practicable, and shall minimize emissions from S-3141 and S-3226 to the extent practicable during periods of preventative maintenance and/or during periods when API inspections are conducted. Additionally,

## VI. Permit Conditions

liquid transfers into S-3141 and S-3226 shall be minimized during periods of preventative maintenance and/or API inspections. In no event shall preventative maintenance downtime and/or API inspection and subsequent repair exceed 612 hours in any consecutive 365-day period.

(basis: cumulative increase)

3. The owner/operator of S-3141 and S-3226 shall maintain records of preventative maintenance downtime and/or API inspections to confirm compliance with above conditions. These records shall be kept on site for at least 60 months from the date of entry.

(basis: cumulative increase)

COND# 1069 -----

S-1637, Application #8294

1. The owner/operator of S-1637 shall ensure that the concentration of organic vapor in the vapor space above the internal floating roof not exceed 30% of its lower explosive limit (LEL). (cum inc)
2. The owner/operator of S-1637 shall conduct quarterly visual seal inspections and measure the concentration (%LEL) of the vapor space above the internal floating roof beneath each view port (3) with an explosimeter. (cum inc)
3. The owner/operator of S-1637 shall maintain a district approved quarterly log of the LEL for each material stored, all concentration measurements (from each view port), and record of each visual seal inspection. This log shall be retained on site for at least 5 years from the date of entry and be made available to



## VI. Permit Conditions

district staff upon request. (2-1-403)

4. If the owner/operator determines that S-1637 is in violation of these conditions or applicable rule(s) during the quarterly inspections, the owner/operator shall submit a written report to the APCO within 120 hours of the determination of non-compliance, indicating corrective actions taken to achieve compliance. (2-1-403)

### Condition #1162

For S – 4350 TO S-4353:

1. The Brown Boveri Gas Turbines, Sources S-4350 & S-4352 shall be fired on natural gas or LPG only except as allowed below:

In the event of an interruption of natural gas supply, the Gas Turbines may be fired on diesel fuel subject to the limitations given in part #3 and all other applicable parts listed.

Chevron shall submit a written report to the District within 10 days of the start of any PERIOD OF DIESEL FUEL USE detailing the circumstances of the service curtailment.

Chevron may perform backup fuel system testing on each Gas Turbine (S-4350 and S-4352) using low sulfur diesel fuel up to once per calendar month and once per year after scheduled annual shutdowns, provided that each testing event does not last longer than 1.5 hours, no more than two tests are performed per day, and no more than 130 bbls of fuel per event are consumed. Total testing time shall not exceed 39 hours per year and total fuel consumption shall not exceed 3380 bbls.

Chevron shall total the amount of hours required for the backup fuel system testing of S-4350 and S-4352, and this amount shall count against the total hours specified in part 3 below.

(basis: BACT)

2. The Heat Recovery Steam Generator (HRSG) Burners (S-4351, S-4353, S-4345) shall be fired on refinery fuel gas or natural gas exclusively. (basis: BACT)
3. The use of diesel fuel shall not exceed 864 gas turbine hours per year for the facility, where gas turbine hours are calculated by adding together the hours on diesel for each turbine. (basis: BACT)
4. Each HRSG burner set shall not be operated during periods when the upstream Gas Turbine is not firing fuel. (basis: BACT)
5. The maximum design capacity for the cogeneration facility will be 13683,000 MMBTU/yr (Brown Boveri). Calculations will be based on the lower heating values of the fuels. During any calendar year in which actual operation exceeds that level, reductions in emissions must be made elsewhere in the refinery in order to meet the refinery emission limits. In addition, the annual refinery and refinery-plus-wharf emission caps for NOx and NMHC will be reduced for only that year by 10% of the annual emissions resulting from firing above design rate. (basis: BACT)
6. The emissions of oxides of nitrogen (NOx) from each emission point shall not exceed 10 ppm<sub>dv</sub> at 15% oxygen, averaged over any 3-hour period, except during periods of startup and shutdown that shall not exceed two hours and one-half hour respectively. (basis: BACT)
7. A Selective Catalytic Reduction (SCR) system, capable of achieving the NOx limit specified in part #6,

## VI. Permit Conditions

- shall be installed in the HRSG. (basis: BACT)
8. Chevron shall install and operate a continuous system to monitor and record the fuel consumption and the ratio of steam injected to fuel fired in each Gas Turbine in accordance with District Regulation 10. (basis: Regulation 10)
  9. Only diesel fuel with a maximum sulfur content of .05% (by weight) shall be used. All diesel fuel documents certifying sulfur content shall be made available to the district upon request. (basis: BACT)
  10. The Oxidizing Catalyst (A70, A71, A72) shall reduce CO emissions from the gas turbines and HRSG Burners by at least 80% (by weight). (basis: BACT)
  11. The Oxidizing Catalyst (A70, A71, A72) shall reduce NHMC emissions from the Gas Turbines and HRSG Burners by at least 50% (by weight). (basis: BACT)
  12. Chevron shall install, calibrate and operate District approved continuous monitors for NO<sub>x</sub>, carbon monoxide, and either oxygen or carbon dioxide at each emission point. Records shall be kept on file for five years and made available to the District upon request. (basis: BACT)
  13. Deleted.
  14. Chevron shall provide stack sampling ports and platforms, the location of which shall be subject to the approval of the District. (basis: BACT)
  15. Deleted.
  16. Chevron shall maintain appropriate records for the last five years of operation (i.e. fuel usage rates, Gas Turbine load levels, hours of operation, ratio of steam injected to fuel fired, etc.) to verify compliance with all listed permit conditions. The cogeneration project's non-fugitive emissions shall be included within the refinery emission cap. Chevron's computer monitoring of emissions shall be changed to include these emissions. (basis: BACT)
  17. Deleted
  18. \*The total emissions of ammonia from the Gas Turbines and HRSG Burners shall not exceed 20 ppm, averaged over a three hour period. (basis: toxics)
  19. \*The stack from the cogeneration facility shall be constructed to a height above ground-level of 41.9 meters or the ground level impact of the pollutants at the project site shall be mitigated. (basis: toxics)
  20. If for any reason, diesel fuel is fired and actual NO<sub>x</sub> or hydrocarbon emissions exceed the emissions levels which were offset initially ( Tables 4-1a and 4-1b), then Chevron shall reduce the annual "refinery cap" and "refinery and wharf cap" for NO<sub>x</sub> and NMHC for that year only by 10% of the annual emissions resulting from firing above the previously offset rate. This reduction will result in the required offset ratio of 1.1:1 for NO<sub>x</sub> and NMHC being provided. Additional offsets for TSP, SO<sub>2</sub>, and CO, if needed, shall be provided by phasing down or shutting down other pieces of equipment under the cap such that the cap itself is not exceeded. This reduction will result in the required offset ratio of 1:1 for TSP, SO<sub>2</sub> and CO being provided. (basis: offsets)

### Condition #1331

For S-4415:

- \*1. The asphalt loading rack S-4415 shall not be operated unless it is vented to A-37 mist eliminator except when A-37 is down for cleaning. (basis: cumulative increase)
2. When the abatement device A-37 is down for cleaning or repairs, Chevron shall not load more than 238,000 gallons of asphalt per day. (basis: cumulative increase)
3. When the abatement device A-37 is down for cleaning or repairs, Chevron shall maintain a District

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approved record of the daily throughput. This information shall be kept for at least five years and be made available to District representatives upon request. (basis: cumulative increase)

**Condition#** 2238 Plant 10, Application #8452 For S-3100 at Plant 10:

1. The owner/operator of S-3100 shall not exceed 14,000,000 barrels of crude oil throughput during any consecutive twelve-month period. The owner/operator may store materials other than crude oil provided that the owner/operator demonstrates that there is no increase in emissions and the toxic emissions will not exceed the respective toxic trigger levels. (BACT)
2. The owner/operator shall maintain a zero gap seal between the tank shell and the tank's dual seals. (Basis: Regulation 8, Rule 5/BACT)
3. The owner/operator of S-3100 shall only store materials with a vapor pressure that shall not exceed 11.0 psia. The concentration of benzene of materials stored shall not exceed 2.0 wt.%. (BACT/Toxics)
4. The owner/operator of S-3100 shall maintain records of storage tank throughput, type, benzene weight percentage, storage vapor pressure, 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. (BACT)
5. The owner/operator shall control S-3100 by a liquid-mounted primary mechanical seal and a zero-gap secondary wiper 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. 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. (BACT/TBACT)

Fitting Type	Control Technique
Access hatch	Bolted cover, gasketed
Guide pole/Well (amended per AN 8452)	Slotted with a pole sleeve that projects below liquid surface, a zero-gap pole wiper, and a exterior flexible barrier/cover that covers all of the slots
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: The owner/operator of S-3100 shall have the exterior flexible barrier/cover installed by 2/4/04. (BACT)

The owner/operator of S-3100 shall inspect the exterior flexible barrier/cover to determine that it is functioning properly and has no holes or leaks at least twice per calendar year at 4 to 8 month intervals. (BACT)

COND# 2856 -----

Plant 10, Application #10401

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For S-399 at Plant 10:

1. The owner/operator of S-399 shall not exceed 3,500,000 barrels of material throughput during any consecutive twelve-month period. (cum inc)
2. The owner/operator of S-399 shall only store materials with a vapor pressure that shall not exceed 10.0 psia and the annual average vapor pressure shall not to exceed 7.0 psia. (cum inc)
3. The owner/operator of S-399 shall maintain a district approved monthly log of all storage tank throughput, type, storage vapor pressure, annual average material vapor pressure and all inspection records. These records shall be kept on site for at least 5 years from the date of entry and be made available to District staff upon request. (2-1-403)

### Condition #3697 For S – 1799:

1. Throughput at S-1799 shall not exceed 7,200,000 Bbls. During any consecutive 12 month period. (basis: cumulative increase)
2. Deleted.
3. S-1799 shall store only gasoline, Penhex, Reformate, Crude Oil, Jet A, any material which is exempt from District permitting requirements (as long as the storage of this exempt material has been properly reported to the District), or any other petroleum hydrocarbon material with a vapor pressure (TVP) less than Penhex (8.0 @ 70F) and toxicity less than Reformate (8.1% Benzene by weight). (basis: cumulative increase)
4. The owner/operator of S-1799 shall maintain records of the storage tank throughput in order to confirm compliance with part #1. These records shall be summarized on a monthly basis, and may be in the form of computer generated data ~~which~~ that are 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)

### Condition #4233 For S-1908 S-1911, S-1913, S-1914, S-1915, S-1919, S-2917, S-2918, S-2920, S-2921:

- \*1. The annual throughput for the following sources shall not exceed the amount listed as follows:
- |                      |                    |
|----------------------|--------------------|
| -Sources 1913, 1914  | 225,000 bbl/yr ea. |
| -Sources 2917 & 2918 | 20,000 bbl/yr ea.  |
| -Source 1908         | 1,750,000 bbl/yr   |
| -Source 1915         | 1,000,000 bbl/yr   |
| -Source 1919         | 500,000 bbl/yr     |
| -Source 2920         | 150,000 bbl/yr     |
| -Source 2921         | 5,000 bbl/yr       |

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(basis: cumulative increase)

- \*2. Water scrubbers abating all the asphalt storage tanks, shall be maintained in good working condition and operated at all times. (basis: cumulative increase)
- \*3. The owner/operator of S-1908, S-1911, S-1913, S-1914, S-1915, S-1919, S-2917, S-2918, S-2920, and S-2921 shall maintain records of the storage tank throughput in order to confirm compliance with part #1. These records shall be summarized on a monthly basis, and may be in the form of computer generated that 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)

### Condition #4650 For S – 3110, S-3111, S-3192, S-3200:

Pertaining to Tanks only:

Pertaining to DEBRU Operations:

1. 1.POC emissions from S-3110, S-3111, and S-3192 shall be abated by at least 98.5% (wt) by the A-3200 furnace F-1100B incinerator. (Note: 6/17/91 Source Test: 99.7%) (< 1 ppm) abatement (basis: BACT)
2. Abated POC emissions from S-3110, S-3111, and S-3192 combined shall not exceed 1.0 lb/day. (Note: 6/17/91 Source Test: < 1.0 lbs/day) (basis: BACT)
3. \*Abated benzene emissions from S-3110, S-3111, and S-3192 combined shall not exceed 0.04 lb/day. (Note: 6/17/91 Source Test: 0.333 lbs/day) (basis: toxics)
4. \*The benzene liquid concentration in S-3111, and S-3192 shall not exceed 1% (wt) (10,000 ppm) at any time. (Note: 12/19/90 Source Test: 1800 ppm Bz at Carbon inlet. ) (basis: toxics)
5. The A-3200 furnace shall be maintained a minimum operating temperature of 1000 F as measured at the roof of the radiant section. The owner/operator of S-3200 shall install and maintain a continuous temperature monitor/recorder in order to demonstrate compliance with this condition. Thermowell monitor and Chevmon used to verify compliance. (basis: BACT)
6. The A-3200 vent gas shall be exhausted directly into the gas burner flames in F-1100B. No vent gas shall exhaust into an unlit burner. The fuel oil burner system used for the A-3200 vent gas shall be properly installed, properly maintained, and in good operating order such that no bypassing or leaking of vent gas occurs outside of the F-1100B gas burner flame pattern. (basis: BACT)
7. The S-3200 DEBRU system shall contain a continuous flow monitor/recorder on both the nitrogen purge gas stream and the vent gas stream to the A-3200 abatement device in order to demonstrate that all vent and purge gasses are flowing to A-3200. Continuous monitoring of the set-point for the vent gas and nitrogen purge gas control valves will be adequate to demonstrate compliance with this condition. (basis: BACT and cumulative increase)
8. The S-3200 DEBRU shall have a continuous pressure monitor/recorder in order to confirm that no unintended leaks, depressurizations, or bypasses to atmosphere occur.
  - A. Any bypass of the A-3200 F-1100B furnace, other than venting from a properly operating pressure relief valve, shall be considered a violation of District regulations and shall be reported to District Enforcement staff per the District’s breakdown or emergency variance procedures.
  - B. Venting from any properly operating pressure relief valve in the S-3200 system shall be reported in writing to the District within 14 days of the venting event. (basis: BACT)

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9. The organic concentration measured at all new pump seals associated with the S-3200 Desalter Effluent Treatment Unit shall not exceed 100 ppm measured as methane one centimeter from the source. (basis: BACT)
10. All new pump seals associated with S-3200 shall have water seal flush systems which operate at a higher pressure than the process side of the pump seal and prevent process leaks to atmosphere. (basis: BACT)
11. The owner/operator of S-3110, S-3111, S-3192, and S-3200 shall maintain appropriate records to confirm compliance with parts 5, 7, and 8. (basis: BACT and cumulative increase)
12. Deleted.
13. Deleted.
14. Deleted.

### Condition #4714 For S – 9321 TO S-9325:

1. Deleted.
2. Owner/Operator shall perform necessary source tests to establish a specific range of combustion zone temperature which will ensure that the emissions of precursor organic compounds are reduced at least 95% by weight from uncontrolled conditions or the emissions do not exceed 2 lbs per 1000 barrels loaded. (basis: 8-44)
3. Owner/Operator shall install instrumentation to and record the following:
  - A. Static pressure in the marine tank vessel,
  - B. oxidizer exhaust temperature,
  - C. Hydrocarbons and flow to determine mass emissions or a concentration measurement alone if owner/operator can demonstrate to the satisfaction of the APCO that a concentration alone assurance of compliance, or
  - D. Any other device that verifies compliance, with prior approval from the APCO for the purposes of Chevron Refinery's Bubble Permit # 27797, hydrocarbon emissions charged to the emission cap will be the emissions recorded by the continuous hydrocarbon monitor. If the monitor is not operating, owner/operator shall calculate uncontrolled emissions as specified in Bubble Permit # 27797 and use a 95% (by weight) reduction factor to determine controlled emissions. The need for the hydrocarbon analyzer will be reviewed by the APCO prior to reissuance of the initial permit to operate. (basis: 8-44)
4. Deleted.
5. 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. The vapor recovery system must be maintained to be leak free, gas tight and in good working order. For "the purposes" of this condition, "operational" shall mean the system is achieving the reductions required by Part No (basis: Rule 8, Rule 44)
6. The vapor recovery system shall be operated such that the temperature of the exhaust from the incinerator is greater than 1200oF after startup (basis: 8-44)
7. Deleted
8. Owner/Operator shall not exceed a loading pressure greater than 80% of the lowest relief valve set pressure of the vessel being loaded. 8-44)
9. All maintenance records required for the vapor recovery system at this facility, which are subject to

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Regulation 8, Rule 44, shall be kept on site for five years and made available to the District upon request. (basis: -8-44)

### Condition #5270 For S – 21: S-21, QCD Recovered Tank 21Tk:

1. The total throughput for S-21 shall not exceed 30,000 gallons in any consecutive 12 month period. (basis: cumulative increase)
2. The owner/operator of S-21 shall maintain records of throughput in a District approved log to demonstrate compliance with Part #1. These records shall be kept on-site and made available for District inspection for a period of 60 months from the date on which the record is made. (basis: cumulative increase)

### Condition #5640 For S – 4410:

1. The total quantity of coatings applied at S-4410 Maintenance Spray Booth shall not exceed 500 gallons in any consecutive twelve month period. (basis: cumulative increase)
2. \*All coatings containing hexavalent chromium shall be applied with a brush at S-4410. (basis: toxics)
3. The total quantity of cleanup solvent used at S-4410 shall not exceed 55 gallons in any consecutive 12 month period. (basis: cumulative increase)
4. The owner/operator of S-4410 shall maintain written records of coating and solvent usage on a monthly basis to verify compliance with parts #1 and #3. These records shall be retained on-site for a minimum of five years from the date of entry and made available to District personnel upon request. (basis: cumulative increase and toxics)

### Condition #6001 For S – 4286:

1. Completed.
2. All new pressure relief valves associated with this project shall be vented to the refinery flare recovery system. (basis: BACT)

### Condition# 5599

The Abrasive Blasting Cabinet (S-4422) shall be vented to the properly operated and properly maintained dust collector (A-4422).

### Condition #6660 For S – 3189:

1. The individual tank throughput at S-3189 shall not exceed 12,000,000 barrels of non-permit exempt stock during any consecutive 12 month period. (basis: cumulative increase)
2. S-3189 shall store only gasoline components, jet fuel components, diesel, or other petroleum hydrocarbon material with a vapor pressure (TVP) less than or equal to 11.0 psia, and a benzene content less than or equal to 9.9% by weight. In addition, all other toxic air contaminant emissions, not including benzene, shall not exceed their respective risk screening trigger levels (compliance with this term has been determined through District Air Toxics Division assessment at the time of permit evaluation) (basis: cumulative increase and toxics).
3. The owner/operator of S-3189 shall maintain records of the storage tank throughput, type, and TVP in order to confirm compliance with the above conditions. These records shall be summarized on a monthly basis, and may be in the form of computer generated data that 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, toxics)

### Condition #6661 For S – 3190:

1. Total hydrocarbon throughput for S-3190 shall not exceed 7,300,000 barrels in any consecutive 12 month period. (basis: cumulative increase)

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2. S-3190 shall store only MTBE, Jet "A", or any other District approved POC material which has a vapor pressure that is no higher than the vapor pressure of MTBE (6.5 psia) and is no more toxic than MTBE (based upon District established toxics screening thresholds). The owner/operator of S-3190 shall submit a written notification (X-Form) to the District within 30 days after storing any new products other than MTBE and Jet "A" in S-3190. (basis: cumulative increase and toxics)
3. The owner/operator of S-3190 shall maintain records of storage tank throughput in order to confirm compliance with Part #1. These records shall be summarized on a monthly basis, and may be in the form of computer generated data that 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)
4. All new valves shall be either live loaded packing design, bellows sealed, diaphragm type, or other approved equipment design. All new flanges shall use graphitic gaskets or other District approved equivalent design. (Per correspondence w/ J. Adkins, valve criteria designated herein "oes not apply to valves < 2 inches.") (basis: BACT)

### Condition #7583 For S – 3191:

1. The total throughput for S-3191 Storage Tank shall not exceed 2,000,000 Bbls of non-exempt stock in any consecutive 12 month period. (basis: cumulative increase)
2. Deleted.
3. S-3191 may store any liquid provided the storage vapor pressure of MTBE, any MTBE mixture, or any non-toxic liquid shall not exceed 10.95 psia. The storage vapor pressure of any other material shall not exceed 6.2 psia and shall not have a greater toxicity than Avgas. (basis: cumulative increase and toxics)
4. The owner/operator of S-3191 shall maintain records of the storage tank throughput and type of stock in order to confirm compliance with parts #1 and #2. These records shall be summarized on a monthly basis, and may be in the form of computer generated data that 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 five years. (basis: cumulative increase and toxics)

### Condition #7642 For S – 3181, S-6050, S-6052:

For S-6050 (MTBE plant) at Plant 10

1. There shall be no venting of hydrocarbons from S-6050 except as provided for in District Regulations regarding routine shutdown procedures and/or during upset conditions. All process vents shall be directed to a flare gas recovery system. (basis: BACT)
2. Deleted.
3. Deleted.
4. Throughput of methanol at S-3181 shall not exceed 620,000 barrels per year. (basis: (cumulative increase)
5. Amount of Methanol imported to S-3181 by railcar shall not exceed 33,000 barrels (approximately 60 railcars) per year. (basis: cumulative increase)

**For S-6052 (Methanol loading Racks) at Plant 10 (Construction Cancelled):**

1. Methanol unloading arms at S-6052 shall incorporate dry-break connections to minimize fugitive emissions associated with connection and disconnection. There shall be no visible drip or leakage from the dry-break connections. (basis: BACT)



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COND# 7880 -----

S-9304

Pursuant to BAAQMD Toxic Section policy, this facility's annual throughput shall not exceed 500,000 gallons in any consecutive 12 month period.

### Condition #8180

For fugitive emissions a, Plant 10

1. All fugitive emission components shall comply with the requirements of Regulations 8-18 or the following leak rates whichever is more stringent. Concentrations are expressed as methane measured at 1 cm from the component. (basis: BACT)
2. The following type of fugitive emission components, or District-approved equivalent technology, shall be utilized for all new components installed at S-4235

Pumps, heavy liquid:	Single mechanical seal
Valves, heavy liquid:	Flexible graphite packing
Valves, light liquid:	Live-loaded or flexible graphite packing
Flanges, heavy liquid	Graphite gasket
Flanges, light liquid:	Graphite gasket
Compressors, vapor:	High pressure oil seal

(basis: BACT)

### Condition #8252 For S-3197 at Plant 10:

1. Throughput at S-3197 shall not exceed 4,000,000 barrels during any consecutive twelve-month period. (basis: BACT)
2. Deleted.
3. S-3197 shall only store gasoline, sponge oil, sour water, naphtha feed, MTBE, Reformate, any material which is exempt from District permitting requirements (as long as the storage of this exempt material has been properly reported to the District), or any other petroleum hydrocarbon material with a vapor pressure less than unleaded gasoline (6.2 psia at 70 deg F) and toxicity less than Reformate (8.1% benzene by weight). (basis: cumulative increase and toxics)
4. The owner/operator of S-3197 shall maintain records of storage tank throughput in order to confirm compliance with Part #1. These records shall be summarized on a monthly basis, and may be in the form of computer generated data that 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: BACT)

### Condition #8253 For S – 3193:

1. Throughput at S-3193 shall not exceed 9,500,000 bbls. During any consecutive 12 month period. (basis: cumulative increase)
2. Deleted.
3. S-3193 shall store only gasoline, gasoline components, MTBE, Reformate, any material that is exempt from District permitting requirements (as long as the storage of this exempt material has been properly reported to the District), or any other petroleum hydrocarbon material with a toxicity less than Reformate (8.1% Benzene by weight). The vapor pressure of liquids stored in S-3193 shall not exceed 10.95 psia

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(basis: cumulative increase and toxics)

4. The owner/operator of S-32193 shall properly install a guidepole sleeve as an interim measure and shall ultimately install an unslotted guidepole at S-3193 (or other emission control device approved by the APCO) according to District Variance proceeding, Docket #2721. (basis: cumulative increase)
5. The owner/operator of S-3193 shall maintain records of the storage tank throughput in order to confirm compliance with part #1. These records shall be summarized on a monthly basis, and may be in the form of computer generated that 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 and toxics)

### Condition #8503 For S – 679:

1. Throughput of jet fuel components at S-679 shall not exceed 1,000,000 bbls during any consecutive 12 month period. (Basis: cumulative increase)
2. Deleted.
3. S-679 shall only store jet fuel components or any material, which is exempt from District permitting requirements (as long as the storage of this exempt material has been properly reported to the District). The vapor pressure of Jet fuel components stored at S-679 shall not exceed 3.2 psia (TVP). (Basis: cumulative increase)
4. The owner/operator of S-679 shall maintain records of storage tank throughput in order to confirm compliance with part #1. These reports shall be summarized on monthly basis, and may be in the form of computer generated data that 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)

### Condition #8715 For S-3198:

1. Total Liquid Throughput (regulated stock only) for S-3198 shall not exceed 500,000 Bbls in any 12 month consecutive period. (basis: cumulative increase)
2. Only Toluene, Jet A, Distillate Oil, exempt materials as defined in BAAQMD Regulation 2 Rule 1, or any material deemed by District staff to be equivalent to Toluene or Jet A with regard to toxicity and vapor pressure shall be stored in S-3198. (basis: cumulative increase)
3. The owner/operator of S-3198 shall maintain written records of the throughput and type of each liquid stored at S-3198 in a District approved log. These records shall remain on-site for a minimum of five years from the date of entry and made available to district representatives on request. (basis: cumulative increase)

### Condition# 8773 For fugitive emissions at S-4251, Plant 10:

1. All light-liquid pumps at S-4251 shall have their shaft seals vented to at least one of the following furnaces S-4152, S-4153, S-4154, or S-4155. Any furnace to which pump seals are vented shall be properly operated and maintained at all times that the pumps are operating. Vent gas shall be exhausted directly into a gas burner flame and shall not exhaust into an unlit burner. The seal vent system shall be equipped with continuous flow monitors in order to demonstrate that all vent gases are flowing to an operating furnace. Sections of the vent system may be temporarily shutdown for repair or maintenance while the pumps are in service as long as the pumps and other fugitive components that are normally abated by the vent system comply with the requirements of Regulation 8-18. These temporary shutdowns for repair and maintenance shall not exceed 14 days in any consecutive 12 month period. The owner/operator shall monitor the fugitive components for compliance with Regulation 8-18 within 24 hours of repair or maintenance period commencing. The owner/operator shall operate non-leaking pumps if available during these periods of maintenance and repair of the vent gas system. (cum inc)

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2. All pressure relief valves at S-4251 shall be vented to a flare gas recovery system. (cum inc)

### For S-4155, Plant 10:

1. The NO<sub>x</sub> emitted from S-4155 shall not exceed 8.85 lb/hour (averaged over any rolling 3-hour period). This NO<sub>x</sub> emissions limit shall not apply to S-4155 during the startup or shutdown period of S-4155. For S-4155, startup periods shall last no more than 36 hours after the first burner is lit. For S-4155, the shutdown period shall begin 12 hours before the last burner is extinguished. (cum inc)

The time of first burner lighting and last burner extinguishment shall be determined based on the NO<sub>x</sub> CEM data and/or continuous hourly fuel flow data of S-4155. The first NO<sub>x</sub> reading recorded by the properly operating CEM after S-4155 is cold started from zero fuel flow, will be considered the point at which startup has begun. The time of last burner extinguishment (the end of the shutdown period) will be considered the time when the fuel flow to S-4155 is zero.

The NO<sub>x</sub> mass rate shall be calculated as follows based on the concentration (ppm NO<sub>x</sub>, corrected to 3% O<sub>2</sub>, dry) as measured by the CEM and the firing rate (BTU/hr) based on the fuel gas meter for S-4155: lb NO<sub>x</sub>/hour = [ppm NO<sub>x</sub>](1 lb-mole/386 scf)(46 lb NO<sub>2</sub>/lb-mole NO<sub>2</sub>)(0.01077 dscf flue gas/BTU)[million BTU/hour]

2. The concentration of CO emitted from S-4155 shall not exceed 50 ppmv corrected to 3% O<sub>2</sub>, dry. Compliance with this CO limit shall be based on the average of three 30-minute test runs as specified in BAAQMD Source Test Procedure ST-6. (BACT)
3. S-4155 shall be equipped with a District-approved O<sub>2</sub> monitor and a District-approved continuous NO<sub>x</sub> monitor.
4. To confirm compliance with the NO<sub>x</sub> and CO limits in conditions #1 and #2, respectively, and to verify the accuracy of the NO<sub>x</sub> monitor required by condition #3, the owner/operator of S-4155 shall conduct a source test within 60 days of start-up after the physical modification of the equipment. The District Source Test Manager shall approve the source test procedures as well as the installation and location of testing ports, instrumentation, and platforms. After the above approval is received, the owner/operator shall notify the District Permit Services Division and the District Source Test Manager at least two weeks prior to performing any source test. Source test results shall be submitted to the District Source Test Section and the Permit Services Division within 45 days of completing the test. (cum inc, BACT)
5. The concentration of H<sub>2</sub>S in the fuel gas at S-4155 shall not exceed 50 ppm averaged over any 24-hour period. To confirm compliance with this condition, either S-4155 or the fuel gas mix drum supplying fuel gas to S-4155 shall be equipped with a continuous H<sub>2</sub>S monitor, and this information shall be made available for District inspection for a period of 24 months from the date on which a record is made. (BACT)
6. Fuel usage at S-4155 shall not exceed 209 MMBtu/hr on an annual average basis. To confirm compliance with this condition, records of fuel usage at S-4155 shall be recorded in a District-approved log, summarized on a monthly basis, and made available for District inspection for a period of 24 months from the date on which a record is made. (BACT)

### Condition #8869 For S-32103:

1. The A-620 through 626 and A-414 Thermal Oxidizers shall have a minimum VOC destruction efficiency of 95% by weight, minimum of 1 sec residence time, and minimum of 1400 deg F oxidizer temperature. (basis: BACT)
2. Each Thermal Oxidizer shall have a continuous temperature monitor. Each pump duct shall have a continuous flow monitor. (basis: BACT)
3. The owner/operator shall monitor twice daily and record in a District approved log the temperature of each of the thermal oxidizers. Records shall be kept on site and made available for District inspection for

**VI. Permit Conditions**

a period of 60 months from the date on which the record is made. (basis: BACT)

**Condition #9048 For S-4253:**

For fugitive emissions at S-4253:

1. All new flanges installed at S-4253 shall be equipped with graphite-based gaskets, metal ring joints, or District-approved equivalent technology. (basis: BACT)
2. All new valves at S-4253 shall be live-loaded or graphitic-packed valves or District approved equivalent technology. (basis: BACT)
3. All new pressure relief valves at S-4253 shall be vented to a flare gas recovery system.
4. All new pumps at S-4253 shall have single mechanical seals or District-approved equivalent technology. (basis: BACT)
5. The increase in fugitive POC emissions from S-4253 as a result of this modification shall not exceed 11.65 lb/day. The owner/operator of S-4253 shall submit a revised pump, valve, flange, and PSV count within 30 days of startup in order to confirm compliance with this limit. If the increase in fugitive POC emissions from S-4253, calculated in accordance with District procedures, is not equal to 11.65 lb/day, then the District may adjust the change in the cumulative increase attributed to this permit application before the issuance of the permit to operate. (basis: cumulative increase)

Additional Conditions for S-4159 (TKC F-410 Furnace) & S-4160 (TKC F-420 Furnace) under RLOP Permit

**Condition #10160**

For	S-90	S-285	S-697	S-942	S-1342	S-1614
	S-98	S-286	S-698	S-945	S-1430	S-1615
	S-172	S-579	S-877	S-946	S-1457	S-1629
	S-179	S-580	S-881	S-985	S-1483	S-1630
	S-189	S-614	S-903	S-986	S-1484	S-1631
	S-199	S-618	S-904	S-987	S-1536	S-1740
	S-233	S-622	S-906	S-1022	S-1537	S-1741
	S-247	S-633	S-911	S-1023	S-1606	S-1982
	S-248	S-693	S-919	S-1054	S-1607	S-263
	S-694	S-923	S-1069	S-1608	S-3011	S-281
	S-695	S-925	S-1277	S-1609	S-3059	S-282
	S-696	S-940	S-4243	#11-2 Battery, including S-4005 F-101 and		
	S-4307	F-102	S-4260	#1 deoiler Portions of S-32102 and S-32103: 1A		
	rectifier, 4 rectifier, PERCO swe K-4 compressor.					

Per District Regulation 2-4-302.1, use of this Banking

1. Certificate shall be restricted to offsetting emissions in the petroleum (basis: Rule 2-4-302.1)
2. This Banking Certificate shall be cancelled if any of the following equipment is ever operated in the Bay Area Air Basin: S-4243 #11-2 Battery, including S-4005 F-101 and  
 S-4307 F-102  
 S-4260 #1 deoiler  
 Portions of S-32102 and S-32103: 1A rectifier, 4 rectifier, PERCO sweeteners,-4 compressor.

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### Storage Tanks:

S-90	S-285	S-697	S-942	S-134	S-1614
S-98	S-286	S-698	S-945	S-1430	S-1615
S-172	S-579	S-877	S-946	S-1457	S-1629
S-179	S-580	S-881	S-985	S-1483	S-1630
S-189	S-614	S-903	S-986	S-1484	S-1631
S-199	S-618	S-904	S-987	S-1536	S-1740
S-233	S-622	S-906	S-1022	S-1537	S-1741
S-247	S-633	S-911	S-1023	S-1606	S-1982
S-248	S-693	S-919	S-1054	S-1607	S-263
S-694	S-923	S-1069	S-1608	S-3011	S-281
S-695	S-925	S-1277	S-1609	S-3059	S-282
S-696	S-940				

(basis: Regulation 2, Rule 4)

### Condition #10597 For S-6054:

1. Hydrocarbon emissions from S-6054 shall not exceed 2.5 lbs/day, averaged over any 30-day consecutive period. (basis: cumulative increase)
2. Total dissolved solids at the S-6054 inlet shall not exceed 1000 ppm (wt), averaged over any consecutive 30-day period. (basis: cumulative increase)
3. Deleted.

### Condition #10598 For S-6055:

1. Hydrocarbon emissions from S-6055 shall not exceed 2.5 lbs/day, averaged over any 30-day consecutive period. (basis: cumulative increase)
2. Total dissolved solids at the S-6055 inlet shall not exceed 1000 ppm (wt), averaged over any consecutive 30-day period. (basis: cumulative increase)
3. Deleted.

### Condition #10761 For S-6200 TO S-6239:

1. Storage Tanks S-6200 through S-6219 shall be assigned to any portable polyethylene storage tank of approximately 150 barrels capacity. One source number may be assigned to many different tanks over a period of time, but may only be assigned to one tank at any given time. The total "non-permit exempt" liquid throughput for Storage tanks S-6200 through S-6219 shall not exceed 36,000 barrels per calendar year. Each source number shall not store "non-permit exempt" material for more than 180 days during any calendar year. (basis: cumulative increase)
2. Storage Tanks S-6220 through S-6239 shall be assigned to any portable steel storage tank of approximately 500 barrels capacity. One source number may be assigned to many different tanks over a period of time, but may only be assigned to one tank at any given time. The total "non-permit exempt" liquid throughput for Storage tanks S-6220 through S-6239 shall not exceed 120,000 barrels per calendar year. Each source number shall not store "non-permit exempt" material for more than 180 days during any calendar year. (basis: cumulative increase)
3. Storage tanks S-6200-S-6239 may store any material provided the true vapor pressure is less than 11 psia, and the benzene concentration is less than or equal to that of Reformate. (basis: cumulative increase and toxics)
4. Portable Polyethylene Storage Tanks S-6200-S-6219 shall not store materials with a true vapor pressure

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- above 4.0 psia, unless the tank is abated by at least one of the Carbon Adsorption Systems A-6200 through A-6239. (basis: cumulative increase)
5. Portable Steel Storage Tanks S-6220-S-6239 shall not store materials with a true vapor pressure above 1.5 psia, unless the tank is abated by at least one of the Carbon Adsorption Systems A-6200 through A-6239. (basis: cumulative increase)
  6. Carbon Adsorption Systems A-6200 through A-6239 used to comply with Parts 4 or 5 shall each consist of at least two approximately 200 pound carbon canisters arranged in series. (basis: cumulative increase)
  7. Carbon Adsorption Systems A-6200 – A-6239 used to comply with Parts 4 and 5 shall each be monitored for concentration at three sample points on a daily basis. This monitoring frequency may be reduced once the breakthrough time is determined for a given material and type of storage tank. One monitoring point shall be placed prior to the first carbon container; the second monitoring point shall be between the first and second carbon containers; the third monitoring point shall be placed after the last carbon container. (basis: cumulative increase)
  8. Carbon Adsorption Systems A-6200-A-6239 shall each maintain a minimum control efficiency of 99% by complying with the following: If the reading at the monitoring point after the last canister is greater than 100 ppm as C1, then each of the carbon containers must be immediately replaced with a container of fresh carbon (basis: BACT)
  9. The monitoring of each Carbon Adsorption System A6200-A6239 used to comply with Parts 4 and 5 shall be conducted with an OVA/FID (flame ionization detector) monitor or District approved alternate monitor. Monitoring shall occur while the tank is breathing out, preferably while the tank is being loaded at more than 90% of the tank's maximum loading rate. If the tank is not likely to breathe out during the day, monitoring shall be conducted between the hours of 10:00 am and 2:00 pm. (basis: cumulative increase)
  10. The first carbon container shall be removed when the hydrocarbon concentration at the second monitoring point is either: greater than 10% of the hydrocarbon concentration at the first monitoring point or greater than or equal to 1000 ppmv as C1. The second carbon container shall replace the first carbon container and a fresh carbon container shall be placed in the last container position. (basis: cumulative increase)
  11. To demonstrate compliance with the above conditions, the owner/operator of Storage Tanks S-6200-S-6239 shall either maintain the following records at a central refinery location in a District Approved log, or shall be able to generate these records on short notice:
    - A. The types of "non-permit exempt" materials stored and dates that the materials were stored in a given tank.
    - B. The total daily throughput of "non-permit exempt" material stored, summarized on a monthly basis.
    - C. If the emissions from a tank are not abated by a Carbon Adsorption System, the true vapor pressure of any "non-permit exempt" material must be measured and recorded on the day the tank is filled.
    - D. The date that each carbon container was taken out of service.(basis: cumulative increase)
  12. 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 A/C/PTO. All measurements, records and data required to be maintained by the applicant shall be retained at least five years following the date the data is recorded." (basis: cumulative increase, toxics)

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### Condition #10908 For S-1489:

Throughput at S-1489 shall not exceed 2,500,000 barrels of non-exempt stock during any consecutive 12-month period. (basis: cumulative increase)

Deleted

The storage vapor pressure of any mixture stored in S-1489 shall not exceed 6.2 psia. The concentration of benzene of material stored shall not exceed 4.9 vol%. (basis: cumulative increase and toxics)

The owner/operator of S-1489 shall maintain records of storage tank throughput, type, and storage vapor pressure in order to confirm compliance with Part 1. These records shall be summarized on a monthly basis, and may be in the 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 five years. (basis: cumulative increase)

### Condition #10909 For S-992:

Throughput at S-992 shall not exceed 6,000,000 Bbls of non-exempt stock in any consecutive 12-month period. (basis: cumulative increase.

Deleted.

The storage vapor pressure of any mixture stored in S-992 shall not exceed 9.0 psia. The concentration of benzene of materials stored shall not exceed 4.9 vol%. (basis: toxics and cumulative increase)

The owner/operator of S-992 shall maintain records of storage tank throughput, type, and storage vapor pressure in order to confirm compliance with Part 1. These records shall be summarized on a monthly basis, and may be in the 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 five years.

### Condition #10967 For S – 1052:

1. Total diesel fuel additive throughput at S-1052 shall not exceed 46,000 gallons (1095 Bbls) during any consecutive 12-month period. (basis: cumulative increase BACT)
2. S-1052 may store the fuel additives 2-ethylhexyl nitrate, Nalco Flomor 5375 Cold Pour Improver, or Dupont Corrosion Inhibitor DCI #4A, or any other fuel additive provided the storage vapor pressure does not exceed that specified in BAAQMD Regulation 8, Rule 5 § 117 (TVP< 0.5 psia), and S-1052's emissions do not exceed the levels that trigger a District Toxic risk Screen. (basis: Regulation 8, Rule 5 and toxics)
3. The owner/operator of S-1052 shall maintain monthly records of fuel additive throughput in a District approved log. These records shall be retained on site for a minimum of five years from the date of entry and made available to District personnel upon request. (basis: cumulative increase, Regulation 8, Rule 5, toxics)

### Condition #11024 For S-3185:

- \*1. Throughput at S-3185 shall not exceed 20,000,000 Bbls of non-exempt stock during any consecutive 12 month period. (basis: cumulative increase)
2. Deleted.
- \*3. The storage vapor pressure of any mixture stored in S-3185 shall not exceed 0.30 psia. The concentration of benzene of materials stored shall not exceed 0.1 vol%. (basis: cumulative increase and toxics)
- \*4. The owner/operator of S-3185 shall maintain records of storage tank throughput, type, and storage vapor pressure in order to confirm compliance with Part 1. These records shall be summarized on a monthly basis, and may be in the 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 five years. (basis: cumulative increase and toxics)

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### Condition # 11025

Plant 10, Application #7919

For S-3106 at Plant 10:

1. The owner/operator of S-3106 shall not exceed 30,000,000 barrels of crude oil throughput during any consecutive twelve-month period. The owner/operator may store materials other than crude oil provided that the owner/operator demonstrates that there is no increase in emissions and the toxic emissions will not exceed the respective toxic trigger levels. (BACT)
2. The owner/operator shall maintain a zero gap seal between the tank shell and the tank's dual seals. (Basis: Regulation 8, Rule 5/BACT)
3. The owner/operator of S-3106 shall only store materials with a vapor pressure that shall not exceed 11.0 psia. The concentration of benzene of materials stored shall not exceed 2.0 wt.%. (BACT/Toxics)
4. The owner/operator of S-3106 shall maintain records of storage tank throughput, type, benzene weight percentage, storage vapor pressure, 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. (BACT)
5. The owner/operator shall control S-3106 by a liquid-mounted primary mechanical seal and a zero-gap secondary wiper 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. (BACT/TBACT)

Fitting Type	Control Technique
Access hatch	Bolted cover, gasketed
Guide pole/Well (amended per AN 7919)	Slotted with a pole sleeve that projects below liquid surface, a zero-gap pole wiper, and a exterior flexible barrier/cover that covers all of the slots
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

6. The owner/operator of S-3106 shall inspect the exterior flexible barrier/cover to determine that it is functioning properly and has no holes or leaks at least twice per calendar year at 4 to 8 month intervals. (BACT)

:

1.

### Condition #11066 For S-4285:

1. Feed rate to the FCC reactor S-4285 shall not exceed 80,000 BPD averaged over any calendar year, nor 90,000 BPD over any calendar day. (basis: 2-1-301)



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2. The owner/operator shall conduct a District approved source test on every fifteenth day that S-4285 throughput exceeds 80 MBPD, and annually thereafter. The test shall analyze for POC and PM10. The District shall review and revise the frequency of the source testing of S-4285 at the time of annual permit renewal based on the result sof previous tests. (basis: BACT)
- 3a. SO<sub>2</sub>, NO<sub>x</sub>, CO, POC, PM10 emissions shall not exceed the following limits in any- consecutive 12 month period
  - SO<sub>x</sub> – 2199.4 tpy;
  - NO<sub>x</sub> – 1504.7 tpy;
  - CO – 258.4 tpy;
  - POC – 6.1 tpy;
  - PM10 – 92 tpy
- 3b. The owner/operator of S-4285 catalyst regenerator shall not exceed 1 pound of PM emissions per 1000 pounds of coke burn-off as determined by EPA Method 5B or 5F. PM emissions during startup, shutdown or malfunction shall not be used in determining compliance with this limit, provided that good air pollution control practices to minimize PM emissions are implemented during such periods. The FCCU Catalyst Regenerator shall comply with the applicable requirements of NSPS subparts A and J for PM. (NSPS Subparts A and J, Consent Decree case No. 03-04650, 6/27/05)
- 3c. The owner/operator of S-4285 catalyst regenerator shall not exceed 30% opacity (6-minute average basis). Opacity during startup, shutdown or malfunction shall not be used in determining compliance with this limit, provided that good air pollution control practices to minimize opacity are implemented during such periods. The FCCU Catalyst Regenerator shall comply with the applicable requirements of NSPS Subparts A and J for opacity. (NSPS Subparts A and J, Consent Decree case No. 03- 04650, 6/27/05)
4. The concentration of SO<sub>2</sub> emitted from S-4285 shall not exceed 330 ppmv/24 hour, corrected to 3% O<sub>2</sub>. (basis: BACT)
5. The concentration of NO<sub>x</sub> emitted at S-4285 shall not exceed 220 ppmv/24 hour, or 180 ppmv/30 day, or 150 ppmv/year, corrected to 3% O<sub>2</sub>. (basis: BACT)
- 6a. The concentration of CO emitted from S-4285 shall not exceed 67 ppmv/30 day, or 50 ppmv/year, corrected to 3% O<sub>2</sub>, dry. (basis: BACT)
- 6b. The owner/operator of S-4285 shall not exceed 500 ppmv CO corrected to 0% O<sub>2</sub>, on a 1-hour average basis. CO emissions during startup, shutdown or malfunction shall not be used in determining compliance with this limit, provided that good air pollution control practices to minimize CO emissions are implemented during such periods. The FCCU Catalyst Regenerator shall comply with the applicable requirements of NSPS Subparts A and J for CO. (NSPS Subparts J, Consent Decree case No. 03-04650, 6/27/05)
- 6c. The owner/operator of S-4285 shall not exceed 100 ppmv CO corrected to 0% O<sub>2</sub>, on a rolling 365-day average basis. (Consent Decree case No. 03- 04650, Section D.26, 6/27/05)
- 7A. The TSP emitted from S-4285 after abatement shall not exceed 21 lbs/hr, averaged over any consecutive 365 day period using the time weighted average of all District-accepted third party and District performed source tests conducted on S-4285. District accepted third party tests shall be defined as those tests that meet all of the criteria in 7b. (basis: BACT)

To demonstrate compliance with the 21 lb/hr emission limit, owner/operator shall calculate the time weighted average of all District accepted third party and District performed particulate source tests conducted on S-4285 over the 365 day period preceding the most recent source test. Within 45 days of

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test completion, owner/operator shall calculate the time weighted average and submit the calculation with comprehensive report of the test results to the District's Source Test Manager for review. The calculation shall be done using the following procedure:

The start of the calculation period shall be the source test date that is closest to 365 consecutive days and at least 345 days back from the current test date.

All District-accepted and District performed source tests that occur from the start of the calculation period shall be included in the time weighted average.

The time-weighted average of all included test results is calculated by summing the average test results from each time interval, then multiplying each average by the period of that interval, then dividing by the sum of all intervals in the calculation period.

See equation 1 below:

$$\text{Rave} = \text{summation of } i=1 \text{ to } i=f-1 (t_i * ((R_i + R_{i+1}) / 2))$$

$$\text{Summation of } I=1 \text{ to } I=f-1 (t_i)$$

Rave = time weighted average of test results

R1 = results from first included source test

R<sub>i</sub> = results from source test *i*

R<sub>f</sub> = results from most recent source test

t<sub>i</sub> = time interval between included source tests R<sub>i</sub> and R<sub>i+1</sub>, days

The electrostatic precipitator (ESP) abating S-4285 shall be fully charged at all times of operation, except during periods of maintenance or servicing. The ESP abating S-4285 shall be properly maintained and kept in good working order. This shall include the following:

- (A1) Inspect each ESP rapper at least once per day. Inspection shall consist of visual inspection of the rapper control settings and status lights. Individual rappers found to out of service should be identified and appropriate repairs performed on the rappers. Owner/operator shall repair rappers that fail due to temporary short circuit or circuit overload that blow a fuse within 2 working days of ID. Owner/operator shall repair working rapper that fail due to an electric/electronic part within 30 days of ID. These dates may be adjusted upon approval of the District New Source Review Manager. (basis: BACT)
- (A2) A hopper level indicator of alarm on each ESP hopper in order to prevent overfilling of the hoppers. (basis: BACT)
- (A3) Monitor and record Transformer Rectifier (TR) set secondary current readings on a daily basis. (basis: BACT)
- (A4) Install a temperature monitor and recorder at the inlet to the ESP. The inlet temperature of the ESP shall be maintained at a minimum of 550F averaged over any one hour period. An alarm shall be set in such a manner as to indicate temperature excursions below 550F. (basis: BACT)
- (A5) The average secondary current of any TR set shall not be less than 200 milliamps averaged over any 3 hour period, or the secondary current of up to 2 TR sets may be less than 200 milliamps, averaged over any three hour period, as long as the remaining TR sets maintain an average secondary current above 296 milliamps averaged over any three hour period. An alarm shall be set in such a manner as to indicate secondary excursions below 200 milliamps. (Condition altered in Application #18188 dated 2/25/98 to allow for 2 TR sets to be below 200 milliamps)

The parametric conditions in condition #11066 may be adjusted administratively, if District-approved source test data demonstrate to the satisfaction of the APCO that alternate parametric conditions are necessary for or capable of maintaining compliance with an emission limit of 21.0 lbs/hr TSP as determined by US EPA method 5b, or other District approved equivalent. (basis:

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BACT)

- 7B. The average yearly TSP emissions rate of S-4285 shall be determined by US EPA method 5b. The owner/operator of S-4285 shall hire a 3<sup>rd</sup> party source testing firm to perform at least 4 source tests per calendar year to determine the hourly TSP emission rate of S-4285. Each source test shall be performed in accordance with the District's MOP. The owner/operator of S-4285 shall notify the District source Test manager and the Permit Services Division at least 7 days prior to the test, to provide the District staff the option of observing the test. Within 45 days of test completion, a comprehensive report of the test results shall be submitted to the District's Source Test Manager for review and disposition. The District may choose to perform any of the tests in place of the private contractor. At least one test shall be performed on every January 15, April 15, July 15, and October 15. These dates may be adjusted by not more than 10 working days upon approval of the District Source Test Manager. If this source test window partially or completely overlaps a plant shutdown and its 7-day startup period, the source test shall be conducted within 14 days of plant startup.(basis: BACT)
- 7C. To demonstrate compliance with 7a and 7b, the owner/operator of S-4285 shall maintain in a District approved log, updated monthly, all of the following:  
TSP emission source test results on S-4285, lbs/hr.  
The number of days between each source test.  
Calculated time weighted average TSP emissions in lbs/hr, for each source test conducted.  
Daily rapper inspection records indicating working condition and repairs.  
The number of broken rapper ceramic failures found during turnarounds.  
Daily ESP TR set secondary current readings; and  
ESP inlet temperature records.(basis: BACT)
8. The owner/operator of S-4285 shall conduct a District approved source test within 30 days of startup to verify the accuracy of the SO<sub>x</sub>, NO<sub>x</sub>, CO, O<sub>2</sub> monitors, and also measure the POC and TSP. (basis: BACT)
9. The owner/operator of S-4285 shall continuously monitor and record SO<sub>x</sub>, NO<sub>x</sub>, and CO emissions from the FCCU regenerator outlet measuring only regenerator flue gas. Any new CEMs shall be reviewed and pre-approved by the District source Test Manager. (basis: BACT)
10. In addition to the above conditions, the owner/operator shall comply with either of the following and calculated in accordance to 40 CFR 60.106:  
(A) Maintain emission at or below 9.8 lbs of sulfur dioxide per 1000 lb of coke burn off, averaged over a 7 day rolling basis. The FCCU Catalyst Regenerator shall comply with the applicable requirements of NSPS Subparts A and J for SO<sub>2</sub>. (NSPS Supart J, Consent Decree case No. 03-04650, 6/27/05)  
(B). Process in FCC fresh feed that has a total sulfur content no greater than 0.30% by weight, averaged over a 7 day rolling basis. (basis: 40 CFR 60.106)
11. The owner/operator of S-4285 shall maintain a daily log of all SO<sub>x</sub>, NO<sub>x</sub>, and CO emissions, lb SO<sub>x</sub>/1000 lb coke burn – 7 day rolling–average, total sulfur content in feed – 7 day rolling average, total throughput, and source test data. This log shall be available to District staff upon request. (basis: BACT)
12. The owner/operator shall source test for heavy metals and PAHs within 90 days of startup. (basis: BACT)
13. The owner/operator of S-4285 shall shut down S-15 Steam Generator upon startup of S4285. (basis: BACT)
14. The owner/operator of S-4285 will not be required to meet the emission limits contained in parts 4 – 7 for

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a period of 30 days after initial startup, or 7 days after any subsequent startups. (basis: BACT)

- \*15. Ammonia injected to pre treat flue gas feed into A0014 ESP shall not exceed 500 lbs/hr.” (basis: toxics)
16. With respect to the O2 CEMS required(Section A.15, B.20, and D.29 of consent decree) to correct emission measurements form S-4285, in lieu of the audit points specified in 40 CFR Part 60 Appendix F Section 5.1.2, the owner/operator may audit the O2 CEMs at 20-30% and 50-60% of the actual O2 CEMs span value. (Consent Decree case No.03-04650, 6/27/05)

### Condition #11193 For S-605,-S-610, S-660, S-6061, S-6066:

S-6061 – Alkane Groundwater Treatment Plant; S-0605–(Carbon Bed Feed Surge Tank), S-0610 – Process Vessel; A-607 (d-607A/B, two 175 lb carbon canisters in series); S-6066 Carbon Bed Feed Surge Tank; S-660 Process Vessel; and A-0615 (D-615A/D-615B) Carbon canisters.:

1. Total throughput for S-0605 (D-605, Carbon Bed Feed Surge Tank) and S-6066 (d655) carbon Bed Feed Surge Tank combined for a 12 month consecutive period shall not exceed 84.1 million gallons. (basis: cumulative increase)
2. Chevron shall equip flanges associated with S-6061, S-0605, and S-0610, S-6066 and S-0660 with graphite packed gaskets, or District approved equivalent technology. (basis: BACT)
3. For S-6061, S-0605, and S-0610, S-6066 and S-0660, Chevron shall use only live loaded valves or graphitic packed valves, or District approved equivalent technology. (basis: BACT)
4. No light liquid pumps shall be used at these sources, unless their shaft seals are vented to a District approved abatement device that achieves a minimum of 95% VOC destruction efficiency, or District approved equivalent technology. (basis: BACT)
5. Valves pump seals, and flanges shall comply with regulation 8 requirements (basis: Regulation 8,Rule 18) 6.S-0605 and S-6066 shall be vented at all times of operation to A-0607 (D-607A/D-607B, 2 ea 175 lb carbon canisters in series) and A-0615. (basis: BACT)
7. S-0610 (process vessel) shall be vented at all times of operation to A-0607, either directly, or via S-0605. S-0660 Process vessel shall be vented at all times of operation to A0615, either directly or via S-6066. (basis: BACT)
8. A-0607 and A-0615 shall have an overall abatement efficiency of at least 95% by concentration, unless the following criteria are met:  

The first carbon canister in series shall be changed out with unspent carbon upon detection of an outlet concentration of greater than 1000 ppmv measured as C1 above background 1 cm from the outlet with a flame ionization detector (OVA-FID) or other method approved in writing by the APCO, and

The outlet of the last carbon in series shall not exceed 500 ppmv measured as C1 above background 1 cm from the outlet with a flame ionization detector (OVA-FID) or other method approved in writing by the APCO. (basis: BACT)
9. The operator of A0607 and A0615 shall measure the organic compound concentration at least once per month. Readings shall be taken at the inlet and outlet of the first carbon canister and the outlet of the second carbon canister in series. These monitoring readings shall be recorded in a log as the readings are taken. The monitoring results shall be used to determine the carbon change out frequency necessary to maintain compliance with Part #8. (basis: BACT)
10. The annual average liquid benzene concentration in S-0605 and S-6066 shall not exceed 250 ppm (t) respectively. (basis: toxics)
11. Sampling and analysis of the fluid in S-0605 and s6066 shall be conducted semi-annually to verify

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compliance with Part #10. (basis: toxics)

12. The operator shall keep records of the following:
  - a. throughput
  - b. carbon change outs
  - c. each monitor reading or analysis result and the day of operation they are taken
  - d. S-0605 and S-6066 liquid sample results

These records shall be kept on file for a minimum of 5 years following the date the data is recorded and shall be made available to District personnel on request. (basis: -BACT, toxics)

### **Condition #11208 For S-870, S-1909, S-1911, S-6125:**

#### **For S-870 at Plant 10**

1. Throughput at S-870 shall not exceed 4,500 barrels of non-exempt stock during any consecutive twelve-month period. (basis: cumulative increase)
2. The storage vapor pressure of any mixture stored in S-870 shall not exceed 0.40 psia. (basis: cumulative increase)
3. S-870 may store the fuel additives DCI-4a, DMD-2, and AO-735, or any other fuel additive provided that the storage vapor pressure does not exceed the limit specified in Part #2 and the fuel additive is stored in quantities that do not trigger a District Toxic Risk Screen. (basis: cumulative increase and toxics)
4. The owner/operator of S-870 shall maintain records of storage tank throughput, type, and storage vapor pressure in order to confirm compliance with Parts #1, #2, and #3. These records shall be summarized on a monthly basis, and may be in the form of computer generated data that 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 and toxics)

#### **For S-1911 at Plant 10:**

1. Throughput at S-1911 shall not exceed 9,900 barrels of non-exempt stock during any consecutive twelve-month period. (basis: (cumulative increase)
2. The storage vapor pressure of any mixture stored in S-1911 shall not exceed 0.40 psia.. (basis: (cumulative increase)
3. S-1911 may store the fuel additives DCI-4a, DMD-2, andAO-735, or any other fuel additive provided that the storage vapor pressure does not exceed the limit specified in Part #2 and the fuel additive is stored in quantities that do not trigger a District Toxic Risk Screen. (basis: cumulative increase and toxics)
4. The owner/operator of S-1911 shall maintain records of storage tank throughput, type, and storage vapor pressure in order to confirm compliance with Parts #1, #2, and #3. These records shall be summarized on a monthly basis, and may be in the form of computer generated data that 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~~2~~ years. (basis: cumulative increase and toxics)

#### **For S-6125 at Plant 10**

1. Throughput at S-6125 shall not exceed 1,400 barrels of non-exempt stock during any consecutive twelve-month period. (basis: cumulative increase)
2. The storage vapor pressure of any mixture stored in S-6125 shall not exceed 0.40 psia (basis: cumulative increase)
3. S-6125 may store the fuel additives DCI-4a, DMD-2, and AO-735, or any other fuel additive provided that the storage vapor pressure does not exceed the limit specified in Part #2 and the fuel additive is stored in quantities that do not trigger a District Toxic Risk Screen. (basis: cumulative increase and toxics)

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4. The owner/operator of S-6125 shall maintain records of storage tank throughput, type, and storage vapor pressure in order to confirm compliance with Parts #1, #2, and #3. These records shall be summarized on a monthly basis, and may be in the form of computer generated data that 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 and toxics)

### For S-1909 at Plant 10:

1. Throughput at S-1909 shall not exceed 11,700 barrels of non-exempt stock during any consecutive twelve-month period. (basis: (cumulative increase).
2. The storage vapor pressure of any mixture stored in S-1909 shall not exceed 0.40 psia. (basis: (cumulative increase)
3. S-1909 may store the fuel additives DCI-4a, DMD-2, andAO-735, or any other fuel additive provided that the storage vapor pressure does not exceed the limit specified in Part #2 and the fuel additive is stored in quantities that do not trigger a District Toxic Risk Screen. (basis: cumulative increase and toxics).

The owner/operator of S-1909 shall maintain records of storage tank throughput, type, and storage vapor pressure in order to confirm compliance with Parts #1, #2, and #3. These records shall be summarized on a monthly basis, and may be in the form of computer generated data that 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~~2~~ years. (basis: cumulative increase and toxics)

### Condition #11228 For S – 957:

For S-957, Tank 957 - Fixed Roof Tank, 3272K gal, Iron brown, Jet ““A”” fuel, 120 ft diameter

1. Except for Jet ““A””, only a material exempt from permits per Regulation 2-1-123.3 shall be stored in S-957. (basis: offsets/cumulative increase)
2. The total Jet ““A”” throughput for S-957 shall not exceed 7.011 million barrels during any consecutive 12month period. (basis: offsets/cumulative increase)
- 3.
4. In order to demonstrate compliance with the above conditions, the owner/operator of S-957 shall maintain the following records in District approved log. These records may be in the form of computer generated data. 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)
  - (a) The type of all materials stored and the dates that the materials were stored.
  - (b) The total daily throughput of each materialstored, summarized on a monthly basis.

### Condition #11436 For S-1653:

1. Throughput at 1653 shall not exceed 750,000 Bbls of non-exempt stock for a calendar year. (basis: cumulative increase)
2. S-1653 may store jet fuel, jet line wash, diesel, diesel line wash, mixtures of jet and diesel, or any material exempt from permitting per regulation 2-1-123.3. (basis: cumulative increase)
3. The material stored in S-1653 shall not have a vapor pressure greater than 0.5 psia (basis: cumulative increase)
4. In order to demonstrate compliance with parts #1 and #2, the owner/operator of S-1653 shall maintain records of the following records in a District approved log. (Jet fuel, Jet line wash, diesel line wash or any mixture of jet and diesel shall be assumed to be non-exempt and count toward the throughput limit in part #1 unless it is exempt per Regulation 2-1-123.3. Pure diesel shall not count toward the throughput

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limit in part #1 since it is exempt per Regulation 2-1-123.3.) These records shall be summarized on a monthly basis, and may be in the form of computer generated data that is available to District personnel on short notice (rather than actual paper copies of throughput data). These records shall be kept on site for a minimum of 5 years from the date the record was made.

- (a) The type of all materials stored and ede the materials were stored.
- (b) The total daily throughput of each material stored, summarized on a monthly basis.””  
(basis: Cumulative increase)

### Condition #11775 S –For S-4701, S-4702, S-4703, IC Engines, at Plant 10

1. These sources (1500 scfm Portable Air Compressor powered by Diesel Engine) shall cease operation by January 31, 1995. (basis: Regulation 2, Rule 4)
2. Daily records shall be maintained, in a District approved logbook, for the hours of operation of the engines, and fuel usage. The logbook shall be kept on site and shall be made available to the District staff upon basis: record keeping)
3. Visible particulate emissions from the engine shall not exceed 1.0 on the Ringelmann Chart. (basis: Regulation 6)

### Condition #12104 For S-3214:

1. Total throughput for the external floating roof tank (S-3214) shall not exceed 3,000,000 Bbls during any 12 consecutive month period. (basis: cumulative increase)
2. Only refinery stock meeting all of the following requirements shall be stored in S-3214:
  - (a) True vapor pressure less than or equal to 11.0 psia
  - (b) Benzene Content less than or equal to 5.5%wt
  - (c) Toxic air contaminant emissions not exceeding their respective BAAQMD risk screening trigger levels. (basis: cumulative increase and toxics)
3. To demonstrate compliance with the above conditions, the following records shall be kept onsite and made available for District inspection for a period of 60 months from date on which the record is made:
  - (a) The Material stored.
  - (b) The true vapor pressure of the material
  - (c) The benzene content of the material.
  - (d) The monthly throughput.

(basis: cumulative increase and toxics)
4. Chevron shall provide Emission Reduction Credits in the amount of 3.28 TPY of POC for this project (Application #14518). The credits shall be provided to the District at least 30 days prior to the date of Plant #10's annual permit renewal. (Done 4/17/95, along with 3189Tk, and 3213Tk) (basis: offsets)

Note 1. Tank 3214 (S-3214) shall be controlled by a metallic shoe primary seal that extends below the liquid surface, and a zero gap secondary seal. There shall be no ungasketed roof fittings. Except for the roof legs, each roof fitting shall be of the design that yields the minimum roof fitting losses (per EPA Compilation of Air Emission Factors, AP-42, Supplement E, Section 13.3.2, 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) "Enviroseal" meets this control requirement for a slotted well.
Gauge Float well	Gasketed
Gauge Hatch/Sample Well	Weighted Mechanical Actuation, gasketed

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Roof Drain	Roof drain does not drain water into product
Roof Leg	Adjustable, with vapor seal boots
Rim Vent	Weighted mechanical actuation, gasketed

Note 1 Slotted guide Pole Control Configuration, per addendum to API Publication 2517, May 1994, shall include the following components: (CAPITALs indicate configuration/approval of Ultracheck "Enviroseal" System)

- (a) Sliding Cover
- (b) Well Gasket
- (c) Pole sleeve with pole wiper approximately 6 inches above sliding cover, OR NON-PERMEABLE FABRIC SKIRT FUNCTIONING AS A POLE SLEEVE, or District approved equivalent
- (d) Float with float wiper approximately 1 inch above sliding cover, OR ALTERNATELY A FLOAT WITH MULTIPLE WIPERS.-(basis: BACT)

### Condition #12139 For S – 3213:

1. Total throughput of non-permit exempt stocks for the external floating roof tank (S-3213) shall not exceed 9,100,000 Bbbls during any 12 consecutive month period. (basis: cumulative increase)
2. Only refinery stock meeting all of the following requirements shall be stored in S-3214:
  - (a) true vapor pressure less than 11.0 psia
  - (b) benzene content less than 5.5% wt
  - (c) toxic air contaminant emissions not exceeding their respective BAAQMD risk screening trigger levels.  
(basis: cumulative increase and toxics)
3. To demonstrate compliance with the above conditions, the following records shall be kept onsite and made available for District inspection for a period of 60 months from date on which the record is made:
  - (a) The material stored.
  - (b) The true vapor pressure of the material.
  - (c) The benzene content of the material.
  - (d) The monthly throughput.  
(basis: cumulative increase and toxics)
4. Chevron shall provide Emission Reduction Credits in the amount of 4.72 TPY of POC for this project (Application #14448). The credits shall be provided to the District at least 30 days prior to the date of Plant #10's annual 1995 (for the year 95-96) permit renewal. (Done 4/17/95, along with 3189Tk, and 3214Tk). (basis: offsets)
5. Deleted.
6. Tank 3213 (S-3213) shall be controlled by a metallic shoe primary seal that extends below the liquid surface, and a zero gap secondary seal. There shall be no ungasketed roof fittings. Except for the roof legs, each roof fitting shall be of the design that yields the minimum roof fitting losses (per EPA Compilation of Air Emission Factors, AP-42, Supplement E, Section 13.3.2, 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
Guidepole/Well	Solid, OR Slotted with controls per API 2517 Addendum (See note 1) Ultracheck "Enviroseal" meets this control requirement for a slotted well.
Gauge Float well	Gasketed
Gauge Hatch/Sample Well	Weighted Mechanical Actuation, gasketed



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Roof Drain	Roof drain does not drain water into product
Roof Leg	Adjustable, with vapor seal boots
Rim Vent	Weighted mechanical actuation, gasketed

Note 1 : Slotted guide Pole Control Configuration, per addendum to API Publication 2517, May 1994, shall include the following components: (CAPITALs indicate configuration/approval of Ultracheck "Enviroseal" System)

- (a.) Sliding Cover
- (b.) Well Gasket

Pole sleeve with pole wiper approximately 6 inches above sliding cover, OR NON-PERMEABLE FABRIC SKIRT FUNCTIONING AS A POLE SLEEVE, or District approved equivalent  
Float with float wiper approximately 1 inch above sliding cover, OR ALTERNATELY A FLOAT WITH MULTIPLE WIPERS."”(basis: BACT)

### Condition #12177 For S-3139

1. This Banking Certificate shall be cancelled if any of the following equipment (S-3139) is ever used to store non-permit exempt stock in the Bay Area Air Basin : S-139, Storage Tank T-3139 – 199087 gals."”(basis: Regulation 2, Rule 4)

### Condition #12580 For S-1821 and S-1894:

““Application # 14858, Condition #12580 and #18137 for S-1821 & S-1894:

For S-1821 and 1894, sulfuric acid and phosphoric acid storage tanks at Plant #10:

- \*1. The owner/operator of these sources shall not store in these sources any non-permit exempt liquids, except sulfuric acid in S-1821, and phosphoric acid in S-1894"”(basis: toxics)

### Condition # 12842 For S-6250:

1. S-6250 Oil Water Separator shall be vented at all times to at least two 1800 pound activated carbon vessels arranged in series. (basis: cumulative increase)
2. A-630 Carbon shall be replaced by A-631 carbon upon the detection of 10% of the inlet stream concentration to the carbon bed as measured by a flame ionization detector (OVA-FID) or other method approved in writing by the APCO. A-631 shall then be replaced by unspent carbon. (basis: cumulative increase)
3. A-631 Carbon shall be changed out with unspent carbon upon detection of breakthrough or 10 ppmv as C1 as measured with a flame ionization detector (OVA-FID) or other method approved in writing by the APCO. (basis: cumulative increase)
4. The limits set forth in Parts # 2 and # 3 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 OVA-FID probe. Concentrations measured with the carbon filter tip in place shall be considered methane for the purpose of these permit conditions. (basis: cumulative increase)
5. The operator of this source shall monitor with a FID or other method approved in writing by the APCO at the following locations:
  - A. At the exhaust of S-6250; the inlet to A-630.
  - B. At the exhaust of A-630; the inlet to A-631.
  - C. At the outlet of A-631.(basis: cumulative increase)
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. Calculate the time of predicted breakthrough of organics after carbon adsorption to maintain compliance with part 3.
  - B. Estimate the frequency of carbon change out necessary to maintain compliance with part2.

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- C. To maintain compliance with parts 2 and 3 the monitoring shall be conducted once during each 24 hour period of operation. At least one monitoring event shall take place during each period when S-6250 is in service. 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: cumulative increase)
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 hours of operation.
  - (b) Each monitor reading or analysis result for the day of operation they are taken.
  - (c) The calculation of organic breakthrough from the carbon beds. The number of carbon beds removed from service.
- Any exceedance of parts 2 and/or 3 shall be reported to the Permits Division with the log as well as the corrective action taken. In addition, an exceedance of parts 2 and/or 3 shall be submitted to the District Enforcement Section at the time it occurs. The submittal shall detail the corrective action taken and shall include the data showing the exceedance as well at the time of occurrence. (basis: cumulative increase)
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 ~~two~~ years following the date the data is recorded. (basis: cumulative increase)

### Condition# 13008 For S-3201, Whole Alkylate Storage Tank, 170,500 BBL, at Plant #10:

1. Total throughput of non-permit exempt stocks for the external floating roof tank (S-3201) shall not exceed 7,300,000 barrels during any consecutive 12 month period.(basis: (cumulative increase)
2. The owner/operator of S-3201 may store refinery petroleum hydrocarbon stocks other than alkylate as long as the true vapor pressure is 6.0 psia or less and the toxic risk from the tank does not increase. (basis: cumulative increase and 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 60 months from the date on which a record is made.
- (a.) The material stored
  - (b.) The true vapor pressure of the material
  - (c.) The monthly throughput
- (basis: cumulative increase and toxics)
4. Deleted.
5. S-3201 shall be controlled by a liquid-mounted primary mechanical seal and a zero-gap secondary wiper 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   |
| Guide pole/Well | Solid, or Slotted with controls per API 2517 Addendum<br>(See Note 1below) |

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Gauge float well	Gasketed
Gauge hatch/Samplewell	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: 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 non-permeable fabric skirt functioning as a pole sleeve, or District approved equivalent;
- D. Float with float wiper approximately 1 inch above the sliding cover, or alternately a float with multiple wipers. (basis: BACT)

**Condition #13364 For S – 3202: S-3202 Tank Methanol Storage Tank**

Deleted.

COND# 13364 -----

Operation of S-3202 Methanol Storage Tank, 150,000 BBL, is subject to the following conditions:

1. The owner/operator of S-3202 shall not exceed 4,000,000 barrels throughput of non-exempt stock in any consecutive 12 month period. (BACT)
2. The owner/operator may store petroleum hydrocarbon stocks other than methanol as long as the true vapor pressure is 8.33 psia or less and emissions of toxic compounds do not exceed any risk screening trigger level. (BACT)
3. The owner/operator of S-3202 shall not store any materials with a benzene concentration that exceeds 8.1% by weight. In order to demonstrate compliance with this condition the owner/operator shall conduct quarterly tests to determine the benzene concentration. The owner/operator of S-3202 may use specification sheets when available instead of quarterly testing. (toxics)
4. The owner/operator of S-3202 external floating roof tank shall be equipped with a metallic shoe primary seal that extends below the liquid surface 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. 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. (BACT)

Fitting Type	Control Technique
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Access hatch	Bolted cover, gasketed
Guide pole/Well	unslotted guide pole, gasketed sliding cover with wiper; or slotted with a liner from the top of the well to below the roof when landed on its legs
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
Rim vent	Weighted mechanical actuation, gasketed

5. The owner/operator of S-3202 shall maintain a district approved log of all throughput, vapor pressure, and either specification sheets or quarterly tests for benzene concentrations for all materials stored in S-3202. This log shall be kept on site for at least 5 years from the date of entry and be made available to district staff upon request. (record keeping)

### Condition #13366 For S – 3207:

S-3207 Tank FCC Heavy Gasoline Tank

1. Throughput for non-exempt stocks shall not exceed 900,000,000 MBbls in any consecutive 12 month period. (basis: cumulative increase)
2. The owner/operator of S-3207 may store petroleum hydrocarbon stocks other than FCC Heavy Gasoline as long as the True Vapor Pressure is 6.2 psia or less, and the toxic risk from the tank does not increase. (basis: cumulative increase and toxics)
3. All gauge wells shall have no slot above the liquid level. All guide poles with organic liquids in them shall have floats with wiper seals.”” (basis: cumulative increase)

### Condition #13369 For S – 4282, S-4346, S-4348, S-4355, S-4357, S-4358: Conditions on Fugitive Emissions

Operation of new or modified equipment in the following plants:

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1. Butamer Section of DIB/Butamer Plant (S-4355)
2. C4 Treating Plant (S-4357)
3. FCC Gasoline Hydrotreater (S-4358)
4. Hydrogen Recovery Plant Modernization (S-4348)
5. Gas Recovery Unit (S-4346)

shall be subject to the following conditions:

1. The owner/operator shall use flanges equipped with graphite-based gaskets (Teflon-based gaskets for acid service), metal ring joints, or District approved equivalent technology. (basis: BACT)
2. For valves that are 2 inches or less and on process streams with greater than 2 wt% benzene, the owner/operator shall wherever feasible (but no less than 95% of these valves) use bellows-sealed valves or District-approved equivalent technology. All other valves shall be live-loaded or graphitic-packed valves (Teflon/graphitic packed valves for acid service), or District-approved equivalent technology. (basis: BACT and toxics)
3. For all light-liquid pumps and compressors, the owner/operator shall have their shaft seals vented to a District-approved abatement device that achieves a minimum of 95% VOC destruction efficiency or District approved equivalent technology. (basis: BACT)
4. For all heavy liquid pumps, the owner/operator shall use double mechanical seals or District approved equivalent technology. (basis: BACT)
5. The owner/operator shall vent all pressure relief valves in non-exempt hydrocarbon service to a flare gas recovery system. (basis: BACT)
6. For all process drains, the owner/operator shall use the "p-trap" design or District approved equivalent technology. (basis: BACT)
7. The owner/operator shall inspect fugitive sources with greater than 10 wt% benzene on a monthly basis per NESHAP 40 CFR 61. Other non-exempt valves, pump seals, and compressor seals shall be inspected on a quarterly schedule per District Regulation 8, Rules 18 and 25. (basis: NESHAP 40 CFR 61 and Regulation 8, Rules 18 and 25)
8. Valves and flanges shall be subject to a 100 ppm leak detection limit. Pump seals and compressor seals shall be subject to a 500 ppm leak detection limit. [basis: Regulation 8, Rule 18]
9. The total fugitive POC emissions increase as a result of the entire Reformulated Gasoline Project and FCC Modernization Project (Application No. 18240) shall not exceed 76.4 tons per year. The owner/operator shall submit a revised pump, compressor, valve, flange, and pressure relief valve count within 60 days of start-up in order to confirm compliance with this limit. If the total fugitive POC emissions increase, calculated in accordance with District procedures, is not equal to 76.4 tons per year, then the District will adjust the change in cumulative increase attributed to this permit application'. (basis: cumulative increase)

### Condition #13370

S-6016 & S-6019 flare pilots shall be fueled continuously with natural gas or refinery fuel gas. The flare will be operated only during periods of emergency upset or breakdown. Routinely vented process gases may not be flared. (basis: cumulative increase)

S-6016 & S-6019 flaring shall be steam-assisted to prevent smoking. (basis: Regulation 2-1-403)

### Condition #13467 For S – 3196:

1. Throughput at S-3196 shall not exceed 2,000,000 bbls. During any consecutive month period. (basis: cumulative increase)
2. S-3196 shall only store only petroleum stocks or mixtures with a vapor pressure not to exceed 10.95 psia and benzene content not to exceed 9 wt%, or any other stock that is exempt from District permitting

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requirements. (basis: cumulative increase and toxics)

3. The owner/operator of S-3196 shall maintain records of the storage tank throughput in order to confirm compliance with part #1. These records shall be summarized on a monthly basis, and may be in the form of computer generated data that 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 and toxics)

### Condition #13597 For S-1798 at Plant 10:

1. Throughput at S-1798 shall not exceed 7,200,000 barrels during any consecutive twelve-month period. (basis: (cumulative increase)
2. Deleted.
3. S-1798 shall only store gasoline, Penhex, Reformate, Jet A, any material that is exempt from District permitting requirements (as long as the storage of this exempt material has been properly reported to the District), or any other petroleum hydrocarbon material with a vapor pressure less than Penhex (8.0 psia at 70 deg F) and toxicity less than Reformate (8.1% benzene by weight). (basis: cumulative increase and toxics)
4. The owner/operator of S-1798 shall maintain records of storage tank throughput in order to confirm compliance with Part #1. These records shall be summarized on a monthly basis, and may be in the form of computer generated data that 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 and toxics)

### Condition # 13859 For S – 3134 and 4292:

1. Total throughput of non-exempt stocks for the external floating roof tank (S-3134) shall not exceed 10,000,000 Bbls of Jet fuel , gasoline components, or any other petroleum hydrocarbon material with a vapor pressure (true) less than or equal to 11.0 psia, and benzene content less than or equal to 4.1% by weight during any consecutive 12 month period. (basis: Rule 2-1-234) (basis: cumulative increase and toxics)
2. To demonstrate compliance with Parts #1 , the following records shall be kept, on a monthly basis, on site and made available for District inspection for a period of 60 months from the date on which the record is made:
  - A. the material stored,
  - B. the vapor pressure and benzene content of the material stored,
  - C. the total monthly throughput of material subject to Part #1.(basis: toxics, cumulative increase)””

### Condition # 14596 For S – 6051:

#### Prior to completion of work authorized under application # 13023:

1. Organic compound emissions from S-6051 shall not exceed 23.7 lb/day, averaged over any consecutive 30-day period. (basis: (cumulative increase)
2. Total dissolved solids in the S-6051 basin shall not exceed 2000 parts per million (wt), average over any consecutive 30-day period. (basis: (cumulative increase)
3. In order to demonstrate compliance with both condition numbers 1 and 2, the owner/operator of S-6051 shall conduct district approved monthly tests on the cooling water for both POC and TDS. The owner/operator of S-6051 shall maintain a district approved monthly log of all test data. This log shall be kept on site for at least 5 years from the date of entry and be made available to district staff upon request. (Recordkeeping)

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### After completion of work authorized under application # 13023:

COND# 14596 -----

Chevron USA Products Company; plant 10 Conditions for S-6051, Alky CWT

1. POC emissions from S-6051 shall not exceed 30.2 lb/day, averaged over any consecutive 12-month period. (cumulative increase/offsets)
2. Total dissolved solids in S-6051 basin shall not exceed 2000 parts per million (wt), averaged over any consecutive 30 day period. (cumulative increase)
3. The owner/operator shall install a District- approved continuous hydrocarbon analyzer and recorder to determine the hydrocarbon concentration in the cooling water in Alky Cooling Water Tower (S-6051). 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 and to determine compliance with part 1. 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 implementation of this permit condition shall be subject to the approval of the district upon startup of the cooling tower. (BACT)
4. Once the alarm is triggered, the owner/operator shall also measure, with a district-approved LEL monitor, the concentration of hydrocarbons in the S-6051 Cooling Tower vapor space as a percent of the lower explosive limit (LEL) once each calendar day while the hydrocarbon reading remains above the Action level. (BACT)
5. The owner/operator of S-6051 shall either repair any leaking heat exchanger, remove the leaking heat exchanger, or otherwise remove the source of the leak within 15 days of detection of the leak as identified by the alarm set at the Action level. If the owner/operator identifies the source of a leak to be E-1404, E-1421, or E-1220 located in the Alkylation Unit (S-4291), or E-400 located in the Yard Deisobutanizer (S-4355), the owner/operator of S-6051 shall remove the leaking heat exchanger from service, or otherwise eliminate the source of the leak, within 30 calendar days or less from the alarm trigger date. If the concentration of hydrocarbons in the cooling tower vapor space exceeds 10 percent of LEL, the owner/operator shall remove the leaking heat exchanger from service, or otherwise eliminate the source of the leak as soon as practicable, but within 15 days or less of exceeding the 10 percent of LEL limit. (BACT)
6. In order to demonstrate compliance with part 2, the owner/operator of S-6051 shall conduct district approved monthly tests on the cooling water for TDS. The owner/operator of S-6051 shall maintain a district approved monthly log of all test data. This log shall be kept on site for at least 5 years from the date of entry and be made available to district staff upon request. (Record keeping)
7. In order to demonstrate compliance with part 1, the owner/operator of S-6051 shall use volatile organic concentration data from the continuous hydrocarbon analyzer from part 3 and the flowrate data from district-approved flowmeters installed at district-approved sample port locations. The owner/operator of S-6051 shall maintain a district-approved daily log of all hydrocarbon analyzer concentration data, flowrate data, and daily emissions estimates. This log shall be kept on site for at least 5 years from the date of entry and be made available to district staff upon request. (1-523, BACT, Record keeping)
8. The owner/operator of S-6051 shall maintain a district approved daily log of all hydrocarbon

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analyzer data, flowmeter data, daily emissions data, date and time of all alarms, a summary of the baseline and action levels data, a description of findings and actions taken for each incident above the Action level, and all LEL measurements. This log shall be kept on site for at least 5 years from the date of entry and be made available to district staff upon request. (Record keeping)

### Condition #14701 For S – 4291 and S-4356:

Operation of new or modified equipment in the following plants

1. Alkylation Plant (S-4291)
2. Deisobutanizer Section of the DIB/Butamer Plant (S-4355)
3. TAME Plant (S-4356)
4. Aromatics Saturation Unit (S-4282)

[The C4 Treating Plant, FCC, FCC Gasoline Hydrotreater, and the Hydrogen Recovery Plant Modernization have not yet been constructed/modified. These sources have been deleted from this part and are subject to Condition #13369, Application No. 18240) shall be subject to the following conditions:

1. The owner/operator shall use flanges equipped with graphite- based gaskets (Teflon-based gaskets for acid service), metal ring joints, or District-approved equivalent technology. (basis: BACT)
2. For valves that are 2 inches or less and are on process streams with greater than 2 wt% benzene, the owner/operator shall wherever feasible (but no less than 95% of these valves) use bellows-sealed valves or District-approved equivalent technology. All other valves shall be live-loaded or graphitic-packed valves (Teflon/graphitic packed valves for acid service), or District approved equivalent technology. (basis: BACT and toxics)
3. For all light-liquid pumps and compressors, the owner/operator shall have their shaft seals vented to a District-approved abatement device that achieves a minimum of 95% VOC destruction efficiency or District approved equivalent technology. (basis: BACT)
4. For all heavy liquid pumps, the owner/operator shall use double mechanical seals or District-approved equivalent technology. (basis: BACT)
5. The owner/operator shall vent all pressure relief valves in non-exempt hydrocarbon service to a flare gas recovery system. (basis: BACT)
6. For all process drains, the owner/operator shall use the “p-trap” design or District-approved equivalent technology. (basis: BACT)
7. The owner/operator shall inspect fugitive sources with greater than 10 wt% benzene on a monthly basis per NESHAP 40 CFR 61. Other non-exempt valves, pump seals, and compressor seals shall be inspected on a quarterly schedule per District Regulations 8-18 and 8-25. (basis: NESHAP 40 CFR 61 and Rule 8-18)
8. Valves and flanges shall be subject to a 100 ppm leak detection limit. Pump seals and compressor seals shall be subject to a 500 ppm leak detection limit [Basis: Regulation 8, Rule 18]
9. Deleted
10. The total throughput at S-4291 shall not exceed 36,000 barrels per calendar day. (basis: (cumulative increase)
11. The owner/operator of S-4291 shall maintain a district approved daily log of all throughput at S-4291. This log shall be kept on site for at least five years from the date of entry and be made available to district staff upon request. (basis: cumulative increase)



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### Condition #15038 For S – 3133:

1. Total throughput of non-exempt stocks for the external floating roof tank 3133 (S-3133) shall not exceed 15,000,000 MBbls during any consecutive 12 month period. S-3133 shall store jet fuel, gasoline components, or any other petroleum hydrocarbon material with a vapor pressure (TVP) less than or equal to 11.0 psia, and a benzene content less than or equal to 4.1% by weight. In addition, all other toxic air contaminant emissions, not including benzene, shall not exceed their respective risk screening trigger levels. (basis: BACT and Rule 2-1-234)
2. The owner/operator of S3189 shall maintain records the storage tank throughput, type, and TVP in order to confirm compliance with condition 1. These records shall be summarized on a monthly basis, and may be in the form of computer generated data that 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: BACT and toxics)
3. To meet the requirements of section 2-2-302, Chevron shall provide to the District Emission Reduction Credits in the amount of 6.16 tons POC per year at least 30 days prior to the date of the 1998 annual permit renewal. ((basis: Regulation 2-2-302)

### Condition # 15107 For S – 25:

1. The total volume of Automate Blue 8 stored in Storage Tank S-25 shall not exceed 60 Bbls (2520 gallons) during any consecutive 12 month period (basis: cumulative increase).
2. In order to demonstrate compliance with the above conditions, Chevron shall maintain the following 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 the record was made.
  - (a) The purchase records that show the amount of Automate Blue 8 purchased per month used at S-25. The purchased amount shall be considered to be equal to the volume of Automate Blue 8 stored.  
(basis: cumulative increase)

### Condition #15671 For S – 1635:

1. Total throughput for non-exempt stocks for S-1635, internal floating roof tank, shall not exceed 2,000,000 barrels in any consecutive 12 calendar month period. (Basis: Cumulative Increase)
2. The Permit Holder may store petroleum hydrocarbon stocks other than gasoline as long as the true vapor pressure is 8.3 psia or less, the concentration of benzene is 5.5 weight % or less, and the toxic risk from the tank does not increase. (Basis: toxics risk screen)
3. The Permit Holder shall maintain records of the storage tank throughput in order to confirm compliance with part 1 above. These records may be in the form of computer generated reports that are available to District personnel on short notice (rather than actual paper copies of throughput data). (Basis: Cumulative Increase)
4. 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 true vapor pressure of the material
  - C. The benzene weight percent
  - D. The monthly throughput(Basis: Cumulative Increase and toxics risk screen)
5. Deleted.
6. S-1635 shall be controlled by a liquid-mounted primary mechanical seal and a zero-gap secondary wiper

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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
Guide pole/Well	Solid, or Slotted with controls per API 2517 Addendum (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: Slotted Guide Pole Control Configuration, per Addendum to API Publication 2517, May 1994, shall include the following components:

- Sliding cover;
- Well gasket;
- Pole sleeve with pole wiper approximately 6 inches above sliding cover, or non-permeable fabric skirt functioning as a pole sleeve, or District approved equivalent; (Basis: Regulation 8, Rule 5)

- Chevron shall provide ERCs in the amount of 0.88 tpy of POC for this project to replace their S-1635 storage tank (appl #18516) The credits shall be provided to the District at least 30 days prior to the date of Plant 10's annual permit renewal (Basis: Emission Offsets)

### Condition # 15698 For S – 4148 and 4393: Conditions for A-261 and A-262:

- Washwater temperature shall not exceed 80 degree Fahrenheit during any 3-hour averaging period. (Basis: Regulation 8, Rule 2)
- Each Hydrogen Plant De-Aerator Vent shall not have a vent flow above 5000 pounds per hour during any 3-hour averaging period. (Basis: Regulation 8, Rule 2)
- Washwater flow in each scrubber (A-261 and A-262) shall not average less than 30 gallons per minute during any 3-hour averaging period. (Basis: Regulation 8, Rule 2)
- For each scrubber (A-261 and A-262), the ratio of washwater to De-aerator vent flow shall not be less than 11.6 gallon/minute for each 1000 pounds/hour of De-aerator vent flow during any 3-hour averaging period. (Basis: Regulation 8, Rule 2)
- The parametric condition limits above shall not apply during the 72 hour periods preceding and following any Hydrogen Plant shutdown. (Basis: Regulation 2-1-403)
- These parametric limits may be adjusted administratively, if District-approved data demonstrate to the satisfaction of the APCO that alternative parametric conditions are necessary for or capable of maintaining compliance with the emission limits of Regulation 8, Rule 2 as determined by the designated method, or by a District-approved equivalent. (Basis: Regulation 8, Rule 2)
- A-261 and/or A-262, water scrubbers, shall abate the emissions from the Hydrogen Plant De-Aerator vents, whenever they are emitting methanol. One scrubber may be used to abate the De-Aerator vents from both the Hydrogen Plant Trains. (Basis: Regulation 8, Rule 2)

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8. To determine compliance with Regulation 8-2-301, a source test shall be performed on the scrubber vent by the District or by a District-approved source test contractor within 60 days of startup of the scrubber abatement system. The test method shall be the test method specified in Regulation 8, Rule 2, or a District-approved equivalent.

Compliance with the 15 lb/day organics emission limit of Regulation 8-2-301 shall be determined based on the sum of the average source tested emission rate from the scrubber vent plus the District-approved calculated scrubber drain emission rate of 8.3 lb/day organics (as carbon) or an alternate District-approved scrubber drain emission rate that is less than 8.3 lb/day organics (as carbon). (basis: Regulation 8, Rule 2)

The Permit Holder shall notify the Manager of the District's Source Test Section at least seven days prior to the test, to provide the District staff the option of observing the testing. Within 45 days of test completion, a comprehensive report of the test results shall be submitted to the Manager of the District's Source Test Section for review and disposition. (Basis: Regulation 2-1-403 and Regulation 8, Rule 2)

9. To demonstrate compliance with the above conditions, Permit Holder shall keep the following records on site and made available for District inspection for a period of 5 years from the date on that a record is made. These records may be in the form of computer generated reports that are available to District personnel on short notice (rather than actual paper copies of throughput data). The parametric measurements mentioned above the hours and date of any Hydrogen Plant shutdowns all source test records (Basis: Regulation 8, Rule 2)
10. Chevron shall provide Emission Reduction Credits in the amount of 1.39 tons per year of Precursor Organic Compounds for this project to install their Hydrogen Plant De-Aerator Vents (Permit Application Number 18529). The credits shall be provided to the District at least 30 days prior to the date of Plant #10's annual plant permit renewal. (Basis: Emission Offsets)

### Conditions for S-4393

1. Upon receipt of a violation notice of Regulation 1-301, Standard for Public Nuisance, or Regulation 7, Odorous Substances, resulting from operation of S-4393, Bioreactor, the Air Pollution Control Officer may require the Permit Holder to:
- A. Make a concerted effort to identify and correct the cause of the violation in as prompt a manner as possible.
  - B. Add deodorant to reduce the nuisance or odors from S-4393.
  - C. Optimize the bioreactor aeration flowrate to minimize the nuisance or odors from S-4393.
- (Basis: Regulations 1-301, 7-301, 7-302, 7-303)

### Condition # 16393 For S – 4261:

These conditions will be linked to condition #469. Emissions from A-54 shall be included in the cap emission calculation.

1. Total fuel usage at A-54 Thermal oxidizer shall not exceed 43,800 million btu's in any consecutive 12-month period. (basis: (cumulative increase))
2. Emissions from A-54 shall not exceed the following limits:  
NOx: 0.2 lb/MMBtu  
CO: 0.80lb/MMBtu  
SOx: 0.027 lb/MMBtu  
PM: 0.01 lb/MMBtu
- (basis: Regulation 2-2-112)
3. A-54 shall maintain a minimum temperature of 1400F at all times that S-4261 is venting to A-54. The averaging time for this condition is one hour. (basis: BACT)
4. The owner operator of A-54 shall install and operate a continuous temperature monitor and recorder in order to demonstrate compliance with part #3. (basis: BACT)

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5. Deleted.
6. The owner/operator of A-54 shall maintain a District approved monthly log of all the fuel usage, temperature logs, and source test data. This log shall be kept on site for at least 5 years from the date of entry and be made available to District staff upon request. "" (basis: cumulative increase, BACT)

### Condition #16650 For S – 4129 and 4131:

This condition is effective until 1/1/05. After 1/1/05, this condition shall be replaced by Condition No. 21232.

1. The owner/operator of S-4129 and S-4131 shall properly install and properly operate an in-stack NOx CEM, an O2 CEM, fuel gas flowmeter, and recorder on both of these units in order to demonstrate compliance with Regulation 9-10. (basis: Reg.9-10)
2. The maximum firing rate at S-4129 shall not exceed 5592 million Btu's per day. (basis: Reg.2-2)
3. The maximum firing rate at S-4131 shall not exceed 5664 million Btu's per day. (basis: Reg.2-2)
4. The owner/operator of S-4129 and S-4131 shall maintain daily records of all CEM data, NOx mass emissions, fuel usage, CO source test data results, and the higher heat content of the fuel in order to demonstrate compliance with condition numbers 2 and 3 and Regulation 9- 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. (record keeping)
5. The owner/operator of S-4129 and S-4131 shall conduct semi-annual district approved CO source tests with the first occurring within 45 days of the startup of S-4129 and S-4131 in order to demonstrate that the CO emissions are less than 200 ppmv at 3% O2. The time interval between tests shall not exceed 8 months. District conducted CO emission test associated with District-conducted NOx CEM field accuracy tests may be substituted for the CO semi- annual source tests.
  - (a) If two or more of the CO source test results, over any consecutive five-year period, are greater than or equal to 200 ppmv at 3%, the owner/operator of S-4129 and S-4131 is required to install and operate a CEM to continuously measure CO. The owner/operator shall be given the time period, allowed in the District's Manual of Procedures to have the CEM installed and properly operating.

### Condition #16679 For S – 4170:

Conditions for A-260 Selective Catalytic Reduction (SCR) System for abatement of: S-4170 F-305 Furnace, 847 MMBtu/hour, at Hydrogen Plant A-Train:

1. Ammonia emissions from Source 4170, Hydrogen Reforming A Train Furnace F-305, shall not exceed 120 pounds per Hour (Basis: toxic risk screen).
2. To ensure compliance with Part 1, a flow restriction orifice shall be installed in the ammonia injection system to limit ammonia flow to below 120 pounds per hour. (basis: toxic risk screen)
3. A-260, SCR System, shall be properly operated and properly maintained and shall abate the emissions from Source 4170, whenever Source 4170 is emitting NOx. (Basis: Regulation 9, Rule 10)
4. Chevron shall install, calibrate, maintain, and operate a District-approved continuous emission monitor and recorder for NOx and O2 from the stack of Source 4170, Furnace F-305. (Basis: Regulation 2, Rule 1, Section 403)
5. Start-up and shutdown of Source S-4170 shall be limited to a maximum of 20 hours under normal conditions. Upon approval by the District, the start-up or shutdown period may be extended to a period no to exceed 72 hours for the following situations:
  - A. The start-up or shutdown has been proceeding continuously, and Chevron has been increasing or decreasing temperatures at a rate limited by metallurgy or other physical constraints prescribed in their start-up/shutdown procedure.

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- B. Start-up following installation or replacement of refractory lining.
  - C. Start-up following initial catalyst pre-sulfiding following catalyst replacement or catalyst regeneration.  
 (Basis: Regulation 2, Rule 1, Section 403)
6. To demonstrate compliance with the above conditions, the owner/operator shall keep the following records on site and made available for District inspection for a period of 5 years from the date on which a record is made.
- (a.) All source test records
  - (b.) The date, time, and duration of any start-up, shutdown or malfunction in the operation of A-260, SCR System. (Basis: Regulation 9, Rule 10, Section 504)

**Condition# 16686**

**Chevron Richmond Refinery (Plant #10)  
 Condition Added 09/02/99**

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 (MMBTU/day). These firing rates are sustainable maximum firing rates. The sustainable hourly firing rates, used for billing purposes, are established by dividing the maximum daily firing rates by 24 hours.

<b>Source</b>	<b>Furnace #/ Source Description</b>	<b>Enforceable Limit, MMBTU/day</b>	<b>Used for Fees, MMBTU/hr</b>
4044	F-570 #5 Rheniformer	1872	78
4070	F-1100A #4 Crude Unit	9552	398
4071	F-1100B #4 Crude Unit	9720	405
4072	F-1160 #4 Crude Unit	8064	336
4131	Blr #3 800# Steam Boiler	5664	236
4132	Blr #4 800# Steam Boiler	5640	235
4133	Blr #5 800# Steam Boiler	5688	237
4152	F-100 Asphalt Soln. Htr.	1212	50.5
4154	F-120 Asphalt Soln. Htr.	1212	50.5
4159	F-410 TKC Feed Furnace	1632	68
4160	F-420 TKC Feed Furnace	1704	71
4161	F-510 TKN Feed Furnace	1464	61
4162	F-520 TKN Feed Furnace	1464	61
4163	F-530 TKN Feed Furnace	1464	61
4168	F-730 Isomax Furnace	7944	331
4170	F-305 Reform Furn. H2 plt.	20328	847
4171	F-355 Reform Furn. H2 plt.	20328	847
4334	F-1200 LNC Atmos Furnace	607.2	25.3
4335	F-1250 LNC Vacuum Furnace	595.2	24.8
4338	F-1550 HNC Vacuum Furnace	864	36
4339	F-1110 LNC Reactor Furnace	456	19

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### Condition# 16698 AN 19297; Amended under AN 8342 (Oct. 2003)

This condition is effective until 1/1/05. After 1/1/05, this condition shall be replaced by Condition No. 21232.

1. The owner/operator of S-4038, S-4039, S-4040, and S-4041 shall conduct semi-annual District-approved source tests for CO in order to demonstrate compliance with Regulation 9-10. The time interval between tests shall not exceed 8 months. At least one of the source tests each year shall be conducted during operation that is deemed by the District to be representative of normal operation. District-conducted CO emission tests associated with District-conducted NOx CEM field accuracy tests may be substituted for the required semi-annual CO source tests.

If any two source test results, over any consecutive five year period, are > 200 ppmv CO at 3% O<sub>2</sub>, the owner/operator is required to install and operate a CEM to continuously measure CO and O<sub>2</sub>. The owner/operator shall be given the time period allowed in the District's Manual of Procedures to have the CEM installed and properly operating. (Basis: Reg. 9-10)

2. Each combustion source listed below shall not exceed its indicated maximum firing rate (higher heating value), expressed in units of million Btu per day (MM Btu/day). These firing rates are sustainable maximum firing rates. The sustainable hourly firing rates, used for billing purposes, are established by dividing the maximum daily firing rates by 24 hours.

Source Description	Enforceable Limit MM Btu/day	Used for Fees MM Btu/h
S-4038 F-3550 #4 Rheniformer Process Heater	4480	187
S-4039 F-3560 #4 Rheniformer Process Heater	4080	170
S-4040 F-3570 #4 Rheniformer Process Heater	3648	152
S-4041 F-3580 #4 Rheniformer Process Heater	1848	77

3. (deleted per AN 8342)
4. The owner/operator of S-4038, 4039, 4040 and 4041 shall install and properly operate an in-stack NOx CEM, and O<sub>2</sub> CEM, and a fuel-flow meter to demonstrate compliance with section 9-10-502. (Basis: Reg. 9-10- 502)
5. The owner/operator of S-4038, S-4039, S-4040, and S-4041 shall maintain daily records of all CEM data, NOx mass emissions, fuel usage and higher heating value of the fuel in order to demonstrate compliance with condition number 2 and Regulation 9-10, and shall keep all source test data. 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: record keeping, Reg. 9-10-504)

### Condition #16731 For S – 4164, S-4165, S-4166, S-4168, S-4169:

This condition is effective until 1/1/05. After 1/1/05, this condition shall be replaced by Condition No. 21232.

1. The owner/operator of S-4164, S-4165, S-4166, S-4168, and S-4169 shall conduct a District approved CO source test semi-annually in order to demonstrate compliance with Regulation 9, Rule 10 and the Monitoring Policy for Regulation 9, Rule 10. At least one of the source tests each year shall be deemed, by the district, to be representative of normal operation. (basis: Regulation 9, Rule 10)

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- (a.) If any two source test results, over any consecutive five year period, are more than 200 ppmv CO at 3% O<sub>2</sub>, the owner/operator is required to install and operate a CEM to continuously measure CO. The owner/operator shall be given six months to have the CEM installed and properly operating. (basis: Regulation 9, Rule 10)
2. The owner/operator of S-4164, S-4165, S-4166, S-4168, and S-4169 shall properly install and properly operate an in-stack NO<sub>x</sub> CEM, an O<sub>2</sub> CEM, fuel gas flowmeter, and recorder on these units in order to demonstrate compliance with Regulation 9, Rule 10. (basis: Regulation 9, Rule 10)
3. Each combustion source listed below shall not exceed its indicated maximum firing rate (higher heating value), expressed in units of million Btu per day (MM Btu/day). These firing rates are sustainable maximum firing rates. The sustainable hourly firing rates, used for billing purposes, are established by dividing the maximum daily firing rates by 24 hours.
- | Source Description       | Enforceable Limit<br>MM Btu/day | Used for fees<br>MM Btu/h       |
|--------------------------|---------------------------------|---------------------------------|
| S-4164 F-630 TKN Furnace | 1632                            | 68                              |
| S-4165 F-620 TKN Furnace | 1632                            | 68                              |
| S-4166 F-610 TKN Furnace | 1632                            | 68                              |
| S-4168 F-730 TKN Furnace | 7944                            | 331                             |
| S-4169 F-731 TKN Furnace | 6240                            | 260(basis: Cumulative Increase) |
4. The owner/operator of S-4164, S-4165, S-4166, S-4168, and S-4169 shall maintain daily records of all CEM data, NO<sub>x</sub> mass emissions, fuel usage, and the higher heat content of the fuel in order to demonstrate compliance with part #3 and Regulation 9, Rule 10. 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: Regulation 9, Rule 10; Cumulative Increase)

**Condition# 17310**

1. The owner/operator of S-4152 and S-4154 shall properly install and properly operate a fuel gas flowmeter, and recorder on both of these units in order to demonstrate compliance with Regulation 9-10. (basis: Reg.9-10)
- \*2. The maximum firing rate at S-4152 shall not exceed 50.5 million Btu's per hour. (basis: Reg.2-2)
- \*3. The maximum firing rate at S-4154 shall not exceed 50.5 million Btu's per hour. (basis: Reg.2-2)
4. The owner/operator of S-4152 and S-4154 shall maintain daily records of all fuel usage, and the higher heat content of the fuel in order to demonstrate compliance with condition numbers 2 and 3 and Regulation 9-10. 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. (record keeping)

**Condition # 17470 For S – 3126:**

1. Total crude oil throughput at S-3126 shall not exceed 50, 000 barrels in any consecutive 12-month period. This condition applies when desalter effluent is stored in S-3126 and shall be determined by tank roof movement measured by a tank level gauging system. (basis: cumulative increase)
2. Total naphtha throughput at S-3126 shall not exceed 365,000 barrels in any consecutive 12-month period. This throughput shall be determined by tank roof movement measured by a tank level gauging system. (basis: cumulative increase)
3. The owner/operator of S-3126 shall maintain a district approved monthly log of all material throughput at S-3126. 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)

**Condition #17527 For S – 4426 to S-4428:**

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1. S-4426, S-4427, and S-4428 shall only use solvents with a high initial boiling point (>248F). (basis: Regulation 8, Rule 16, Section 118)
2. Each S-4426, S-4427, and S-4428 shall each not exceed 100 gallons of solvent in any consecutive 12 month period. (basis: cumulative increase)
3. The owner/operator of S-4426, S-4427, and S-4428 shall maintain a district approved monthly log of all solvent usage at S-4426, S-4427, and S-4428. This log shall be kept on site for at least five years from the date of entry and be made available to district staff upon request. (basis: cumulative increase)

### Condition # 17553 For S – 3220:

1. Total throughput at S-3220 shall not exceed 12,466,000 barrels in any consecutive 12 month period. (basis: cumulative increase)
2. This throughput shall be determined by tank roof movement measured by a district approved tank level gauging system. (basis: cumulative increase)
3. The owner/operator of S-3220 shall maintain a district approved monthly log of all material throughput at S-3220. 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)

### Condition #17628 For S – 4152, S-4154:

This condition is effective until 1/1/05. After 1/1/05, this condition shall be replaced by Condition No. 21232.

1. The owner/operator of S-4152 and S-4154 shall properly install and properly operate a fuel gas flowmeter, and recorder on both of these units in order to demonstrate compliance with Regulation 9, Rule-10. (basis: Regulation 9, Rule 10)
2. The owner/operator of S-4152 and S-4154 shall conduct a district approved NO<sub>x</sub>, CO, and O<sub>2</sub> source test within 45 days of the startup of S 4152 and S-4154 in order to demonstrate the NO<sub>x</sub> and CO emissions over the full-range of operation of these units or to establish the “box”. The box will contain these four conditions as the corners: (1) low fire/low O<sub>2</sub>, (2) low fire/high O<sub>2</sub>, (3) high fire/low O<sub>2</sub>, and (4) high fire/high O<sub>2</sub>. The results of this test shall be submitted to the district within 45 days of the test date. (basis: Regulation 9, Rule 10)
3. The owner/operator of S-4152 and S-4154 shall conduct at least two district approved NO<sub>x</sub>, CO, and O<sub>2</sub> source tests per consecutive 12 month period in order to measure NO<sub>x</sub>, CO, and O<sub>2</sub> at the as-found firing rate, within 20% of the permitted O<sub>2</sub> conditions likely to maximize NO<sub>x</sub> emissions. (basis: Regulation 9, Rule 10)
4. The owner/operator of S-4152 and S-4154 shall conduct two additional district approved NO<sub>x</sub>, CO, and O<sub>2</sub> source tests at conditions likely to maximize CO at the as-found firing rate, for units that the initial test results or any semi annual test results of the unit during the past five consecutive year period, are greater than or equal to 200 ppmv CO at 3% O<sub>2</sub>. (basis: Regulation 9, Rule 10)
5. The owner/operator of S-4152 and S-4154 shall conduct a district approved source test within 45 days of operation outside of the “box” established in part #2. This condition does not apply to low firing rate conditions during startup or shutdown periods less than 3 days. These source test results shall be submitted to the district source test manager within 45 days of the test date.
  - A. If the results of this source test exceed the permitted emission concentrations or emission rates, the unit will be considered to have been in violation for each day it operated outside of the defined operating range. In this situation, the facility may submit a permit application and a new Regulation 9, Rule 10 control plan, to request a modification of the permit condition to change the NO<sub>x</sub> emission concentration or emission rate and/or an adjustment of the operating range, based on the new test data.
  - B. If the results of this source test do not exceed emission concentrations or rates, the allowable



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operating range will be adjusted as stated above, based on the new test data. In this situation, the unit will not be considered to be in violation during this period for operating out of the “box” if the unit is operated within the alternate operating conditions approved by the APCO. (basis: Regulation 9, Rule 10)

6. \*NOx emissions from S-4152 shall not exceed 0.035 pounds NOx per million Btu. (basis: Regulation 9, Rule 10)
7. \*NOx emissions from S-4154 shall not exceed 0.035 pounds NOx per million Btu. (basis: Regulation 9, Rule 10)
8. \*The maximum firing rate at S-4152 shall not exceed 1212 million Btu’s per day. (basis: Regulation 2, Rule 2)
9. \*The maximum firing rate at S-4154 shall not exceed 1212 million Btu’s per day. (basis: Regulation 2, Rule 2)
10. The owner/operator of S-4152 and S-4154 shall properly install and properly operate a CEM to continuously measure CO and O2 if 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 be given the time period, allowed in the District’s Manual of Procedures to have the CEM installed and properly operating. (basis: Regulation 9, Rule 10)
11. The owner/operator of S-4152 and S-4154 shall maintain daily records of all fuel usage, the higher heat content of the fuel, and all source test data in order to demonstrate compliance with part numbers 6, 7, 8, and 9, and Regulation 9, Rule 10. 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: Regulation 9, Rule 10)

### Condition #17631 For S – 4158:

This condition is effective until 1/1/05. After 1/1/05, this condition shall be replaced by Condition No. 21232.

1. The owner/operator of S-4158 shall properly install and properly operate a fuel gas flowmeter, and recorder on both of these units in order to demonstrate compliance with Regulation 9, Rule 10. (basis: Regulation 9, Rule 10)
2. The owner/operator of S-4158 shall conduct a district approved NOx, CO, and O2 source test within 45 days of the startup of S-4158 in order to demonstrate the NOx and CO emissions over the full range of operation of these units or to establish the “box”. The box will contain these four conditions as the corners: (1) low fire/low O2, (2) low fire/high O2, (3) high fire/low O2, and (4) high fire/high O2. The results of this test shall be submitted to the district within 45 days of the test date. (basis: Regulation 9, Rule 10)
3. The owner/operator of S-4158 shall conduct at least two district approved NOx, CO, and O2 source tests per consecutive 12-month period in order to measure NOx, CO, and O2 at the as-found firing rate, within 20% of the permitted O2 conditions likely to maximize NOx emissions. (basis: Regulation 9, Rule 10)
4. The owner/operator of S-4158 shall conduct two additional district approved NOx, CO, and O2 source tests at conditions likely to maximize CO at the as found firing rate, for units that the initial test results or any semi-annual test results of the unit during the past five consecutive year period, are greater than or equal to 200 ppmv CO at 3% O2. (basis: Regulation 9, Rule 10)
5. The owner/operator of S-4158 shall conduct a district approved source test within 45 days of operation outside of the “box” established in part #2. This condition does not apply to low firing rate conditions during startup or shutdown periods less than 3 days. These source test results shall be submitted to the district source test manager within 45 days of the test date.
  - A. If the results of this source test exceed the permitted emission concentrations or emission rates,

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the unit will be considered to have been in violation for each day it operated outside of the defined operating range. In this situation, the facility may submit a permit application and a new Regulation 9, Rule 10 control plan, to request a modification of the permit condition to change the NO<sub>x</sub> emission concentration or emission rate and/or an adjustment of the operating range, based on the new test data.

- B. If the results of this source test do not exceed emission concentrations or rates, the allowable operating range will be adjusted as stated above, based on the new test data. In this situation, the unit will not be considered to be in violation during this period for operating out of the “box” if the unit is operated within the alternate operating conditions approved by the APCO. (basis: Regulation 9, Rule 10)
6. \*NO<sub>x</sub> emissions from S-4158 each shall not exceed 0.035 pounds NO<sub>x</sub> per million Btu. (basis: Regulation 9, Rule 10)
  7. \*The maximum firing rate at S-4158 shall not exceed 1152 million Btu's per day. (basis: Regulation 2, Rule 2)
  8. The owner/operator of S-4158 shall properly install and properly operate a CEM to continuously measure CO and O<sub>2</sub> if any two source test results over any consecutive five year period are greater than or equal to 200 ppmv CO at 3% O<sub>2</sub>. The owner/operator shall be given the time period, allowed in the District's Manual of Procedures to have the CEM installed and properly operating. (basis: Regulation 9, Rule 10)
  9. The owner/operator of S-4158 shall maintain daily records of all fuel usage, the higher heat content of the fuel, and all source test data in order to demonstrate compliance with part numbers 6 and 7, and Regulation 9, Rule 10. 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: Regulation 9, Rule 10; Regulation 2, Rule 2)

### Condition #17675 For S – 4132 AND S-4135:

This condition is effective until 1/1/05. After 1/1/05, this condition shall be replaced by Condition No. 21232.

1. The owner/operator of S-4132 and S-4135 shall properly install and properly operate a fuel gas flowmeter, NO<sub>x</sub> and O<sub>2</sub> CEM and continuous recorders on both of these units in order to demonstrate compliance with Regulation 9, Rule 10 (basis: Regulation 9, Rule 10)
2. The owner/operator of S-4132 and S-4135 shall conduct semi-annual district approved CO source tests with the first occurring within 45 days of the startup of S-4132 and S-4135 in order to demonstrate that the CO emissions are less than 200 ppmv at 3% O<sub>2</sub>. The time interval between tests shall not exceed 8 months. District conducted CO emission test associated with District-conducted NO<sub>x</sub> CEM field accuracy tests may be substituted for the CO semi-annual source tests. (basis: Regulation 9, Rule 10)
  - A. If two or more of the CO source test results, over any consecutive five-year period, are greater than or equal to 200 ppmv at 3%, the owner/operator of S-4132 and S-4135 is required to install and operate a CEM to continuously measure CO. The owner/operator shall be given the time period, allowed in the District's Manual of Procedures to have the CEM installed and properly operating.
3. The maximum firing rate at S-4132 shall not exceed 5640 million Btu's per day. (basis: Regulation 2, Rule 2)
4. The maximum firing rate at S-4135 shall not exceed 6528 million Btu's per day. (basis: Regulation 2, Rule 2)
5. The owner/operator of S-4132 and S-4135 shall maintain daily records of all fuel usage, the higher heat content of the fuel, and all CEM and source test data in order to demonstrate compliance with part numbers 2, 3, and 4, and Regulation 9, Rule 10. 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: Regulation 9, Rule 10; Regulation 2, Rule 2)

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### Condition #17973 For S – 4171:

This condition is effective until 1/1/05. After 1/1/05, this condition shall be replaced by Condition No. 21232..

1. The owner/operator of S-4171 shall conduct at least two District approved CO source tests within a 12 month period in order to demonstrate compliance with Regulation 9-10 and the Monitoring Policy for Regulation 9-10. The time interval between tests shall not exceed 8 months. At least one of the source tests each year shall be deemed, by the district, to be representative of normal operation. (basis: Reg.9-10)
  - A. If any two source test results, over any consecutive five year period, are > 200 ppmv CO at 3% O<sub>2</sub>, the owner/operator is required to install and operate a CEM to continuously measure CO. The owner/operator shall be given the time period allowed in the District's Manual of Procedures to have the CEM installed and properly operating. (basis: Reg.9-10)
2. The owner/operator of S-4171 shall properly install and properly operate an in-stack NO<sub>x</sub> CEM, an O<sub>2</sub> CEM, fuel gas flowmeter, and recorder on these units in order to demonstrate compliance with Regulation 9-10. (basis: Reg.9-10)
3. Each combustion source listed below shall not exceed its indicated maximum firing rate (higher heating value), expressed in units of million Btu per day (MM Btu/day). These firing rates are sustainable maximum firing rates. The sustainable hourly firing rates, used for billing purposes, are established by dividing the maximum daily firing rates by 24 hours.
 

Source Description	Enforceable Limit MM Btu/day	Used for fees MM Btu/h
S-4171 F-355 Hydrogen B Furnace	20,328	847
4. The owner/operator of S-4171 shall maintain daily records of all CEM data, NO<sub>x</sub> mass emissions, fuel usage, and the higher heat content of the fuel in order to demonstrate compliance with condition #3 and Regulation 9-10. 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. (record keeping)

### Condition #18003 For S – 4059 and S-4060:

This condition is effective until 1/1/05. After 1/1/05, this condition shall be replaced by Condition No. 21232.

1. The owner/operator of S-4059 and S-4060 shall properly install and properly operate a fuel gas flowmeter, and recorder on both of these units in order to demonstrate compliance with Regulation 9, Rule 10. (basis: Regulation 9, Rule 10)
2. The owner/operator of S-4059 and S-4060 shall conduct a district approved NO<sub>x</sub>, CO, and O<sub>2</sub> source test within 45 days of the startup of S-4059 and S-4060 in order to demonstrate the NO<sub>x</sub> and CO emissions over the full-range of operation of these units or to establish the "box". The box will contain these four conditions as the corners: low fire/low O<sub>2</sub>, (2) low fire/high O<sub>2</sub>, (3) high fire/low O<sub>2</sub>, and (4) high fire/high O<sub>2</sub>. The results of this test shall be submitted to the district within 45 days of the test date. (basis: Regulation 9, Rule 10)
3. The owner/operator of S-4059 and S-4060 shall conduct at least two district approved NO<sub>x</sub>, CO, and O<sub>2</sub> source tests per consecutive 12 month period in order to measure NO<sub>x</sub>, CO, and O<sub>2</sub> at the as-found firing rate, within 20% of the permitted O<sub>2</sub> conditions likely to maximize NO<sub>x</sub> emissions. (basis: Regulation 9, Rule 10)
4. The owner/operator of S-4059 and S-4060 shall conduct two additional district approved NO<sub>x</sub>, CO, and O<sub>2</sub> source tests at conditions likely to maximize CO at the as-found firing rate, for units that the initial test results or any semi-annual test results of the unit during the past five consecutive year period, are greater than or equal to 200 ppmv CO at 3% O<sub>2</sub>. (basis: Regulation 9, Rule 10)
5. The owner/operator of S-4059 and S-4060 shall conduct a district-approved source test within 45 days of

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operation outside of the “box” established in part #2. This condition does not apply to low firing rate conditions during startup or shutdown periods less than 3 days. These source test results shall be submitted to the district source test manager within 45 days of the test date.

- A. If the results of this source test exceed the permitted emission concentrations or emission rates, the unit will be considered to have been in violation for each day it operated outside of the defined operating range. In this situation, the facility may submit a permit application and a new Regulation 9, Rule 10 control plan, to request a modification of the permit condition to change the NOx emission concentration or emission rate and/or an adjustment of the operating range, based on the new test data.
  - B. If the results of this source test do not exceed emission concentrations or rates, the allowable operating range will be adjusted as stated above, based on the new test data. In this situation, the unit will not be considered to be in violation during this period for operating out of the “box” if the unit is operated within the alternate operating conditions approved by the APCO. (basis: Regulation 9, Rule 10)
6. NOx emissions from S-4059 and S-4060 each shall not exceed 0.03 pounds NOx per million Btu. (basis: Regulation 9, Rule 10)
  7. The maximum firing rate at S-4059 shall not exceed 121 million Btu’s per hour or 2904 million Btu’s per rolling 24-hour period. (basis: Regulation 2, Rule 2)
  8. The maximum firing rate at S-4060 shall not exceed 144 million Btu’s per hour or 3456 million Btu’s per rolling 24-hour period. (basis: Regulation 2, Rule 2)
  9. The owner/operator of S-4059 and S-4060 shall properly install and properly operate a CEM to continuously measure CO and O2 if 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 be given the time period, allowed in the District’s Manual of Procedures to have the CEM installed and properly operating. (basis: Regulation 9, Rule 10)
  10. The owner/operator of S-4059 and S-4060 shall maintain daily records of all fuel usage, the higher heat content of the fuel, and all source test data in order to demonstrate compliance with parts 6, 7, 8, and 9, and Regulation 9, Rule 10. 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: Regulation 9, Rule 10; Regulation 2, Rule 2)

### **Condition # 18015 For S – 4070 to S-4072:**

This condition is effective until 1/1/05. After 1/1/05, this condition shall be replaced by Condition No. 21232.

1. The owner/operator of S-4070, S-4071, and S-4072 shall conduct at least two District approved CO source tests within a 12-month period in order to demonstrate compliance with Regulation 9, Rule 10 and the Monitoring Policy for Regulation 9, Rule 10. The time interval between tests shall not exceed 8 months. At least one of the source tests each year shall be deemed, by the district, to be representative of normal operation. (basis: Regulation 9, Rule 10)
  - (a) If any two source test results, over any consecutive five year period, are more than 200 ppmv CO at 3% O2, the owner/operator is required to install and operate a CEM to continuously measure CO. The owner/operator shall be given the time period allowed in the District’s Manual of Procedures to have the CEM installed and properly operating. (basis: Regulation 9, Rule 10)
2. The owner/operator of S-4070, S-4071, and S-4072 shall properly install and properly operate an in-stack NOx CEM, an O2 CEM, fuel gas flowmeter, and recorder on these units in order to demonstrate compliance with Regulation 9, Rule 10. (basis: Regulation 9, Rule 10)
3. Each combustion source listed below shall not exceed its indicated maximum firing rate (higher heating value), expressed in units of million Btu per day (MM Btu/day). These firing rates are sustainable

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maximum firing rates. The sustainable hourly firing rates, used for billing purposes, are established by dividing the maximum daily firing rates by 24 hours.

Source Description	Enforceable Limit MM Btu/day	used for fees MM Btu/h
S-4070 F-1100A Crude Unit Furnace	9552	398
S-4071 F-1100B Crude Unit Furnace	9720	405
S-4072 F-1160 Crude Unit Furnace	8064	336

(basis: Cumulative Increase)

4. The owner/operator of S-4070, S-4071, and S-4072 shall maintain daily records of all CEM data, NOx mass emissions, fuel usage, and the higher heat content of the fuel in order to demonstrate compliance with part #3 and Regulation 9, Rule 10. 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: Regulation 9, Rule 10; Cumulative Increase)

### Condition #18029 For S – 4133

This condition is effective until 1/1/05. After 1/1/05, this condition shall be replaced by Condition No. 21232.

1. The owner/operator of S-4133 shall conduct at least two District approved CO source tests within a 12-month period in order to demonstrate compliance with Regulation 9, Rule 10 and the Monitoring Policy for Regulation 9, Rule 10. The time interval between tests shall not exceed 8 months. At least one of the source tests each year shall be deemed, by the district, to be representative of normal operation. (basis: Regulation 9, Rule 10)
  - A. If any two source test results, over any consecutive five year period, are more than 200 ppmv CO at 3% O<sub>2</sub>, the owner/operator is required to install and operate a CEM to continuously measure CO. The owner/operator shall be given the time period allowed in the District's Manual of Procedures to have the CEM installed and properly operating. (basis: Regulation 9, Rule 10)
2. The owner/operator of S-4133 shall properly install and properly operate an in-stack NOx CEM, an O<sub>2</sub> CEM, fuel gas flowmeter, and recorder on these units in order to demonstrate compliance with Regulation 9, Rule 10. (basis: Regulation 9, Rule 10)
3. The owner/operator of S-4133 shall maintain daily records of all CEM data, NOx mass emissions, fuel usage, and the higher heat content of the fuel in order to demonstrate compliance with condition #16686 and Regulation 9, Rule 10. 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: Regulation 9, Rule 10)

### Condition #18137

For all sources without explicit throughput limiting conditions:

- \*1. For grandfathered sources, the throughput limits as shown in Table II-A3 are based upon District records at the time of the MFR permit issuance. The facility must report any exceedance of these limits following the procedures in Section I.F. This reporting requirement is intended to facilitate a determination of whether a modification has occurred as defined in Regulation 2-1-234.3. The throughput limits for grandfathered sources are for reporting purposes only. Exceedance of this limit does not establish a presumption that a modification has occurred, nor does compliance with the limit establish a presumption that a modification has not occurred. (Basis: Reg. 2-1-234.3)

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- \*2. To demonstrate compliance with the above conditions, the Owner/Operator shall maintain monthly records on site, and make available for District inspectors, for a period of 5 years from the date of entry. (Basis: Section 2-1-234.3)

### Condition #18166 For Sources S-4061 and S-4062:

This condition is effective until 1/1/05. After 1/1/05, this condition shall be replaced by Condition No. 21232.

1. The owner/operator of S-4061 and S-4062 shall conduct at least two District approved CO source tests within a 12 month period in order to demonstrate compliance with Regulation 9, Rule 10 and the Monitoring Policy for Regulation 9, Rule 10. The time interval between tests shall not exceed 8 months. At least one of the source tests each year shall be deemed, by the district, to be representative of normal operation. (basis: Regulation 9, Rule 10)
  - A. If any two source test results, over any consecutive five year period, are > 200 ppmv CO at 3% O<sub>2</sub>, the owner/operator is required to install and operate a CEM to continuously measure CO. The owner/operator shall be given the time period allowed in the District's Manual of Procedures to have the CEM installed and properly operating. (basis: Regulation 9, Rule 10)
2. The owner/operator of S-4061 and S-4062 shall properly install and properly operate an in-stack NO<sub>x</sub> CEM, an O<sub>2</sub> CEM, fuel gas flowmeter, and recorder on these units in order to demonstrate compliance with Regulation 9, Rule 10. (basis: Regulation 9, Rule 10)
3. \*Each combustion source listed below shall not exceed its indicated maximum firing rate (higher heating value), expressed in units of million Btu per day (MM Btu/day). These firing rates are sustainable maximum firing rates. The sustainable hourly firing rates, used for billing purposes, are established by dividing the maximum daily firing rates by 24 hours.

Source Description	Enforceable Limit MM Btu/day	used for fees MM Btu/h
S-4061 F-410 #5 NHT Furnace	2928	122
S-4062 F-447 #5 NHT Furnace (basis: cumulative increase)	3960	165

4. The owner/operator of S-4061 and S-4062 shall maintain daily records of all CEM data, NO<sub>x</sub> mass emissions, fuel usage, and the higher content of the fuel in order to demonstrate compliance with part #3 and Regulation 9, Rule 10. 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. (Regulation 9, Rule 10, cumulative increase)

### Condition #18172 For Sources S-4042, S-4043, S-4044, and S-4045:

This condition is effective until 1/1/05. After 1/1/05, this condition shall be replaced by Condition No. 21232.

1. The owner/operator of S-4042, S-4043, S-4044, and S-4045 shall conduct at least two District approved CO source tests within a 12 month period in order to demonstrate compliance with Regulation 9, Rule 10 and the Monitoring Policy for Regulation 9, Rule 10. The time interval between tests shall not exceed 8 months. At least one of the source tests each year shall be deemed, by the district, to be representative of normal operation. (basis: Regulation 9, Rule 10)
  - A. If any two source test results, over any consecutive five year period, are > 200 ppmv CO at 3% O<sub>2</sub>, the owner/operator is required to install and operate a CEM to continuously measure CO. The owner/operator shall be given the time period allowed in the District's Manual of Procedures to have the CEM installed and properly operating. (basis: Regulation 9, Rule 10)

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2. The owner/operator of S-4042, S-4043, S-4044, and S-4045 shall properly install and properly operate an in stack NOx CEM, an O2 CEM, fuel gas flowmeter, and recorder on these units in order to demonstrate compliance with Regulation 9-10. (basis: Regulation 9, Rule 10)
3. Each combustion source listed below shall not exceed its indicated maximum firing rate (higher heating value), expressed in units of million Btu per day (MM Btu/day). These firing rates are sustainable maximum firing rates. The sustainable hourly firing rates, used for billing purposes, are established by dividing the maximum daily firing rates by 24 hours.

<b>Source Description</b>	<b>Enforceable Limit MM Btu/day</b>	<b>used for fees MM Btu/h</b>
S-4042 F-550 #5 Rheni Furnace	4752	198
S-4043 F-560 #5 Rheni Furnace	3192	133
S-4044 F-570 #5 Rheni Furnace	1872	78
S-4045 F-580 #5 Rheni Furnace	1224	51

(basis: cumulative increase)

The owner/operator of S-4042, S-4043, S-4044, and S-4045 shall maintain daily records of all CEM data, NOx mass emissions, fuel usage, and the higher heat content of the fuel in order to demonstrate compliance with part3 and Regulation 9, Rule 10. 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. (Regulation 9, Rule 10)

COND# 18337 -----

1. The S-4354 Butamer Plant throughput shall not exceed 12,000 barrels per operating day. (cum inc)
2. The total throughput at S-4360 shall not exceed 9400 gallons in any consecutive 12 month period. (cum inc)
3. All fugitive components associated with sources S-4354 and S-4360 shall comply with 40 CFR Part 60 Subpart VV. (NSPS)
4. The owner/operator of S-4354 and S-4360 shall maintain a district approved daily log for S-4354 and monthly summaries for both S-4354 and S-4360 of all throughput at both S-4354 and S-4360. 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. (record keeping)

**Condition #18350 For Source S-4068:**

This condition is effective until 1/1/05. After 1/1/05, this condition shall be replaced by Condition No. 21232

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1. The owner/operator of S-4068 shall properly install and properly operate a fuel gas flowmeter, and recorder on this unit in order to demonstrate compliance with Regulation 9, Rule 10. (basis: Regulation 9, Rule 10)
2. The owner/operator of S-4068 shall conduct a district approved NO<sub>x</sub>, CO, and O<sub>2</sub> source test prior to 12/31/01 in order to demonstrate the NO<sub>x</sub> and CO emissions over the full-range of operation of S-4068 or to establish the "box". The box will contain these four conditions as the corners: (1) low fire/low O<sub>2</sub>, (2) low fire/high O<sub>2</sub>, (3) high fire/low O<sub>2</sub>, and (4) high fire/high O<sub>2</sub>. The results of this test shall be submitted to the district within 45 days of the last test date. (basis: Regulation 9, Rule 10)
3. Beginning on 7/1/02 the owner/operator of S-4068 shall conduct at least two district approved NO<sub>x</sub>, CO, and O<sub>2</sub> source tests per consecutive 12 month period in order to measure NO<sub>x</sub>, CO, and O<sub>2</sub> at the as-found firing rate, within 20% of the permitted O<sub>2</sub> conditions likely to maximize NO<sub>x</sub> emissions. (basis: Regulation 9, Rule 10)
4. The owner/operator of S-4068 shall conduct two additional district approved NO<sub>x</sub>, CO, and O<sub>2</sub> source tests at conditions likely to maximize CO at the as-found firing rate, for units that the initial test results or any semi-annual test results of the unit during the past five consecutive year period, are greater than or equal to 200 ppmv CO at 3% O<sub>2</sub>. (basis: Regulation 9, Rule 10)
5. The owner/operator of S-4068 shall conduct a district approved source test within 45 days of operation outside of the "box" established in condition #2. This condition does not apply to low firing rate conditions during startup or shutdown periods less than 3 days. These source test results shall be submitted to the district source test manager within 45 days of the test date.
  - A. If the results of this source test exceed the permitted emission concentrations or emission rates, the unit will be considered to have been in violation for each day it operated outside of the defined operating range. In this situation, the facility may submit a permit application and a new Regulation 9, Rule 10 control plan, to request a modification of the permit condition to change the NO<sub>x</sub> emission concentration or emission rate and/or an adjustment of the operating range, based on the new test data.
  - B. If the results of this source test do not exceed emission concentrations or rates, the allowable operating range will be adjusted as stated above, based on the new test data. In this situation, the unit will not be considered to be in violation during this period for operating out of the "box" if the unit is operated within the alternate operating conditions approved by the APCO. (basis: Regulation 9, Rule 10)
6. \*NO<sub>x</sub> emissions from S-4068 shall not exceed 0.14 pounds NO<sub>x</sub> per million Btu. (basis: cumulative increase)
7. \*The maximum firing rate at S-4068 shall not exceed 127.5 million Btu's per hour or 3060 million Btu's per rolling 24-hour period. (basis: Regulation 2, Rule 2)
8. The owner/operator of S-4068 shall properly install and properly operate a CEM to continuously measure CO and O<sub>2</sub> if any two source test results over any consecutive five year period are greater than or equal to 200 ppmv CO at 3% O<sub>2</sub>. The owner/operator shall be given the time period, allowed in the District's Manual of Procedures to have the CEM installed and properly operating. (basis: Regulation 9, Rule 10)
9. The owner/operator of S-4068 shall maintain daily records of all fuel usage, the higher heat content of the fuel, and all source test data in order to demonstrate compliance with condition numbers 6 and 7, and Regulation 9, Rule 10. 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: Regulation 9, Rule 10, and Regulation 2, Rule 2)

**Condition #18387** For Sources S-4159 and S-4160:

This condition is effective until 1/1/05. After 1/1/05, this condition shall be replaced by Condition No. 21232.



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1. The owner/operator of S-4159 and S-4160 shall properly install and properly operate a fuel gas flowmeter, and recorder on both of these units in order to demonstrate compliance with Regulation 9, Rule 10. (basis: Regulation 9, Rule 10)
2. The owner/operator of S-4159 and S-4160 shall conduct a district approved NO<sub>x</sub>, CO, and O<sub>2</sub> source test within 45 days of the startup of S- 4159 and S-4160 in order to demonstrate the NO<sub>x</sub> and CO emissions over the full-range of operation of these units or to establish the “box”. The box will contain these four conditions as the corners: (1) low fire/low O<sub>2</sub>, (2) low fire/high O<sub>2</sub>, (3) high fire/low O<sub>2</sub>, and (4) high fire/high O<sub>2</sub>. The results of this test shall be submitted to the district within 30 days of the test date. (basis: Regulation 9, Rule 10)
3. The owner/operator of S-4159 and S-4160 shall conduct at least two district approved NO<sub>x</sub>, CO, and O<sub>2</sub> source tests per consecutive 12 month period in order to measure NO<sub>x</sub>, CO, and O<sub>2</sub> at the as-found firing rate, within 20% of the permitted O<sub>2</sub> conditions likely to maximize NO<sub>x</sub> emissions. (basis: Regulation 9, Rule 10)
4. The owner/operator of S-4159 and S-4160 shall conduct two additional district approved NO<sub>x</sub>, CO, and O<sub>2</sub> source tests at conditions likely to maximize CO at the as-found firing rate, for units that the initial test results or any semi-annual test results of the unit during the past five consecutive year period, are greater than or equal to 200 ppmv CO at 3% O<sub>2</sub>. (basis: Regulation 9, Rule 10)
5. The owner/operator of S-4159 and S-4160 shall conduct a district approved source test within 45 days of operation outside of the “box” established in condition #2. This condition does not apply to low firing rate conditions during startup or shutdown periods less than 3 days. These source test results shall be submitted to the district source test manager within 30 days of the test date.
  - A. If the results of this source test exceed the permitted emission concentrations or emission rates, the unit will be considered to have been in violation for each day it operated outside of the defined operating range. In this situation, the facility may submit a permit application and a new Regulation 9, Rule 10 control plan, to request a modification of the permit condition to change the NO<sub>x</sub> emission concentration or emission rate and/or an adjustment of the operating range, based on the new test data.
  - B. If the results of this source test do not exceed emission concentrations or rates, the allowable operating range will be adjusted as stated above, based on the new test data. In this situation, the unit will not be considered to be in violation during this period for operating out of the “box” if the unit is operated within the alternate operating conditions approved by the APCO. (basis: Regulation 9, Rule 10)
6. \*NO<sub>x</sub> emissions from S-4159 and S-4160 each shall not exceed 0.033 pounds NO<sub>x</sub> per million Btu. (basis: Regulation 9, Rule 10)
7. \*The maximum firing rate at S-4159 shall not exceed 68 million Btu’s per hour or 1632 million Btu’s per rolling 24-hour period. (basis: Regulation 2, Rule 2)
8. \*The maximum firing rate at S-4160 shall not exceed 71 million Btu’s per hour or 1704 million Btu’s per rolling 24-hour period. (basis: Regulation 2, Rule 2)
9. The owner/operator of S-4159 and S-4160 shall properly install and properly operate a CEM to continuously measure CO and O<sub>2</sub> if any two source test results over any consecutive five year period are greater than or equal to 200 ppmv CO at 3% O<sub>2</sub>.<sup>10</sup>The owner/operator shall be given the time period, allowed in the District’s Manual of Procedures to have the CEM installed and properly operating. (basis: Regulation 9, Rule 10)
10. The owner/operator of S-4159 and S-4160 shall maintain daily records of all fuel usage, the higher heat content of the fuel, and all source test data in order to demonstrate compliance with parts 6, 7, and 8, and Regulation 9, Rule 10. (basis: Regulation 9, Rule 10)
11. 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: Regulation 9, Rule 10)

**Condition #18391** For Source S-4167:

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This condition is effective until 1/1/05. After 1/1/05, this condition shall be replaced by Condition No. 21232.

1. The owner/operator of S-4167 shall properly install and properly operate a fuel gas flowmeter, and recorder on both of these units in order to demonstrate compliance with Regulation 9-10. (basis: Regulation 9, Rule 10)
2. The owner/operator of S-4167 shall conduct a district approved NOx, CO, and O2 source test within 45 days of the startup of S-4167 in order to demonstrate the NOx and CO emissions over the full-range of operation of these units or to establish the "box". The box will contain these four conditions as the corners: (1) low fire/low O2, (2) low fire/high O2, (3) high fire/low O2, and (4) high fire/high O2. The results of this test shall be submitted to the district within 30 days of the test date. (basis: Regulation 9, Rule 10)
3. The owner/operator of S-4167 shall conduct at least two district approved NOx, CO, and O2 source tests per consecutive 12 month period in order to measure NOx, CO, and O2 at the as-found firing rate, within 20% of the permitted O2 conditions likely to maximize NOx emissions. (basis: Regulation 9, Rule 10)
4. The owner/operator of S-4167 shall conduct two additional district approved NOx, CO, and O2 source tests at conditions likely to maximize CO at the as-found firing rate, for units that the initial test results or any semi-annual test results of the unit during the past five consecutive year period, are greater than or equal to 200 ppmv CO at 3% O2. (basis: Regulation 9, Rule 10)
5. The owner/operator of S-4167 shall conduct a district approved source test within 45 days of operation outside of the "box" established in condition #2. This condition does not apply to low firing rate conditions during startup or shutdown periods less than 3 days. These source test results shall be submitted to the district source test manager within 45 days of the test date.
  - (a.) If the results of this source test exceed the permitted emission concentrations or emission rates, the unit will be considered to have been in violation for each day it operated outside of the defined operating range. In this situation, the facility may submit a permit application and a new Regulation 9, Rule 10 control plan, to request a modification of the permit condition to change the NOx emission concentration or emission rate and/or an adjustment of the operating range, based on the new test data.
  - (b.) If the results of this source test do not exceed emission concentrations or rates, the allowable operating range will be adjusted as stated above, based on the new test data. In this situation, the unit will not be considered to be in violation during this period for operating out of the "box" if the unit is operated within the alternate operating conditions approved by the APCO. (basis: Regulation 9, Rule 10)
6. NOx emissions from S-4167 shall not exceed 0.035 pounds NOx per million Btu. (basis: Regulation 9, Rule 10)
7. The maximum firing rate at S-4167 shall not exceed 145 million Btu's per hour or 3480 million Btu's per rolling 24-hour period. (basis: Regulation 2, Rule 2)
8. The owner/operator of S-4167 shall properly install and properly operate a CEM to continuously measure CO and O2 if 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 be given the time period, allowed in the District's Manual of Procedures to have the CEM installed and properly operating. (basis: Regulation 9, Rule 10)
9. The owner/operator of S-4167 shall maintain daily records of all fuel usage, the higher heat content of the fuel, and all source test data in order to demonstrate compliance with condition numbers 6, and 7, and Regulation 9-10. 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: Regulation 9, Rule 10)

**Condition #18400** Sources S-4188 and S-4189:

This condition is effective until 1/1/05. After 1/1/05, this condition shall be replaced by Condition No. 21232. For

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1. The owner/operator of S-4188 and S-4189 shall properly install and properly operate a fuel gas flowmeter and recorder in order to demonstrate compliance with Regulation 9-10 Rule 10. (basis: Regulation 9, Rule 10)
2. The maximum firing rate at S-4188 shall not exceed 648 million Btu's per day. (basis: Regulation 2-1-301)
3. The maximum firing rate at S-4189 shall not exceed 360 million Btu's per day. (basis: Regulation 2-1-301)
4. The owner/operator of the S-4188 and S-4189 shall conduct a District-approved source test within 60 days of receipt of this Authority to Construct deemed by the District to be representative of normal operation in order to demonstrate the pre-temporary experimental emissions of NO<sub>x</sub>, CO, and SO<sub>2</sub>. The results of this test shall be submitted to the district within 45 days of the completion of the source test. (basis: Regulations 9-10 & 2-1-403)
5. The use of these temporary experimental Low NO<sub>x</sub> burners shall be completed by 7/1/02. (basis: Regulation 9-10)
6. The owner/operator of S-4188 and S-4189 shall maintain daily records of all NO<sub>x</sub> emissions measured, fuel usage, source test data, and the higher heat content of the fuel in order to demonstrate compliance with parts 2 and 3, and Regulation 9-10. 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. (Regulations 2-1-301 and Regulation 9, Rule 10)

### Condition # 18655

Chevron Products Company; Plant #A0010; Conditions for S-4227, S-4228, and S-4229:

2. Owner/Operator shall conduct an annual SO<sub>3</sub>/H<sub>2</sub>SO<sub>4</sub> source test to demonstrate compliance with Regulation 6-330. (basis: Regulation 2-6-503)

### Condition# 18656 For Sources S-6010, S-6012, S-6013, S-6015, 6017, S-6019, S-6039:

Conditions for monitoring for correctly designed and operating flares: Effective 1/1/05.

Conditions for monitoring smoking flares::

3. For the purposes of these conditions, a flaring event is defined as a flow rate of vent gas flared in any consecutive 15 minutes period that continuously exceeds 330 standard cubic feet per minute (scfm). If during a flaring event, the vent gas flow rate drops below 330 scfm and then increases above 330 scfm within 30 minutes, that shall still be considered a single flaring event, rather than two separate events. For each flaring event during daylight hours (between sunrise and sunset), the owner/operator shall inspect the flare within 15 minutes of determining the flaring event, and within 30 minutes of the last inspection thereafter, using video monitoring or visible inspection following the procedure described in Part 4 of this condition. (basis: Regulation 2-6-409.2)
4. The owner/operator shall use the following procedure for the initial inspection and each 30-minute inspection of a flaring event.
  - A. If the owner/operator can determine that there are no visible emissions using video monitoring, then no further monitoring is necessary for that particular inspection.
  - B. If the owner/operator cannot determine that there are no visible emissions using video monitoring, the owner/operator shall conduct a visual inspection outdoors using either:
    - i. EPA Reference Method 9; or
    - ii. Survey the flare by selecting a position that enables a clear view of the flare at least 15 feet, but not more than 0.25 miles, from the emission source, where the sun is not directly in the observer's eyes.

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- C. If a visible emission is observed, the owner/operator shall continue to monitor the flare for at least 3 minutes, or until there are no visible emissions, whichever is shorter.
  - D. The owner/operator shall repeat the inspection procedure for the duration of the flaring event, or until a violation is documented in accordance with Part 5. After a violation is documented, no further inspections are required until the beginning of a new calendar day. (basis: Regulation 6-301, 2-1-403)
- 5. The owner/operator shall comply with one of the following requirements if visual inspection is used: If EPA Method 9 is used, the owner/operator shall comply with Regulation 6-301 when operating the flare. If the procedure of 4.b.ii is used, the owner/operator shall not operate a flare that has visible emissions for three consecutive minutes. (basis: Regulation 2-6-403)
  - 6. The owner/operator shall keep records of all flaring events, as defined in Part 3. The owner/operator shall include in the records the name of the person performing the visible emissions check, whether video monitoring or visual inspection (EPA Method 9 or visual inspection procedure of Part 4 of this condition) was used, the results of each inspection, and whether any violation of this condition (using visual inspection procedure in Part 4 of this condition) or Regulation 6-301 occurred (using EPA Method 9). (basis: Regulation 2-6-501; 2-6-409.2)
- Conditions for ensuring flare is only used for upset gases (to be exempt from NSPS SO<sub>2</sub> limitation and monitoring)
- 7. The owner/operator shall operate S-6015 and S-6039 Flares to burn only process upset gases as defined by 60.101(e) or fuel gas as defined by 60.101(d) that is released to it as a result of relief valve leakage or other emergency malfunctions. (basis: 60.104(a)(1); Regulation 2-1-403)

### Condition #18702 For Source S-3225:

- 1. Total throughput at S-3225 shall not exceed 10,832,000 barrels in any consecutive 12 month period. (BACT)
- 2. Total benzene concentration at S-3225 shall not exceed 4% by weight. A sample shall be taken to determine the benzene concentration whenever the tank stores either gasoline or aviation fuel. (toxics)
- 3. The owner/operator of S-3225 shall maintain a district approved monthly log of all material throughput at S-3225 and the benzene concentration of gasoline and aviation fuel. 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. (cumulative increase and toxics)

### Condition #18945 For Sources S-4345, S-4429, S-4433, S-4434, and S-4435:

- 1. The owner/operator of S-4433 shall not exceed 1.1 MM scfd total H<sub>2</sub>S produced in any calendar day and 0.92 MM scfd averaged over any consecutive 12 month period. (cum inc)
- 2. The owner/operator of S-4434 shall not exceed 4.97 MM scfd total H<sub>2</sub>S produced in any calendar day and 4.45 MM scfd averaged over any consecutive 12 month period. (cum inc)
- 3. The owner/operator of S-4435 shall not exceed 8.57 MM scfd total H<sub>2</sub>S produced in any calendar day and 8.57 MM scfd averaged over any consecutive 12 month period. (cum inc)
- 4. The owner/operator of S-4429 shall not exceed 2.5 MM scfd total H<sub>2</sub>S produced in any calendar day and 2.33 MM scfd averaged over any consecutive 12 month period. (cum inc)
- 5. The owner/operator of S-4345 shall not exceed 195 gpm total feedrate based on a one hour averaging time. (cum inc)
- 6. The owner/operator of S-4345 shall not exceed 1.81 MM scfd total H<sub>2</sub>S produced in any calendar day.

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(cum inc)

7. The owner/operator of S-4429, S-4433, S-4434, S-4435, and S-4345 shall maintain a district approved daily log of all H<sub>2</sub>S production and feedrates at S-4429, S-4433, S-4434, S-4435, and S-4345 in order to demonstrate compliance with conditions #1 through 6. This log shall be kept on site for 5 years from the date of entry and be made available to district staff upon request. (record keeping)

### Condition #19063 For Sources S-4227, S-4228, and S-4229:

1. The total sulfur produced at S-4227 shall not exceed 189.6 long tons in any calendar day and 150 long tons averaged over any consecutive 12 month period. (cumulative increase)
2. The total sulfur produced at S-4228 shall not exceed 179.0 long tons in any calendar day and 150 long tons averaged over any consecutive 12 month period. (cumulative increase)
3. The total sulfur produced at S-4229 shall not exceed 336 long tons in any calendar day and 292.7 long tons averaged over any consecutive 12 month period. (cumulative increase)
- 4a. H<sub>2</sub>S emissions from each of the tail gas units A-20, A-21, and A-22 shall each not exceed 10 ppmv. (CEQA/BACT)
- 4b. The owner/operator of each tail gas units A- 20, A-21 and A-22 shall not exceed 250 ppmv SO<sub>2</sub>, corrected to 0% O<sub>2</sub> on a 12-hour basis except during periods of startup, shutdown or malfunction of the SRP or SRU, or during malfunction of the TGU. The sulfur Recovery Plants shall be affected facilities under Subpart J and shall comply with all applicable provisions of Subparts A and J. (NSPS Subpart J, Consent Decree case No. 03-04650, 6/27/05)
5. The owner/operator of S-4227, S-4228, and S-4229 shall maintain a district approved daily log with monthly summaries of all sulfur production at each S-4227, S-4228, and S-4229 in order to demonstrate compliance with parts 1 through 4. (cumulative increase)
6. This log shall be kept on site for 5 years from the date of entry and be made available to district staff upon request. (cumulative increase)

### Condition #19425 For Source S-990:

1. Total throughput at S-990 shall not exceed 5,801,400 barrels in any consecutive 2 month period. (BACT)
2. The consecutive 12 month average vapor pressure of all materials stored in S-990 shall not exceed 8.33 psia. (BACT)
3. S-990 shall have no ungasketed roof penetrations, no slotted guide pole unless equipped with float and wiper seals or equivalent, and no adjustable roof legs unless fitted with vapor seal boots or equivalent. (BACT)
4. The owner/operator of S-990 shall maintain a district approved monthly log of all material /throughput and material vapor pressure at S-990. 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. (BACT)

### Condition #19586

This condition is effective until 12/1/04. After 12/1/04, this condition shall be replaced by Condition No. 21232.

#### General Monitoring Condition

1. The owner/operator shall conduct a District-approved source test on a semi-annual basis on Sources S-4032, S-4033, S-4069, S-4095, S-4153, S-4156, S-4161, S-4162, S-4163, and S-4188 to demonstrate compliance with Regulation 9-10-301.1 (NO<sub>x</sub> not to exceed 0.033 lbs/MMbtu on refinery wide basis).

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The test results shall be provided to the District's Compliance and Enforcement Division and the District's Permit Services Division no less than 30 days after the test. These records shall be kept for a period of at least 5 years from date of entry and shall be made available to District staff upon request. [Basis: Regulation 9-10-501]

2. The owner/operator shall conduct a District-approved source test on an annual basis on Source S-4189 to demonstrate compliance with Regulation 9-10-301.1 (NO<sub>x</sub> not to exceed 0.033 lbs/MMBtu on refinery wide basis) and Regulation 9-10-303 (NO<sub>x</sub> not to exceed 0.2 lbs/MMBtu). The test results shall be provided to the District's Compliance and Enforcement Division and the District's Permit Services Division no less than 30 days after the test. These records shall be kept for a period of at least 5 years from date of entry and shall be made available to District staff upon request. [Basis: Regulation 9-10-501]
3. The owner/operator shall conduct a District-approved source test on a semi-annual basis on Sources S-4032, S-4033, S-4046, S-4069, S-4095, S-4153, S-4156, S-4161, S-4162, S-4163, S-4188, S-4332 to S-4335, S-4337, and S-4338 to demonstrate compliance with Regulation 9-10-305 (CO not to exceed 400 ppmv, dry, at 3% O<sub>2</sub>, operating day average). The test results shall be provided to the District's Compliance and Enforcement Division and the District's Permit Services Division no less than 30 days after the test. These records shall be kept for a period of at least 5 years from date of entry and shall be made available to District staff upon request. [Basis: Regulation 9-10-501]
4. The owner/operator shall conduct a District-approved source test on an annual basis on Sources S-4189, S-4330, S-4331, S-4336, and S-4339 to demonstrate compliance with Regulation 9-10-305 (CO not to exceed 400 ppmv, dry, at 3% O<sub>2</sub>, operating day average). The test results shall be provided to the District's Compliance and Enforcement Division and the District's Permit Services Division no less than 30 days after the test. These records shall be kept for a period of at least 5 years from date of entry and shall be made available to District staff upon request. [Basis: Regulation 9-10-501]
5. The owner/operator of S-4155 shall conduct district approved semi-annual source tests to determine compliance with the 50 ppmv CO limit in BAAQMD Condition 8773, part 2. All test results shall be submitted to the district within 45 days of the test date. (Basis: Regulation 2-6-501)

### Condition# 20225 S-7501

1. Hours of Operation: The owner/operator shall operate S-7501 only to mitigate emergency conditions or for reliability-related activities. Operating while mitigating emergency conditions is unlimited. Operating for reliability-related activities is limited to 100 hours per any calendar year. [Basis: Regulation 9-8-330]

"Emergency Conditions" is defined as any of the following:

- (a.) Loss of regular natural gas supply.
- (b.) Failure of regular electric power supply.
- (c.) Flood mitigation.
- (d.) Sewage overflow mitigation.
- (e.) Fire.
- (f.) Failure of a primary motor, but only for such time as needed to repair or replace the primary motor. [Basis: Regulation 9-8-231]

"Reliability-related activities" is defined as any of the following:

- (a.) Operation of an emergency standby engine to test its ability to perform for an emergency use, or
- (b.) Operation of an emergency standby engine during maintenance of a primary motor. [Basis: Regulation 9-8-232]

2. The owner/operator shall equip the emergency standby engine(s) with either:

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- (a.) Non-resettable totalizing meter that measures the hours of operation for the engine; or
  - (b.) A non-resettable fuel usage meter, the maximum hourly fuel rate shall be used to convert fuel usage to hours of operation. [Basis: Regulation 9-8-530]
3. Records: The owner/operator shall maintain the following monthly records in a District-approved log for at least 2 years and shall make the log available for District inspection upon request:
- (a.) Hours of operation (total).
  - (b.) Hours of operation (emergency).
  - (c.) For each emergency, the nature of the emergency condition.
  - (d.) Fuel usage for engine(s) if a non-resettable fuel usage meter is utilized. [Basis: Regulations 9-8-530 and 1-441]

S-7507, S-7510, S-7511, S-7512, S-7513, S-7514, S-7515, S-7516, S-7517, S-7518, S-7520, S-7521, S-7522, S-7523, S-7524, S-7525, S-7526, S-7528, and S-7531

2. In order to demonstrate compliance with the above condition, the owner/operator of S-7507, S-7510, S-7511, S-7512, S-7513, S-7514, S-7515, S-7516, S-7517, S-7518, S-7520, S-7521, S-7522, S-7523, S-7524, S-7525, S-7526, S-7528, and S-7531 shall maintain records of hours of operation in a District-approved log. These records shall be kept on site, summarized on a monthly basis, and made available for District inspection for a period of 5 years from the date on which a record is made. (Basis: Recordkeeping Reg 9-8-530)
3. The owner/operator shall ensure that S-7507, S-7510, S-7511, S-7512, S-7513, S-7514, S-7515, S-7516, S-7517, S-7518, S-7520, S-7521, S-7522, S-7523, S-7524, S-7525, S-7526, S-7528, and S-7531 do not emit, for a period or periods aggregating more than three minutes in any hour, a visible emission that is as dark or darker than No. 2 on the Ringelmann Chart, or of such opacity as to obscure an observer's view to an equivalent or greater degree, nor shall said emission, as perceived by an opacity sensing device in good working order, where such device is required by District regulations, be equal to or greater than 40% opacity. (Basis: Reg 6-303)

COND# 20330 -----

1. The owner/operator shall only operate A-4429 while S-4429 is shut down with the exception of initial testing. (cum inc)
2. The owner/operator shall maintain a minimum fresh aqua-ammonia solution strength of 15% and shall change out the aqua-ammonia solution when its strength reaches 5%. (cum inc)
3. The owner/operator of A-4429 shall check the aqua-ammonia solution strength at least once every 12 hours. (cum inc)

## VI. Permit Conditions

4. The owner/operator of A-4429 shall send the exhaust of A-4429 to the refinery's relief gas system.

(cum inc)

5. The owner/operator of A-4429 shall keep a district approved daily log of the measured aqua-ammonia solution strength. This log shall be kept on site for at least 5 years from the date of entry and be made available to district staff upon request.

(record keeping)

COND# 20366 -----

1. The owner/operator of S-7010 shall not exceed 1000 hours in any calendar year. (Toxics)

2. The owner/operator of S-7010 shall not exceed the following emission rate limits:

0.20 grams per brake horse power hour PM10,

and

6.10 grams per brake horse power hour NOx.

(BACT/Toxics)

3. The owner/operator of S-7010 shall install a non-resettable time recorder in order to demonstrate compliance with condition #1. (Toxics)

4. The owner/operator of S-7010 shall use only California Diesel fuel (fuel oil with less than 0.05% by weight sulfur). (Toxics)

5. The owner/operator of S-7010 shall maintain a district approved monthly log of all hours of operation of S-7010 and any source test data. This log shall be kept on site for at least 5 years from the date of entry and be made available to district staff upon request. (record



## VI. Permit Conditions

keeping)

COND# 20666 -----

1. The OPW 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-102. 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 overflow prevention devices ("flapper valves"), a Drop Tube Overflow Prevention Device and Spill Container Drain Valve Leak Test (TP201.1D) at least once in each 36-month period. Measured leak rates of each component shall not exceed the levels specified in VR-102. Results shall be submitted to BAAQMD within 15 days of the test date in a District-approved format.

### Condition# 20764 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. 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,

## VI. Permit Conditions

Determination of the Vapor Pressure of Organic Liquids from Storage Tanks. For materials listed in Table 1 of Regulation 8 Rule 5, the owner/operator may use Table 1 to determine vapor pressure, rather than Lab Method 28. If the results are above 25.8 mm Hg (0.5 psia), the owner/operator shall report non-compliance in accordance with Standard Condition I.F and shall submit an application to the District for a new permit to operate for the tank as quickly as possible. (Basis: Regulation 2-6-409.2)

2. The results of the testing shall be maintained in a District-approved log for at least five years from the date of the record, and shall be made available to District staff upon request. (Basis: Regulation 2-6-409.2)

### Condition# 20773

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

1. Whenever the type of organic liquid in the tank is changed, the owner/operator shall verify that the true vapor pressure at the storage temperature is less than or equal to 25.8 mm Hg (0.5 psia). The owner/operator shall use Lab Method 28 from Volume III of the District's Manual of Procedures, Determination of the Vapor Pressure of Organic Liquids from Storage Tanks. For materials listed in Table 1 of Regulation 8 Rule 5, the owner/operator may use Table 1 to determine vapor pressure, rather than Lab Method 28. If the results are above 25.8 mm Hg (0.5 psia), the owner/operator shall report non-compliance in accordance with Standard Condition I.F and shall submit an application to the District for a new permit to operate for the tank as quickly as possible. (Basis:8-5-117 & 2-6-409.2).
2. The results of the testing shall be maintained in a District approved log for at least five years from the date of the record, and shall be made available to District staff upon request. (Basis: 2-6-409.2).

### Condition# 20791 A-94 abating S-4094

1. The owner/operator of A-94 shall properly maintain and properly operate A-94 at all times of operation of S-4094. (cum inc)
2. The owner/operator of A-94 shall maintain a minimum operating temperature of 1400F at all times of operation of S-4094. (cum inc)
3. The owner/operator of A-94 shall continuously monitor and record the operating temperature of A-94. (2-6-409.2)

The owner/operator of A-94 shall maintain a district approved log of all continuous temperature monitoring records. This log shall be retained on site for at least 5 years from the date of entry and be made available to district staff upon request. (2-6-409.2)

COND# 20863 -----

Application #07693

1. The owner/operator of S-4405 shall not exceed 100,000 gallons heavy oil throughput in any consecutive 12 month period. (cum inc)
2. The owner/operator of S-4405 shall not exceed

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7,000 gallons heavy oil throughput in any consecutive 24 hour period. (cum inc)

3. The owner/operator of S-4405 may handle other petroleum hydrocarbon stocks as long as the true vapor pressure does not exceed 1.13 psia and emissions of toxic compounds do not exceed any respective trigger levels. (cum inc)

4. The owner/operator of S-4405 shall not handle any material with a benzene concentration greater than 3% by weight. The owner/operator of S-4405 shall measure the benzene concentration of the material contained in each tank car, prior to unloading in order to determine compliance with this condition. (toxics)

5. The owner/operator of S-4405 shall not exceed 0.17 pounds of organic compounds per 1000 gallons of organic liquid loaded. (8-6-301)

6. The owner/operator of S-4405 shall properly maintain and properly operate the A-4405 Vapor Balance System at all times of operation of S-4405. (cum inc)

7. A/C startup condition deleted. (4/7/4)

8. The owner/operator of S-4405 shall maintain a district approved daily log of all material throughput, benzene concentration, and vapor pressure of all materials handled and all source test data at S-4405. This log shall be kept on site for at least 5 years from the date of entry and be made available to district staff upon request. (8-6-501)

### **Condition# 20944 Application #7948**

1. The owner/operator of S-4292 shall not exceed 8000 barrels throughput in any calendar day as measured by the reactor feed meter. (cum inc)
2. The owner/operator of S-4292 shall not exceed 2,920,000 barrels throughput in any consecutive 12 month period as measured by the reactor feed meter. (cum inc)

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3. The owner/operator of S-4292 shall maintain a district approved daily log of all throughput at S-4292 with monthly summaries. This log shall be kept on site for at least five years from the date of entry and be made available to district staff upon request. (2-6-501)**Condition# 21165 Application 8161, S-4424**
1. The owner/operator of S-4424 shall not exceed 2500 pounds of POC emissions in any consecutive 12 month period. (cum inc)
2. The owner/operator of S-4424 shall not exceed 9.8 pounds POC in any calendar day. (cum inc)
3. The owner/operator of S-4424 shall not exceed any toxic trigger level listed in Table 2-1-316. (2-1-316)
4. The owner/operator of S-4424 shall maintain a district approved daily log of all POC emissions with monthly summaries, monthly toxic compound emissions, and MSDS's of all materials used This log shall be kept on site for at least five years from the date of entry and be made available to district staff upon request. (2-1-403)

**Condition# 21232 -**

Effective 1/1/05

COND# 21232 -----

Regulation 9-10 Refinery-Wide Compliance

Affected Sources

\*1. The following sources are subject to the refinery-wide NOx emission rate and CO concentration limits in Regulation 9-10: (9-10-301 & 305)

S# (Y/N,EF)	description	CEM
S-4038	F-3550	Y
S-4039	F-3560	Y
S-4040	F-3570	Y
S-4041	F-3580	Y
S-4042	F-550	Y
S-4043	F-560	Y
S-4044	F-570	Y
S-4045	F-580	Y
S-4059	F-247	Y
S-4060	F-210A/B	Y
S-4061	F-410	Y
S-4062	F-447	Y
S-4068	F-1610	N
S-4069	F-1660	N
S-4070	F-1100A	Y
S-4071	F-1100B	Y
S-4072	F-1160	Y
S-4095	F-210	N
S-4129	Blr #1	Y
S-4131	Blr #3	Y
S-4132	Blr #4	Y

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S-4133	Blr #5	Y
S-4135	Blr #7	Y
S-4152	F-100	Y
S-4154	F-120	N
S-4155	F-135	Y
S-4156	F-320	N
S-4158	F-340	N
S-4159	F-410	Y
S-4160	F-420	Y
S-4161	F-510	Y
S-4162	F-520	Y
S-4163	F-530	Y
S-4164	F-630	Y
S-4165	F-620	Y
S-4166	F-610	Y
S-4167	F-710	Y
S-4168	F-730	Y
S-4169	F-731	Y
S-4170	F-305	Y
S-4171	F-355	Y
S-4188	F-651	N
S-4189	F-661	N
S-4330	F-1610	Y
S-4331	F-1310	Y
S-4332	F-1360	Y
S-4333	F-1750	Y
S-4334	F-1200	Y
S-4335	F-1250	Y
S-4336	F-1410	Y
S-4337	F-1500	Y
S-4338	F-1550	Y
S-4339	F-1110	Y

Monitoring Device Installation \*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. (Reg.9-10-502)

### NOx Box Overview

\*3. The owner/operator shall operate each source listed in Part 1, which does not have a NOx CEM within specified ranges of operating conditions (firing rate and oxygen content) as detailed in Part 5. The ranges shall be established by utilizing data from district-approved source tests. (Reg. 9-10-502)

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1. The NO<sub>x</sub> Box for units with a maximum firing rate of 25 MMBH or more shall be established using the procedures in Part 4.
2. The NO<sub>x</sub> Box for units with a maximum firing rate less than 25MMBH shall be established as follows: High-fire shall be the maximum rated capacity. Low-fire shall be 20% of the maximum rated capacity. There shall be no maximum or minimum O<sub>2</sub>.

### NO<sub>x</sub> Box Establishment

\*4. The owner/operator shall establish the initial NO<sub>x</sub> box for each source subject to Part 3 by June 1, 2004. The NO<sub>x</sub> Box may consist of two operating ranges in order to allow for operating flexibility and to encourage emission minimization during standard operation. (9-10-502) The procedure for establishing the NO<sub>x</sub> box is

- a. Conduct district approved source tests for NO<sub>x</sub> 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 O<sub>2</sub> at low-fire may be different than the minimum O<sub>2</sub> at high-fire. The same is true for the maximum O<sub>2</sub>). The owner/operator shall also verify the accuracy of the O<sub>2</sub> monitor on an annual basis.
- c. Determine the highest NO<sub>x</sub> 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 NO<sub>x</sub> emission factor than tested.
- d. Plot the points representing the desired operating ranges on a graph. The resulting polygon(s) are the NO<sub>x</sub> Box, which represents the allowable operating range(s) for the furnace under which the NO<sub>x</sub> emission factor from part 5a is deemed to be valid.

1)The NO<sub>x</sub> Box can represent/utilize either one or two emission factors.

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2)The NO<sub>x</sub> Box for each emission factor can be represented either as a 4- or 5-sided polygon The NO<sub>x</sub> box is the area within the 4- or 5-sided polygon formed by connecting the source test parameters that lie about the perimeter of successful approved source tests. The source test parameters forming the corners of the NO<sub>x</sub> box are listed in Part 5.

e. Upon establishment of each NO<sub>x</sub> 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.

### NO<sub>x</sub> Box Limits

\*5. Except as provided in part 5B & C, the owner/operator shall operate each source within the NO<sub>x</sub> 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 NO<sub>x</sub> CEM. (9-10-502)

### NO<sub>x</sub> Box ranges

Source No.: S-4154  
Emission Factor: 0.035 lb/MMBtu  
Firing rate MMBtu/h, HHV: 02%  
18.9, 1.5  
18.7, 4.6  
7.9, 5.9  
7.3, 3.7  
14, 1.3

Source No.: S-4158  
Emission Factor: 0.035 lb/MMBtu  
Firing rate MMBtu/h, HHV: 02%  
29, 1.7  
43.71, 1.73  
45.31, 5.62  
15, 4.6  
17, 3.4

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Source No.: S-4188  
Emission Factor: 0.25 lb/MMBtu  
Firing rate MMBtu/h, HHV: 02%  
11.9, 3.2  
4.8, 5.4  
16.6, 8.4  
27, 4.9  
22.3, 4

Source No.: S-4189  
Emission Factor: 0.25 lb/MMBtu  
Firing rate MMBtu/h, HHV: 02%  
3, 25  
3, 0  
15, 0  
15, 25

Source No.: S-4068  
Emission Factor: 0.14 lb/MMBtu  
Firing rate MMBtu/h, HHV: 02%  
56.79, 3.7  
65, 9.5  
27, 9.5  
23.5, 3.59

S-4156 and S-4069 are Not in service The limits listed above are based on a calendar day averaging period for both firing rate and 02%.

1)Part 5A. does not apply to low firing rate conditions (i.e., firing rate less than or equal to 20% of the unit's rated capacity) during startup or shutdown periods or periods of curtailed operation (ex. during heater idling, refractory dryout, etc.) lasting 5 days or less. During these conditions the means for determining compliance with the refinery wide limit shall be accomplished using the method described in 9-10-301.2 (i.e. units out of service & 30-day averaging data).

2)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.

NOx Box Deviations

\*6. NOx Box Deviations (9-10-502)



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1) 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 replicates the past operation outside of the established ranges. The source test representing the new conditions shall be conducted no later than the next regularly scheduled source test period, or within eight months, whichever is sooner. The source test results will establish whether the source was operating outside of the emission factor utilized for the source. The source test results shall be submitted to the district source test manager within 45 days of the test. The owner/operator may request, and the APCO may grant, an extension of 15 days for submittal of results. As necessary, a permit amendment shall be submitted.

1. Source Test  $\leq$  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

## VI. Permit Conditions

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 NO<sub>x</sub> emission factor and/or adjust the operating range, based on the new test data.

- 2) Reporting - The owner/operator must report conditions outside of box within 96 hours of occurrence.

Periodic Source Testing for Sources w/o NO<sub>x</sub> CEM \*7. For each source subject to Part 3, the owner/operator shall conduct source tests at the schedule listed below. The source tests are performed in order to measure NO<sub>x</sub>, CO, and O<sub>2</sub> at the as-found firing rate, or at conditions reasonably specified by the APCO. The source test results shall be submitted to the district source test manager within 45 days of the test. The owner/operator may request, and the APCO may grant, an extension of 15 days for submittal of results. (Reg.9-10-502)

### a) Source Testing Schedule

1. Heater < 25 MMBtu/hr

One source test per consecutive 12 month period. The time interval between source tests shall not exceed 16 months.

2. Heaters => 25 MMBtu/hr

Two source tests per consecutive 12 month period. The time interval between source tests shall not exceed 8 months and not be less than 5 months apart. The source test results shall be submitted to the district source test manager within 45 days of the test. (Reg.9-10-502)

### b) Source Test Results > NO<sub>x</sub> Box

Emission  
Factor

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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.

Periodic Source Testing for Sources w/ NOx CEM \*8. For each source listed in Part 1 with a NOx CEM installed, the owner/operator shall conduct semi-annual district approved CO source tests at as-found conditions. The time interval between source tests shall not exceed 8 months. District conducted CO emission tests associated with District-conducted NOx CEM field accuracy tests may be substituted for the CO semi-annual source tests.

CO Exceedance & CEM Installation \*9. For any source listed in Part 1 with a maximum firing limit greater than 25 MMBtu/h for which any two source test results over any consecutive five year period are greater than or equal to 200 ppmv CO at 3% O<sub>2</sub>, the owner/operator shall properly install, properly maintain, and properly operate a CEM to continuously measure CO and O<sub>2</sub>. The owner/operator shall install the CEM within the time period allowed in the District's Manual of Procedures. (Reg.9-10-502, 1-522)

### Recordkeeping

\*10. In addition to records required by 9-10-504, the facility must maintain records of all source tests conducted to demonstrate compliance with Parts 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. (record keeping & 9-10-504)

NOx Box Policy  
Rev. 2, Updated 9/30/03

### Condition# 21237

- \*1. Until a throughput limit is established, the owner/operator of S-1514, 3072, and S-3101 shall notify the district in writing of any proposed increases in piping and/or pumping associated with S-1514, S-3072, and/or S-3101. This notification shall also apply to any new materials to be handled by S-1514, S-3072, and/or S-3101. This notification shall occur at least 30 days prior to any of the above-mentioned work

## VI. Permit Conditions

being performed. (2-1-234)

COND# 21815 -----

1. The owner/operator of S-4159 and S-4160 shall properly install and operate in-stack NOx and O2 CEMs in order to demonstrate compliance with Regulation 9-10 and Condition #21232. The installation shall occur in accordance with the timetable outlined in the District Manual of Procedures (MOP) Volume V. The owner/operator's receipt of the Authority to Construct shall serve as the district notification that these CEMs are required, which initiates the installation schedule in the District MOP Volume V. (9-10)

COND# 21307 -----

Plant 10, Application #8451

For S-1645 at Plant 10:

1. The owner/operator of S-1645 shall not exceed 520,000 barrels of material throughput during any consecutive twelve-month period. (cum inc)
2. The owner/operator of S-1645 shall only store materials with a vapor pressure that shall not exceed 5.8 psia. The concentration of benzene in materials stored shall not exceed 2.0 wt.%. (cum inc/Toxics)
3. The owner/operator of S-1645 shall maintain a district approved monthly log of all storage tank throughput, type, benzene weight percentage, storage vapor pressure, and all

## VI. Permit Conditions

inspection records. These records shall be kept on site for at least 5 years from the date of entry and be made available to District staff upon request. (2-1-403)

### Condition 22003:

Added during the January 2005 reopening of the Title V permit.

Effective July 1, 2006, Owner/operator of A-414, A-620, A-621, A-622, A-623, A-624, A-625, A-627, and A-628 shall monitor and record operating parameters such that the flow rate may be continuously determined. The owner/operator shall meet the following increments of progress:

April 1, 2005 Submit a proposed monitoring plan listing the parameters to be monitored and the method used to calculate flow rate from the parameters.

July 1, 2005 Submit to the APCO a detailed design of the proposed monitoring system, including probe/sample locations, range and span of the proposed instruments, and any other information necessary to review the design.

June 1, 2006 Complete installation and testing of the monitoring system.

The increments of progress shall not apply if the APCO determines in writing that monitoring of temperature alone is sufficient to verify compliance with 40 CFR 60.482-10(c); 40 CFR 60.692-5(a); and/or 40 CFR 61.242-11(c). Basis: Monitoring required under 2-6-409.2 to show compliance with 40 CFR 60.482-10(c); 40 CFR 60.692-5(a); and/or 40 CFR 61.242-11(c).

COND# 22262 -----

Plant 10, sources 4350, 4352, 4227-9

1. The owner/operator of S-4350 and S-4352 shall conduct a visible emissions inspection after every 1 million gallons of diesel combusted, to be counted cumulatively over a five year period. If a visible emissions are detected, the owner/operator of S-4350 and S-4352 shall complete a method 9 evaluation within the 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. (6-301)
2. The owner/operator of S-4227, S-4228, and S-4229 shall monitor and record on a monthly basis the visible emissions from S-4227, S-

## VI. Permit Conditions

4228, and S-4229 to demonstrate compliance with Regulation 6-301. These records shall be kept for a period of at least 5 years from the date of entry and shall be made available to district staff upon request. (6-301)

COND# 22266 -----

Plant 10, App 11503, S-7601

- 1.The owner/operator of S-7601 shall not exceed 30 gallons of ink usage in any consecutive 12 month period. (cum inc)
- 2.The owner/operator of S-7601 shall not exceed 36 gallons of cleanup solvent in any consecutive 12 month period. (cum inc)
- 3.The owner/operator of S-7601 shall maintain a district approved monthly log of all ink and solvent usage at S-7601. This log shall be kept on site for at least five years from the date of entry and be made available to district staff upon request. (8-4-501)

COND# 22569 -----

### PERMIT CONDITIONS

S-7013 SRU Stationary Standby Generator Set: Diesel Engine;  
Make: Cummins; Model: QSX15-G9; Rated Horsepower:  
750 HP

1. 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 does not have an annual hourly limit. Operating for reliability-related activities is limited to 50 hours per year per emergency standby engine.

(Basis: "Stationary Diesel Engine ATCM" section 93115, title 17, CA Code of Regulations, subsection

## VI. Permit Conditions

(e)(2)(A)(3)

2.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 and properly maintained.

(Basis: "Stationary Diesel Engine ATCM" section 93115, title 17, CA Code of Regulations, subsection (e)(4)(G)(1)

3.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. For Title V facilities, the following monthly records shall be maintained for 5 years. Log entries shall be retained on-site, either at a central location or at the engine's locations, 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 engine(s).

(Basis: "Stationary Diesel Engine ATCM" section 93115, title 17, CA Code of Regulations, Regulation 1-441)

4.The owner or operator shall not operate each stationary emergency standby 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 (if the engine is located within 500 feet of school grounds).

(Basis: "Stationary Diesel Engine ATCM" section 93115, title 17, CA Code of Regulations, subsection (e)(2)(A)(1)

## VI. Permit Conditions

COND# 22641 -----

Plant 10, Application 10729, S-1296, S-1514, S-4226

1. The owner/operator of S-1296 shall not exceed 3,495,000 barrels of material throughput during any consecutive 12 month period. (cumulative increase)
2. The owner/operator of S-1296 shall only store materials with a vapor pressure that shall not exceed 4.1 psia. The concentration of benzene in materials stored at S-1296 shall not exceed 2.75% by weight. (toxics, 2-5)
3. The owner/operator of S-1514 shall not exceed 3,000,000 barrels of material throughput during any consecutive 12 month period. (cumulative increase)
4. The owner/operator of S-1514 shall only store materials with a vapor pressure that shall not exceed 9.8 psia. The concentration of benzene in materials stored at S-1514 shall not exceed 2.75% by weight. (toxics, 2-5)
5. The owner/operator of S-4226 shall not exceed 64,800 barrels of material throughput during any calendar day. (cumulative increase)
6. The owner/operator of S-4226 shall only divert feed from S-4235 during periods when S-4235 is shut down. At no time shall the feed from S-4226 be diverted to S-4235. The throughput during the shut down of S-4235 shall not exceed the lower throughput limit of either S-4235 or S-4226. (cumulative increase)
7. The owner/operator of S-1296 and S-1514 shall maintain a district approved monthly log of all storage tank throughput, type, benzene weight percentage, storage vapor pressure, and all inspection records. The



## VI. Permit Conditions

owner/operator of S-4226 shall maintain a district approved daily log of all material throughput. These records shall be kept on site for at least 5 years from the date of entry and be made available to district staff upon request. (2-1-403)

COND# 22923 -----

Application 13012/13610, P10

1. The owner/operator shall consider the sources listed below as affected facilities under NSPS Subpart J, for fuel gas combustion devices.(Consent Decree case No. 03-04650, 6/27/05)

S-4032 F-101, FCC GHT #3 Cat Furnace  
S-4033 F-102, Penhex Isom #3 Cat Furnace  
S-4039 F-3560, #4 Cat Furnace  
S-4040 F-3570, #4 Cat Furnace  
S-4041 F-3580, #4 Cat Furnace  
S-4043 F-560, #5 Cat Furnace  
S-4044 F-570, #5 Cat Furnace  
S-4045 F-580, #5 Cat Furnace  
S-4046 F-1 HO Heater-Asphalt Plant  
S-4060 F-210A & B, Furnace JHT MDH, LSFO-W  
S-4061 F-410, NHT Furnace  
S-4069 F1670, Aromatic Saturator, LSFO-E  
S-4072 F-1160, 4 Crude, LSFO-E  
S-4129 800 lb Steam Boiler No.1  
S-4131 800 lb Steam Boiler No.3  
S-4132 800 lb Steam Boiler No.4  
S-4133 800 lb Steam Boiler No.5  
S-4135 800 lb Steam Boiler No.7  
S-4153 F-110, Asphalt Solution Heater, SDA, Isomax  
S-4154 F-120, Asphalt Solution Heater, SDA, Isomax  
S-4156 F-320, Naphtha Vaporizer, H2 Plant, Isomax  
S-4157 F-330, Naphtha Vaporizer, H2 Plant, Isomax  
S-4158 F-340, Natural Gas Heater, H2 Plant, Isomax  
S-4162 F-520, TKN Feed Furnace, Isomax  
S-4163 F-530, TKN Feed Furnace, Isomax  
S-4164 F-630, Isocracker Feed Furnace, Isomax  
S-4165 F-620, Isocracker Feed Furnace, Isomax  
S-4166 F-610, Isocracker Feed Furnace, Isomax  
S-4167 F-710, TKC Fractionator, Isomax  
S-4330 F-1610, HNHF Reactor RLOP 16 Plant

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- S-4331 F-1310, LNHF Reactor RLOP
- S-4333 F-1750, TKC Vacuum Furnace
- S-4335 F-1250, Furnace LNC Vacuum RLOP 12 Plant
- S-4336 F-1410, HNC Reactor RLOP
- S-4337 F-1500, HNC Atmospheric RLOP
- S-4339 F-1110, LNC Reactor RLOP
- S-4349 F-1650, Furnace HNC Distillation Section RLOP (BO 2000)
- S-4351 Heat Recovery Steam Generator for Cogen Gas Turbine
- S-4353 Heat Recovery Steam Generator for Cogen Gas Turbine

**COND# 22979** -----

P10, S-4250, A/N 10158

1. The owner/operator of S-4250 shall not exceed 66,102 MMSCF of hydrogen produced in any consecutive 12 month period. (cumulative increase)
2. The owner/operator of S-4250 shall not exceed 181.1 MMSCF of hydrogen produced on any calendar day. (cumulative increase)
3. The owner/operator of S-4250 shall maintain a district approved daily log of hydrogen produced with monthly summaries. This log shall be kept onsite for at least five years from the date of entry and be made available to district staff upon request. (record keeping)

**COND# 23001** -----

APPLICATION 14096; Chevron; PLANT 10  
CONDITIONS FOR S-4940

1. The owner/operator of S-4940 shall not exceed 7,028 gallons of NALCO TRI-ACT 1800 throughput during any twelve-month period. The owner operator may store materials other than NALCO TRI-ACT 1800 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 shall only store materials with a vapor pressure that shall not exceed 0.73 psia. (Basis: cumulative increase)
3. The owner/operator of S-4940 shall maintain records of storage tank throughput, type, storage vapor pressure 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)

**COND# 23201** -----

## VI. Permit Conditions

Application 14307/14308, P10

1. The owner/operator shall consider the sources listed below as affected facilities under NSPS Subparts A and J, for fuel gas combustion devices, including provisions of the approved Alternative Monitoring Program (AMP) for each source (Consent Decree case No. 03-04650, 6/27/05)

S-4070 F-1100A, 4 Crude  
S-4071 F-1100B, 4 Crude  
S-4038 F-3550, #4 Cat Furnace  
S-4042 F-550, #5 Rheniformer  
S-4062 F-447, 5 NHT Furnace  
S-4068 F-1610, DHT Furnace  
S-4059 F-247, JHT Furnace  
S-4159 F-410, TKC Furnace  
S-4160 F-420, TKC Furnace  
S-4161 F-510, TKN/Isomax  
S-4168 F-730, TKN/Isomax  
S-4169 F-731, TKN/Isomax  
S-4152 F-100, SDA  
S-4155 F-135, SDA  
S-4170 F-305, H2A  
S-4171 F-355, H2B  
S-4188 F-651, Poly  
S-4189 F-661, Poly  
S-4334 F-1200, LNC  
S-4332 F-1360, LNHF  
S-4338 F-1550, HNC  
S-4350 Cogen Gas Turbine  
S-4352 Cogen Gas Turbine  
A-620 LPG Racks Plant Thermal Oxidizer  
A-622 Yard DIB Thermal Oxidizer  
A-623 21 Pump Station Thermal Oxidizer  
A-624 17 Pump Station Thermal Oxidizer  
A-627 FCCU Thermal Oxidizer  
A-628 Alky Plant Thermal Oxidizer  
A-900 Marine Vapor Recovery Thermal Oxidizer

COND# 23262 -----

In addition to requirements of Regulation 8, Rule 5, the owner/operator shall comply with the following permit conditions for Source 3127 (S-3127, Tank 3127, External Floating Roof Tank).

## VI. Permit Conditions

1. The owner/operator shall not exceed a throughput of 223,000 barrels of recovered oil in any consecutive 12-month period. [Cumulative Increase]

2. Unless this tank is operated under Part 5 below, the owner/operator shall only store materials with a maximum vapor pressure of 2.5 psia. [Cumulative Increase]

3. The owner/operator shall not allow the total benzene concentration content of the material stored to exceed 0.38% by weight. [Regulation 2, Rule 5]

4. To demonstrate compliance with Part 2 and 3, the owner/operator shall analyze material stored on a quarterly basis for vapor pressure and benzene content. [Cumulative Increase]

5. The owner/operator is allowed to heat the contents of the tank under the following conditions:

a. The number of heating events shall not exceed three (3) in any rolling 12-month period,  
b. The maximum temperature of the contents in the tank shall not exceed 150 degrees

Fahrenheit,

c. The temperature of the tank shall be monitored while the tank is heated, and  
d. The time allowed for heating the contents of the tank shall not exceed 21 consecutive days from the event start date. An event is counted when heat is applied to the tank. [Cumulative Increase]

6. The owner/operator shall maintain the following records:

a. Monthly throughput of all material,  
b. The total throughput of all material for each 12-month period,  
c. All vapor pressure and benzene analyses results including the date the analyses were made,  
d. The start date and stop date when the tank contents are heated, and  
e. The peak temperature when the contents of the tank are heated. Records shall be kept on site for at least 5 years from the date of entry and made available to District staff upon request. [Recordkeeping]

## VII. APPLICABLE LIMITS AND 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 © 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.

**Table VII – Abatement (Devices not in Source Tables)**

**Table VII – Abatement  
 Applicable Limits and Compliance Monitoring Requirements**

**Abatement Devices (In Table II-B, but not included in Table IV)**

**A-0054, , A-0094, A-0414, A-0620, A-0622, A-0623, A-0624, A-0627, A-0628, A-0917, A-919, A-0921, A-0920, A-0922**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
<b>A-0054 Thermal Oxidizer</b>							
POC	8-1-110.3	Y		Abatement of emissions >90% of organic carbon for exemption	N/A	N/A	N/A
	Condition #16393 and 40 CFR 63 Part CC	Y		Minimum temperature of 1400 degrees F NOx 0.2 # /MMBtu, CO 0.80 lb/MMBtu, SOx: 0.027 lb/MMBtu, PM 0.01 lb/MMBtu >98% (by weight) emissions reduction	Condition #16393 Part 4	C	OVA/FID monitoring
<b>A-0094 Thermor Kiln Stack Burner</b>							
POC	8-1-110.3	Y		Abatement of emissions >90% of organic carbon for exemption	condition 20791	C	Temperature monitor
POC	Condition 20791	N		minimum temperature requirement	condition 20791	C	Temperature monitor
<b>A-0414, A-0620, A-0622, A-0623, A-0624, A-0627, A-0628 Thermal Oxidizers</b>							
POC	Condition # 8869 Part 1	Y		Minimum temperature of 1400 degrees F, minimum VOC destruction efficiency 95% by weight	Condition #8869 Part 2	C	Temperature monitor
H2S	60.104(a)(1) Condition #23201	Y		H2S in fuel gas burned ≤ 230 mg/dscm (0.1 gr/dscf), EXCEPT process upset gases or emergency malfunctions	60.105(a)(3) or 60.105(a)(4) or 60.13(i) Condition #23201	C or P(per alternate monitoring plan)	<u>Records</u> <u>SO2/O2 or</u> <u>H2S</u>
<b>A-0917, A-919, A-0921, A-0920, A-0922 Carbon Drums</b>							

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – Abatement  
 Applicable Limits and Compliance Monitoring Requirements**

**Abatement Devices (In Table II-B, but not included in Table IV)**

**A-0054, , A-0094, A-0414, A-0620, A-0622, A-0623, A-0624, A-0627, A-0628, A-0917, A-919, A-0921, A-0920, A-0922**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
POC	40 CFR 61 FF	Y		95% by weight or greater reduction in total organics, or < 500 ppmv total organics in outlet stream, or minimum benzene destruction removal efficiency 98% by concentration weight, or 10 ppmv benzene	40 CFR 61 FF	C	OVA/FID monitoring or portabl G/C monitoring

**Table VII.A.1.1 Combustion (Cogeneration)**

**Table VII.A.1.1 Combustion  
 Applicable Limits and Compliance Monitoring Requirements**

**Cogeneration**

**S-4350 Gas Turbine with Steam Injection Cogeneration Train 1000 and S-4351 Heat Recovery Steam Generation Train 1000 abated by A-0070 CO/HC Catalyst and A-0072 SCR NOx Reduction Catalyst, S-4352 Gas Turbine with Steam Injection Cogeneration Train 2000 and S-4353 Heat Recovery Steam Generation Train 2000 abated by A-0071 CO/HC Catalyst and A-0073 SCR NOx Reduction Catalyst**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NOx	9-9-301.3 adjustment pending per 9-9-401.2.2.2	Y		9 ppmv @15% O <sub>2</sub> (dry)	9-9-501	C	NOx CEM
NOx	9-9-301.3	Y		25 ppmv @15% O <sub>2</sub> (dry) for non-gaseous fuel firing during natural gas curtailment or short testing periods	9-9-501	C	NOx CEM
NOx	NSPS Subpart Db, 60.44b (a)(4)	Y		0.2 lb/MMBtu	Condition #1162 Part 8, 12	C	NOx CEM, fuel gas flow meters, calorimeter on fuel gas

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.A.1.1 Combustion  
 Applicable Limits and Compliance Monitoring Requirements**

### Cogeneration

**S-4350 Gas Turbine with Steam Injection Cogeneration Train 1000 and S-4351 Heat Recovery Steam Generation Train 1000 abated by A-0070 CO/HC Catalyst and A-0072 SCR NOx Reduction Catalyst, S-4352 Gas Turbine with Steam Injection Cogeneration Train 2000 and S-4353 Heat Recovery Steam Generation Train 2000 abated by A-0071 CO/HC Catalyst and A-0073 SCR NOx Reduction Catalyst**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
	Condition #1162 Part 12	Y		10 ppmv NOx at 15% O2, averaged over any 3-hour period, except during periods of startup and shutdown that shall not exceed two hours and one-half hour respectively	Condition #1162 Part 12	C	NOx CEM and O2 or CO2 CEM
CO	Condition #1162 Part 10	Y	6/1/4	> 80% CO reduction	Condition #1162 Part 12	C	CO CEM and O2 or CO2 CEM
POC	Condition #1162 Part 11	Y	6/1/4	> 50% reduction of VOC	Condition #1162 Part 12	C	CO CEM
Sulfur Oxides	9-1-304	Y		Fuel burning (liquid and solid fuels)	9-1-502, 1-520 & 1-522	C	Fuel Analysis
Opacity	6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour	6-601 condition 22262 part 2	P/M	Visual inspection
FP	6-305	Y		Visible Particulates	6-601	P/E	Visual Inspection
	6-310	Y		0.15 grain/dscf	condition 22262 part 1	P/E	Visual inspection
	NSPS Subpart GG, 60.333 (b)	Y		0.8 % sulfur in fuel by weight	NSPS Subpart GG, 60.334 (h,i)	P/semi-annual (interim), P/annual (upon performance test)	Fuel analysis (natural gas exempt)
	Condition #1162 Part 9	Y		0.05% sulfur in diesel	Condition #1162 part 9	P/E	Diesel fuel documents

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.A.1.1 Combustion  
 Applicable Limits and Compliance Monitoring Requirements**

### Cogeneration

**S-4350 Gas Turbine with Steam Injection Cogeneration Train 1000 and S-4351 Heat Recovery Steam Generation Train 1000 abated by A-0070 CO/HC Catalyst and A-0072 SCR NOx Reduction Catalyst, S-4352 Gas Turbine with Steam Injection Cogeneration Train 2000 and S-4353 Heat Recovery Steam Generation Train 2000 abated by A-0071 CO/HC Catalyst and A-0073 SCR NOx Reduction Catalyst**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
H2S	40 CFR, Subpart J, 60.104(a) (1) and Condition #23201	Y		Fuel gas H2S concentration limited to 230 mg/dscm (0.10 gr/dscf) except for gas burned as a result of process upset or gas burned at flares from relief valve leaks or other emergency malfunctions	40 CFR 60.105(a)(4) and Condition #23201	C	H2S analyzer
NH3	Condition #1162 Part 18	Y	6/1/4	20 ppm NH3	BAAQMD 2-6-409.2.2	P/A	source test



## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.A.2.1 Combustion (Flares)**

**Table VII.A.2.1 Combustion  
 Applicable Limits and Compliance Monitoring Requirements**

**Flares**

**S-6010 LSFO Flare, S-6012 V-282 South Isomax Flare, S-6013 North Isomax Flare, S-6015 LSFO Elevated Flare, S-6016 FCC Flare V-731, S-6017 Alkane Flare, SRU S-6019 Alky-Poly Flare, S-6039 Flare V-3501**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Opacity	6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour	6-601  Condition 18656 part 4 (effective 1/1/05)	P/E	Visual inspection, flowmeter and record keeping
Opacity	Condition #18656 part 7	N		Applies to S-6015 and S-6039. This flare shall only combust process upset gasses or fuel that is released to the flare as a result of relief valve leakage, or other emergency malfunctions. Visible for no more than 5 minutes in any two hours.	Condition 18656 Part 6 (effective 1/1/05)	P/E	Records
FP	6-305	Y		Visible Particulates	6-601	P/E	Visual Inspection
	6-310	Y		0.15 grain/dscf	condition 18656 parts 3, 4, 5 (effective 1/1/05)	P/E	Visual inspection
	6-311	Y		emissions based on process weight rate (lb/hour)	condition 18656 parts 3, 4, 5 1 (effective 1/1/05)	P/E	Visual inspection
	Condition #469	Y		Smokeless capacity of S-6015 shall not be less than 240,000 lbs/hr	None	N	N/A
Through-put Limit	Condition #18137	N		See Table IIA	Condition #18137 Part 2	P/M	Recordkeeping

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.A.2.1 Combustion  
 Applicable Limits and Compliance Monitoring Requirements**

### Flares

**S-6010 LSFO Flare, S-6012 V-282 South Isomax Flare, S-6013 North Isomax Flare, S-6015 LSFO Elevated Flare, S-6016 FCC Flare V-731, S-6017 Alkane Flare, SRU S-6019 Alky-Poly Flare, S-6039 Flare V-3501**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Other Monitoring		N	12/4/03		BAAQMD Regulation 12-11-501 & 12-11-505	C	Flow Rate
		N	9/4/03		BAAQMD Regulation 12-11--502.1 & 12-11-505	P/E	Composition
		N	3/4/.04		BAAQMD Regulation 12-11-502.3 & 12-11-505	P/E	Composition
Presence of Flame	12-11-50	N		The flare must be equipped with a monitoring device to detect the presence of a pilot flame.	BAAQMD Regulation 12-11-503 & 12-11-505	P/C	Flame Detector
	Condition #13370	N		purge and pilot gas flow measurements	BAAQMD Regulation 12-11-504 & 12-11-505	P/C	Purge and pilot Gas Flow Rate
		N	12/4/03 (if video monitor installed by 1/1/03)		BAAQMD Regulation 12-11-507	P/C	1 frame per minute image video recording

**VII. Applicable Limits and Compliance Monitoring Requirements**

**Table VII.A.2.1 Combustion  
 Applicable Limits and Compliance Monitoring Requirements**

**Flares**

**S-6010 LSFO Flare, S-6012 V-282 South Isomax Flare, S-6013 North Isomax Flare, S-6015 LSFO Elevated Flare, S-6016 FCC Flare V-731, S-6017 Alkane Flare, SRU S-6019 Alky-Poly Flare, S-6039 Flare V-3501**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
		N	12/4/03  (if any >1E6 SCF/24-hr vent gas flared)		BAAQMD Regulation 12-11-507	P/C	1 frame per minute image video recording

## VII. Applicable Limits and Compliance Monitoring Requirements

Table VII.A.3.1 Combustion rnares)

**Table VII.A.3.1 Combustion  
 Applicable Limits and Compliance Monitoring Requirements**

**Furnaces for which both BAAQMD Regulation 9 Rule 10 and NSPS do not apply**

**S-4107 F-1 Heat Treating Furnace # 1 Boiler Shop (Post Weld Heat Treating Furnace), S-4192 F-2170 Tail Gas Heater #1 SRU, S-4193 F-2270 Tail Gas Heater #2 SRU, S-4194 F-2370 Tail Gas Heater #3 SRU**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Opacity	6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour	6-601	N	None
FP	6-305	Y		Visible Particulates	6-601	P/E	Visual Inspection
	6-310	Y		0.15 grain/dscf	None	N	None
	6-310.3	Y		0.15 grain/dscf @ 6% O2	None	N	None

## VII. Applicable Limits and Compliance Monitoring Requirements

Table VII.A.3.2 Combustion (Furnances)

Table VII.A.3.2 Combustion  
 Applicable Limits and Compliance Monitoring Requirements

**Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply**

S-4032 F-101 FCC GHT #3 Cat Furnace, S-4033 F-102 Penhex Isom #3 Cat Furnace, S-4039 F-3560 #4 Cat Furnace, S-4040 F-3570 #4 Cat Furnace, S-4041 F-3580 #4 Cat Furnace, S-4042 F-550 #5 Cat Furnace, S-4043 F-560 #5 Cat Furnace, S-4044 F-570 #5 Cat Furnace, S-4045 F-580 #5 Cat Furnace, S-4046 F-1 H.O. Heater-Asphalt Plant, S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610, DHT (old VGO) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant, Isomax, S-4158 F-340 Natural Gas Heater H2 Plant, Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4330 F1610 HNHF Reactor RLOP 16 Plant abated by A-0065 SCR, S-4331 F-1310 LNHF Reactor RLOP abated by A-0065 SCR, S-4332 F1360 Hot Oil Furnace RLOP abated by A-0065 SCR, S-4333 F-1750 TKC Vacuum Furnace abated by A-0066 SCR, S-4334 F-1200 Furnace LNC Atmos. RLOP 12 Plant abated by A-0066 SCR, S-4335 F-1250 Furnace LNC Vac. RLOP 12 Plant abated by A-0066 SCR, S-4336 F-1410 HNC Reactor RLOP abated by A-0067 SCR, S-4337 F-1500 HNC Atmos. RLOP abated by A-0067 SCR, S-4338 F-1550, HNC Vac. RLOP abated by A-0067 SCR, S-4339 F-1110 LNC Reactor RLOP abated by A-0067 SCR

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NOx	9-10-301	N	7/1/02	Refinery-wide emissions (excluding CO Boilers) 0.033 lbs NOx/ MMBTU	Conditions: #18015 Part 2 S-4070, S-4071, S-4072  #18172 Part 2 S-4042, S-4043, S-4044, S-4045  #18166 Part 2 S-4061, S-4062	C	CEM
NOx	9-10-301	N		Refinery-wide emissions (excluding CO Boilers) 0.033 lbs NOx/ MMBTU	#18003 Part 3 S-4059, S-4060  #17631 Part 3 S-4158  #18350 Part 3 S-4068	P/semi-annual	Source testing

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.A.3.2 Combustion  
 Applicable Limits and Compliance Monitoring Requirements**

**Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply**

S-4032 F-101 FCC GHT #3 Cat Furnace, S-4033 F-102 Penhex Isom #3 Cat Furnace, S-4039 F-3560 #4 Cat Furnace, S-4040 F-3570 #4 Cat Furnace, S-4041 F-3580 #4 Cat Furnace, S-4042 F-550 #5 Cat Furnace, S-4043 F-560 #5 Cat Furnace, S-4044 F-570 #5 Cat Furnace, S-4045 F-580 #5 Cat Furnace, S-4046 F-1 H.O. Heater-Asphalt Plant, S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610, DHT (old VGO) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant, Isomax, S-4158 F-340 Natural Gas Heater H2 Plant, Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4330 F1610 HNHF Reactor RLOP 16 Plant abated by A-0065 SCR, S-4331 F-1310 LNHF Reactor RLOP abated by A-0065 SCR, S-4332 F1360 Hot Oil Furnace RLOP abated by A-0065 SCR, S-4333 F-1750 TKC Vacuum Furnace abated by A-0066 SCR, S-4334 F-1200 Furnace LNC Atmos. RLOP 12 Plant abated by A-0066 SCR, S-4335 F-1250 Furnace LNC Vac. RLOP 12 Plant abated by A-0066 SCR, S-4336 F-1410 HNC Reactor RLOP abated by A-0067 SCR, S-4337 F-1500 HNC Atmos. RLOP abated by A-0067 SCR, S-4338 F-1550, HNC Vac. RLOP abated by A-0067 SCR, S-4339 F-1110 LNC Reactor RLOP abated by A-0067 SCR

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NOx	9-10-301	N	1/1/05	Refinery-wide emissions (excluding CO Boilers) 0.033 lbs NOx/MMBTU	#21232 parts 4, 5, 6, 7	P/semi-annual	Source testing
NOx	9-10-303	Y		Federal interim emissions Refinery-wide emissions (excluding CO Boilers) 0.20 lbs NOx/MMBTU	#18172 Part 2 S-4042, S-4043, S-4044, S-4045  #18166 Part 2 S-4061, S-4062  #18015 Part 2 S-4070, S-4071, S-4072	C	CEM
NOx	60.44(a)(1)			0.2 lb NOx/Mmbtu limit for gaseous fossil fuel burned	9-10-502.1 federal requirement 60.45 subsumed under Reg. 9 Rule 10 see Table IXB  S-4070, S-4071, S-4072	C	CEM

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.A.3.2 Combustion  
 Applicable Limits and Compliance Monitoring Requirements**

**Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply**

S-4032 F-101 FCC GHT #3 Cat Furnace, S-4033 F-102 Penhex Isom #3 Cat Furnace, S-4039 F-3560 #4 Cat Furnace, S-4040 F-3570 #4 Cat Furnace, S-4041 F-3580 #4 Cat Furnace, S-4042 F-550 #5 Cat Furnace, S-4043 F-560 #5 Cat Furnace, S-4044 F-570 #5 Cat Furnace, S-4045 F-580 #5 Cat Furnace, S-4046 F-1 H.O. Heater-Asphalt Plant, S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610, DHT (old VGO) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant, Isomax, S-4158 F-340 Natural Gas Heater H2 Plant, Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4330 F1610 HNHF Reactor RLOP 16 Plant abated by A-0065 SCR, S-4331 F-1310 LNHF Reactor RLOP abated by A-0065 SCR, S-4332 F1360 Hot Oil Furnace RLOP abated by A-0065 SCR, S-4333 F-1750 TKC Vacuum Furnace abated by A-0066 SCR, S-4334 F-1200 Furnace LNC Atmos. RLOP 12 Plant abated by A-0066 SCR, S-4335 F-1250 Furnace LNC Vac. RLOP 12 Plant abated by A-0066 SCR, S-4336 F-1410 HNC Reactor RLOP abated by A-0067 SCR, S-4337 F-1500 HNC Atmos. RLOP abated by A-0067 SCR, S-4338 F-1550, HNC Vac. RLOP abated by A-0067 SCR, S-4339 F-1110 LNC Reactor RLOP abated by A-0067 SCR

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NOx	60.44b(e)			0.1 lb NOx/MMBtu limit for combusting natural gas with waste/byproduct (includes refinery fuel gas)	9-10-502.1 federal requirement 60.48b subsumed under Reg. 9 Rule 10 see Table IXB  S-4155	C	CEM
O2		Y	7/1/02	No limit	9-10-502  #18015 Part 2 S-4070, S-4071, S-4072  #18172 Part 2 S-4042, S-4043, S-4044, S-4045  #181-6 Part 2 S-4061, S-4062  #469 3b  S-4330 – 4339	C	CEMs

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.A.3.2 Combustion  
 Applicable Limits and Compliance Monitoring Requirements**

**Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply**

S-4032 F-101 FCC GHT #3 Cat Furnace, S-4033 F-102 Penhex Isom #3 Cat Furnace, S-4039 F-3560 #4 Cat Furnace, S-4040 F-3570 #4 Cat Furnace, S-4041 F-3580 #4 Cat Furnace, S-4042 F-550 #5 Cat Furnace, S-4043 F-560 #5 Cat Furnace, S-4044 F-570 #5 Cat Furnace, S-4045 F-580 #5 Cat Furnace, S-4046 F-1 H.O. Heater-Asphalt Plant, S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610, DHT (old VGO) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant, Isomax, S-4158 F-340 Natural Gas Heater H2 Plant, Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4330 F1610 HNHF Reactor RLOP 16 Plant abated by A-0065 SCR, S-4331 F-1310 LNHF Reactor RLOP abated by A-0065 SCR, S-4332 F1360 Hot Oil Furnace RLOP abated by A-0065 SCR, S-4333 F-1750 TKC Vacuum Furnace abated by A-0066 SCR, S-4334 F-1200 Furnace LNC Atmos. RLOP 12 Plant abated by A-0066 SCR, S-4335 F-1250 Furnace LNC Vac. RLOP 12 Plant abated by A-0066 SCR, S-4336 F-1410 HNC Reactor RLOP abated by A-0067 SCR, S-4337 F-1500 HNC Atmos. RLOP abated by A-0067 SCR, S-4338 F-1550, HNC Vac. RLOP abated by A-0067 SCR, S-4339 F-1110 LNC Reactor RLOP abated by A-0067 SCR

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
O2		N	7/1/02	No limit	#18003 Part 3 S-4059, S-4060  #17631 Part 3 S-4158  #18350 Part 3 S-4068	P/semi-annual	Source testing
O2		N	9/1/04	No limit	#21232 parts 2 and 4B	C	O2 Monitors and annual accuracy test



## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.A.3.2 Combustion  
 Applicable Limits and Compliance Monitoring Requirements**

**Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply**

S-4032 F-101 FCC GHT #3 Cat Furnace, S-4033 F-102 Penhex Isom #3 Cat Furnace, S-4039 F-3560 #4 Cat Furnace, S-4040 F-3570 #4 Cat Furnace, S-4041 F-3580 #4 Cat Furnace, S-4042 F-550 #5 Cat Furnace, S-4043 F-560 #5 Cat Furnace, S-4044 F-570 #5 Cat Furnace, S-4045 F-580 #5 Cat Furnace, S-4046 F-1 H.O. Heater-Asphalt Plant, S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610, DHT (old VGO) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant, Isomax, S-4158 F-340 Natural Gas Heater H2 Plant, Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4330 F1610 HNHF Reactor RLOP 16 Plant abated by A-0065 SCR, S-4331 F-1310 LNHF Reactor RLOP abated by A-0065 SCR, S-4332 F1360 Hot Oil Furnace RLOP abated by A-0065 SCR, S-4333 F-1750 TKC Vacuum Furnace abated by A-0066 SCR, S-4334 F-1200 Furnace LNC Atmos. RLOP 12 Plant abated by A-0066 SCR, S-4335 F-1250 Furnace LNC Vac. RLOP 12 Plant abated by A-0066 SCR, S-4336 F-1410 HNC Reactor RLOP abated by A-0067 SCR, S-4337 F-1500 HNC Atmos. RLOP abated by A-0067 SCR, S-4338 F-1550, HNC Vac. RLOP abated by A-0067 SCR, S-4339 F-1110 LNC Reactor RLOP abated by A-0067 SCR

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
CO	9-10-305 #18003 part 4 and part 9	N		400 ppmv (and 200 ppmv for #18003) (dry, 3% O <sub>2</sub> )	#18015 Part 1 S-4070, S-4071, S-4072  #18003 Part 3 S-4059, S-4060  #17631 Part 3 S-4158  #18172 Part 1 S-4042, S-4043, S-4044, S-4045  #18166 Part 1 S-4061, S-4062  #18350 Part 3 S-4068	P semi-annual	Source testing
CO	9-10-305 #21232	N		400 ppmv (and 200 ppmv for #21232) (dry, 3% O <sub>2</sub> )	#21232 parts 4, 7, 8, 9	P/ semi-annual	Source testing

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.A.3.2 Combustion  
 Applicable Limits and Compliance Monitoring Requirements**

**Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply**

S-4032 F-101 FCC GHT #3 Cat Furnace, S-4033 F-102 Penhex Isom #3 Cat Furnace, S-4039 F-3560 #4 Cat Furnace, S-4040 F-3570 #4 Cat Furnace, S-4041 F-3580 #4 Cat Furnace, S-4042 F-550 #5 Cat Furnace, S-4043 F-560 #5 Cat Furnace, S-4044 F-570 #5 Cat Furnace, S-4045 F-580 #5 Cat Furnace, S-4046 F-1 H.O. Heater-Asphalt Plant, S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610, DHT (old VGO) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant, Isomax, S-4158 F-340 Natural Gas Heater H2 Plant, Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4330 F1610 HNHF Reactor RLOP 16 Plant abated by A-0065 SCR, S-4331 F-1310 LNHF Reactor RLOP abated by A-0065 SCR, S-4332 F1360 Hot Oil Furnace RLOP abated by A-0065 SCR, S-4333 F-1750 TKC Vacuum Furnace abated by A-0066 SCR, S-4334 F-1200 Furnace LNC Atmos. RLOP 12 Plant abated by A-0066 SCR, S-4335 F-1250 Furnace LNC Vac. RLOP 12 Plant abated by A-0066 SCR, S-4336 F-1410 HNC Reactor RLOP abated by A-0067 SCR, S-4337 F-1500 HNC Atmos. RLOP abated by A-0067 SCR, S-4338 F-1550, HNC Vac. RLOP abated by A-0067 SCR, S-4339 F-1110 LNC Reactor RLOP abated by A-0067 SCR

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Fuel flow	Condition 469 Part 6E	Y		332 MMBtu/hour [applies to only: S-4330 F1610 HNHF Reactor RLOP 16 Plant abated by A-0065 SCR, S-4331 F-1310 LNHF Reactor RLOP abated by A-0065 SCR, S-4332 F1360 Hot Oil Furnace RLOP abated by A-0065 SCR, S-4333 F-1750 TKC Vacuum Furnace abated by A-0066 SCR, S-4334 F-1200 Furnace LNC Atmos. RLOP 12 Plant abated by A-0066 SCR, S-4335 F-1250 Furnace LNC Vac. RLOP 12 Plant abated by A-0066 SCR, S-4336 F-1410 HNC Reactor RLOP abated by A-0067 SCR, S-4337 F-1500 HNC Atmos. RLOP abated by A-0067 SCR, S-4338 F-1550, HNC Vac. RLOP abated by A-0067 SCR, S-4339 F-1110 LNC Reactor RLOP abated by A-0067 SCR, - 393and S-4349]	Condition 469 Part 4a	P/daily	Daily records reported on a monthly basis

Revision date: April 5, 2007

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.A.3.2 Combustion  
 Applicable Limits and Compliance Monitoring Requirements**

**Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply**

S-4032 F-101 FCC GHT #3 Cat Furnace, S-4033 F-102 Penhex Isom #3 Cat Furnace, S-4039 F-3560 #4 Cat Furnace, S-4040 F-3570 #4 Cat Furnace, S-4041 F-3580 #4 Cat Furnace, S-4042 F-550 #5 Cat Furnace, S-4043 F-560 #5 Cat Furnace, S-4044 F-570 #5 Cat Furnace, S-4045 F-580 #5 Cat Furnace, S-4046 F-1 H.O. Heater-Asphalt Plant, S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610, DHT (old VGO) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant, Isomax, S-4158 F-340 Natural Gas Heater H2 Plant, Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4330 F1610 HNHF Reactor RLOP 16 Plant abated by A-0065 SCR, S-4331 F-1310 LNHF Reactor RLOP abated by A-0065 SCR, S-4332 F1360 Hot Oil Furnace RLOP abated by A-0065 SCR, S-4333 F-1750 TKC Vacuum Furnace abated by A-0066 SCR, S-4334 F-1200 Furnace LNC Atmos. RLOP 12 Plant abated by A-0066 SCR, S-4335 F-1250 Furnace LNC Vac. RLOP 12 Plant abated by A-0066 SCR, S-4336 F-1410 HNC Reactor RLOP abated by A-0067 SCR, S-4337 F-1500 HNC Atmos. RLOP abated by A-0067 SCR, S-4338 F-1550, HNC Vac. RLOP abated by A-0067 SCR, S-4339 F-1110 LNC Reactor RLOP abated by A-0067 SCR

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NOx	9-10-301	N	7/1/02	Refinery-wide emissions (excluding CO Boilers) 0.033 lbs NOx/ MMBTU	#8773 Part 3 S-4155  #469 Part 3.A S-4330, S-4331, S-4332, S-4333, S-4334, S-4335, S-4336, S-4337, S-4338, S-4339	C	CEMs
NOx	9-10-303	Y		Federal interim emissions refinery-wide emissions (excluding CO Boilers) 0.20 lbs NOx/MMBTU	#8773 Part 3 S-4155  #469 Part 3.A S-4330, S-4331, S-4332, S-4333, S-4334, S-4335, S-4336, S-4337, S-4338, S-4339	C	CEMs
NOx	9-10-303	Y		Federal interim emissions refinery-wide emissions (excluding CO Boilers) 0.20 lbs NOx/MMBTU	#18003 Part 3 S-4059, S-4060  #17631 Part 3 S-4158  #18350 Part 3 S-4068	P semi-annual	Source testing

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.A.3.2 Combustion  
 Applicable Limits and Compliance Monitoring Requirements**

**Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply**

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Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NOx	Condition #18003 Part 6			0.03 lbs NOx/MMBtu established as an emission factor for this furnace	#18003 Part 3 S-4059, S-4060	P semi-annual	Source test
NOx	Condition #17631 Part 6			0.035 lbs NOx/MMBtu established as an emission factor for this furnace	#17631 Part 3 S-4158	P Semi-annual	Source test
NOx	Condition #18350 Part 6			0.14 NOx/MMBtu established as an emission factor for this furnace	#18350 Part 3 S-4068	P Semi-annual	Source test
NOx	40 CFR 60 Subpart Dc	Y					
NOx	Condition #8773 Part 1a	Y		8.85 lb/hr for S-4155	#8773 Part 1	C	CEM

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.A.3.2 Combustion  
 Applicable Limits and Compliance Monitoring Requirements**

**Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply**

S-4032 F-101 FCC GHT #3 Cat Furnace, S-4033 F-102 Penhex Isom #3 Cat Furnace, S-4039 F-3560 #4 Cat Furnace, S-4040 F-3570 #4 Cat Furnace, S-4041 F-3580 #4 Cat Furnace, S-4042 F-550 #5 Cat Furnace, S-4043 F-560 #5 Cat Furnace, S-4044 F-570 #5 Cat Furnace, S-4045 F-580 #5 Cat Furnace, S-4046 F-1 H.O. Heater-Asphalt Plant, S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610, DHT (old VGO) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant, Isomax, S-4158 F-340 Natural Gas Heater H2 Plant, Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4330 F1610 HNHF Reactor RLOP 16 Plant abated by A-0065 SCR, S-4331 F-1310 LNHF Reactor RLOP abated by A-0065 SCR, S-4332 F1360 Hot Oil Furnace RLOP abated by A-0065 SCR, S-4333 F-1750 TKC Vacuum Furnace abated by A-0066 SCR, S-4334 F-1200 Furnace LNC Atmos. RLOP 12 Plant abated by A-0066 SCR, S-4335 F-1250 Furnace LNC Vac. RLOP 12 Plant abated by A-0066 SCR, S-4336 F-1410 HNC Reactor RLOP abated by A-0067 SCR, S-4337 F-1500 HNC Atmos. RLOP abated by A-0067 SCR, S-4338 F-1550, HNC Vac. RLOP abated by A-0067 SCR, S-4339 F-1110 LNC Reactor RLOP abated by A-0067 SCR

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NOx	Condition #469 Part 6.B	Y		8-hour average NOx at 3% O2 shall not exceed 40 ppm	#469 Part 3.A S-4330, S-4331, S-4332, S-4333, S-4334, S-4335, S-4336, S-4337, S-4338, S-4339, A-0065, A-0066, A-0067	C	CEM
O2		Y		No limit	#8773 Part 3 S-4155  #469 Part 3.B S-4330, S-4331, S-4332, S-4333, S-4334, S-4335, S-4336, S-4337, S-4338, S-4339	C	CEMs
O2				No limit	40 CFR 60.46c(a)	C	CEM
CO	9-10-305	N		400 ppmv (dry, 3% O <sub>2</sub> )	9-10-502.1	P/A	Source test
CO	Condition #8773 Part 2	Y		50 ppmv [applies to S-4155]	Condition #8773 Part 2	P/semi-annual	source test
Opacity	6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour	None	N	N/A

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.A.3.2 Combustion  
 Applicable Limits and Compliance Monitoring Requirements**

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S-4032 F-101 FCC GHT #3 Cat Furnace, S-4033 F-102 Penhex Isom #3 Cat Furnace, S-4039 F-3560 #4 Cat Furnace, S-4040 F-3570 #4 Cat Furnace, S-4041 F-3580 #4 Cat Furnace, S-4042 F-550 #5 Cat Furnace, S-4043 F-560 #5 Cat Furnace, S-4044 F-570 #5 Cat Furnace, S-4045 F-580 #5 Cat Furnace, S-4046 F-1 H.O. Heater-Asphalt Plant, S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610, DHT (old VGO) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant, Isomax, S-4158 F-340 Natural Gas Heater H2 Plant, Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4330 F1610 HNHF Reactor RLOP 16 Plant abated by A-0065 SCR, S-4331 F-1310 LNHF Reactor RLOP abated by A-0065 SCR, S-4332 F1360 Hot Oil Furnace RLOP abated by A-0065 SCR, S-4333 F-1750 TKC Vacuum Furnace abated by A-0066 SCR, S-4334 F-1200 Furnace LNC Atmos. RLOP 12 Plant abated by A-0066 SCR, S-4335 F-1250 Furnace LNC Vac. RLOP 12 Plant abated by A-0066 SCR, S-4336 F-1410 HNC Reactor RLOP abated by A-0067 SCR, S-4337 F-1500 HNC Atmos. RLOP abated by A-0067 SCR, S-4338 F-1550, HNC Vac. RLOP abated by A-0067 SCR, S-4339 F-1110 LNC Reactor RLOP abated by A-0067 SCR

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
FP	6-305	Y		Visible Particulates	6-601	P/E	Visual Inspection
	6-310	Y		0.15 grain/dscf	None	N	None
	6-310.3	Y		0.15 grain/dscf @ 6% O2	None	None	
Opacity	40 CFR 60 Subpart Dc 60.43c©	Y		20% opacity; 27% opacity for 6 min/hour	40 CFR 60.45c(a)	P/E	Visual Inspection
Opacity	40 CFR 60 Subpart Dc 60.43c©			20% opacity; 27% opacity for 6 min/hour	40 CFR 60.47c(a)	C	CEM [For residual oil-fueled]
SO2	40 CFR 60 Subpart Dc 60.42c(d)	Y		Compliance option: very low sulfur oil (0.5% S)	40 CFR 60.46c(d)	P/fuel change	Fuel sampling
H2S	40 CFR 60 Subpart J 60.104(a) (1) and Condition #23201	Y		Fuel gas H2S concentration limited to 230 mg/dscm (0.10 gr/dscf) [i.e., 160 ppm] except for gas burned as a result of process upset or gas burned at flares from relief valve leaks or other emergency malfunctions	40 CFR 60.105(a)(4) and Condition #23201	C	H2S analyzer

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.A.3.2 Combustion  
 Applicable Limits and Compliance Monitoring Requirements**

**Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply**

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Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
H2S	Condition #8773 Part 5	Y		Fuel gas H2S concentration (V-475) averaged over any 24-hour period shall be limited to 50 ppm [applies to S-4155]	#8773 Part 5	C	H2S analyzer
Fuel Flow	Condition #8773 Part 6 [for S-4155]	Y		209 MMBtu/Hr based on low heating value (LHV) that is equivalent to 230 MMBtu/Hr based on high heating value (HHV)	#8773 Part 6 S-4155	C	Fuel flowmeter

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.A.3.2 Combustion  
 Applicable Limits and Compliance Monitoring Requirements**

**Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply**

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Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Fuel Flow	Condition #16686	N		78 MMBtu/Hr [applies for S-4044] 398 MMBtu/Hr [applies for S-4070] 405 MMBtu/Hr [applies for S-4071]  336 MMBtu/Hr [applies for S-4072] 24.8 MMBtu/Hr [applies for S-4335] 41 MMBtu/Hr [applies for S-4338] 19 MMBtu/Hr [applies for S-4339]	#16686 Part 1	P/D	Record-keeping
Fuel Flow	Condition #18003 Part 7	Y		121 MMBtu/Hr [applies for S-4059]	#18003 Part 1	C	Fuel flowmeter
Fuel Flow	Condition #18003 Part 8	Y		144 MMBtu/Hr [applies for S-4060]	#18003 Part 1	C	Fuel flowmeter
Fuel Flow	Condition #18015 Part 3	Y		398 MMBtu/Hr [applies for S-4070] 405 MMBtu/Hr [applies for S-4071] 336 MMBtu/hr [applies for S-4072]	#18015 Part 2	C	Fuel flowmeter



## VII. Applicable Limits and Compliance Monitoring Requirements

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Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Fuel Flow	Condition #17631 Part 7	Y		48 MMBtu/Hr [applies for S-4158]	#17631 Part 1	C	Fuel flowmeter
Fuel Flow	Condition #18172 Part 3	Y		198 MMBtu/Hr [applies for S-4042] 133 MMBtu/Hr [applies for S-4043] 78 MMBtu/Hr [applies for S-4044] 51 MMBtu/Hr [applies for S-4045]	#18172 Part 2	C	Fuel flowmeter
Fuel Flow	Condition #18166 Part 3	Y		122 MMBtu/Hr [applies to S-4061] 165 MMBtu/Hr [applies to S-4062]	#18166 Part 2	C	Fuel flowmeter
Fuel Flow	Condition #18350 Part 7	Y		127.5 MMBtu/Hr [applies to S-4068]	#18350 Part 1	C	Fuel flowmeter

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.A.3.2 Combustion  
 Applicable Limits and Compliance Monitoring Requirements**

**Furnaces for which BAAQMD Regulation 9 Rule 10 and NSPS Subpart J both apply**

S-4032 F-101 FCC GHT #3 Cat Furnace, S-4033 F-102 Penhex Isom #3 Cat Furnace, S-4039 F-3560 #4 Cat Furnace, S-4040 F-3570 #4 Cat Furnace, S-4041 F-3580 #4 Cat Furnace, S-4042 F-550 #5 Cat Furnace, S-4043 F-560 #5 Cat Furnace, S-4044 F-570 #5 Cat Furnace, S-4045 F-580 #5 Cat Furnace, S-4046 F-1 H.O. Heater-Asphalt Plant, S-4059 F-247 Furnace JHT MDH LSFO-W, S-4060 F-210 A&B Furnace JHT MDH LSFO-W, S-4061 F-410 #5 Naphtha Hydrotreater LSFO-W, S-4062 F-447 #5 Naphtha Hydrotreater LSFO-W, S-4068 F-1610, DHT (old VGO) Furnace LSFO-E, S-4069 F-1670 Aromatic Saturator (Formerly VGO F-1660) DHT Furnace LSFO-E, S-4070 F-1100A 4 Crude LSFO-E, S-4071 F-1100B 4 Crude LSFO-E, S-4072 F-1160 4 Crude LSFO-E, S-4153 F-110 Asphalt Solution Heater SDA Isomax, S-4154 F-120 Asphalt Solution Heater SDA Isomax, S-4155 F-135 Hot Oil Furnace SDA Rose DAO Solution Heater, S-4156 F-320 Naphtha Vaporizer H2 Plant Isomax, S-4157 F-330 Naphtha Vaporizer H2 Plant, Isomax, S-4158 F-340 Natural Gas Heater H2 Plant, Isomax, S-4162 F-520 TKN Feed Furnace Isomax, S-4163 F-530 TKN Feed Furnace Isomax, S-4164 F-630 Isocracker Feed Furnace Isomax, S-4165 F-620 Isocracker Feed Furnace Isomax, S-4166 F-610 Isocracker Feed Furnace Isomax, S-4167 F-710 TKC Fractionator Isomax, S-4330 F1610 HNHF Reactor RLOP 16 Plant abated by A-0065 SCR, S-4331 F-1310 LNHF Reactor RLOP abated by A-0065 SCR, S-4332 F1360 Hot Oil Furnace RLOP abated by A-0065 SCR, S-4333 F-1750 TKC Vacuum Furnace abated by A-0066 SCR, S-4334 F-1200 Furnace LNC Atmos. RLOP 12 Plant abated by A-0066 SCR, S-4335 F-1250 Furnace LNC Vac. RLOP 12 Plant abated by A-0066 SCR, S-4336 F-1410 HNC Reactor RLOP abated by A-0067 SCR, S-4337 F-1500 HNC Atmos. RLOP abated by A-0067 SCR, S-4338 F-1550, HNC Vac. RLOP abated by A-0067 SCR, S-4339 F-1110 LNC Reactor RLOP abated by A-0067 SCR

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Fuel Flow	Condition #469 Part 6E	Y		337.5 MMBtu/hour [applies to only: S-4330 F1610 HNHF Reactor RLOP 16 Plant abated by A-0065 SCR, S-4331 F-1310 LNHF Reactor RLOP abated by A-0065 SCR, S-4332 F1360 Hot Oil Furnace RLOP abated by A-0065 SCR, S-4333 F-1750 TKC Vacuum Furnace abated by A-0066 SCR, S-4334 F-1200 Furnace LNC Atmos. RLOP 12 Plant abated by A-0066 SCR, S-4335 F-1250 Furnace LNC Vac. RLOP 12 Plant abated by A-0066 SCR, S-4336 F-1410 HNC Reactor RLOP abated by A-0067 SCR, S-4337 F-1500 HNC Atmos. RLOP abated by A-0067 SCR, S-4338 F-1550, HNC Vac. RLOP abated by A-0067 SCR, S-4339 F-1110 LNC Reactor RLOP abated by A-0067 SCR, and S-401 - 4349]	Condition #469 Part 4A	P/Daily	Daily records recorded on a monthly basis

Revision date: April 5, 2007

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.A.3.3 Combustion (Furnances)**

**Table VII.A.3.3 Combustion  
 Applicable Limits and Compliance Monitoring Requirements**

**Furnaces for which BAAQMD Regulation 9 Rule 10 applies, but NSPS does not apply:**

**S-4038 F-3550 #4 Cat Furnace, S-4152 F-100, Asphalt Solution Heater, SDA Isomax, S-4159 F-410, TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax, S-4170 F-305 H<sub>2</sub> Reforming Furnace H<sub>2</sub> Plant Isomax abated by A0260 SCR, S-4171 F-355 H<sub>2</sub> Reforming Furnace H<sub>2</sub> Plant, Isomax abated by A6011 SCR, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NOx	9-10-301	N	7/1/02	Refinery-wide emissions (excluding CO Boilers) 0.033 lbs NOx/ MMBTU	#16698 Part 6 S-4038, S-4039, S-4040, S-4041  #16731 Part 2 S-4164, S-4165, S-4166, S-4168, S-4169  #16679 Part 4 S-4170  #17973 Part 2 S-4171  9-10-502	C	CEMs
NOx	9-10-301	N	7/1/02	Refinery-wide emissions (excluding CO Boilers) 0.033 lbs NOx/ MMBTU	#17628 Part 3 S-4152, S-4154  #18387 Part 3 S-4159, S-4160  #18391 Part 3 S-4167	P semi-annual	Source testing
NOx	9-10-301	N	1/1/05	Refinery-wide emissions (excluding CO Boilers) 0.033 lbs NOx/ MMBTU	#21232 parts 4,5,6,7	P/semi-annual	Source testing
NOx	9-10-303	Y		Federal interim emissions refinery-wide emissions (excluding CO Boilers) 0.20 lbs NOx/MMBTU	#16698 Part 6 S-4038, S-4039, S-4040, S-4041  #16731 Part 2 S-4164, S-4165, S-4166, S-4168, S-4169  #16679 Part 4 S-4170  #17973 Part 2 S-4171  9-10-502	C	CEMs

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.A.3.3 Combustion  
 Applicable Limits and Compliance Monitoring Requirements**

**Furnaces for which BAAQMD Regulation 9 Rule 10 applies, but NSPS does not apply:**

**S-4038 F-3550 #4 Cat Furnace, S-4152 F-100, Asphalt Solution Heater, SDA Isomax, S-4159 F-410, TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax, S-4170 F-305 H<sub>2</sub> Reforming Furnace H<sub>2</sub> Plant Isomax abated by A0260 SCR, S-4171 F-355 H<sub>2</sub> Reforming Furnace H<sub>2</sub> Plant, Isomax abated by A6011 SCR, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NOx	9-10-303	Y		Federal interim emissions refinery-wide emissions (excluding CO Boilers) 0.20 lbs NOx/MMBTU	#17628 Part 3 S-4152, S-4154  #18387 Part 3 S-4159, S-4160  #18391 Part 3 S-4167  9-10-502	P semi-annual	Source testing
NOx	Condition #17628 Part 6			0.035 lbs NOx/MMBTu established as an emission factor for this furnace	#17628 Part 3 S-4152	P semi-annual	Source test
NOx	Condition #17628 Part 7			0.035 lbs NOx/MMBTu established as an emission factor for this furnace	#17628 Part 3  S-4154	P semi-annual	Source test
NOx	Condition #18387 Part 6			0.033 NOx/MMBTu established as an emission factor for these furnaces	#18387 Part 3 [applies for S-4159, S-4160]	P Semi-annual	Source test
NOx	#18391 Part 6			0.035 NOx/MMBTu established as an emission factor for this furnace	#18391 Part 3 S-4167	P Semi-annual	Source test
O <sub>2</sub>		Y	7/1/02	No limit	#16698 Part 6 S-4038, S-4039, S-4040, S-4041  #16731 Part 2 S-4164, S-4165, S-4166, S-4168, S-4169  #16679 Part 4 S-4170  #17973 Part 2 S-4171  9-10-502	C	CEMs

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.A.3.3 Combustion  
 Applicable Limits and Compliance Monitoring Requirements**

**Furnaces for which BAAQMD Regulation 9 Rule 10 applies, but NSPS does not apply:**

**S-4038 F-3550 #4 Cat Furnace, S-4152 F-100, Asphalt Solution Heater, SDA Isomax, S-4159 F-410, TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax, S-4170 F-305 H<sub>2</sub> Reforming Furnace H<sub>2</sub> Plant Isomax abated by A0260 SCR, S-4171 F-355 H<sub>2</sub> Reforming Furnace H<sub>2</sub> Plant, Isomax abated by A6011 SCR, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
O <sub>2</sub>			7/1/02	No limit	#17628 Part 3 S-4152, S-4154  #18387 Part 3 S-4159, S-4160  #18391 Part 3 S-4167	P  Semi-annual	Source testing
O <sub>2</sub>		N	1/1/05	No limit	#21232 parts 2, 4B	C	O <sub>2</sub> Monitors and annual accuracy test
CO	9-10-305	N		400 ppmv (dry, 3% O <sub>2</sub> )	#16698 Part 1 S-4038, S-4039, S-4040, S-4041  #16731 Part 1 S-4164, S-4165, S-4166, S-4168, S-4169  #16679 Part 7 S-4170  #17973 Part 7 S-4171  #17628 Part 3 S-4152, S-4154  #18387 Part 3 S-4159, S-4160  #18391 Part 3 S-4167  9-10-502	P  Semi-annual	Source testing
CO	9-10-305 #21232	N	6/1/04	400 ppmv (and 200 ppmv for #21232) (dry, 3% O <sub>2</sub> )	#21232 parts 4, 7, 8., 9	P/ semi-annual	Source testing
Opacity	6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour	6-601	N	Visual inspection
FP	6-305	Y		Visible Particulates	6-601	P/E	Visual Inspection

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.A.3.3 Combustion  
 Applicable Limits and Compliance Monitoring Requirements**

**Furnaces for which BAAQMD Regulation 9 Rule 10 applies, but NSPS does not apply:**

**S-4038 F-3550 #4 Cat Furnace, S-4152 F-100, Asphalt Solution Heater, SDA Isomax, S-4159 F-410, TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax, S-4170 F-305 H<sub>2</sub> Reforming Furnace H<sub>2</sub> Plant Isomax abated by A0260 SCR, S-4171 F-355 H<sub>2</sub> Reforming Furnace H<sub>2</sub> Plant, Isomax abated by A6011 SCR, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
	6-310	Y		0.15 grain/dscf	None	N	None
	6-310.3	Y		0.15 grain/dscf @ 6% O <sub>2</sub>	None	N	None
NH <sub>3</sub>	Condition #16679 Part 1	N		120 lb NH <sub>3</sub> /Hr [applies to S-4170]	none	N	None
Fuel Flow	condition #16686 #18387 #16731	N		505 MMBtu/hr [S-4152] 50.5 MMBtu/hr [S-4154] 68 MMBtu/hr [S-4159] 71 MMBtu/hr [S-4160] 61 MMBtu/hr [S-4161] 61 MMBtu/hr [S-4162] 61 MMBtu/hr [S-4163] 331 MMBtu/hr [S-4168] 847 MMBtu/hr [S-4170] 847 MMBtu/hr [S-4171]	Condition #16686 #18387 #16731	C	Fuel flowmeter
Fuel Flow	Condition #16698 Part 2	N		187 MMBtu/Hr [applies for S-4038], 170 MMBtu/Hr [applies for S-4039] 152 MMBtu/Hr [applies for S-4040], 77 MMBtu/Hr [applies for S-4041]	#16698 Part 4	C	Fuel flowmeter
Fuel Flow	Condition #17628 Part 8	N		50.5 MMBtu/Hr [applies for S-4152]	#17628 Part 1	C	Fuel flowmeter
Fuel Flow	Condition #17628 Part 9	N		50.5 MMBtu/Hr [applies for S-4154]	#17628 Part 1	C	Fuel flowmeter
Fuel Flow	Condition #469	Y		47 MMBtu/Hr HHV [applies for S-4159], 45 MMBtu/Hr HHV [applies for S-4160]	#469	C	Fuel flowmeter

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.A.3.3 Combustion  
 Applicable Limits and Compliance Monitoring Requirements**

**Furnaces for which BAAQMD Regulation 9 Rule 10 applies, but NSPS does not apply:**

**S-4038 F-3550 #4 Cat Furnace, S-4152 F-100, Asphalt Solution Heater, SDA Isomax, S-4159 F-410, TKC Feed Furnace TKC Isomax, S-4160 F-420 TKC Feed Furnace TKC Isomax, S-4161 F-510 TKN Feed Furnace Isomax, S-4168 F-730 Isocracker Splitter Feed Isomax, S-4169 F-731 Isocracker Reboiler Isomax, S-4170 F-305 H<sub>2</sub> Reforming Furnace H<sub>2</sub> Plant Isomax abated by A0260 SCR, S-4171 F-355 H<sub>2</sub> Reforming Furnace H<sub>2</sub> Plant, Isomax abated by A6011 SCR, S-4188 F-651 Polymer Furnace Poly Plant, S-4189 F-661 Polymer Furnace Poly Plant**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Fuel Flow	Condition #16731 Part 3			68 MMBtu/Hr [applies for S-4164], 68 MMBtu/Hr [applies for S-4165], 68 MMBtu/Hr [applies for S-4166], 331 MMBtu/Hr [applies for S-4168], 260 MMBtu/Hr [applies for S-4169]	#16731 Part 5	C	Fuel flowmeter
Fuel Flow	Condition #16679 Part 9			847 MMBtu/Hr [applies for S-4170]	#16679 Part 10	C	Fuel flowmeter
Fuel Flow	Condition #17973 Part 3			847 MMBtu/Hr [applies for S-4171]	#17973 Part 2	C	Fuel flowmeter
Fuel Flow	Condition #18387 Part 7			68 MMBtu/Hr [applies to S-4159]	#18387 Part 1	C	Fuel flowmeter
Fuel Flow	Condition #18387 Part 8			71 MMBtu/Hr [applies to S-4160]	#18387 Part 1	C	Fuel flowmeter
Fuel Flow	Condition #18391 Part 7			145 MMBtu/Hr [applies to S-4167]	#18391 Part 1	C	Fuel flowmeter

H2S	40 CFR 60 Subpart J 60.104(a) (1) and Condition #23201	Y		Fuel gas H2S concentration limited to 230 mg/dscm (0.10 gr/dscf) [i.e., 160 ppm] except for gas burned as a result of process upset or gas burned at flares from relief valve leaks or other emergency malfunctions	40 CFR 60.105(a)(4) and Condition #23201	C	H2S analyzer
Condition #23201	Applies to S-4038 S-4159, S-4160, S-4161, S-4168, S-4169, S-4152, S-4170, S-4171, S-4188, and S-4189						
Part 1	Sources subject to NSPS Subparts A and J						

## VII. Applicable Limits and Compliance Monitoring Requirements

Table VII.A.3.5 Combustion (Furnance)

**Table VII.A.3.5 Combustion  
 Applicable Limits and Compliance Monitoring Requirements**

**Furnace for which BAAQMD Regulation 9 Rule 10 does not apply but NSPS does apply**

**S-4349 F-1650 Furnace HNC Distillation Section RLOP (BO 2000)**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NOx	Condition #469 Part 6 E2	Y		20 ppmv NOx limit	#469 Part 6 E4	P Annual	Source testing
CO	Condition #469 Part 6 E3	Y		50 ppmv CO limit	#469 Part 6 E4	P Annual	Source test
Opacity	6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour	6-601	N	Visual inspection
FP	6-305	Y		Visible Particulates	6-601	P/E	Visual Inspection
	6-310	Y		0.15 grain/dscf	None	N	None
	6-310.3	Y		0.15 grain/dscf @ 6% O2	None	N	None
H2S	40 CFR 60 Subpart J 60.104(a) (1)	Y		Fuel gas H2S concentration limited to 230 mg/dscm (0.10 gr/dscf) [i.e., 160 ppm] except for gas burned as a result of process upset or gas burned at flares from relief valve leaks or other emergency malfunctions	40 CFR 60.105(a)(4)	C	H2S analyzer



## VII. Applicable Limits and Compliance Monitoring Requirements

Table VII.A.4.1 Combustion (Engines)

Table VII.A.4.1 Combustion  
 Applicable Limits and Compliance Monitoring Requirements

### Internal Combustion Engines

**S-7010 DIESEL ENGINE, S-7013 STANDBY GENERATOR DIESEL ENGINE, S-7501 IC ENGINE, S-7507 IC ENGINE, IC ENGINE S-7511 IC ENGINE, S-7512 IC ENGINE, S-7513 IC ENGINE, S-7514 IC ENGINE, S-7515 IC ENGINE, S-7516 IC ENGINE, S-7517 IC ENGINE, S-7518 IC ENGINE, S-7521 IC ENGINE, S-7522 IC ENGINE, S-7523 IC ENGINE, S-7525 IC ENGINE, S-7526 IC ENGINE, AND S-7531 IC ENGINE S-7502, S-7503, S-7504, S-7505, S-7508, S-7509, S-7527, S-7530, Engines under 250 hp**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Opacity	6-303.1	Y		Ringelmann No. 2 for > 3 minutes in any hour or equivalent opacity (does not apply to S-7010)	None	N	N/A
FP	6-305	Y		Visible Particulates		N	
	6-310	Y		0.15 grain/dscf	None	N	N/A
SO2	9-1-304	Y		Sulfur content of liquid fuel ≤ 0.5% by weight	9-1-602	P	Fuel certification
Records	9-8-330Condition 20225 condition 20366 (applies to S-7010)	N		Hours of Operation (applies to S-7501 IC Engine, S-7507 IC Engine, S-7511 IC Engine, S-7512 IC Engine, S-7513 IC Engine, S-7514 IC Engine, S-7515 IC Engine, S-7516 IC Engine, S-7517 IC Engine, S-7518 IC Engine, S-7521 IC Engine, S-7522 IC Engine, S-7523 IC Engine, S-7525 IC Engine, S-7526 IC Engine, and S-7531 IC Engine only)S-7010 1000 hrs/y	9-8-530 Condition 20225 condition 20366 part 3 (applies only to S-7010)	P/M	Recordkeeping
Records	Condition 22569	N		S-7013 Standby Generator Diesel Engine	Condition 22569 part 3	P/M	Record keeping

## VII. Applicable Limits and Compliance Monitoring Requirements

### Table VII.A.5.1 Combustion (Boilers)

#### Table VII.A.5.1 Combustion Applicable Limits and Compliance Monitoring Requirements

#### Boilers

**S-4129 800 lb. Steam Boiler No. 1, S-4131 800 lb. Steam Boiler No. 3, S-4132 800 lb Steam Boiler No. 4,  
 S-4133 800 lb. Steam Boiler No. 5, S-4135 800 lb. Steam Boiler No. 7**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NOx	9-10-301	N	7/1/02	Refinery-wide emissions (excluding CO Boilers) 0.033 lbs NOx/ MMBTU	Conditions: #16650 Part 1 S-4129, S-4131  #17675 Part 1 S-4132, S-4135  #18029 Part 2 S-4133  9-10-502	C	CEMs
NOx	9-10-302	N		Interim emissions 50% of affected units 0.033 lbs NOx/MMBTU	#16650 Part 1 S-4129, S-4131  #17675 Part 1 S-4132, S-4135  #18029 Part 2 S-4133  9-10-502	C	CEMs
NOx	9-10-301	N	1/1/05	Refinery-wide emissions (excluding CO Boilers) 0.033 lbs NOx/ MMBTU	#21232 parts 4,5,6,7	P/semi-annual	Source testing
NOx	9-10-303	Y		Federal interim emissions refinery-wide emissions (excluding CO Boilers) 0.20 lbs NOx/MMBTU	Conditions: #16650 Part 1 S-4129, S-4131  #17675 Part 1 S-4132, S-4135  #18029 Part 2 S-4133  9-10-502	C	CEMs
NOx	9-10-303	Y		Federal interim emissions refinery-wide emissions (excluding CO Boilers) 0.20 lbs NOx/MMBTU	#16650 Part 1 S-4129, S-4131  #17675 Part 1 S-4132, S-4135  #18029 Part 2 S-4133  9-10-502	P semi-annual	Source testing

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.A.5.1 Combustion  
 Applicable Limits and Compliance Monitoring Requirements**

### Boilers

**S-4129 800 lb. Steam Boiler No. 1, S-4131 800 lb. Steam Boiler No. 3, S-4132 800 lb Steam Boiler No. 4,  
 S-4133 800 lb. Steam Boiler No. 5, S-4135 800 lb. Steam Boiler No. 7**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
O2		Y	7/1/02	none	9-10-502 #16650 Part 1 S-4129, S-4131 #17675 Part 1 S-4132, S-4135 #18029 Part 2 S-4133	C	CEMs
O2		N	1/1/05	No limit	#21232 parts 2, 4B	C	CEMs and annual accuracy test
CO	9-10-305	N		400 ppmv (dry, 3% O <sub>2</sub> )	9-10-502.1 #16650 Part 5 S-4129, S-4131 #17675 Part 2 -4132, S-4135 #18029 Part 1 S-4133	P Semi-annual	Source tests
CO	9-10-305 #21232	N	1/1/05	400 ppmv (and 200 ppmv for #21232) (dry, 3% O <sub>2</sub> )	#21232 parts 4,7,8,9	P/ semi-annual	Source testing
Opacity	6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour	None	N	N/A
FP	6-305	Y		Visible Particulates	6-601	P/E	Visual Inspection
	6-310	Y		0.15 grain/dscf	None	N	None
	6-310.3	Y		0.15 grain/dscf @ 6% O <sub>2</sub>	None	N	None
Fuel flow	Condition #16650 Part 2			5592 MMBtu/day =233 MMBtu/hr [applies to S-4129 only]	#16650 Part 1	C	Fuel flowmeter
Fuel flow	Conditions #16650 Part 3 #16686			5664 MMBtu/day =236 MMBtu/hr [applies to S-4131 only]	#16650 Part 1	C	Fuel flowmeter
Fuel flow	Conditions #17675 Part 3 #16686			5640 MMBtu/day =235 MMBtu/hr {applies to S-4132 only]	#17675 Part 1	C	Fuel flowmeter
Fuel flow	Condition #18029 Part 3 #16686			5688 MMBtu/day =237 MMBtu/hr [applies to S-4133 only]	#18029 Part 2	C	Fuel flowmeter

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.A.5.1 Combustion  
 Applicable Limits and Compliance Monitoring Requirements**

### Boilers

**S-4129 800 lb. Steam Boiler No. 1, S-4131 800 lb. Steam Boiler No. 3, S-4132 800 lb Steam Boiler No. 4,  
 S-4133 800 lb. Steam Boiler No. 5, S-4135 800 lb. Steam Boiler No. 7**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Fuel flow	Condition #17675 Part 4			6528 MMBtu/day =272 MMBtu/Hr [applies to S-4135 only]	#17675 Part 1	C	Fuel flowmeter
H2S	40 CFR 60 Subpart J 60.104(a) (1)	Y		Fuel gas H2S concentration limited to 230 mg/dscm (0.10 gr/dscf) [i.e., 160 ppm] except for gas burned as a result of process upset or gas burned at flares from relief valve leaks or other emergency malfunctions	40 CFR 60.105(a)(4)	C	H2S analyzer

**Table VII.B.1.1 Loading Terminals (Asphalt)**

**Table VII.B.1.1 Loading Terminals  
 Applicable Limits and Compliance Monitoring Requirements**

### Asphalt

**S-4240 Asphalt Tank Truck Loading Rack abated by A-4241 Mist Eliminator, S-4241 Asphalt Tank Car Loading Racks abated by A-4241 Mist Eliminator, S-4415 Asphalt Tank Truck Loading Rack abated by A-37 Mist Eliminator**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	8-15-305, 8-15-301 – 8-15-304, & 8-15-112			VOC content of asphalt	8-15-501	P/E	Recordkeeping
Opacity	6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour	None	N	N/A
FP	6-305	Y		Visible Particulates	6-601	P/E	Visual Inspection
	6-310	Y		0.15 gr/dscf	None	N	N/A

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.B.1.1 Loading Terminals  
 Applicable Limits and Compliance Monitoring Requirements**

**Asphalt**

**S-4240 Asphalt Tank Truck Loading Rack abated by A-4241 Mist Eliminator, S-4241 Asphalt Tank Car Loading Racks abated by A-4241 Mist Eliminator, S-4415 Asphalt Tank Truck Loading Rack abated by A-37 Mist Eliminator**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
	Condition #1331 Part 2			For S-4415, loading limit of 238,000 gpd when A-0037 is down	Condition #1331 Part 3	P/D	Record Keeping (Daily throughput)
Refinery Cap	Condition #469	Y					

**Table VII.B.2.1 Loading Terminals (Gasoline)**

**Table VII.B.2.1 Loading Terminals  
 Applicable Limits and Compliance Monitoring Requirements**

**Gasoline**

**S-9304 Gasoline Dispensing Facility**

Pollutant	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	BAAQMD Regulation 8-7-301.6 and 8-7-302.5	Y		Vapor recovery equipment shall be leak-free and vapor tight	BAAQMD Regulation 8-7-301.13	A	Vapor tightness test
VOC	8-7-301.10	N		98% or highest vapor recovery rate specified by CARB	Regulation 8-7-304 Regulation 8-7-503 CARB State Exec Order G-70-138	P/6 months	Recordkeeping and CARB certification testing
VOC	None			None	BAAQMD Regulation 8-7-302.14	A	Backpressure test

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.B.2.1 Loading Terminals  
 Applicable Limits and Compliance Monitoring Requirements**

**Gasoline**

**S-9304 Gasoline Dispensing Facility**

Pollutant	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	8-7-313.1	N		Fugitives $\leq$ 0.42 lb/1000 gallons dispensed	8-7-503	P/6 months	Recordkeeping and CARB certification testing
VOC	8-7-313.2	N		Spillage $\leq$ 0.42 lb/1000 gallons dispensed	8-7-503	P/6 months	Recordkeeping and CARB certification testing
VOC	8-7-313.3	N		Liquid Retain + Spitting $\leq$ 0.42 lb/1000 gallons dispensed	8-7-503	P/6 months	Recordkeeping and CARB certification testing
	None	N		None	8-7-503	P/A	Recordkeeping
VOC	SIP 8-7-301.2	Y		95% recovery of gasoline vapors	8-7-503 and condition 20666	P/6 months	Recordkeeping and CARB certification testing-
	Condition #710	Y		Flowrate limit of 8.0 – 8.6 gpm	None	N	N/A
	Condition #711	Y		Vapor flowrate limit of 17.2 gpm max	None	N	N/A
Throughput	Condition 7880	N		Annual throughput	None	N	N/A

**Table VII.B.3.1 Loading Terminals (LPG)**

**Table VII.B.3.1 Loading Terminals  
 Applicable Limits and Compliance Monitoring Requirements**

**LPG**

**S-4238 Liquefied Petroleum Gas Loading Rack, 15 Pumps**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Refinery Cap	Condition #469	Y					

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.B.4.1 Loading Terminals (Wax)**

**Table VII.B.4.1 Loading Terminals  
 Applicable Limits and Compliance Monitoring Requirements**

**Wax**

**S-4239 Main Tank Car Loading Rack, S-4405 Heavy Oil Transloading Operation**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	8-6-301 and condition 20863 part 5 (applies to S-4405)	Y		21 g/cubic meter (0.17 lb/1000 gallons)	CARB Certification	P/ 6 months; throughput limit revision	Source test, recordkeeping
	8-6-302.1	Y		44 g/cubic meter (0.35 lb/1000 gallons)	CARB Certification	P/ 6 months; throughput limit revision	Source test, recordkeeping
	8-6-302.2	Y		Submerged fill pipe, bottom filling, or a vapor loss control system	None	N	N/A
Throughput	Condition 20863 parts 1 and 2	N		Annual and daily throughput limits	Condition 20863 part 8	P/D	Recordkeeping
Vapor Pressure	Condition 20863 part 3	N		Vapor pressure not to exceed 1.13 psia	Condition 20863 part 8	P/D	Recordkeeping
Benzene	Condition 20863 part 4	N		Benzene not to exceed 3% by weight	Condition 20863 part 8	P/D	Recordkeeping
Refinery Cap	Condition #469	Y					

**Table VII.B.5.1 Loading Terminals (Wharf)**

**Table VII.B.5.1 Loading Terminals  
 Applicable Limits and Compliance Monitoring Requirements**

**Wharf**

**S-4315 Point Orient Wharf, S-9321 Berth #1 Long Wharf 4 Arms, S-9322 Berth #2 Long Wharf 18 Risers, S-9323 Berth #3 Long Wharf 6 Arms, S-9324 Berth #4 Long Wharf 5 Arms, S-9325 Berth #9 Long Wharf 15 Risers, S-9326 Berth #11 Long Wharf 2 Risers  
 (S-9322, S-9323, S-9324, S-9325 abated by A-0900 Marine Vapor Recovery)**

## VII. Applicable Limits and Compliance Monitoring Requirements

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
POC	8-44-301.1	Y		POC emissions < 5.7 grams per cubic meter (2 lb/1000 barrel) loaded, or 8-44-301.2	Regulation 8-44-502 For S-4315 only	P/E	Provide test data upon request of the APCO
POC	8-44-301.1	Y		POC emissions ≤ 5.7 grams per cubic meter (2 lb/1000 barrel) loaded, or 8-44-301.2	Condition #4714 S-9322, S-9323, S-9324, S-9325	P/E	Calculation based on temperature, pressure, hydrocarbons, and flow
POC	8-44-301.2 & 8-44-305	Y		Controlled emissions ≥ 95% by weight	Condition # 4714 S-9322, S-9323, S-9324, S-9325	C	Calculation based on temperature, pressure, hydrocarbons, and flow
POC	8-44-303	Y		Leak free and gas tight	40 CFR 63 563(a)(4)	P/E	Leak test
Refinery cap	Condition #469	Y					
Through-put	Condition #18137	N		Throughput limits	Condition #18137	P/M	Recordkeeping
H2S	40 CFR 60 Subpart J 60.104(a) (1) and Condition #23201	Y		Fuel gas H2S concentration limited to 230 mg/dscm (0.10 gr/dscf) [i.e., 160 ppm] except for gas burned as a result of process upset or gas burned at flares from relief valve leaks or other emergency malfunctions	40 CFR 60.105(a)(4) and Condition #23201	C	H2S analyzer
Condition #23201		Applies to A-0900					
Part 1		Source subjects to NSPS Subparts A and J					

Table VII.C.1.1 Process Units (Cooling Water Towers)

**Table VII.C.1.1 Process Units  
 Applicable Limits and Compliance Monitoring Requirements**

**Cooling Water Towers**

**S-4073 LSFO, S-4076 #3 Cat, S-4172 Isomax E-261F, S-4173 FCC E-710,  
 S-4187 FCC Polymer E-781, S-4191 SRU (Alkane) E-2900, S-4329 RLOP Cooling Tower, S-6051 ALKY CWT**



## VII. Applicable Limits and Compliance Monitoring Requirements

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Opacity	6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour	None	P/M	Measurement of total dissolved solids
FP	6-305	Y		Visible Particulates	6-601	P/E	Visual Inspection
FP	6-311	Y		4.10 P <sup>0.67</sup> lb/hr particulate, where P is process weight rate in ton/hr	none	P/M	Measurement of total dissolved solids
TDS	Condition #14596 Part 2	Y	6/1/4	For S-6051, TDS < 2000 ppm (wt) averaged over any consecutive 30-day period	Condition #14596 Part 3 (Prior to completion of work authorized under application # 13023 , effective until TBA)	P/M	monthly tests of TDS
	Condition #14596 Part 2	Y	6/1/4	For S-6051, TDS < 2000 ppm (wt) averaged over any consecutive 30-day period	Condition #14596 Part 6 (effective TBA)	P/M	monthly tests of TDS
	Condition #10597 Part 2	Y	6/1/4	For S-6054, TDS < 1000 ppm (wt) averaged over any consecutive 30-day period		P/M	monthly tests of TDS
	Condition #10598 Part 2	Y	6/1/4	For S-6055, TDS < 1000 ppm (wt) averaged over any consecutive 30-day period		P/M	monthly tests of TDS
POC	Condition 14596 Part 1	Y	6/1/4	For S-6051, POC < 23.7 lb/day averaged over any consecutive 30-day period	Condition #14596 Part 3 (Prior to completion of work authorized under application # 13023 , effective until TBA)	P/M	monthly tests of POC
	Condition 14596 Part 1	Y	6/1/4	For S-6051, POC < 30.2 lb/day averaged over any consecutive 12 month period	Condition #14596 Part 7 (effective TBA)	C	Hydrocarbon analyzer and flowmeter
	Condition #10597 Part 1	Y	6/1/4	For S-6054, HC emissions < 2.5 lb/day averaged over any consecutive 30-day period		P/M	monthly tests of POC
	Condition #10598 Part 1	Y	6/1/4	For S-6055, HC emissions < 2.5 lb/day averaged over any consecutive 30-day period		P/M	monthly tests of POC

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.C.3.1 Process Units (Miscellaneous Process Units)**

**Table VII.C.3.1 Process Units  
 Applicable Limits and Compliance Monitoring Requirements**

**Miscellaneous Process Units**

S-4226 FGHT FCC Gasoline Hydrotreater, S-4233 Jet Hydrotreater, S-4234 No. 5 Naphtha Hydrotreater, S-4235 Diesel Hydrotreater, DHT, S-4236 No. 4 Crude Unit, S-4237 No. 5 Rheniformer, S-4250 Hydrogen Manufacturing,  
 S-4251 Solvent Deasphalting Plant SDA, S-4252 TKN Isocracker Plant, S-4253 TKC Isocracker Plant, S-4261 Wax Deoiler No. 2, S-4262 Wax Rerun Plant, S-4265 Lube/Wax Refinishing, S-4282A Penhex Isomerization Plant, S-4283 No. 4 Catalytic Reformer,  
 S-4286 FCC Gas Recovery Unit Light Ends Recovery GRU, S-4291 H2SO4 Alkylation Plant, S-4292 FCC Polymer Plant, S-4340 Light Neutral Hydrocracker LNC, S-4341 Light Neutral Hydrofinisher LNHF, S-4342 Heavy Neutral Hydrocracker HNHC, S-4343 Heavy Neutral Hydrofinisher HNHF, S-4346 Gas Recovery Unit GRU RLOP, S-4348 H2 Recovery Plant RLOP, S-4354 Butamer Plant, S-4355 Alky (Yard) DIB, S-4356 Tertiary Amyl Methyl Ether Plant  
 TAME, S-4360 Perc Storage Vessel, S-4400 Wax Melt Vessel, S-6050 MTBE Plant

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Throughput limit	Condition #469 Part 5	Y		Applies to S-4340 not to exceed 15,500 barrels/operating day Applies to S-4341 not to exceed 19,000 barrels/operating day Applies to S-4342 not to exceed 20,000 barrels/operating day Applies to S-4343 not to exceed 8,000 barrels/operating day Applies to S-4253 not to exceed 65,000 barrels/operating day	Condition #469 Part 6	P/Daily	Daily records recorded on a monthly basis

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.C.3.1 Process Units  
 Applicable Limits and Compliance Monitoring Requirements**

**Miscellaneous Process Units**

S-4226 FGHT FCC Gasoline Hydrotreater, S-4233 Jet Hydrotreater, S-4234 No. 5 Naphtha Hydrotreater, S-4235 Diesel Hydrotreater, DHT, S-4236 No. 4 Crude Unit, S-4237 No. 5 Rheniformer, S-4250 Hydrogen Manufacturing,  
 S-4251 Solvent Deasphalting Plant SDA, S-4252 TKN Isocracker Plant, S-4253 TKC Isocracker Plant, S-4261 Wax Deoiler No. 2, S-4262 Wax Rerun Plant, S-4265 Lube/Wax Refinishing, S-4282A Penhex Isomerization Plant, S-4283 No. 4 Catalytic Reformer,  
 S-4286 FCC Gas Recovery Unit Light Ends Recovery GRU, S-4291 H2SO4 Alkylation Plant, S-4292 FCC Polymer Plant, S-4340 Light Neutral Hydrocracker LNC, S-4341 Light Neutral Hydrofinisher LNHF, S-4342 Heavy Neutral Hydrocracker HNHC, S-4343 Heavy Neutral Hydrofinisher HNHF, S-4346 Gas Recovery Unit GRU RLOP, S-4348 H2 Recovery Plant RLOP, S-4354 Butamer Plant, S-4355 Alky (Yard) DIB, S-4356 Tertiary Amyl Methyl Ether Plant  
 TAME, S-4360 Perc Storage Vessel, S-4400 Wax Melt Vessel, S-6050 MTBE Plant

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Throughput limit	Condition #22979 Part 1 and 2	Y		Applies to S-4250 not to exceed 181.1 MMSCF/operating day, and not to exceed 66,102 MMSCF/year	Condition # 22979 Part 3	P/daily	Daily recorded on a monthly basis
Throughput limit	Condition #22641 Part 5	Y		Applies to S-4226	Condition # 22641 Part 7	P/daily	Record keeping
	Condition #8180	Y		Applies to S-4235			
	Condition #9048	Y		Applies to S-4253	#9048	P/M	Recordkeeping
	Condition #13369	Y		Applies to S-4355, S-4348, S-4346			
	Condition #14701	Y		Applies to S-4355	#14701	P/D for S-4291	Recordkeeping
	Condition #18337	Y		Applies to S-4354 and S-4360	#18337	P/D	Record Keeping

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.C.3.1 Process Units  
 Applicable Limits and Compliance Monitoring Requirements**

**Miscellaneous Process Units**

S-4226 FGHT FCC Gasoline Hydrotreater, S-4233 Jet Hydrotreater, S-4234 No. 5 Naphtha Hydrotreater, S-4235 Diesel Hydrotreater, DHT, S-4236 No. 4 Crude Unit, S-4237 No. 5 Rheniformer, S-4250 Hydrogen Manufacturing,  
 S-4251 Solvent Deasphalting Plant SDA, S-4252 TKN Isocracker Plant, S-4253 TKC Isocracker Plant, S-4261 Wax Deoiler No. 2, S-4262 Wax Rerun Plant, S-4265 Lube/Wax Refinishing, S-4282A Penhex Isomerization Plant, S-4283 No. 4 Catalytic Reformer,  
 S-4286 FCC Gas Recovery Unit Light Ends Recovery GRU, S-4291 H2SO4 Alkylation Plant, S-4292 FCC Polymer Plant, S-4340 Light Neutral Hydrocracker LNC, S-4341 Light Neutral Hydrofinisher LNHF, S-4342 Heavy Neutral Hydrocracker HNHC, S-4343 Heavy Neutral Hydrofinisher HNHF, S-4346 Gas Recovery Unit GRU RLOP, S-4348 H2 Recovery Plant RLOP, S-4354 Butamer Plant, S-4355 Alky (Yard) DIB, S-4356 Tertiary Amyl Methyl Ether Plant  
 TAME, S-4360 Perc Storage Vessel, S-4400 Wax Melt Vessel, S-6050 MTBE Plant

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
	Condition #20944	N		Applies to S-4292	#20944	P/D	Record Keeping
	Condition #6001	Y		Applies to S-4286			
	Condition #16393 part 1	Y		Applies to A-54	Condition #16393 part 6	C	Flow meter
NOx	Condition 8773 part 1	Y		8.85 #/hr	#8773 part 1	C	CEM
NOx	Condition #16393 part 2	Y		0.2 #/MMBtu	Condition #16393 part 5	P/initial source test	Source test
CO	Condition 8773 part 2	Y		50 ppm CO	#8773 part 2	P/initial source test	Source test
CO	Condition #16393	Y		0.8 #/MMBtu	#16393 part 5	P/initial source test	Source test
H2S	Condition #8773 part 5	Y		50 ppm	Condition #8773 part 5	C	CEM

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.C.3.1 Process Units  
 Applicable Limits and Compliance Monitoring Requirements**

**Miscellaneous Process Units**

S-4226 FGHT FCC Gasoline Hydrotreater, S-4233 Jet Hydrotreater, S-4234 No. 5 Naphtha Hydrotreater, S-4235 Diesel Hydrotreater, DHT, S-4236 No. 4 Crude Unit, S-4237 No. 5 Rheniformer, S-4250 Hydrogen Manufacturing,  
 S-4251 Solvent Deasphalting Plant SDA, S-4252 TKN Isocracker Plant, S-4253 TKC Isocracker Plant, S-4261 Wax Deoiler No. 2, S-4262 Wax Rerun Plant, S-4265 Lube/Wax Refinishing, S-4282A Penhex Isomerization Plant, S-4283 No. 4 Catalytic Reformer,  
 S-4286 FCC Gas Recovery Unit Light Ends Recovery GRU, S-4291 H2SO4 Alkylation Plant, S-4292 FCC Polymer Plant, S-4340 Light Neutral Hydrocracker LNC, S-4341 Light Neutral Hydrofinisher LNHF, S-4342 Heavy Neutral Hydrocracker HNHC, S-4343 Heavy Neutral Hydrofinisher HNHF, S-4346 Gas Recovery Unit GRU RLOP, S-4348 H2 Recovery Plant RLOP, S-4354 Butamer Plant, S-4355 Alky (Yard) DIB, S-4356 Tertiary Amyl Methyl Ether Plant  
 TAME, S-4360 Perc Storage Vessel, S-4400 Wax Melt Vessel, S-6050 MTBE Plant

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
O2	Condition #8773	Y		None	#8773 part 3	C	CEM
POC	Condition #15698, Regulation 8-2	Y		Applies to S-4250 Emission < 15 lbs C/day or < 300 ppm C dry, 3-hr average, water temp <80F, 3-hr average vent flow < 5 Klb/hr, 3-hr average water flow > 30 gpm, water/vent flow ratio >11.6	#15698 Regulation 8-2	P/M	Recordkeeping
POC	Condition #16393 part 3			1400F min for A-54	Condition #16393 part 4	C	Temperature monitor
SOx	Condition #16393 part 2	Y		0.027 #/MMBtu	#16393 part 5	P/initial source test	Source test

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.C.3.1 Process Units  
 Applicable Limits and Compliance Monitoring Requirements**

**Miscellaneous Process Units**

**S-4226 FGHT FCC Gasoline Hydrotreater, S-4233 Jet Hydrotreater, S-4234 No. 5 Naphtha Hydrotreater, S-4235 Diesel Hydrotreater, DHT, S-4236 No. 4 Crude Unit, S-4237 No. 5 Rheniformer, S-4250 Hydrogen Manufacturing, S-4251 Solvent Deasphalting Plant SDA, S-4252 TKN Isocracker Plant, S-4253 TKC Isocracker Plant, S-4261 Wax Deoiler No. 2, S-4262 Wax Rerun Plant, S-4265 Lube/Wax Refinishing, S-4282A Penhex Isomerization Plant, S-4283 No. 4 Catalytic Reformer, S-4286 FCC Gas Recovery Unit Light Ends Recovery GRU, S-4291 H2SO4 Alkylation Plant, S-4292 FCC Polymer Plant, S-4340 Light Neutral Hydrocracker LNC, S-4341 Light Neutral Hydrofinisher LNHF, S-4342 Heavy Neutral Hydrocracker HNHC, S-4343 Heavy Neutral Hydrofinisher HNHF, S-4346 Gas Recovery Unit GRU RLOP, S-4348 H2 Recovery Plant RLOP, S-4354 Butamer Plant, S-4355 Alky (Yard) DIB, S-4356 Tertiary Amyl Methyl Ether Plant TAME, S-4360 Perc Storage Vessel, S-4400 Wax Melt Vessel, S-6050 MTBE Plant**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
PM	Condition #16393 part 2	Y		0.01 #/MMBtu	#16393 part 5	P/initial source test	Source test
HCl	Refinery MACT2, 40 CFR 63 subpart UUU, 63.1567(a)(1)	Y	4/11/05	+ or > 92% reduction in HCl or = or < 30 ppmv HCl (dry basis) emitted corrected to 3% O2 (applies to S-4237 & S-4283 catalyst regene exhaust gas)	Refinery MACT2, 40 CFR 63 subpart UUU, 63.1567(b)(2)	P/initial source test (during coke burn off & catalyst rejuvenation)	Source test
HCl	Refinery MACT2, 40 CFR 63 subpart UUU, 63.1567(a)(2)	Y	4/11/05	Site specific operating limit (ppm HCl in catalyst regenerator exhaust gas) = a numerical limit TBD during initial source test	Refinery MACT2, 40 CFR 63 subpart UUU, 63.1567(c)(1)	P (during coke burn off & catalyst rejuvenation)	Method in Table 27/28 of subpart

## VII. Applicable Limits and Compliance Monitoring Requirements

Table VII.C.2.1 Process Units (FCC)

Table VII.C.2.1 Process Units  
 Applicable Limits and Compliance Monitoring Requirements

### FCC

#### S-4285 Fluid Catalytic Cracking Unit

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Opacity	6-302	Y		Opacity shall not exceed 20% for more than 3 minutes in any hour	6-502	C	Opacity monitor
Opacity	6-304			During tube cleaning, and except for three minutes in any one hour, a person shall not emit from any heat transfer operation using fuel at a rate of not less than 140 million Btu per hour, a visible emission as dark or darker than No. 2 on the Ringelmann chart, or of such opacity as to obscure an observers view to an equivalent degree, or equal to or greater than 40% opacity as perceived by an opacity sensing device in good working order. The aggregate duration of such emissions in any 24-hour period shall not exceed 6.0 minutes per one billion Btu gross heating value of fuel burned during such 24 hour period.	1-520.5	C	Opacity monitor
Opacity	40 CFR 60 Subpart J 60.102(a)(2)	Y		30 % opacity, except for one 6 minute average opacity reading in 1 hour	40 CFR 60 Subpart J 60.105(a)(1)	C	Opacity monitor
Opacity	Refinery MACT2, 40 CFR 63 subpart UUU, 63.1564(a)(1)	Y	4/11/05	30% opacity, except for one 6 minute average opacity reading in 1 hour	63.1564(b)(1) & 63.1564(c)(1)	C	Opacity monitor
FP	6-310	Y		0.15 grain/dscf	#11066 Part 7a	P/Q,P/D,C	Source test,TR set secondary current, Temperature monitor and recorder

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.C.2.1 Process Units  
 Applicable Limits and Compliance Monitoring Requirements**

**FCC**

**S-4285 Fluid Catalytic Cracking Unit**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
FP	6-311	Y		40 <sup>lb</sup> /hr particulate hr	#11066 Part 7a	P/Q,P/D,C	Source test,TR set secondary current, Temperature monitor and recorder
PM	40 CFR 60 Subpart J 60.102(a)(1)	Y		1.0 kg of PM per 1000 kg of coke burn off in catalyst generator	#11066 Part 7a	P/Q	Source test
PM	Refinery MACT2, 40 CFR 63 subpart UUU, 63.1564(a)(1)	Y	4/11/05	1.0 kg of PM per 1000 kg of coke burn off in catalyst generator	PM: #11066 part 7a	P/Q	Source test
TSP	Cleaner Fuels Project FCC Mod. Condition #11066 Part 3	Y		92 TPY TSP [applicable to S-4285]	#11066 Part 7a	P/Q	Source test
TSP	Cleaner Fuels Project FCC Mod. Condition #11066 Par #7	Y		21 lb TSP/hr, average of four source tests per calendar year [applicable to S-4285]	Cleaner Fuels Project FCC Mod. Condition #11066 Part #7	P/Q	Quarterly performance test
SO2	9-1-310.1	Y		1000 ppmv	9-1-502 1-520.5	C	SO2 CEM
SO2	9-1-313.1	Y		Sulfur content of crude oil shall not exceed 0.10% by wt, or	None	P/D	Crude Sampling when sulfur plants are down
SO2	9-1-313.2	Y	6/1/04	Removal and recovery of 95% of H2S in refinery fuel gas and 95% of H2S in process water streams on a refinery-wide basis		N/A	9



## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.C.2.1 Process Units  
 Applicable Limits and Compliance Monitoring Requirements**

**FCC**

**S-4285 Fluid Catalytic Cracking Unit**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
SO2	SIP 9-1-313.2	Y	6/1/04	95% of H2S in refinery fuel gas is removed and recovered on a refinery-wide basis and 95% of H2S in process water streams is removed and recovered on a refinery-wide basis		N/A	
SO2	40 CFR 60 Subpart J 60.104(b) (2)	Y		Without add-on control device, maintain SO2 emissions to atmosphere at less than or equal to 9.8 kg of SO2 per 1000 kg of coke burn-off	40 CFR 60 Subpart J 60.106(l)(12)	C	Calculated stoichiometrically from SO2 CEM, & process monitoring for air inlet rate to regenerator
SOx	Cleaner Fuels Project FCC Mod. Condition #11066 Part 3			2199.4 TPY [applicable to S-4285]	#11066 Part 10a	C	CEMs
SO2	Cleaner Fuels Project FCC Mod. Condition #11066 Part 4			Shall not exceed 330 ppmv averaged over any 24-hour operating period, corrected to 3% oxygen, dry [applicable to S-4285]	Cleaner Fuels Project FCC Mod. Condition #11066 Part 9c	C	CEMs
SO2	Cleaner Fuels Project FCC Mod. Condition #11066 Part 10a or Part 10b	Y		9.8 lbs SO2/1000 lbs coke burn off (7-day rolling average) [applicable to S-4285] or 0.3 wt.% S in fresh feed [applicable to S-4285]	40 CFR 60.106(l)(12) or 60.106(j)	C Or P/8 hours	Calculated stoichiometrically from SO2 CEM, & process monitoring for air inlet rate to regenerator Or feed sample
NH3	Cleaner Fuels Project FCC Mod. Condition #11066 Part 15	Y		Ammonia (NH3) injection rate shall not exceed 500 lbs/hr [applicable to S-4285 and A-0014]	regulation 2-6-409.2.2	P/D	record keeping
CO	40 CFR 60 Subpart J 60.103(a)	Y		500 ppmv	40 CFR 60 Subpart J 60.105(a)(2)	C	CO monitor

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.C.2.1 Process Units  
 Applicable Limits and Compliance Monitoring Requirements**

**FCC**

**S-4285 Fluid Catalytic Cracking Unit**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
CO	Cleaner Fuels Project FCC Mod. Condition #11066 Part 3	Y		258.4 TPY [applicable to S-4285]	#11066 Part 9	C	CEMs
CO	Cleaner Fuels Project FCC Mod. Condition #11066 Part 6	Y		Shall not exceed 67 ppmv averaged over any rolling 30 day period, or 50 ppmv averaged over any calendar year corrected to 3% oxygen, dry [applicable to S-4285]	Cleaner Fuels Project FCC Mod. Condition #11066 Part 9	C	CEMs
CO	Refinery MACT2, 40 CFR 63 subpart UUU, 63.1565(a)(1)	Y	4/11/05	500 ppmv	Refinery MACT2, 40 CFR 63 subpart UUU, 63.1565(b)(1) & 63.1565(c)(1)	C	CEMs
Process Unit Throughput	Cleaner Fuels Project FCC Mod. Condition #11066 Part 1	Y		FCC Reactor Feed rate shall not exceed 80 MBPD average over any calendar year, nor 90 MPBD average over any calendar day [applicable to S-4285]	#11066 Part 11	P/D	Recordkeeping
NOx	Cleaner Fuels Project FCC Mod. Condition #11066 Part 3	Y		1504.7 TPY [applicable to S-4285]	Cleaner Fuels Project FCC Mod. Condition #11066 Part 9	C	CEMs
NOx	Cleaner Fuels Project FCC Mod. Condition #11066 Part 5	Y		Shall not exceed 220 ppmv averaged over any 24-hour operating day period, or 180 ppmv averaged over any 30 day period, or 150 ppmv averaged over any calendar year period, corrected to 3% oxygen, dry [applicable to S-4285]	Cleaner Fuels Project FCC Mod. Condition #11066 Part 9	C	CEMs

**VII. Applicable Limits and Compliance Monitoring Requirements**

**Table VII.C.2.1 Process Units  
 Applicable Limits and Compliance Monitoring Requirements**

**FCC**

**S-4285 Fluid Catalytic Cracking Unit**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
POC	Cleaner Fuels Project FCC Mod. Condition #11066 Part #3	Y		6.1 TPY [applicable to S-4285]	condition #11066 Part 2	P/A	Source Test
ESP Inlet Temperature		Y		Minimum of 550 F averaged over any one-hour period [applicable to S-4285 and A-0014]	Cleaner Fuels Project FCC Mod. Condition #11066 Part 7a4	C	Inlet temperature monitor and recorder
Secondary current of TR	Cleaner Fuels Project FCC Mod. Condition #11066 Part 7a5	Y		Average shall not be less than 200 milliamps averaged over any three hour period, [applicable to S-4285 and A-0014] or	Cleaner Fuels Project FCC Mod. Condition #11066 Part #7a3	P, daily basis	Monitor
Secondary current of TR	Cleaner Fuels Project FCC Mod. Condition #11066 Part 7a5	Y		No more than 2 TR sets may be less than 200 milliamps averaged over any three hour period, as long as the remaining TR sets maintain an average secondary current above 296 milliamps averaged over any three hour period [applicable to S-4285 and A-0014]	Cleaner Fuels Project FCC Mod. Condition #11066 Part 7a3	C	Monitor/alarm set at 200 milliamps

## VII. Applicable Limits and Compliance Monitoring Requirements

Table VII.D.1.1 Refinery (Refinery)

Table VII.D.1.1 Refinery  
 Applicable Limits and Compliance Monitoring Requirements

### Refinery

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
POC	8-5-117 & condition #20764 part 1	Y	6/1/4	Exemption from Regulation 8-5 when true vapor pressure is less than 25.8 mm Hg (0.5 psia).	2-6-409.2 & condition # 20764 part 1	P/E	Fuel sampling upon storage material change. Record Keeping
	8-10-301	Y		Abatement of emissions from process vessel depressurization is required until pressure is reduced to less than 1000 mm Hg	8-10-401(SIP) and 8-10-501/502 (non SIP)	P/E	Record Keeping
HAP (Benzene)	61.343 (a)(1)(i)(A) tanks	Y		Cover leak tightness standards (< 500 ppmw)	61.343 (a)(1)(i)(A)	Periodic initially & annually	Method 21
HAP (Benzene)	61.343 (a)(1)(i)(B)	Y		Standards for openings in the cover	61.343 (a)(1)(i)(B)	Periodic initially & quarterly	Visual inspection
HAP (Benzene)	61.343 (a)(1)(i)(C)	Y		Standards for systems operated under negative pressure	61.343 (a)(1)(i)(C)	Continuous	System pressure
HAP (Benzene)	61.344 (a)(1)(i)(A) surface impoundments	Y		Cover leak tightness standards (< 500 ppmw)	61.344 (a)(1)(i)(A)	Periodic initially & annually	Method 21
HAP (Benzene)	61.344 (a)(1)(i)(B)	Y		Standards for openings in the cover	61.344 (a)(1)(i)(B)	Periodic initially & quarterly	Visual inspection
HAP (Benzene)	61.344 (a)(1)(i)(C)	Y		Standards for systems operated under negative pressure	61.344 (a)(1)(i)(C)	Continuous	System pressure
HAP (Benzene)	61.345 (a)(1)(i)(A) containers	Y		Cover leak tightness standards (< 500 ppmw)	61.345 (a)(1)(i)(A)	Periodic initially & annually	Method 21
HAP (Benzene)	61.345 (a)(1)(i)(B)	Y		Standards for openings in the cover	61.345 (a)(1)(i)(B)	Periodic initially & quarterly	Visual inspection
HAP (Benzene)	61.345 (a)(1)(i)(C)	Y		Standards for systems operated under negative pressure	61.345 (a)(1)(i)(C)	Continuous	System pressure
HAP (Benzene)	61.346 (a)(1)(i)(A) individual drain systems	Y		Cover leak tightness standards (< 500 ppmw)	61.346 (a)(1)(i)(A)	Periodic initially & annually	Method 21

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.D.1.1 Refinery  
 Applicable Limits and Compliance Monitoring Requirements**

**Refinery**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
HAP (Benzene)	61.346 (a)(1)(i)(B)	Y		Standards for openings in the cover	61.346 (a)(1)(i)(B)	Periodic initially & quarterly	Visual inspection
HAP (Benzene)	61.346 (a)(1)(i)(C)	Y		Standards for systems operated under negative pressure	61.346 (a)(1)(i)(C)	Continuous	System pressure
HAP (Benzene)	61.347 (a)(1)(i)(A) oil-water separators	Y		Cover leak tightness standards (< 500 ppmw)	61.347 (a)(1)(i)(A)	Periodic initially & annually	Method 21
HAP (Benzene)	61.347 (a)(1)(i)(B)	Y		Standards for openings in the cover	61.347 (a)(1)(i)(B)	Periodic initially & quarterly	Visual inspection
HAP (Benzene)	61.347 (a)(1)(i)(C)	Y		Standards for systems operated under negative pressure	61.347 (a)(1)(i)(C)	Continuous	System pressure
HAP (Benzene)	61.348 (a)(1)(i) treatment processes OR	Y		Waste stream less than 10 ppmw benzene	61.348 (a)(2)	Periodic initially	Design criteria
HAP (Benzene)	61.348 (a)(1)(ii) OR	Y		Remove benzene by 99% or more by mass basis	61.348 (a)(2)	Periodic initially	Design criteria
HAP (Benzene)	61.349 (a)(1)(i) closed-vent systems and control devices	Y		Closed vent system leak tightness standards (< 500 ppmw)	61.349 (a)(1)(i)	Periodic initially & annually	Method 21
HAP (Benzene)	61.349 (a)(1)(ii)	Y		Closed vent systems by-pass line standards	61.354 (f)	Periodic daily for flow indicator; monthly for car-seal	Visual inspection
HAP (Benzene)	61.349 (a)(1)(iii), (iv)	Y		Closed vent system gauging & sampling and pressure relief device standards	61.349(f)	Periodic initially & annually	Visual inspection
HAP (Benzene)	61.349(a)(2)(i)	Y		Applies to S-3192. Reduce organics by 95 weight % or < 20 ppmv organics dry basis, 3% O2 or > 0.5 seconds residence time @ greater than 1400F.			

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.D.1.1 Refinery  
 Applicable Limits and Compliance Monitoring Requirements**

**Refinery**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
HAP (Benzene)	61.349(h)	Y		Control device standards [NOTE TO USER Delete this row for units that meet the conditions of 61.343(b)(1)]	61.354 ©, (d), (e)	Continuous check daily	Specified parameter
Ambient SO <sub>2</sub>	9-1-301	Y		Ground level concentrations of 0.5 ppm for 3 min or 0.25 ppm for 60 min or 0.05 ppm for 24 hrs	9-1-501	C	Area monitoring
Ambient H <sub>2</sub> S	9-2-301	N		Ground level concentrations of 0.06 ppm for 3 min or 0.03 ppm for 60 min	9-2-501	C	Area monitoring
		Y		Benzene Waste NESHAP Annual Report	40 CFR 61 Subpart FF 61.357(d)	P/A	Reporting
		Y		Refinery MACT Startup, Shutdown, Malfunction Report	40 CFR 63 63.654(h)(1)	P/SA	Report
		Y		Refinery MACT Periodic Report	40 CFR 63 63.654(g)	P/SA	Report
Particulate emissions cap (refinery)	Condition #469	Y		Particulate 281.1 tons per year Refinery CAP, according to Appendix J, of Authority to Construct Number 27797, the following are excluded from the Refinery baseline: Coal liquefaction Pilot Plant (Chevron Research), FCC, Nitric Acid Plant, Fugitive emissions from existing process units (except as used to adjust the monthly and yearly emission limits for process units shutdown, valves, pump and compressor seals, cooling towers, and drains), tankage, and S-4155 SDA Furnace and wharf	Condition #469	P/M	Monthly records

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.D.1.1 Refinery  
 Applicable Limits and Compliance Monitoring Requirements**

**Refinery**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Non-methane hydrocarbon (refinery) emissions cap	Condition #469	Y		Non-methane hydrocarbons 326.3 tons per year  Refinery CAP, according to Appendix J, of Authority to Construct Number 27797, the following are excluded from the Refinery baseline: Coal liquefaction Pilot Plant (Chevron Research), FCC, Nitric Acid Plant, Fugitive emissions from existing process units (except as used to adjust the monthly and yearly emission limits for process units shutdown, valves, pump and compressor seals, cooling towers, and drains), tankage, and S-4155 SDA Furnace and wharf	Condition #469	P/M	Monthly records
NOx (refinery) emissions cap	Condition #469	Y		NOx 5,772.0 tons per year  Refinery CAP, according to Appendix J, of Authority to Construct Number 27797, the following are excluded from the Refinery baseline: Coal liquefaction Pilot Plant (Chevron Research), FCC, Nitric Acid Plant, Fugitive emissions from existing process units (except as used to adjust the monthly and yearly emission limits for process units shutdown, valves, pump and compressor seals, cooling towers, and drains), tankage, and S-4155 SDA Furnace and wharf	Condition #469	P/M	Monthly records

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.D.1.1 Refinery  
 Applicable Limits and Compliance Monitoring Requirements**

**Refinery**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
SO2 (refinery) emissions cap	Condition #469	Y		SO2 392.0 tons per year  Refinery CAP, according to Appendix J, of Authority to Construct Number 27797, the following are excluded from the Refinery baseline: Coal liquefaction Pilot Plant (Chevron Research), FCC, Nitric Acid Plant, Fugitive emissions from existing process units (except as used to adjust the monthly and yearly emission limits for process units shutdown, valves, pump and compressor seals, cooling towers, and drains), tankage, and S-4155 SDA Furnace and wharf	Condition #469	P/M	Monthly records
CO (refinery) emissions cap	Condition #469	Y		CO 723.5 tons per year  Refinery CAP, according to Appendix J, of Authority to Construct Number 27797, the following are excluded from the Refinery baseline: Coal liquefaction Pilot Plant (Chevron Research), FCC, Nitric Acid Plant, Fugitive emissions from existing process units (except as used to adjust the monthly and yearly emission limits for process units shutdown, valves, pump and compressor seals, cooling towers, and drains), tankage, and S-4155 SDA Furnace and wharf	Condition #469	P/M	Monthly records



## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.D.1.1 Refinery  
 Applicable Limits and Compliance Monitoring Requirements**

**Refinery**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Particulate emissions cap (refinery + wharf)	Condition #469	Y		Particulate 326.0 tons per year  Refinery CAP, according to Appendix J, of Authority to Construct Number 27797, the following are excluded from the Refinery baseline: Coal liquefaction Pilot Plant (Chevron Research), FCC, Nitric Acid Plant, Fugitive emissions from existing process units (except as used to adjust the monthly and yearly emission limits for process units shutdown, valves, pump and compressor seals, cooling towers, and drains), tankage, and S-4155 SDA Furnace	Condition #469	P/M	Monthly records
Non-methane hydrocarbon (refinery + wharf) emissions cap	Condition #469	Y		Non-methane hydrocarbons 391.1 tons per year  Refinery CAP, according to Appendix J, of Authority to Construct Number 27797, the following are excluded from the Refinery baseline: Coal liquefaction Pilot Plant (Chevron Research), FCC, Nitric Acid Plant, Fugitive emissions from existing process units (except as used to adjust the monthly and yearly emission limits for process units shutdown, valves, pump and compressor seals, cooling towers, and drains), tankage, and S-4155 SDA Furnace	Condition #469	P/M	Monthly records

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.D.1.1 Refinery  
 Applicable Limits and Compliance Monitoring Requirements**

**Refinery**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NOx (refinery + wharf) emissions cap	Condition #469	Y		NOx 6,141.0 tons per year  Refinery CAP, according to Appendix J, of Authority to Construct Number 27797, the following are excluded from the Refinery baseline: Coal liquefaction Pilot Plant (Chevron Research), FCC, Nitric Acid Plant, Fugitive emissions from existing process units (except as used to adjust the monthly and yearly emission limits for process units shutdown, valves, pump and compressor seals, cooling towers, and drains), tankage, and S-4155 SDA Furnace	Condition #469	P/M	Monthly records
SO2 (refinery _ wharf) emissions cap	Condition #469	Y		SO2 918.0 tons per year  Refinery CAP, according to Appendix J, of Authority to Construct Number 27797, the following are excluded from the Refinery baseline: Coal liquefaction Pilot Plant (Chevron Research), FCC, Nitric Acid Plant, Fugitive emissions from existing process units (except as used to adjust the monthly and yearly emission limits for process units shutdown, valves, pump and compressor seals, cooling towers, and drains), tankage, and S-4155 SDA Furnace	Condition #469	P/M	Monthly records

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.D.1.1 Refinery  
 Applicable Limits and Compliance Monitoring Requirements**

**Refinery**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
CO (refinery + wharf) emissions cap	Condition #469	Y		CO 773.5 tons per year Refinery CAP, according to Appendix J, of Authority to Construct Number 27797, the following are excluded from the Refinery baseline: Coal liquefaction Pilot Plant (Chevron Research), FCC, Nitric Acid Plant, Fugitive emissions from existing process units (except as used to adjust the monthly and yearly emission limits for process units shutdown, valves, pump and compressor seals, cooling towers, and drains), tankage, and S-4155 SDA Furnace	Condition #469	P/M	Monthly records

**Table VII.E.1.1 Sulfur Recovery (H2S Plants)**

<p align="center"><b>Table VII.E.1.1 Sulfur Recovery                      Applicable Limits and Compliance Monitoring Requirements</b></p> <p align="center"><b><u>H2S Plants</u></b></p> <p align="center"><b>S-4345 #18 Plant (also called #2 NH3/H2S), S-4433 #3 H2S Plant, S-4434 #4 H2S Plant, S-4435 #5 H2S Plant, S-4429 #8 Plant (also called NH3/H2S)</b></p>							
Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type

**VII. Applicable Limits and Compliance Monitoring Requirements**

<p align="center"><b>Table VII.E.1.1 Sulfur Recovery</b>  <b>Applicable Limits and Compliance Monitoring Requirements</b></p> <p align="center"><b><u>H2S Plants</u></b></p> <p align="center"><b>S-4345 #18 Plant (also called #2 NH3/H2S), S-4433 #3 H2S Plant, S-4434 #4 H2S Plant,            S-4435 #5 H2S Plant, S-4429 #8 Plant (also called NH3/H2S)</b></p>							
Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
SO2	9-1-313.2	Y	6/1/04	95% of H2S in refinery fuel gas is removed and recovered on a refinery-wide basis AND 95% of H2S in process water streams is removed and recovered on a refinery-wide basis AND 95% of ammonia in process water streams is removed; refineries that remove the equivalent of 16.5 ton/day or more of elemental sulfur shall install a sulfur recovery plant or sulfuric acid plant		N/A	
SO2	SIP 9-1-313.2	Y	6/1/04	95% of H2S in refinery fuel gas is removed and recovered on a refinery-wide basis AND 95% of H2S in process water streams is removed and recovered on a refinery-wide basis AND 95% of ammonia in process water streams is removed;		N/A	
Through-put	Condition #18945 Part 1	N		Throughput limits for S-4433	Condition #18945 Part 7	P/D	Recordkeeping
	Condition #18945 Part 2	N		Throughput limits for S-4434	Condition #18945 Part 7	P/D	Recordkeeping
	Condition #18945 Part 3	N		Throughput limits for S-4435	Condition #18945 Part 7	P/D	Recordkeeping
	Condition #18945 Part 4	N		Throughput limits for S-4429	Condition #18945 Part 7	P/D	Recordkeeping
	Condition #18945 Part 5	N		Throughput limits for S-4345	Condition #18945 Part 7	P/D	Recordkeeping
	Condition #18945 Part 6	N		Throughput limits for S-4345	Condition #18945 Part 7	P/D	Recordkeeping

**Table VII.E.2.1 Sulfur Recovery (Claus Units)**

**Table VII.E.2.1 Sulfur Recovery  
 Applicable Limits and Compliance Monitoring Requirements**

**Claus Units**

**S-4227, S-4228, S-4229**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
SO2	9-1-307	Y		SO2 emission limits for sulfur recovery plants that emit 100 lb/day SO2 or more (250 ppmv, dry, at 0% oxygen)	1-520.4 (9-1-502 requires compliance with 1-520 and 1-522)	C	SO2 CEM
	9-1-313.2	Y	6/1/04	95% of H2S in refinery fuel gas is removed and recovered on a refinery-wide basis and 95% of H2S in process water streams is removed and recovered on a refinery-wide basis and 95% of ammonia in process water streams is removed; refineries that remove the equivalent of 16.5 ton/day or more of elemental sulfur shall install a sulfur recovery plant or sulfuric acid plant	\	N/A	
	SIP 9-1-313.2	Y	6/1/04	95% of H2S in refinery fuel gas is removed and recovered on a refinery-wide basis and 95% of H2S in process water streams is removed and recovered on a refinery-wide basis and 95% of ammonia in process water streams is removed		N/A	
SO2	Refinery MACT2, 40 CFR 63 subpart UUU, 63.1568(a)(1)	Y	4/11/05	250 ppm by volume, dry basis, of SO2 at 0% excess air	Refinery MACT2, 40 CFR 63 subpart UUU, 63.1568(b)(1) & 63.1568(c)(1)	C	SO2 CEM
SO2	60.104(a)(2)(i)	Y		250 ppmv SO2 @0% O2 (12 hrs avg. basis)	60.105(a)(5)	C	SO2 Analyzer
	Condition 469	Y		Emission limits	Condition 469	P/M	Recordkeeping
Opacity	6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour	6-601 condition 22262 part 2	P/M	Visible emissions monitoring
FP	6-310	Y		0.15 grain/dscf	none	N/A	none

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.E.2.1 Sulfur Recovery  
 Applicable Limits and Compliance Monitoring Requirements**

**Claus Units**

**S-4227, S-4228, S-4229**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
FP	6-311	Y		4.10 P <sup>0.67</sup> lb/hr particulate, where P is process weight rate in ton/hr	None	P/E	Visible inspection
NH3	9-1-313.2	Y	6/1/04	Removal of 95% of ammonia in process water streams		N/A	
NH3	SIP 9-1-313.2	Y	6/1/04	Removal of 95% of ammonia in process water streams		NA	
SO3, H2SO4	6-330	Y	6/1/04	0.08 grain/dscf exhaust concentration of SO3 and H2SO4, expressed as 100% H2SO4	#18655 Part 2	P Annual	District-approved source test method
H2S	Condition #19063 part 4	N	6/1/4	10 ppmv H2S	9-1-313.2	N/A	
O2		Y	4/11/05	No limit	Refinery MACT2, 40 CFR 63 subpart UUU, 63.1568(b)(1) & 63.1568(c)(1)	C	O2 monitor
Refinery Cap	Condition #469	Y		Emission limits	Condition #469	P/M	Record keeping
Throughput	Condition #19063 part 1	N		Long tons of Sulfur	Condition #19063 part 5	P/D	Record keeping
Throughput	Condition #19063 part 1	N		Long tons of Sulfur	Condition #19063 part 5	P/A	Record keeping
Throughput	Condition #19063 part 2	N		Long tons of Sulfur	Condition #19063 part 5	P/D	Record keeping
Throughput	Condition #19063 part 2	N		Long tons of Sulfur	Condition #19063 part 5	P/A	Record keeping
Throughput	Condition #19063 part 3	N		Long tons of Sulfur	Condition #19063 part 5	P/D	Record keeping
Throughput	Condition #19063 part 3	N		Long tons of Sulfur	Condition #19063 part 5	P/A	Record keeping

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.E.3.1 Sulfur Recovery**

**Table VII.E.3.1 Sulfur Recovery  
 Applicable Limits and Compliance Monitoring Requirements**

**Sulfur Racks**

**S-3226 Sulfur Storage Tank, S-3141 Sulfur Storage Tank, S-4396 Sulfur Loading Racks all abated by  
 A-0043 Vent Water Scrubber**

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	Condition #18137	N		Throughput limits	Condition #18137	P/M	Recordkeeping

**Tab**

**Table VII.F.1.0 Storage Tanks  
 Applicable Limits and Compliance Monitoring Requirements**

**Tanks with permit conditions only**

**S-25, S-1894, S-1909, S-1911, S-1913, S-1914, S-1915, S-1919, S-2920, S\_2921, S-6125**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
throughput	Condition #4233	N		Throughput limits for S-1911, S-1913, S-1914, S-1915, S-1919, S-2920, S-2921-	N	N	N
Throughput	Condition #11208	N		Throughput and vapor pressure limits for S-1911, S-6125, S-1909	Condition #11208	P/M	recordkeeping
Throughput	Condition #12580	N		Throughput for S-1894	N	N	N
Throughput	Condition #15107	N		Throughput limit for S-25	Condition #15107	P/M	Recordkeeping

## VII. Applicable Limits and Compliance Monitoring Requirements

### le VII.F.1.1 Tanks (FRT's Cluster 10a)

**Table VII.F.1.1 Tanks  
 Applicable Limits and Compliance Monitoring Requirements  
Fixed Roof Tanks Cluster 01a**

S-1821, S-2917, S-2918, S-3141, S-3160, S-3161, S-3162, S-3163, S-3164, S-3165,  
 S-3166, S-3167, S-3168, S-3169, S-3170, S-3171, S-3172, S-3179, S-3182, S-3185, S-3186, S-3194,  
 S-3195, S-3215, S-3216, S-3226, S-5101, S-5103, S-5105, S-5107, S-5108, S-5109, S-5110, S-5112, S-5113,  
 S-5115, S-5117, S-5118, S-5119, S-5121, S-5122, S-5123, S-5125, S-5126, S-5127, S-5128, S-5129,  
 S-5130, S-5131, S-5132, S-5133, S-5134, S-5135, S-5136, S-5137, S-5138, S-5139, S-5140, S-5201,  
 S-5202, S-5203, S-5204, S-5205, S-5206, S-5207, S-5208, S-5209, S-5210, S-5211, S-5212, S-5213,  
 S-5214, S-5215, S-5216, S-5217, S-5218, S-5219, S-5220, S-5221, S-5222, S-5223, S-5224, S-5227,  
 S-5228, S-5229, S-5230, S-5232, S-5233, S-5234, S-5237, S-5240, S-5241, S-5603

**External Floating Roof Tank Cluster 01a**

S-3185

**Internal Floating Roof Tank Cluster 01a**

S-3182

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Regulation 8 Rule 5	Organic Compounds – STORAGE OF ORGANIC LIQUIDS Exempt Per 8-5-117, Low Vapor Pressure (≤ 0.5 psia)						
Low Vapor Pressure	Regulation 8-5-117	Y	6/1/4	The vapor pressure of material stored shall be less than 0.5 psia.	Regulation 8-5-117 And condition #20773	P/E	Vapor pressure monitoring upon stock change
NSPS Kb	Volatile Organic Liquid Storage Vessels MONITORING FOR RECORDKEEPING ONLY						
VOC	60.116b ©©	Y		True vapor pressure determination	60.116b (e)	Periodic initially and upon change of service	Calculate
Condition #11024		N				P/M	Recordkeeping
Throughput	Condition # 12580 part 1	N		S-1821 and S-1894 only to store sulfuric acid and phosphoric acid	none	P/E	Recordkeeping
Throughput	Condition #18137	N		Throughput limits	Condition #18137	P/M	Recordkeeping



**Table VII.F.1.2 Tanks (FRT's Cluster 01b)**

**Table VII.F.1.2 Tanks  
 Applicable Limits and Compliance Monitoring Requirements  
 Fixed Roof Tanks Cluster 01b**

**S-0200A, S-0204, S-0223, S-0225, S-0234, S-0290, S-0291, S-0293, S-0319,  
 S-0397, S-0401, S-0501, S-0583,  
 S-0900,  
 S-0907, S-0910, S-0957, S-0979, S-0984, S-1052,  
 S-1149, S-1431, S-1455, S-1456, S-1468, S-1470, S-1492, S-1493,  
 S-1546, S-1636, S-1653, S-1679, S-1685, S-1723, S-1724, S-1725, S-1908, S-1989, S-2520, S-2540,  
 S-3139, S-3142,  
 S-3146, S-3148, S-3310**

**Internal Floating Roof Tanks Cluster 01b**

**S-0328, S-1634, S-3147**

**External Floating Roof Tanks Cluster 01b**

**S-0955, S-0956, S-1297, S-1506, S-1451, S-1899, S-1428, S-1020, S-3132, S-3138**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Regulation 8 Rule 5	Organic Compounds – STORAGE OF ORGANIC LIQUIDS Exempt Per 8-5-117, Low Vapor Pressure ( $\leq 0.5$ psia)						
Low Vapor Pressure	Regulation 8-5-117	Y	6/1/4	The vapor pressure of material stored shall be less than 0.5 psia.	Regulation 8-5-117 And condition #20773	P/E	Vapor pressure monitoring upon stock change
Refinery MACT	NESHAP for Petroleum Refineries MONITORING FOR RECORDKEEPING ONLY. There are no 61 Subpart FF monitoring requirements for storage tanks that are exempt from controls.						
Condition #18137		N			Applies to S-0957, S-1653, S-3140	P/M	Recordkeeping
Condition #11436		N			Applies to S-1653	P/M	Recordkeeping
Throughput	Condition #4233 part 1	N		Applies to S-1911, 1913, 1914, 2917, 2918, 1908, 1915, 1919, 2920, 2921	None	P/A	Recordkeeping
Throughput	Condition #10967 parts 1 and 2	N		Applies to S-1052	Condition #10967 part 3	P/M	Recordkeeping
Throughput	Condition #11228 parts 1 and 2	N		Applies to S-957	Condition #11228 part 4	P/D	Recordkeeping

**Table VII.F.1.3 Tanks (FRT'S Cluster 02)**

**Table VII.F.1.3 Tanks  
 Applicable Limits and Compliance Monitoring Requirements  
 Fixed Roof Tanks Cluster 02**

**S-0021, S-0660, S-6066, S-4940**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Regulation 8 Rule 5	Organic Compounds – STORAGE OF ORGANIC LIQUIDS Exempt Per 8-5-117, Low Vapor Pressure ( $\leq 0.5$ psia) (11/27/02)						
VOC	8-5-301, 8-5-117	Y	6/1/4	True vapor pressure determination	8-5-501.1	Periodic initially and upon change of service	Look up table or sample analysis
VOC	8-5-303.1	Y		P/V valve set [ressure within 10% of max allowable working pressure or at least 0.5 psig	8-5-403	P/SA	Visual Inspection
VOC	8-5-303.2	Y		P/V valve must be gas tight: less than 500 ppm(as methane) above background	8-5-403, 8-5-503, 8-5-605	P/SA	Method 21 portable hydrocarbon detector
VOC	8-5-328.1.2	Y		Tank cleaning control device standards includes 90% efficiency requirement until tank less than 10,000 ppm	8-5-502	P/A	ST-7
VOC	8-5-110	Y		Exemption due to age and size	2-6-501	N	Record keeping
EPA	Exempt from all Refinery MACT, NSPS K, Ka and Kb Standards for Hydrocarbon Storage Tanks (per <10,000 gallon exemption)						
POC	Condition #11193, 40 CFR 61 Subpart FF	Y		Part 1 – 12 apply to S-0605 and S-0610. Minimum VOC destruction removal efficiency: 95% by concentration weight or outlet < 500 ppmv organics	#11193 Part 9 Applies to S-660, S-6066	P/M	FID
Condition #18137		N			Applies to S-0021, S-6066		
Throughput	Condition #23001	N		Throughput limits	Cond# 23001.3 Applies to S-4940	P/M	Record keeping

## VII. Applicable Limits and Compliance Monitoring Requirements

Table VII.F.1.4 Tanks

**Table VII.F.1.4 Tanks  
 Applicable Limits and Compliance Monitoring Requirements  
Fixed Roof Tanks Cluster 05**

**S-0605 (S-0605 also in Wastewater Cluster 40b), S-6200, S-6201, S-6202, S-6203, S-6204, S-6205, S-6206, S-6207, S-6208, S-6209, S-6210, S-6211, S-6212, S-6213, S-6214, S-6215, S-6216, S-6217, S-6218, S-6219 (abatement requirements for S-6200 through S-6219 are provided in Table II-B)**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Regulation 8 Rule 5	Organic Compounds – STORAGE OF ORGANIC LIQUIDS						
VOC	8-5-306	Y		Control device standards; includes 95% efficiency requirement	8-5-503 #11193 S-0605 #10761 S-6200 through S-6219	P/D for S-6200 – 6219 and P/M for S-0605	FID and ST-4 (ST-4 no longer exists, replaced by ST-34, ST-7 or EPA Method 25)
VOC	8-5-328.1.2	Y		Tank cleaning control device standards includes 90% efficiency requirement until tank less than 10,000 ppm	8-5-502	P/A	ST-7
VOC	8-5-110	Y		Exemption due to age and size	2-6-501	N	Record keeping
EPA	Exempt from all Refinery MACT, NSPS K, Ka and Kb Standards for Hydrocarbon Storage Tanks.						
NESHAP FF	Benzene Waste Operations LIMITS AND MONITORING FOR CONTAINERS						
HAP (Benzene)	61.345 (a)(1)(i)(A)	Y		Cover leak tightness standards (< 500 ppmw)	61.345 (a)(1)(i)(A)	Periodic initially & annually	Method 21
HAP (Benzene)	61.345 (a)(1)(i)(B)	Y		Standards for openings in the cover	61.345 (a)(1)(i)(B)	Periodic initially & quarterly	Visual inspection
HAP (Benzene)	61.345 (a)(1)(i)(C)	Y		Standards for systems operated under negative pressure	61.345 (a)(1)(i)(C)	Continuous	System pressure
HAP (Benzene)	61.349 (a)(1)(i)	Y		Closed vent system leak tightness standards (< 500 ppmw)	61.349 (a)(1)(i)	Periodic initially & annually	Method 21
HAP (Benzene)	61.349 (a)(1)(ii)	Y		Closed vent systems by-pass line standards	61.354 (f)	Periodic daily for flow indicator; monthly for car-seal	Visual inspection
HAP (Benzene)	61.349 (a)(1)(iii), (iv)	Y		Closed vent system gauging & sampling and pressure relief device standards	61.349(f)	Periodic initially & annually	Visual inspection

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.F.1.4 Tanks**  
**Applicable Limits and Compliance Monitoring Requirements**

**Fixed Roof Tanks Cluster 05**

**S-0605 (S-0605 also in Wastewater Cluster 40b), S-6200, S-6201, S-6202, S-6203, S-6204, S-6205, S-6206, S-6207, S-6208, S-6209, S-6210, S-6211, S-6212, S-6213, S-6214, S-6215, S-6216, S-6217, S-6218, S-6219 (abatement requirements for S-6200 through S-6219 are provided in Table II-B)**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
HAP (Benzene)	61.349(h)	Y		Control device standards	61.354 ©, (d), (e)	Continuous check daily	Specified parameter
Condition #11193		N			Applies to S-0605	P/M	Recordkeeping
Condition #10761		N			Applies to S-6200 through S-6219	P/M	Recordkeeping
Throughput	Condition #18137	N		Throughput limits	Condition #18137	P/M	Recordkeeping

**Table VII.F.1.5 Tanks (EFRT's Cluster 11)**

**Table VII.F.1.5 Tanks**  
**Applicable Limits and Compliance Monitoring Requirements**

**External Floating-Roof Tanks Cluster 11**

**S-0232, S-0297, S-0298, S-0398, S-1292, S-1518, S-1798, S-1799, S-1843, S-1966, S-3074, S-3100**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Regulation 8 Rule 5	Organic Compounds – STORAGE OF ORGANIC LIQUIDS LIMITS						
VOC	8-5-301	Y		Records of liquids stored and TVP	8-5-501.1	P/E	Records
VOC	8-5-320	Y		Deck fitting closure standards; includes gasketed covers	8-5-401.2, 8-5-404, 8-5-405	P/SA	Measurement and Visual inspection  And Certification Report
VOC	8-5-321	Y		Primary rim-seal standards; includes gap criteria	8-5-401.1, 8-5-404, 8-5-405 and 8-5-501.2	P/SA and every time seal is replaced	Seal inspection and Records  And Certification Report

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.F.1.5 Tanks**  
**Applicable Limits and Compliance Monitoring Requirements**

**External Floating-Roof Tanks Cluster 11**

**S-0232, S-0297, S-0298, S-0398, S-1292, S-1518, S-1798, S-1799, S-1843, S-1966, S-3074, S-3100**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	8-5-322	Y		Secondary rim-seal standards; includes gap criteria	8-5-401.1, 8-5-404, 8-5-405 and 8-5-501.2	P/SA and every time seal is replaced	Seal inspection and Records And Certification Report
VOC	8-5-328.1.2	Y		Tank cleaning control device standards includes 90% efficiency requirement until tank less than 10,000 ppm	8-5-502	P/A	ST-7
VOC		Y		Determination of Applicability	8-5-604	P/E	Look-up table or sample analysis
Refinery MACT	NESHAP for Petroleum Refineries MONITORING FOR RECORDKEEPING ONLY. There are no 61 Subpart FF monitoring requirements for storage tanks that are exempt from controls.						
Throughput	Condition #13597	Y			Applies to S-1798	P/M	Recordkeeping
	Condition #3697	Y			Applies to S-1799	P/M	Recordkeeping
Throughput	Condition #2238	Y		Applies to S-3100	Condition #2238.4	P/M	Recordkeeping
Throughput	Condition #18137	N		Throughput limits	Condition #18137	P/M	Recordkeeping

**Table VII.F.1.6 Tanks (IFRT's Cluster 12)**

**Table VII.F.1.6 Tanks**  
**Applicable Limits and Compliance Monitoring Requirements**

**Internal Floating Roof Tank Cluster 12**

**S-1633**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Regulation 8 Rule 5	Organic Compounds – STORAGE OF ORGANIC LIQUIDS						
VOC	8-5-301	Y		Records of liquids stored and TVP	8-5-501.1	P/E	Records

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.F.1.6 Tanks**  
**Applicable Limits and Compliance Monitoring Requirements**

**Internal Floating Roof Tank Cluster 12**

**S-1633**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	8-5-305, 8-5-321.1, 8-5-322.1	Y		Visual inspection of outer most seal	8-5-402.2	P/SA	Visual inspection
VOC	8-5-320	Y		Deck fitting closure standards; includes gasketed covers	8-5-402, 8-5-404, 8-5-405	P/SA	Measurement and Visual inspection And Certification Report
VOC	8-5-321	Y		Primary rim-seal standards; includes gap criteria	8-5-402, 8-5-404, 8-5-405 and 8-5-501.2	P/SA and every time seal is replaced	Seal inspection and Records And Certification Report
VOC	8-5-322	Y		Secondary rim-seal standards; includes gap criteria	8-5-402, 8-5-404, 8-5-405 and 8-5-501.2	P/SA and every time seal is replaced	Seal inspection and Records And Certification Report
VOC	8-5-328.1.2	Y		Tank cleaning control device standards includes 90% efficiency requirement until tank less than 10,000 ppm	8-5-502	P/A	ST-7
VOC		Y		Determination of Applicability	8-5-604	P/E	Look-up table or sample analysis
Refinery MACT	NESHAP for Petroleum Refineries MONITORING FOR ONLY. There are no 61 Subpart FF monitoring requirements for storage tanks that are exempt from controls.						
Throughput	Condition #18137	N		Throughput limits	Condition #18137	P/M	Recordkeeping

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.F.1.7 Tanks (FRT's Cluster 13)**

**Table VII.F.1.7 Tanks  
 Applicable Limits and Compliance Monitoring Requirements**

### Fixed Roof Tanks Cluster 13

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Regulation 8 Rule 5	Organic Compounds – STORAGE OF ORGANIC LIQUIDS						
VOC	8-5-301	Y		Records of liquids stored and TVP	8-5-501.1	P/E	Records
VOC	8-5-303.1	Y		P/V valve set [ressure within 10% of max allowable working pressure or at least 0.5 psig	8-5-403	P/SA	Visual Inspection
VOC	8-5-303.2	Y		P/V valve must be gas tight: less than 500 ppm(as methane) above background	8-5-403, 8-5-503, 8-5-605	P/SA	Method 21 portable hydrocarbon detector
VOC	8-5-306	Y		Control device standards; includes 95% efficiency requirement	8-5-603.1	P/A	MOP Volume IV ST-4(ST-4 no longer exists, replaced by ST-34, ST-7 or EPA Method 25)
VOC	8-5-328.1.2	Y		Tank cleaning control device standards includes 90% efficiency requirement until tank less than 10,000 ppm	8-5-502	P/A	ST-7
VOC		Y		Determination of Applicability	8-5-604	P/E	Look-up table or sample analysis
Refinery MACT	NESHAP for Petroleum Refineries MONITORING FOR RECORDKEEPING ONLY. There are no 61 Subpart FF monitoring requirements for storage tanks that are exempt from controls.						
Throughput	Condition #18137	N		Throughput limits	Condition #18137	P/M	Recordkeeping

**Table VII.F.1.8 Tanks (FRT's Cluster 16)**

**Table VII.F.1.8 Tanks  
 Applicable Limits and Compliance Monitoring Requirements**

**Fixed Roof Tanks Cluster 16**

**S-9302, S-9303**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Regulation 8 Rule 5	Organic Compounds – STORAGE OF ORGANIC LIQUIDS						
VOC	8-5-301	Y		Records of liquids stored and TVP	8-5-501.1	P/E	Records
VOC	8-5-303.1	Y		Requirements for P/V valves	8-5-403	P/SA	Visual inspection
VOC	8-5-303.2	Y		P/V valves must be gas tight: <500 ppm (as methane) above background	8-5-403, 8-5-503, 8-5-605	P/SA	Method 21 portable hydrocarbon detector
VOC	8-5-328.1.2	Y		Tank cleaning control device standards includes 90% efficiency requirement until tank less than 10,000 ppm	8-5-502	P/A	ST-7
VOC		Y		Determination of Applicability	8-5-604	P/E	Look-up table or sample analysis
Refinery MACT	NESHAP for Petroleum Refineries MONITORING FOR RECORDKEEPING ONLY. There are no 61 Subpart FF monitoring requirements for storage tanks that are exempt from controls.						
Throughput	Condition #18137	N		Throughput limits	Condition #18137	P/M	Recordkeeping

**Table VII.F.1.9 Tanks (EFRT's Cluster 17)**

**Table VII.F.1.9 Tanks  
 Applicable Limits and Compliance Monitoring Requirements**

**External Floating Roof Tanks Cluster 17**

**S-3101, S-3102, S-3129**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Regulation 8 Rule 5	Organic Compounds – STORAGE OF ORGANIC LIQUIDS LIMITS (11/27/02)						
VOC	8-5-301	Y		Records of liquids stored and TVP	8-5-501.1	P/E	Records



## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.F.1.9 Tanks  
 Applicable Limits and Compliance Monitoring Requirements**

**External Floating Roof Tanks Cluster 17**

**S-3101, S-3102, S-3129**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	8-5-320	Y		Deck fitting closure standards; includes gasketed covers	8-5-401.2, 8-5-404, 8-5-405	P/SA	Measurement and Visual inspection  And Certification Report
VOC	8-5-321	Y		Primary rim-seal standards; includes gap criteria	8-5-401.1, 8-5-404, 8-5-405 and 8-5-501.2	P/SA and every time seal is replaced	Seal inspection and Records  And Certification Report
VOC	8-5-322	Y		Secondary rim-seal standards; includes gap criteria	8-5-401.1, 8-5-404, 8-5-405 and 8-5-501.2	P/SA and every time seal is replaced	Seal inspection and Records  And Certification Report
VOC	8-5-328.1.2	Y		Tank cleaning control device standards includes 90% efficiency requirement until tank less than 10,000 ppm	8-5-502	P/A	ST-7
VOC		Y		Determination of Applicability	8-5-604	P/E	Look-up table or sample analysis
NSPS K	Petroleum Liquids Storage Vessels LIMITS AND MONITORING FOR EFRTs						
VOC	60.113 (a)	Y		True vapor pressure determination	60.113 (b) & (c)	Periodic initially and upon change of service	Calculate
VOC	60.113b(a 2)	Y		Inspection of secondary seals for holes, tears, or detachment	60.113b(a2)	P/A	Seal inspection and records
Throughput	Condition #18137	N		Throughput limits	Condition #18137	P/M	Recordkeeping
<b>Throughput</b>	<b>Condition #21237, part 1</b>	<b>Y</b>		<b>Notification requirement regarding piping and pumping for S-1514, 3072, and S-3101</b>	Condition #21237 part 1	<b>P/E</b>	<b>Recordkeeping and reporting</b>

## VII. Applicable Limits and Compliance Monitoring Requirements

Table VII.F.1.10 Tanks (EFRT's Cluster 23)

### Table VII.F.1.10 Tanks Applicable Limits and Compliance Monitoring Requirements

#### External Floating Roof Tanks Cluster 23

S-0399, S-3180, S-3189, S-3190, S-3191, S-3193, S-3196, S-3197, S-3198, S-3201, S-3202, S-3213, S-3214, S-3225

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Regulation 8 Rule 5	Organic Compounds – STORAGE OF ORGANIC LIQUIDS (11/27/02)						
VOC	8-5-301	Y		Records of liquids stored and TVP	8-5-501.1	P/E	Records
VOC	8-5-320	Y		Deck fitting closure standards; includes gasketed covers	8-5-401.2, 8-5-404, 8-5-405	P/SA	Measurement and Visual inspection And Certification Report
VOC	8-5-321	Y		Primary rim-seal standards; includes gap criteria	8-5-401.1, 8-5-404, 8-5-405 and 8-5-501.2	P/SA and every time seal is replaced	Seal inspection and Records And Certification Report
VOC	8-5-322	Y		Secondary rim-seal standards; includes gap criteria	8-5-401.1, 8-5-404, 8-5-405 and 8-5-501.2	P/SA and every time seal is replaced	Seal inspection and Records And Certification Report
VOC	8-5-328.1.2	Y		Tank cleaning control device standards includes 90% efficiency requirement until tank less than 10,000 ppm	8-5-502	P/A	ST-7
VOC		Y		Determination of Applicability	8-5-604	P/E	Look-up table or sample analysis
NSPS Kb	Volatile Organic Liquid Storage Vessels LIMITS AND MONITORING FOR EFRTs						
VOC	60.112b (a)(2)(ii)	Y		Deck fitting closure standards; includes gasketed covers	60.113b (b)(6)	Periodic initially & each time emptied & degassed	Visual inspection
VOC	60.113b (b)(4)(i)	Y		Primary rim-seal standards; includes gap criteria	60.113b (b)(1)-(b)(3)	Periodic initially & at 5 yr intervals	Measurement and visual inspection
VOC	60.113b (b)(4)(ii)	Y		Secondary rim-seal standards; includes gap criteria	60.113b (b)(1)-(b)(3)	Periodic initially & annually	Measurement and visual inspection

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.F.1.10 Tanks**  
**Applicable Limits and Compliance Monitoring Requirements**

**External Floating Roof Tanks Cluster 23**

**S-0399, S-3180, S-3189, S-3190, S-3191, S-3193, S-3196, S-3197, S-3198, S-3201, S-3202, S-3213, S-3214, S-3225**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	60.11©©	Y		True vapor pressure determination	60.116b (e)	Periodic initially and upon change of service	Calculation
VOC	60.113b(a 2)	Y		Inseption of secondary seals for holes, tears, or detachment	60.113b(a2)	P/A	Seal inspection and records
Throughput	Condition 2856	N		3,500,000 bbl/y, max vapor pressure 10 psia avg vapor pressure 7.0	Condition 2856	P/M	recordkeeping
Throughput	Condition #6660, part 1	Y		throughput shall not exceed 12,000,000 barrels of non-exempt stock during consecutive 12-month period	Condition #6660, part 3 S-3189	P/M	Recordkeeping
Throughput	Condition #6661, part 1	N		throughput shall not exceed 7,300,000 barrels during consecutive 12-month period	Condition #6661, part 3 S-3190	P/M	Recordkeeping
Throughput	Condition #7583, part 1	Y		throughput shall not exceed 2,000,000 barrels of non-exempt stock during consecutive 12-month period	Condition #7583, part 4 S-3191	P/M	Recordkeeping
Throughput	Condition #8253, part 1	Y		throughput shall not exceed 9,500,000 barrels during consecutive 12-month period	Condition #8253, part 5 S-3193	P/M	Recordkeeping
Throughput	Condition #13467, part 1	Y		throughput shall not exceed 2,000,000 barrels during consecutive 12-month period	Condition #13467, part 5 S-3196	P/M	Recordkeeping
Throughput	Condition #8252, part 1	Y		throughput shall not exceed 4,000,000 barrels during consecutive 12-month period	Condition #8252, part 4 S-3197	P/M	Recordkeeping
Throughput	Condition #8715, part 1	N		throughput shall not exceed 500,000 barrels during consecutive 12-month period	Condition #8715, part 3 S-3198	P/M	Recordkeeping
Throughput	Condition #13008, part 1	Y		throughput of non-exempt stocks shall not exceed 7,300,000 barrels during consecutive 12-month period	Condition #13008, part 3 S-3201	P/M	Recordkeeping
Throughput	Condition #13364, part 1	Y		throughput of non-exempt stocks shall not exceed 4,000,000 barrels during consecutive 12-month period	S-3202		

**VII. Applicable Limits and Compliance Monitoring Requirements**

**Table VII.F.1.10 Tanks  
 Applicable Limits and Compliance Monitoring Requirements**

**External Floating Roof Tanks Cluster 23**

**S-0399, S-3180, S-3189, S-3190, S-3191, S-3193, S-3196, S-3197, S-3198, S-3201, S-3202, S-3213, S-3214, S-3225**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Throughput	Condition #12139, part 1	Y		throughput of non-exempt stocks shall not exceed 9,100,000 barrels during consecutive 12-month period	Condition #12139, part 3 S-3213	P/M	Recordkeeping
Throughput	Condition #12104, part 1	Y		throughput of non-exempt stocks shall not exceed 3,000,000 barrels during consecutive 12-month period	Condition #12104, part 3 S-3214	P/M	Recordkeeping
Throughput	Condition # 18702 part 1	Y		Throughput limit for S-3225	Condition #18702 part 3	<b>P/M</b>	<b>Recordkeeping</b>
Throughput	Condition #18137	N		Throughput limits	Condition #18137	P/M	Recordkeeping

**Table VII.F.1.11 Tanks (IFRT's Cluster 24)**

**Table VII.F.1.11 Tanks  
 Applicable Limits and Compliance Monitoring Requirements**

**Internal Floating Roof Tanks Cluster 24**

**S-1635, S-1637**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Regulation 8 Rule 5	Organic Compounds – STORAGE OF ORGANIC LIQUIDS LIMITS (11/27/02)						
VOC	8-5-301	Y		Records of liquids stored and TVP	8-5-501.1	P/E	Records
VOC	8-5-305, 8-5-321.1, 8-5-322.1	Y		Visual inspection of outer most seal	8-5-402.2	P/SA	Visual inspection

## VII. Applicable Limits and Compliance Monitoring Requirements

<p align="center"><b>Table VII.F1.11 Tanks</b>  <b>Applicable Limits and Compliance Monitoring Requirements</b>  <b><u>Internal Floating Roof Tanks Cluster 24</u></b>  <b>S-1635, S-1637</b></p>							
Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	8-5-320	Y		Deck fitting closure standards; includes gasketed covers	8-5-401.2, 8-5-404, 8-5-405	P/SA	Measurement and Visual inspection  And Certification Report
VOC	8-5-321	Y		Primary rim-seal standards; includes gap criteria	8-5-401.1, 8-5-404, 8-5-405 and 8-5-501.2	P/SA and every time seal is replaced	Seal inspection and Records  And Certification Report
VOC	8-5-322	Y		Secondary rim-seal standards; includes gap criteria	8-5-401.1, 8-5-404, 8-5-405 and 8-5-501.2	P/SA and every time seal is replaced	Seal inspection and Records  And Certification Report
VOC	8-5-328.1.2	Y		Tank cleaning control device standards includes 90% efficiency requirement until tank less than 10,000 ppm	8-5-502	P/A	ST-7
VOC		Y		Determination of Applicability	8-5-604	P/E	Look-up table or sample analysis
NSPS Kb	<p align="center">Volatile Organic Liquid Storage Vessels            LIMITS AND MONITORING FOR IFRTs</p>						

**VII. Applicable Limits and Compliance Monitoring Requirements**

<p align="center"><b>Table VII.F1.11 Tanks</b>  <b>Applicable Limits and Compliance Monitoring Requirements</b>  <b><u>Internal Floating Roof Tanks Cluster 24</u></b>  <b>S-1635, S-1637</b></p>							
Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	60.112b (a)(1)	Y		Deck fitting closure standards; includes gasketed covers	60.113b (a)(4)	Periodic initially & each time emptied & degassed, at least every 10 yr	Visual inspection
VOC	60.113b (a)(1) & (4)	Y		Primary rim-seal standards; no holes or tears	60.113b (a)(4)	Periodic initially & each time emptied & degassed, at least every 10 yr	Visual inspection
VOC	60.113b (a)(1) & (4)	Y		Secondary rim-seal standards; no holes or tears	60.113b (a)(4)	Periodic initially & each time emptied & degassed, at least every 10 yr	Visual inspection
VOC	60.113b (a)(2)	Y		No liquid on the floating roof or other obvious defects	60.113b (a)(2)	Periodic annually	Visual inspection
VOC	60.113b(a2)	Y		Insepection of secondary seals for holes, tears, or detachment	60.113b(a2)	P/A	Seal inspection and records
VOC	60.116b ©	Y		True vapor pressure determination	60.116b (e)	Periodic initially and upon change of service	Calculate
VOC	Condition 1069	N		Organic vapor concentration	Condition 1069	P/Q	Concentration measurement and recordkeeping

**VII. Applicable Limits and Compliance Monitoring Requirements**

<b>Table VII.F1.11 Tanks</b> <b>Applicable Limits and Compliance Monitoring Requirements</b> <b><u>Internal Floating Roof Tanks Cluster 24</u></b> <b>S-1635, S-1637</b>							
Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Throughput	Condition #15671, part 1	N		throughput of non-exempt stocks shall not exceed 2,000,000 barrels during consecutive 12-month period	Condition #15671, part 4 S-3213	P/M	Recordkeeping
Condition #18137	Throughput limits					P/M	Recordkeeping

**Table VII.F.1.12 Tanks (FRT's Cluster 25)**

<b>Table VII.F.1.12 Tanks</b> <b>Applicable Limits and Compliance Monitoring Requirements</b> <b><u>Fixed Roof Tanks Cluster 25</u></b> <b>S-6220, S-6221, S-6222, S-6223, S-6224, S-6225, S-6226, S-6227, S-6228, S-6229, S-6230, S-6231, S-6232, S-6233, S-6234, S-6235, S-6236, S-6237, S-6238, S-6239, S-3110, S-3111 (S-3110 &amp; S-3111 also included in Wastewater Cluster 40b)</b>							
Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Regulation 8 Rule 5	Organic Compounds – STORAGE OF ORGANIC LIQUIDS (11/27/02)						
VOC	8-5-301	Y		Records of liquids stored and TVP	8-5-501.1	P/E	Records
VOC	8-5-303.1	Y		P/V valve set [ressure within 10% of max allowable working pressure or at least 0.5 psig	8-5-403	P/SA	Visual Inspection
VOC	8-5-303.2	Y		P/V valve must be gas tight: less than 500 ppm(as methane) above background	8-5-403, 8-5-503, 8-5-605	P/SA	Method 21 portable hydrocarbon detector

## VII. Applicable Limits and Compliance Monitoring Requirements

Table VII.F.1.12 Tanks Applicable Limits and Compliance Monitoring Requirements <u>Fixed Roof Tanks Cluster 25</u> S-6220, S-6221, S-6222, S-6223, S-6224, S-6225, S-6226, S-6227, S-6228, S-6229, S-6230, S-6231, S-6232, S-6233, S-6234, S-6235, S-6236, S-6237, S-6238, S-6239, S-3110, S-3111 (S-3110 & S-3111 also included in Wastewater Cluster 40b)							
Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	8-5-306	Y		Control device standards; includes 95% efficiency requirement	8-5-603.1	P/A	MOP Volume IV ST-4(ST-4 no longer exists, replaced by ST-34, ST-7 or EPA Method 25)
VOC	8-5-328.1.2	Y		Tank cleaning control device standards includes 90% efficiency requirement until tank less than 10,000 ppm	8-5-502	P/A	ST-7
VOC		Y		Determination of Applicability	8-5-604	P/E	Look-up table or sample analysis
NSPS Kb	Volatile Organic Liquid Storage Vessels LIMITS AND MONITORING FOR CVS & CONTROL DEVICES						
VOC	60.112b (a)(3)(i)	Y		Closed vent system leak tightness standards (< 500 ppmw)	60.112b (a)(3)(i)	P/A	Method 21
VOC	60.112b (a)(3)(ii)	Y		Control device standards; includes 95% efficiency requirement, or a flare per 60.18	60.113b ©(2) & (d)	P/D	FID Continuous temperature monitor
NESHAP FF	Benzene Waste Operations LIMITS AND MONITORING FOR CONTAINERS						
HAP (Benzene)	61.345 (a)(1)(i)(A)	Y		Cover leak tightness standards (< 500 ppmw)	61.345 (a)(1)(i)(A)	Periodic initially & annually	Method 21
HAP (Benzene)	61.345 (a)(1)(i)(B)	Y		Standards for openings in the cover	61.345 (a)(1)(i)(B)	Periodic initially & quarterly	Visual inspection
HAP (Benzene)	61.345 (a)(1)(i)(C)	Y		Standards for systems operated under negative pressure	61.345 (a)(1)(i)(C)	Continuous	System pressure
HAP (Benzene)	61.349 (a)(1)(i)	Y		Closed vent system leak tightness standards (< 500 ppmw)	61.349 (a)(1)(i)	Periodic initially & annually	Method 21



**VII. Applicable Limits and Compliance Monitoring Requirements**

Table VII.F.1.12 Tanks Applicable Limits and Compliance Monitoring Requirements  <u>Fixed Roof Tanks Cluster 25</u>  S-6220, S-6221, S-6222, S-6223, S-6224, S-6225, S-6226, S-6227, S-6228, S-6229, S-6230, S-6231, S-6232, S-6233, S-6234, S-6235, S-6236, S-6237, S-6238, S-6239, S-3110, S-3111 (S-3110 & S-3111 also included in Wastewater Cluster 40b)								
Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	
HAP (Benzene)	61.349 (a)(1)(ii)	Y		Closed vent systems by-pass line standards	61.354 (f)	Periodic daily for flow indicator; monthly for car-seal	Visual inspection	
HAP (Benzene)	61.349 (a)(1)(iii), (iv)	Y		Closed vent system gauging & sampling and pressure relief device standards	61.349(f)	Periodic initially & annually	Visual inspection	
HAP (Benzene)	61.349(a)(2)(i)	Y		Applies to S-3110 and S-3111. Reduce organics by 95 weight % or < 20 ppmv organics dry basis, 3% O2 or > 0.5 seconds residence time @ greater than 1400F.	#4650	C	Temperature monitor	
HAP (Benzene)	61.349(h)	Y		Control device standards	61.354 ©, (d), (e)	Continuous check daily	Specified parameter	
POC	Condition #4650	Y		Applies to S-3110 and S-3111. Minimum temperature of 1000 degrees F, at least 98.5% by weight VOC abatement, POC emissions less than 1 lb/day, benzene emissions less than 0.04 lb/day	#4650 Part 5	C	Temperature monitor	
POC	Condition #10761	Y		Applies to S-6220 through S-6239. Control efficiency >99% or less than 100 ppm outlet hydrocarbon concentration	#10761 Part 9	P/M	FID	
Condition #18137	Throughput limits						P/M	Recordkeeping

**Table VII.F.1.13 Tanks (EFRT's Cluster 26)**

**Table VII.F.1.13 Tanks  
 Applicable Limits and Compliance Monitoring Requirements**

**External Floating Roof Tanks Cluster 26**

**S-0231, S-0634, S-0679, S-0953, S-0954, S-0990, S-0991, S-0992, S-1287, S-1296, S-1444, S-1459, S-1488, S-1489, S-1491, S-1504, S-1514, S-1686, S-1687, S-1688, S-3071, S-3072, S-3073, S-3075, S-3076, S-3103, S-3104, S-3105, S-3106, S-3107, S-3126, S-3128, S-3133, S-3134, S-3144**

## VII. Applicable Limits and Compliance Monitoring Requirements

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Regulation 8 Rule 5	Organic Compounds – STORAGE OF ORGANIC LIQUIDS (11/27/02)						
VOC	8-5-301	Y		Records of liquids stored and TVP	8-5-501.1	P/E	Records
VOC	8-5-320	Y		Deck fitting closure standards; includes gasketed covers	8-5-401.2, 8-5-404, 8-5-405	P/SA	Measurement and Visual inspection  And Certification Report
VOC	8-5-321	Y		Primary rim-seal standards; includes gap criteria	8-5-401.1, 8-5-404, 8-5-405 and 8-5-501.2	P/SA and every time seal is replaced	Seal inspection and Records  And Certification Report
VOC	8-5-322	YN		Secondary rim-seal standards; includes gap criteria	8-5-401.1, 8-5-404, 8-5-405 and 8-5-501.2	P/SA and every time seal is replaced	Seal inspection and Records  And Certification Report
VOC	8-5-328.1.2	Y		Tank cleaning control device standards includes 90% efficiency requirement until tank less than 10,000 ppm	8-5-502	P/A	ST-7
VOC		Y		Determination of Applicability	8-5-604	P/E	Look-up table or sample analysis
Refinery MACT	NESHAP for Petroleum Refineries LIMITS AND MONITORING FOR EFRTs						
HAP	63.646(f)	Y		Deck fitting closure standards	63.646 (a) & (e) 63.120 (b)(10)	Periodic initially & each time emptied & degassed	Visual inspection
HAP	63.646(a) 63.120 (b)(3)&(5)	Y		Primary rim-seal standards; includes gap criteria	63.646(a) 63.120 (b)(1) & (2)	Periodic initially & at 5 yr intervals	Measurement and visual inspection
HAP	63.646(a) 63.120 (b)(4)&(6)	Y		Secondary rim-seal standards; includes gap criteria	63.646(a) 63.120 (b)(1) & (2)	Periodic initially & annually	Measurement and visual inspection
Throughput	Condition #8503, part 1	Y		throughput of jet fuel components shall not exceed 1,000,000 barrels during consecutive 12-month period	Condition #8503, part 3 S-679	P/M	Recordkeeping
Throughput	Condition #10908 part 1	Y		Throughput limit for S-1489	Condition #10908 part 4	P/M	Recordkeeping

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.F.1.13 Tanks**  
**Applicable Limits and Compliance Monitoring Requirements**

**External Floating Roof Tanks Cluster 26**

**S-0231, S-0634, S-0679, S-0953, S-0954, S-0990, S-0991, S-0992, S-1287, S-1296, S-1444, S-1459, S-1488, S-1489, S-1491, S-1504, S-1514, S-1686, S-1687, S-1688, S-3071, S-3072, S-3073, S-3075, S-3076, S-3103, S-3104, S-3105, S-3106, S-3107, S-3126, S-3128, S-3133, S-3134, S-3144**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Throughput	Condition #10909, part 1	Y		throughput of non-exempt stocks shall not exceed 6,000,000 barrels during consecutive 12-month period	Condition #10909, part 4 S-992	P/M	Recordkeeping
Throughput	Condition #11025, part 1	Y		throughput of non-exempt stocks shall not exceed 30,000,000 barrels during consecutive 12-month period	Condition #11025, part 4 S-3106	P/M	Recordkeeping
Throughput	Condition #17470, part 1	Y		throughput of crude oil shall not exceed 50,000 barrels during consecutive 12-month period	Condition #17470, part 3 S-3126	P/M	Recordkeeping
Throughput	Condition #17470, part 2	Y		throughput of naphtha shall not exceed 365,000 barrels during consecutive 12-month period	Condition #17470, part 3 S-3126	P/M	Recordkeeping
Throughput	Condition #15038, part 1	Y		throughput of non-exempt stocks shall not exceed 15,000,000 barrels during consecutive 12-month period	Condition #15038, part 2 S-3133	P/M	Recordkeeping
Throughput	Condition #13859, part 1	Y		throughput of non-exempt stocks shall not exceed 10,000,000 barrels during consecutive 12-month period	Condition #13859, part 2 S-3134	P/M	Recordkeeping
Condition #18137	Throughput limits					P/M	Recordkeeping
Throughput	Condition #, 21237, part 1	Y		Notification requirement regarding piping and pumping for S-1514, S-3072 and S-3101	Condition #21237 part 1	P/E	Recordkeeping and reporting
Throughput	Condition # 22641, part 1			Throughput of material shall not exceed 3,495,000 barrels during consecutive 12-month period	Condition # 22641, part 7 S-1296	P/M	Recordkeeping
Throughput	Condition # 22641, part 3			Throughput of material shall not exceed 3,000,000 barrels during consecutive 12-month period	Condition # 22641, part 7 S-1514	P/M	Recordkeeping

## VII. Applicable Limits and Compliance Monitoring Requirements

Table VII.F.1.14 Tanks (IFRT's Cluster 27)

Table VII.F.1.14 Tanks  
 Applicable Limits and Compliance Monitoring Requirements

### Internal Floating-Roof Tanks Cluster 27

S-1289, S-1645

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Regulation 8 Rule 5	Organic Compounds – STORAGE OF ORGANIC LIQUIDS (11/27/02)						
VOC	8-5-301	Y		Records of liquids stored and TVP	8-5-501.1	P/E	Records
VOC	8-5-305, 8-5-321.1, 8-5-322.1	Y		Visual inspection of outer most seal	8-5-402.2	P/SA	Visual inspection
VOC	8-5-320	Y		Deck fitting closure standards; includes gasketed covers	8-5-401.2, 8-5-404, 8-5-405	P/SA	Measurement and Visual inspection And Certification Report
VOC	8-5-321	Y		Primary rim-seal standards; includes gap criteria	8-5-401.1, 8-5-404, 8-5-405 and 8-5-501.2	P/SA and every time seal is replaced	Seal inspection and Records And Certification Report
VOC	8-5-322	Y		Secondary rim-seal standards; includes gap criteria	8-5-401.1, 8-5-404, 8-5-405 and 8-5-501.2	P/SA and every time seal is replaced	Seal inspection and Records And Certification Report
VOC	8-5-328.1.2	Y		Tank cleaning control device standards includes 90% efficiency requirement until tank less than 10,000 ppm	8-5-502	P/A	ST-7
VOC		Y		Determination of Applicability	8-5-604	P/E	Look-up table or sample analysis
Refinery MACT	NESHAP for Petroleum Refineries LIMITS AND MONITORING FOR IFRTs						
HAP	63.646(f)	Y		Deck fitting closure standards	63.646 (a) & (e) 63.120 (a)(2) & (3)	Periodic initially & each time emptied & degassed, at least every 10 yr	Visual inspection

**VII. Applicable Limits and Compliance Monitoring Requirements**

**Table VII.F.1.14 Tanks  
 Applicable Limits and Compliance Monitoring Requirements**

**Internal Floating-Roof Tanks Cluster 27**

**S-1289, S-1645**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	
HAP	63.646(a) 63.120 (a)(7)	Y		Primary rim-seal standards; no holes or tears	63.646(a) 63.120 (a)(2) & (3)	Periodic initially & each time emptied & degassed, at least every 10 yr	Visual inspection	
HAP	63.646(a) 63.120 (a)(7)	Y		Secondary rim-seal standards (if so equipped); no holes or tears	63.646(a) 63.120 (a)(2) & (3)	Periodic initially & each time emptied & degassed, at least every 10 yr	Visual inspection	
HAP	63.646(a) 63.120 (a)(4)	Y		Additional rim-seal standards; includes no gaps visible from the tank top	63.646(a) 63.120 (a)(2) & (3)	Periodic annually	Visual inspection	
HAP	63.646(a) 63.120 (a)(4)	Y		No liquid on the floating roof or other obvious defects	63.646(a) 63.120 (a)(2) & (3)	Periodic annually	Visual inspection	
throughput	Condition #21307	n		S-1645 Throughput, vapor pressure and benzene content	Condition 21307	P/M	recordkeeping	
Condition #18137	Throughput limits						P/M	Recordkeeping

**Table VII.G.1.1 Wastewater Treatment Units Cluster 10)**

**Table VII.G.1.1 Wastewater  
 Applicable Limits and Compliance Monitoring Requirements**

**Treatment Unit Cluster 10**

**S-3200 4 CU Desalter Water Treatment Unit abated by A-3200 F-1100B Furnace, S-6061 Alkane Groundwater Treatment Unit**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Regulation 8 Rule 8	Organic Compounds – WASTEWATER (OIL-WATER) SEPARATORS LIMITS AND MONITORING FOR TREATMENT PROCESSES Regulation 8-8 does not address treatment of the waste stream. [There are monitoring requirements associated with exemptions for specified WMUs. Those requirements are listed in the templates for the applicable WMUs, and repeated below for reference.]						
OC	8-8-112	Y		Monitoring for exemption from controls for low wastewater temperature or low concentration of pollutants	8-8-502	Periodic initially & semiannually	Sample analysis

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.G.1.1 Wastewater  
 Applicable Limits and Compliance Monitoring Requirements**

**Treatment Unit Cluster 10**

**S-3200 4 CU Desalter Water Treatment Unit abated by A-3200 F-1100B Furnace, S-6061 Alkane Groundwater Treatment Unit**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
OC	8-8-114	Y		Monitoring wastewater bypassing oil-water separator or DAF	8-8-501	Periodic upon occurrence	Sample analysis
NESHAP FF Regulation 11 Rule 12	Benzene Waste Operations LIMITS AND MONITORING FOR TREATMENT PROCESSES The 61 Subpart FF requirements related to control of air emissions for WMUs are listed in the templates for each WMU, and are not listed here under treatment processes.						
Wastewater (Benzene)	61.342 (e)	Y		6 Mg/yr benzene quantity (BQ) limit	61.342 (e)	Periodic annually	Flow measurement & sample analysis
HAP (Benzene)	61.343 (a)(1)(i)(A)	Y		Cover leak tightness standards (< 500 ppmw)	61.343 (a)(1)(i)(A)	Periodic initially & annually	Method 21
HAP (Benzene)	61.343 (a)(1)(i)(B)	Y		Standards for openings in the cover	61.343 (a)(1)(i)(B)	Periodic initially & quarterly	Visual inspection
HAP (Benzene)	61.343 (a)(1)(i)(C)	Y		Standards for systems operated under negative pressure	61.343 (a)(1)(i)(C)	Continuous	System pressure
HAP (Benzene)	61.345 (a)(1)(i)(A)	Y		Cover leak tightness standards (< 500 ppmw)	61.345 (a)(1)(i)(A)	Periodic initially & annually	Method 21
HAP (Benzene)	61.345 (a)(1)(i)(B)	Y		Standards for openings in the cover	61.345 (a)(1)(i)(B)	Periodic initially & quarterly	Visual inspection
HAP (Benzene)	61.345 (a)(1)(i)(C)	Y		Standards for systems operated under negative pressure	61.345 (a)(1)(i)(C)	Continuous	System pressure
Wastewater (Benzene)	61.348 (a)(1)(i)	Y		Benzene concentration exiting the treatment process	61.354 (a)(1)	Periodic monthly	Sample analysis
Wastewater (Benzene)	61.348 (a)(1)(ii)	Y		ALTERNATIVE 99% benzene removal	61.354 (a)(2)	Continuous check daily	Parameter
Wastewater (Benzene)	61.348 (a)(1)(iii)	Y		ALTERNATIVE 99% benzene destruction by incineration	61.354 (a)(2)	Continuous check daily	Parameter
Wastewater (Benzene)	61.348 (b)	Y		1 Mg/yr benzene quantity (BQ) limit	61.354 (b)	Periodic monthly	Flow measurement & sample analysis
POC	Condition #4650, part 9	Y		1000 F minimum operating temperature for A-3200	Condition #4650, part 9 S-3200	C	temperature monitoring

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.G.1.1 Wastewater  
 Applicable Limits and Compliance Monitoring Requirements**

**Treatment Unit Cluster 10**

**S-3200 4 CU Desalter Water Treatment Unit abated by A-3200 F-1100B Furnace, S-6061 Alkane Groundwater Treatment Unit**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
POC	Condition #4650, part 11	Y		nitrogen purge and vent gases vented to A-3200	Condition #4650, part 11 S-3200	C	flow monitoring
POC	Condition #4650, part 12	Y		no unintended leaks, depressurizations, or bypasses to atmosphere	Condition #4650, part 12 S-3200	C	pressure monitoring
POC	Condition #4650, part 13	Y		100 ppm concentration limit at S-3200 pump seals	BAAQMD 8-18-401.2 S-3200	P/Q	Method 21 inspection
Throughput	Condition #18137	N		Throughput limits	Condition #18137	P/M	Recordkeeping

**Table VII.G.1.2 Wastewater (Wastewater Cluster 20D)**

**Table VII.G.1.2 Wastewater  
 Applicable Limits And Compliance Monitoring Requirements**

**Wastewater Cluster 20d**

**Process Drains not Subject to QQQ**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Regulation 8 Rule 8	Organic Compounds – WASTEWATER (OIL-WATER) SEPARATORS INDIVIDUAL DRAIN SYSTEMS EXEMPT FROM CONTROLS 8-8 has no monitoring requirements						
VOC	8-8-112	Y		Exemption from controls for low concentration of pollutants (records are required)	8-8-502	Periodic upon occurrence	Sample analysis and records
NESHAP FF Regulation 11 Rule 12	Benzene Waste Operations INDIVIDUAL DRAIN SYSTEMS EXEMPT FROM CONTROLS There are no 61 Subpart FF requirements related to control of air emissions for WMUs that are exempt from controls. [There are recordkeeping, reporting, and in some cases monitoring requirements for the waste stream(s) received by this WMU, but these requirements are addressed within the scope of Cluster 10 – Treatment Processes.]						

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.G.1.3 Wastewater (Process Drains Cluster 20q)**

**Table VII.G.1.3 Wastewater  
 Applicable Limits and Compliance Monitoring Requirements**

**Process Drains Cluster 20q**

**S-4235 Diesel Hydrotreater Plant, S-4251 Solvent Deasphalting Plant, S-4282A Penhex Isomerization Plant, S-4285 FCCU, S-4291 H2SO4 Alkylation Plant, S-6050 MTBE Plant, S-4356 TAME/SHU Plant**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Regulation 8 Rule 8	Organic Compounds – WASTEWATER (OIL-WATER) SEPARATORS INDIVIDUAL DRAIN SYSTEMS EXEMPT FROM CONTROLS Regulation 8-8 has no monitoring requirements.						
VOC	8-8-112	Y		Exemption from controls for low concentration of pollutants (records are required)	8-8-502	Periodic upon occurrence	Sample analysis and records
NESHAP FF Regulation 11 Rule 12	Benzene Waste Operations INDIVIDUAL DRAIN SYSTEMS EXEMPT FROM CONTROLS There are no 61 Subpart FF requirements related to control of air emissions for WMUs that are exempt from controls. [There are recordkeeping, reporting, and in some cases monitoring requirements for the waste stream(s) received by this WMU, but these requirements are addressed within the scope of Cluster 10 – Treatment Processes.]						
NSPS QQQ	Petroleum Refinery Wastewater Systems LIMITS AND MONITORING FOR INDIVIDUAL DRAIN SYSTEMS Requirements shown are for compliance with 60.692-2, and do not address compliance with 60.693-1.						
VOC	60.692-2 (a)(1)	Y		Drains shall be equipped with water seal controls	60.692-2 (a)(2) & (3)	Periodic initially, plus monthly (if in-service) or weekly (if out-of-service)	Visual inspection
VOC	60.692-2 (a)(4)	Y		ALTERNATIVE Drains that are out-of-service may be equipped with a tightly sealed cap or plug	60.692-2 (a)(4)	Periodic initially, plus semiannually	Visual inspection
VOC	60.692-2 (b)(2)	Y		Junction box covers shall be sealed & kept in place, except during inspection and maintenance	60.692-2 (b)(3)	Periodic initially, plus semiannually	Visual inspection
VOC	60.692-2 ©(1)	Y		Sewer lines shall be covered or enclosed	60.692-2 ©(2)	Periodic initially, plus semiannually	Visual inspection



## VII. Applicable Limits and Compliance Monitoring Requirements

Table VII.G.1.4 Wastewater (Wastewater Cluster 30c)

Table VII.G.1.4 Wastewater  
 Applicable Limits and Compliance Monitoring Requirements

### Wastewater Cluster 30c

S-4148 #13 Separator, S-4413 #2A Separator, S-4414 #1A Separator, (S-6250 is in Cluster 60b)

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
SIP Regulation 8 Rule 8	Organic Compounds – WASTEWATER (OIL-WATER) SEPARATORS LIMITS AND MONITORING FOR OIL-WATER SEPARATORS (6/15/94)						
VOC	8-8-114	Y		Monitoring wastewater bypassing oil-water separator or DAF	8-8-501	Periodic upon occurrence	Sample analysis
VOC	8-8-301.1	Y		ALTERNATIVE Gasketed fixed cover standards; including gap limitation	8-8-503	Periodic initially & semiannually	Measurement and visual inspection
VOC	8-8-301.2	Y		ALTERNATIVE Floating cover standards (< 300 gpm); includes seal gap limits	8-8-503	Periodic initially then every 5 years for primary, annually for secondary	Measurement and visual inspection
VOC	8-8-301.3 8-8-302.3	Y		Vapor recovery system standards; includes 95% efficiency requirement	8-8-602 8-8-503	P/E	ST-7 or method 25 or 25A
VOC	8-8-302.1	Y		ALTERNATIVE Vapor tight full contact fixed cover standards	8-8-603 8-8-503	P/E	Method 21
VOC	8-8-302.2	Y		ALTERNATIVE Floating cover standards (≥ 300 gpm); includes seal gap limits	8-8-503	Periodic initially then every 5 years for primary, annually for secondary	Measurement and visual inspection
VOC	8-8-302.3	Y		Vapor tight fixed cover standards (in addition to vapor recovery)	8-8-603 8-8-503	Periodic initially & semiannually	Method 21
VOC	8-8-302.4	Y		ALTERNATIVE Gasketed fixed cover standards; includes 1,000 ppm leak standard	8-8-603 8-8-503	Periodic initially & semiannually	Method 21
VOC	8-8-303	Y		Gauging and sampling devices vapor tight	8-8-603	P/A	Method 21
Regulation 8 Rule 8	Organic Compounds – WASTEWATER (OIL-WATER) SEPARATORS LIMITS AND MONITORING FOR OIL-WATER SEPARATORS (9/15/04)						

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.G.1.4 Wastewater  
 Applicable Limits and Compliance Monitoring Requirements**

**Wastewater Cluster 30c**

**S-4148 #13 Separator, S-4413 #2A Separator, S-4414 #1A Separator, (S-6250 is in Cluster 60b)**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Regulation 8 Rule 8	8-8-302.6	N		Roof seals, fixed covers, access doors and other openings inspected initially and semiannually thereafter.	8-8-503 and 8-8-603	Periodic initially & semiannually	Method 21
Regulation 8 Rule 8	8-8-313	N		Uncontrolled wastewater collection system components at petroleum refineries	8-8-505	P/BI MON UNTIL 1/1/07 THEN P/SEMI-ANNUALLY	RECORDKEEPING
Condition #18137	Applies to S-4148, S-4413, S-4414						
NESHAP FF Regulation 11 Rule 12	Benzene Waste Operations OIL-WATER SEPARATORS EXEMPT FROM CONTROLS There are no 61 Subpart FF requirements related to control of air emissions for WMUs that are exempt from controls. [There are recordkeeping, reporting, and in some cases monitoring requirements for the waste stream(s) received by this WMU, but these requirements are addressed within the scope of Cluster 10 – Treatment Processes.]						

**Table VII.G.1.5 Wastewater (Tanks Cluster 40b)**

**Table VII.G.1.5 Wastewater  
 Applicable Limits and Compliance Monitoring Requirements**

**Non-EFRT or IFRT Wastewater Tanks Cluster 40b**

**S-0605 Alkane GWT Feed Surge Tank abated by A-0607, S-0610 Alkane GWT Surge Tank, S-3110 & S-3111 DEBRU Surge Tanks abated by A-3200, S-3192 Desalter Effluent Skim Tank**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NESHAP FF Regulation 11 Rule 12	Benzene Waste Operations LIMITS AND MONITORING FOR TANKS						
HAP (Benzene)	61.343 (a)(1)(i)(A)	Y		Cover leak tightness standards (< 500 ppmw)	61.343 (a)(1)(i)(A)	Periodic initially & annually	Method 21
HAP (Benzene)	61.343 (a)(1)(i)(B)	Y		Standards for openings in the cover	61.343 (a)(1)(i)(B)	Periodic initially & quarterly	Visual inspection
HAP (Benzene)	61.343 (a)(1)(i)(C)	Y		Standards for systems operated under negative pressure	61.343 (a)(1)(i)(C)	Continuous	System pressure

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.G.1.5 Wastewater  
 Applicable Limits and Compliance Monitoring Requirements**

**Non-EFRT or IFRT Wastewater Tanks Cluster 40b**

**S-0605 Alkane GWT Feed Surge Tank abated by A-0607, S-0610 Alkane GWT Surge Tank,  
 S-3110 & S-3111 DEBRU Surge Tanks abated by A-3200, S-3192 Desalter Effluent Skim Tank**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
HAP (Benzene)	61.349 (a)(1)(i)	Y		Closed vent system leak tightness standards (< 500 ppmw)	61.349 (a)(1)(i)	Periodic initially & annually	Method 21
HAP (Benzene)	61.349 (a)(1)(ii)	Y		Closed vent systems by-pass line standards	61.354 (f)	Periodic daily for flow indicator; monthly for car-seal	Visual inspection
HAP (Benzene)	61.349 (a)(1)(iii), (iv)	Y		Closed vent system gauging & sampling and pressure relief device standards	61.349(f)	Periodic initially & annually	Visual inspection
HAP (Benzene)	61.349(a)(2)(i)	Y		Applies to S-3192. Reduce organics by 95 weight % or < 20 ppmv organics dry basis, 3% O2 or > 0.5 seconds residence time @ greater than 1400F.			
HAP (Benzene)	61.349(h)	Y		Control device standards [NOTE TO USER Delete this row for units that meet the conditions of 61.343(b)(1)]	61.354 ©, (d), (e)	Continuous check daily	Specified parameter
HAP (Benzene)	Condition #11193, Part 9	Y		annual average liquid benzene concentration shall not exceed 250 ppm by weight	Condition #11193, Part 11 S-605	P/semi-annual	sampling and analysis
HAP (Benzene)	Condition #11193, part 10	Y		annual average liquid benzene concentration shall not exceed 250 ppm by weight	Condition #11193, Part 11	P/semi-annual	sampling and analysis
POC	40 CFR 61 Subpart FF	Y		Minimum VOC destruction removal efficiency 95% by concentration weight or outlet < 500 ppmv organics	61-349 condition #11193 part 9	P/E	Carbon Changeout
POC	Condition #11193, Part 8	Y		95% overall abatement efficiency at A-607	Condition #11193, Part 9 S-605 and S-610	P/M	FID measurement
Throughput	Condition #11193, Part 1	Y		throughput for S-605 and S-6011 shall not exceed 84.1 million gallons for any consecutive 12-month period	Condition #11193, Part 12 S-605 and S-6011	P/M S-605 and S-6011	records

**VII. Applicable Limits and Compliance Monitoring Requirements**

**Table VII.G.1.5 Wastewater  
 Applicable Limits and Compliance Monitoring Requirements**

**Non-EFRT or IFRT Wastewater Tanks Cluster 40b**

**S-0605 Alkane GWT Feed Surge Tank abated by A-0607, S-0610 Alkane GWT Surge Tank,  
 S-3110 & S-3111 DEBRU Surge Tanks abated by A-3200, S-3192 Desalter Effluent Skim 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	Condition #4650, parts 1 and 5	Y		at least 98.5% by weight VOC abatement	Condition #4650, part 9 S-3110, S-3111, S-3192	C	temperature monitoring
POC	Condition #4650, parts 2 and 6	Y		POC emissions less than 1 lb/day from S-3110, S-3111, and S-3192 combined	Condition #4650, part 9 S-3110, S-3111, S-3192	C	temperature monitoring
POC	Condition #4650, parts 3 and 7	Y		Benzene emissions less than 0.04 lb/day from S-3110, S-3111, and S-3192 combined	Condition #4650, part 9 S-3110, S-3111, S-3192	C	temperature monitoring
POC	Condition #4650, parts 4 and 8	Y		Benzene concentration less than 1% by weight	S-3111, S-3192		
Throughput	Condition #18137	N		Throughput limits	Condition #18137	P/M	Recordkeeping

**Table VII.G.1.6 Wastewater (Tanks Cluster 45e)**

**Table VII.G.1.6 Wastewater  
 Applicable Limits and Compliance Monitoring Requirements**

**External Floating Roof Wastewater Tanks Cluster 45e**

**S-0231, S-0232, S-0399, S-1504, S-3126, S-3127, S-3128, S-3076, S-3144**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
SIP Regulation 8 Rule 5	Organic Compounds – STORAGE OF ORGANIC LIQUIDS LIMITS AND MONITORING FOR FLOATING-ROOF TANKS						
VOC	8-5-320	Y		Deck fitting closure standards; includes gasketed covers	8-5-402	Periodic initially & at 1 or 10 yr intervals, depending upon rim seal age	Visual inspection

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.G.1.6 Wastewater  
 Applicable Limits and Compliance Monitoring Requirements**

**External Floating Roof Wastewater Tanks Cluster 45e**

**S-0231, S-0232, S-0399, S-1504, S-3126, S-3127, S-3128, S-3076, S-3144**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	8-5-321	Y		Primary rim-seal standards; includes gap criteria	8-5-401	Periodic initially & at 5 or 10 yr intervals, depending upon rim seal age	Measurement and visual inspection
VOC	8-5-322	Y		Secondary rim-seal standards; includes gap criteria	8-5-402	Periodic initially & at 1 or 10 yr intervals, depending upon rim seal age	Measurement and visual inspection
VOC	8-5-328	Y		Tank degassing	8-5-502 8-5-404	P/A	Source Test
Regulation 8 Rule 8	Organic Compounds – WASTEWATER (OIL-WATER) SEPARATORS LIMITS AND MONITORING FOR OIL-WATER SEPARATORS (9/15/04)						
VOC	8-8-305.1	N		Visual inspection initially and semi-annually thereafter with no cracks or gaps greater than 0.125" and access doors and other openings are closed and gasketed properly	8-8-305.1	P/Initially and Semi-annually	Visual inspection
SIP Regulation 8 Rule 8	Organic Compounds – WASTEWATER (OIL-WATER) SEPARATORS LIMITS AND MONITORING FOR OIL-WATER SEPARATORS (6/15/94)						
VOC	8-8-305.1	N		Visual inspection initially and semi-annually thereafter with no cracks or gaps greater than 0.125" and access doors and other openings are closed and gasketed properly	8-8-305.1	P/Initially and Semi-annually	Visual inspection
NSPS Kb	Volatile Organic Liquid Storage Vessels LIMITS AND MONITORING FOR EFRTs						
VOC	60.112b (a)(2)(ii)	Y		Deck fitting closure standards; includes gasketed covers	60.113b (b)(6)	Periodic initially & each time emptied & degassed	Visual inspection
VOC	60.113b (b)(4)(i)	Y		Primary rim-seal standards; includes gap criteria	60.113b (b)(2)-(b)(3)	Periodic initially & at 5 yr intervals	Measurement and visual inspection
VOC	60.113b (b)(4)(ii)	Y		Secondary rim-seal standards; includes gap criteria	60.113b (b)(2)-(b)(3)	Periodic initially & annually	Measurement and visual inspection

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.G.1.6 Wastewater  
 Applicable Limits and Compliance Monitoring Requirements**

**External Floating Roof Wastewater Tanks Cluster 45e**

**S-0231, S-0232, S-0399, S-1504, S-3126, S-3127, S-3128, S-3076, S-3144**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	60.116b ©	Y		True vapor pressure determination	60.116b (e)	Periodic initially and upon change of service	Calculation
NESHAP FF Regulation 11 Rule 12	Benzene Waste Operations LIMITS AND MONITORING FOR TREATMENT PROCESSES The 61 Subpart FF requirements related to control of air emissions for WMUs are listed in the templates for each WMU, and are not listed here under treatment processes.						
Benzene	Condition 23262 part 3			S-3127, 0.38% by weight benzene	Condition 23262 part 4	P/Q	Sample analysis
Throughput	Condition #18137	N		Throughput limits	Condition #18137	P/M	Recordkeeping
	Condition 23262	N		S-3127 Throughput limits and vapor pressure	Condition 23262 part 1, 2, 5	P/M	Recordkeeping

**Table VII.G.1.7 (Wastewater Cluster 50d)**

**Table VII.G.1.7  
 Applicable Limits and Compliance Monitoring Requirements**

**Wastewater Cluster 50d**

**S-4393 Bioreactor**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
BAAQMD Regulation 8-8	Organic Compounds – WASTEWATER (OIL-WATER) SEPARATORS SURFACE IMPOUNDMENTS EXEMPT FROM CONTROLS						
VOC	8-8-112	Y		Monitoring for exemption from controls for low wastewater temperature or low concentration of pollutants	8-8-502	Periodic initially & semiannually	Sample analysis/Record keeping
NESHAP FF Regulation 11 Rule 12	Benzene Waste Operations SURFACE IMPOUNDMENTS EXEMPT FROM CONTROLS There are no 61 Subpart FF requirements related to control of air emissions for WMUs that are exempt from controls. [There are recordkeeping, reporting, and in some cases monitoring requirements for the waste stream(s) received by this WMU, but these requirements are addressed within the scope of Cluster 10 – Treatment Processes.]						
Throughput	Condition #18137	N		Throughput limit	Condition #18137	P/M	Record keeping

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.G.1.7  
 Applicable Limits and Compliance Monitoring Requirements**

**Wastewater Cluster 50d**

**S-4393 Bioreactor**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Odorous Emissions	Condition #15698 part 11	N		Odorous Emission limit	Condition #15698 part 11	P/E	Odor detection

**Table VII.G.1.8 Wastewater (Containers Cluster 60b)**

**Table VII.G.1.8 Wastewater  
 Applicable Limits and Compliance Monitoring Requirements**

**Containers (Portable Wastewater Handling Units) Cluster 60b**

**Bins, Drums, Vacuum Trucks, S-6250 Oil Water Separator Poly Tank abated by A-0630/A-0631 Carbon Canisters Vessels 1A & B and 2A and B (Carbon Washout Poly Tanks for 1504 Tank also in Wastewater Cluster 10)**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Regulation 8 Rule 8	Organic Compounds – WASTEWATER (OIL-WATER) SEPARATORS CONTAINERS EXEMPT FROM CONTROLS						
VOC	8-8-112	Y		Monitoring for exemption from controls for low wastewater temperature or low concentration of pollutants	8-8-502	Periodic initially & semiannually	Sample analysis
VOC	8-8-114	Y		Monitoring for bypassing the oil water separator or air floatation device	8-8-501/502	P/E	Sample analysis
NESHAP FF Regulation 11 Rule 12	Benzene Waste Operations LIMITS AND MONITORING FOR CONTAINERS						
HAP (Benzene)	61.345 (a)(1)(i)(A)	Y		Cover leak tightness standards (< 500 ppmw)	61.345 (a)(1)(i)(A)	Periodic initially & annually	Method 21
HAP (Benzene)	61.345 (a)(1)(i)(B)	Y		Standards for openings in the cover	61.345 (a)(1)(i)(B)	Periodic initially & quarterly	Visual inspection
HAP (Benzene)	61.345 (a)(1)(i)(C)	Y		Standards for systems operated under negative pressure	61.345 (a)(1)(i)(C)	Continuous	System pressure

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.G.1.8 Wastewater  
 Applicable Limits and Compliance Monitoring Requirements**

**Containers (Portable Wastewater Handling Units) Cluster 60b**

**Bins, Drums, Vacuum Trucks, S-6250 Oil Water Separator Poly Tank abated  
 by A-0630/A-0631 Carbon Canisters Vessels 1A & B and 2A and B (Carbon Washout Poly Tanks for  
 1504 Tank also in Wastewater Cluster 10)**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
HAP (Benzene)	61.349 (a)(1)(i)	Y		Closed vent system leak tightness standards (< 500 ppmw)	61.349 (a)(1)(i)	Periodic initially & annually	Method 21
HAP (Benzene)	61.349 (a)(1)(ii)	Y		Closed vent systems by-pass line standards	61.354 (f)	Periodic daily for flow indicator; monthly for car-seal	Visual inspection
HAP (Benzene)	61.349 (a)(1)(iii), (iv)	Y		Closed vent system gauging & sampling and pressure relief device standards	61.349(f)	Periodic initially & annually	Visual inspection
HAP (Benzene)	61.349(h)	Y		Control device standards	61.354 ©, (d), (e)	Continuous check daily	Specified parameter
POC	Condition #12842, parts 2 and 3	Y		Applies to S-6250. Outlet stream VOC concentration of A-630 and A-631 <10% of inlet stream organics concentration, 95% reduction of organics, or < 500 ppmv at outlet	Condition #12842, parts 4 to 7	P/D	FID monitoring
Throughput	Condition #18137	N		Throughput limits	Condition #18137	P/M	Recordkeeping

**Table VII.H.1.1 VOC Sources (Cold Cleaners)**

**Table VII.H.1.1 VOC Sources  
 Applicable Limits and Compliance Monitoring Requirements**

**Cold Cleaners**

**S-4420 (Exempt), S-4426, S-4427, S-4428**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	8-16-118	Y		Compounds with low volatility	8-16-502	P/E	Record keeping
VOC	Condition #17527 Part 1	Y		Initial boiling point >248F	#17527 Part 3	P/M	Record keeping



## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.H.1.1 VOC Sources  
 Applicable Limits and Compliance Monitoring Requirements**

**Cold Cleaners**

**S-4420 (Exempt), S-4426, S-4427, S-4428**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	8-16-118	Y		Compounds with low volatility	8-16-502	P/E	Record keeping
VOC	Condition #17527 Part 1	Y		Initial boiling point >248F	#17527 Part 3	P/M	Record keeping
VOC	Condition #17527 Part 2	Y		Solvent limit of 100 gal per any consecutive 12-month period per solvent cleaner	#17527 Part 3	P/M	Recordkeeping
Through-put	Condition #18137	N		Table II-A	#18137 Part 2	P/M	Recordkeeping

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.H.2.1 VOC Sources (Fugitive Components)**

**Table VII.H.2.1 VOC Sources  
 Applicable Limits and Compliance Monitoring Requirements**

### Fugitive Components

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
POC	8-18-301	Y		General equipment leak $\leq 100$ ppm	None	N/A	Inspection
POC	8-18-302	Y		Valve leak $\leq 100$ ppm	8-18-401.2, or 8-18-404 or 8-18-401.3 (if inaccessible)	P/Q or P/A	Inspection
POC	8-18-303	Y		Pump and compressor leak $\leq 500$ ppm	8-18-401.2	P/Q	Inspection
POC	8-18-304	Y		Connection leak $\leq 100$ ppm	8-18-401.6 and 8-18-502	P/A or P/E	Inspection and Recordkeeping
POC	8-18-305	Y		Pressure relief valve leak $\leq 500$ ppm	8-18-401.2 or 8-18-401.3 (if inaccessible)	P/Q or P/A	Inspection
POC	8-18-305	Y		Pressure relief valve leak $\leq 500$ ppm	8-28-402	E	Inspection
POC	8-18-306.1	Y		Valve, pressure relief, pump or compressor must be repaired within 5 years or at the next scheduled turnaround	8-18-502.4	PE	record keeping
POC	8-18-306.2	Y		Awaiting repair Valves $\leq 0.5\%$ Pressure Relief $\leq 1\%$ Pump and Connector $\leq 1\%$	8-18-502.4	PE	record keeping
POC	8-18-306.3.3	Y		Total valve, pressure relief, pump or compressor leaks $\geq 15$ lb/day, they must be repaired within 7 days	8-18-502.4	P/E	record keeping
POC	8-18-307	Y		3 drops per minute and applicable leak standard	8-18-403	P/D	visual inspection
POC	SIP 8-28-301	Y		A person shall not use a pressure relief valve on any equipment if the concentration of organic compounds, measured within 1 cm from any leak in such valve exceeds 10,000 ppm (as methane) above background	SIP 8-28-401, 8-28-402, and 8-28-403	P/Q or P/E	Inspection, reporting, and records

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.H.2.1 VOC Sources  
 Applicable Limits and Compliance Monitoring Requirements**

### Fugitive Components

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
POC	8-28-304	Y		PHA within 90 days and meet Prevention Measures Procedures. After 2 <sup>nd</sup> release Vent Pressure Relief Devices to an Abatement Device with at least 95% by weight control efficiency.	8-28-405	P/release per 5 calendar years	Record keeping
				<b>40 CFR 60; Subpart QQQ</b>			
POC	60.692-2	Y		<b>Individual Drain Systems</b>	60.692-2(a)(2)	P/initially and M	Visual/physical inspection for low water levels
		Y			60.692-2(a)(3) or 60.692-2(a)(4)	P/initially and W or P/initially and semi-annually	Visual/physical inspection
		Y		<b>Junction Boxes</b>	60.692-2(b)(3)	P/initially and semi-annually	Visual/physical inspection
		Y		<b>Sewer Lines</b>	60.692-2©(2)	P/initially and semi-annually	Visual/physical inspection
	60.692-3	Y		<b>Oil-Water Separators</b>	60.692-3(a)(4)	P/initially and semi-annually	Visual/physical inspection
POC	60.692-5(e)(1)	Y		Closed vent system < 500 ppm above background	60.692-5(e)(1)	P Semi-annual	Measure for leaks
POC	60.692-5(a)	Y		Closed vent system using combustion devices shall have 0.75 sec. residence and 816 degrees C.	60.692-5(e)(1) and 60.692-5(e)(5) and condition #22003	P/E and C	Repair the closed system to eliminate any emissions detected as soon as possible, but no later than 30 days from the date the emissions are detected. Temperature and flowrate monitoring
POC	60.692-5(b)	Y		Vapor recover >= 95%	60.695	C	Temperature or concentration depending on control device
POC	60.482-2(b)(1)	Y		Pump leak ≥ 10,000 ppm	60.482-2 (a)(1)	P/M	Measure for leaks
POC	60.482-2(b)(2)	Y		Pump leak Indicated by dripping liquid	60.482-2 (a)(2)	P/W	Visual Inspection
POC	60.482-2(e)	Y		Designated "No detectable emissions" ≤ 500 ppm	60.482-2(e)(3)	P/A	Measure for leaks

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.H.2.1 VOC Sources  
 Applicable Limits and Compliance Monitoring Requirements**

### Fugitive Components

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
POC	60.482-2(g)	Y		If unsafe to monitor, monitor as frequently as practicable.	60.482-2(g)	P/E	Measure for leaks
POC	60.482-3	Y		Compressor shall have a sensor to detect failure of seal system, barrier fluid system, or both.	60.482-3 (e)(1)	P/C	Sensor with audible alarm or checked daily and record keeping
POC	60.482-4(a)	Y		Pressure relief valve (gas/vapor) leak < 500 ppm above background		P/E	Measure for leaks
POC	60.482-4(b)	Y		Pressure relief valve (gas/vapor) leak ≥ 500 ppm within 5 days after a pressure release event		P/E	Measure for leaks within 5 days after release and record keeping
POC	60.482-7(b) and (c)	Y		Valve leak ≥ 10,000 ppm	60.482-7(a), (b), and (c)	P/M	Measure for leaks
POC	60.482-7(b) and (c)	Y		Valve leak ≥ 10,000 ppm; 2 successive months w/o leaking	60.482-7(a), (b), and (c)	P/Q	Measure for leaks and record keeping
POC	60.482-7(f)	Y		Designated "No detectable emissions" ≤ 500 ppm	60.482-7 (f)(3)	P/A	Measure for leaks
POC	60.482-7(g)	Y		Allows relief from 60.482.7(a) monitoring if designated as unsafe-to-monitor. BAAQMD Regulation 8-18 does not allow this relief.	60.482-7(g)	P/E	Demonstration of danger
POC	60.482-8(a)	Y		Pumps and valves in heavy liquid service, Pressure Relief devices (light or heavy liquid), Flanges, Connectors leak shall be measured for leak in 5 days if detected by inspection, or if a leak is seen, heard, or smelled	60.482-8(a)	P/E	Visible, audible, or olfactory Inspection and record keeping
POC	60.482-8(b)	Y		Pressure Relief devices (liquid), Flanges, Connectors leak ≥ 10,000 ppm	60.482-8(a)	P/E	Measure for leaks
POC	60.482-8 (b)	Y		Pump leak ≥ 10,000 ppm	60.482-8 (a)	P/5 days	Visual, audible, olfactory Inspection; measure for leaks

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.H.2.1 VOC Sources**  
**Applicable Limits and Compliance Monitoring Requirements**

### Fugitive Components

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
POC	60.482-9 (d)	Y		Pumps under "Delay of repair" repaired, as soon as practicable, but within 6 months		P/E	Record keeping and recording
POC	60.482-10 (b)	Y		Closed-vent systems and control devices: Vapor recovery systems $\geq 95\%$	60.482-10(e)	C	Temperature monitoring
POC	60.482-10 (c)	Y		Combustion devices $\geq 95\%$ destruction efficiency or $\geq 0.75$ seconds and $\geq 816^{\circ}\text{C}$	60.482-10(e) and condition #22003	C	Temperature and flowrate monitoring
POC	60.482-10 (g)	Y		Closed-vent systems leak $\geq 500$ ppm and visible leak indication. First attempt to repair leak (visible or $\geq 500$ ppm) within 5 days, repair complete within 15 days, except as allowed for in 60.482-10(h)	60.482-10 (f)	P/A	Measure for leaks; visual inspection and record keeping
POC	60.483 and 8-18-404.1	Y		Individual valve that measures $<100$ ppm for 5 consecutive quarters may be monitored annually, if in a process unit with 5 consecutive quarters $<2\%$ valves leaking $\geq 10,000$ ppm.		P/Q P/A	Measure for leaks. Notify Administrator of election to comply with 60.483 or 61.243. Record keeping of percent of valves found leaking during each leak detection period.
POC	61.349 (a)(1)(i)	Y		Closed-vent systems $<500$ ppm above background	61.349 (a)(1)(i)	P/A	Measure for leaks
POC	61.242-2 (b)(1)	Y		Pump leak $\geq 10,000$ ppm	61.242-2 (a)(1)	P/M	Measure for leaks
POC	61.242-2 (b)(2)	Y		Pump leak Indicated by dripping liquid	61.242-2 (a)(2)	P/W	Visual Inspection
POC	61.242-2(e)	Y		Designated "No detectable emissions" $\leq 500$ ppm	61.242-2(e)(3)	P/A	Measure for leaks
POC	61.242(g)	Y		If unsafe to monitor, monitor as frequently as practicable.	61.242-2(g)	P/E	Measure for leaks
POC	61.242-2 (h)	Y		Pump leak Indicated by dripping liquid at unmanned sites	61.242-2 (h)	P/M	Visual Inspection

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.H.2.1 VOC Sources**  
**Applicable Limits and Compliance Monitoring Requirements**

### Fugitive Components

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
POC	61.242-10 (d)	Y		Pumps under "Delay of repair" repaired within 6 months		N	Record keeping
POC	61.242-3	Y		Compressor shall have a sensor to detect failure of seal system, barrier fluid system, or both.	61.242-3 (e)(1)	P/C	Sensor with audible alarm or checked daily and record keeping
POC	61.242-4(a)	Y		Pressure relief valve (gas/vapor) leak $\geq$ 500 ppm above background		P	Measure for leaks
POC	61.242-4(b)	Y		Pressure relief valve (gas/vapor) leak $\geq$ 500 ppm within 5 days after a pressure release event		P/E	Measure for leaks and record keeping
POC	61.242-7(b)	Y		Valve leak $\geq$ 10,000 ppm	61.242-7(a)	P/M	Measure for leaks and record keeping
POC	61.242-7(b) and (c)	Y		Valve leak $\geq$ 10,000 ppm; 2 successive months w/o leaking	61.242-7(b) and (c)	P/Q	Measure for leaks
POC	61.242-7(f)	Y		Designated "No detectable emissions" $\leq$ 500 ppm	61.242-7 (f)(3)	P/A	Measure for leaks
POC	61.242-7(g)	Y		Allows relief from 61.242.7(a) monitoring if designated as unsafe-to-monitor.	61.242-7(g)	P/E	Demonstration of danger
POC	61.242-8(a)	Y		Pressure Relief devices (liquid), Flanges, Connectors leak shall be measured for leak in 5 days if detected by inspection if detected by inspection, or if a leak is seen, heard, or smelled	61.242-8(a)	P/E	Visible, audible, or olfactory Inspection and record keeping
POC	61.242-8(b)	Y		Pressure Relief devices (liquid), Flanges, Connectors leak $\geq$ 10,000 ppm	61.242-8(a)	P/E	Measure for leaks
POC	61.242-11 (b)	Y		Closed-vent systems and control devices: Vapor recovery systems $\geq$ 95%	61.242-11(e)	P/1/2 breakthrough	method 21
POC	61.242-11 ©	Y		Combustion devices $\geq$ 95% destruction efficiency or $\geq$ 0.50 seconds and $\geq$ 760°C	61.242-11(e) and condition #22003	C	Temperature and flowrate Monitoring

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII.H.2.1 VOC Sources**  
**Applicable Limits and Compliance Monitoring Requirements**

### Fugitive Components

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
POC	61.242-11 (f)	Y		Closed-vent systems leak $\geq 500$ ppm and visible leak indication. First attempt to repair leak (visible or $\geq 500$ ppm) within 5 days, repair complete within 15 days, except as allowed for in 60.482-10(h)	61.242-11 (f)	P/A	Measure for leaks and visual inspection and record keeping
POC	61.243 and 8-18-404.1	Y		Individual valve that measures $<100$ ppm for 5 consecutive quarters may be monitored annually, if in a process unit with 5 consecutive quarters $<2\%$ valves leaking $\geq 10,000$ ppm.		P/Q P/A	Measure for leaks. Notify Administrator of election to comply with 60.483 or 61.243. Record keeping of percent of valves found leaking during each leak detection period.
POC	61.349	Y		Standards for closed vent systems and control devices	61.349(f) and 61.354(c)	P/M	Sampling and record keeping
POC	61.349(g)	Y		Repair any detectable emissions within 15 calendar days after the emissions are detected	61.356(h)	P/E	Recordkeeping
POC	61.349(a)(2)	Y		Design and operation of control device	61.354	C for combustion and P/1/2 breakthrough for carbon	Temperature Monitor for combustion and method 21 for carbon
POC	Condition #8869 part 1	Y		Applies to A-620 through A-626 and A-414 95% by weight reduction of VOCs and minimum temp of 1400F	Condition #8869 part 2 and 3	C	Temperature Monitor
Vent Stream Flow	61.349(a)(1)(ii)	Y		Vent stream flow indicator	61.349(a)(1)(ii)	P/every 15 minutes under certain circumstances	Flow indicator
H2S	40 CFR 60 Subpart J 60.104(a)(1) and Condition #23201	Y		Fuel gas H2S concentration limited to 230 mg/dscm (0.10 gr/dscf) [i.e., 160 ppm] except for gas burned as a result of process upset or gas burned at flares from relief valve leaks or other emergency malfunctions	40 CFR 60.105(a)(4) and Condition #23201	C	H2S analyzer

**VII. Applicable Limits and Compliance Monitoring Requirements**

**Table VII.H.2.1 VOC Sources  
 Applicable Limits and Compliance Monitoring Requirements**

**Fugitive Components**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Condition #23201				Applies to A-620, A-622, A-623, A-624, A-627, and A-628			
Part 1				Sources subject to NSPS Subparts A and J			



## VII. Applicable Limits and Compliance Monitoring Requirements

Table VII.H.3.1 VOC Sources (Paint Booth)

Table VII.H.3.1 VOC Sources

Applicable Limits and Compliance Monitoring Requirements  
Paint Booth  
S-4410, S-4424

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	8-3-302	Y		Content of air dried coating < 250 g/l	8-3-403	P/E	Labeling & recordkeeping
	8-3-304	Y		Content of coatings < specified VOC content	8-3-403	P/E	Labeling & recordkeeping
	8-4-302.1	N		5 tons/yr (each source)	8-4-501	P/A	Recordkeeping
	8-4-302.2	N		Capture/Control $\geq$ 85%	8-4-501	P/A	Recordkeeping
	8-4-302.3	N		$\leq$ 3.5 lb/gal (alternative to 5 ton Limit)	8-4-501	P/A	Recordkeeping
	SIP 8-4-302.1	Y		5 tons/yr (each source)	8-4-501	P/A	Recordkeeping
	8-19-110	Y		<20 gal/y of any coating and <100 gal/yr total	8-19-405 & 8-19-501	P/A	Petition and Recordkeeping
	8-31-111	Y		<20 gal/y	8-31-403.4 & 8-31-501	P/W	Record keeping
	8-32-111	Y		<20 gal/yr	None	P/E	Recordkeeping
	Condition #5640 Part 1			Coating limit of 500 gal per consecutive 12-month period	#5640 Part 4	P/M	Recordkeeping
	Condition #5640 Part 3			Cleanup solvent limit of 55 gal per consecutive 12-month period	#5640 Part 4	P/M	Recordkeeping
	Condition #21165 part 1 and 2	N		POC limit annual and daily	Condition #21165 part 4	P/M	recordkeeping
	Condition #22266 Part 1 and 2	N		Ink and Cleanup solvent annual limit	Condition #22266 Part 3	P/M	Record keeping

## 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**

**Table VIII – Test Methods**

Applicable Requirement	Description of Requirement	Acceptable Test Methods
6-301	Ringelmann No. 1 Limitation	Manual of Procedures, Volume I, Evaluation of Visible Emissions
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; or EPA Method 5, Determination of Particulate Emissions from Stationary Sources
6-311	General Operations	Manual of Procedures, Volume IV, ST-15, Particulates Sampling; or EPA Method 5, Determination of Particulate Emissions from Stationary Sources Manual of Procedures, Volume IV, ST-15, Particulates Sampling; or EPA Method 5
6-601	Particulate Matter Sampling	Manual of Procedures, Volume IV, ST-15, Particulates Sampling; or EPA Method 5, Determination of Particulate Emissions from Stationary Sources
8-3-301	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
8-3-302	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
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
SIP 8-4-302	Solvent and Surface Coating Requirements, VOC Emissions	Manual of Procedures, Volume IV, ST-7, Organic Compounds; or EPA Method 25, Determination of Total Gaseous Nonmethane Organic Emissions as Carbon; or EPA Method 25A, Determination of Total Gaseous Nonmethane Organic Emissions Using a Flame Ionization Analyzer
8-5-304	True Vapor Pressure	Manual of Procedures, Volume III, Lab Method 28, Determination of Vapor Pressure of Organic Liquids from Storage Tanks, if organic compound is not listed in Table I
8-5-311.3	VOC emissions	Manual of Procedures, Volume IV, ST-34, Bulk and Marine Loading Terminals Vapor Recovery Units
8-5-328.2	VOC emissions for tank cleaning	Manual of Procedures, Volume IV, ST-7, Non-Methane Organic Carbon Sampling

## VIII. TEST METHODS

**Table VIII – Test Methods**

Applicable Requirement	Description of Requirement	Acceptable Test Methods
8-5-320.3	Pressure vacuum leak concentration	EPA Reference Method 21, Determination of Volatile Organic Compounds Leaks
8-5-601	Reid Vapor Pressure	Manual of Procedures, Volume III, Lab Method 13, Determination of the Reid Vapor Pressure of Petroleum Products
8-5-602	True Vapor Pressure	Manual of Procedures, Volume III, Lab Method 28, Determination of Vapor Pressure of Organic Liquids from Storage Tanks
8-5-603	Determination of Emissions	Manual of Procedures, Volume IV, ST-34, Bulk and Marine Loading Terminals Vapor Recovery Units; ST-7 Organic compounds
8-5-605	Pressure-Vacuum Valve Gas Tight Determination	EPA Reference Method 21, Determination of Volatile Organic Compounds Leaks
8-6-502	Portable Hydrocarbon Detector	EPA Reference Method 21 (40 CFR 60, Appendix A) Determination of Volatile Organic Compounds Leaks
8-6-601	Efficiency and Rate Determination	Manual of Procedures, Volume IV, ST-3, Bulk Plants, Emission Factor Determination, or ST-34, Bulk Marine Loading Terminals, Vapor Recovery Units
8-6-603	Analysis of Samples, True Vapor Pressure	Manual of Procedures, Volume III, Method 28, Determination of Vapor Pressure of Organic Liquids From Storage Tanks
8-6-604	Determination of Applicability	EPA-450/3-87-026 (Exhibit A-2 in Appendix A or Appendix D), or Standard reference texts, or for liquid mixtures, use Raoult's Law of Partial Pressures as defined in Section 8-6-205 or ASTM Method D 2879-83
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 8-8-302	Vapor tight cover	EPA Reference Method 21, Determination of Volatile Organic Compounds Leaks
8-8-601	Wastewater Analysis for Organic Compounds	Manual of Procedures, Volume III, Lab Method 33, Determination of Dissolved Critical Volatile Organic Compounds in Wastewater Separators
8-8-504	Portable Hydrocarbon Detector	A gas detector that meets the specifications and performance criteria of and has been calibrated in accordance with EPA Reference Method 21 (40 CFR 60, Appendix A)
8-8-601	Wastewater Analysis for Critical OCs	Samples of wastewater shall be taken at the influent stream for each unit and analyzed for the concentration of dissolved critical organic compounds as prescribed in the District's Manual of Procedures, Volume III, and Lab Method 33.
8-8-602	Determination of Emissions	Emissions of POCs, as specified in Sections 8-8-301.3, 8-8-302.3, 8-8-304, 8-8-305.2, 8-8-306.2, and 8-8-307.2 shall be measured by as prescribed by any of the following methods: 1). BAAQMD MOP, Volume IV, ST-7 or; 2). EPA Method 25 or 25(A).
8-8-603	Inspection Procedures	For the purposes of 8-8-301, 302, 303, and 304, leaks shall be measured using a portable gas detector as prescribed in EPA Reference Method 21 (40 CFR 60, Appendix A)

## VIII. TEST METHODS

**Table VIII – Test Methods**

Applicable Requirement	Description of Requirement	Acceptable Test Methods
<b>BAAQMD Regulation 8-18</b>	<b>Equipment Leaks (1/7/98)</b>	
8-18-301 8-18-302 8-18-303 8-18-304 8-18-305	Leak inspection procedures	EPA reference method 21 (40 CFR 60, Appendix A), Determination of Volatile Organic Compound Leaks
8-18-306	Determination of mass emissions	EPA Protocol for equipment leak emission estimates, Chapter 4, Mass Emission Sampling, (EPA-453/R-95-017) November 1995
8-33-603	Vapor Recovery System Loading Pressure	Manual of Procedures, Volume IV, ST-34, Bulk and Marine Loading Terminals Vapor Recovery Units
8-33-604	Vapor Tight – Delivery Vehicles	Manual of Procedures, Volume IV, ST-33, Gasoline Cargo Tanks
8-33-605	Analysis of Samples	Manual of Procedures, Volume III, Lab Method 13, Determination of the Reid Vapor Pressure of Petroleum Products
8-44-301	POC emission rate limitation during vessel loading	Manual of Procedures, Volume IV, ST-34, Bulk Marine Loading Terminals, Vapor Recovery Units
8-44-304.1	Tank vessel is leak free and gas tight	EPA Method 21, Determination of Volatile Organic Compounds Leaks
8-46-301	POC emission rate limitation during vessel loading	Manual of Procedures, Volume IV, ST-34, Bulk Marine Loading Terminals, Vapor Recovery Units
8-46-304.1	Tank vessel is leak free and gas tight	EPA Method 21, Determination of Volatile Organic Compounds Leaks
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.
9-1-310.1	Emission Limitations for Fluid Catalytic Cracking Units, Fluid Cokers, and Coke Calcining Unit	Manual of Procedures, Volume IV, ST-19A, Sulfur Dioxide, Continuous Sampling, or ST-19B, Total Sulfur Oxides Integrated Sample
9-1-313.1	Sulfur in Fuel Limitation	Manual of Procedures, Volume III, Method 10, Determination of Sulfur in Fuel Oils.
9-1-313.2	Sulfur Removal and Recovery	Manual of Procedures, Volume III, Method 32, Determination of Hydrogen Sulfide in Process Water Streams and Method 1, Determination of Ammonia in Effluents
9-1-501, 9-1-502, 9-2-501	Continuous Monitoring	Manual of Procedures, Volume 5, Continuous Monitoring
9-8-301.1	NOx Limits for Rich Burn Engines Burning Exclusively Fossil Fuel Derived Fuel Gas	Manual of Procedures, Volume IV, ST-13A, Oxides of Nitrogen, Continuous Sampling and ST-14, Oxygen, Continuous Sampling
9-8-301.2	NOx Limits for Lean Burn Engines Burning Exclusively Fossil Fuel Derived Fuel Gas	Manual of Procedures, Volume IV, ST-13A, Oxides of Nitrogen, Continuous Sampling and ST-14, Oxygen, Continuous Sampling
9-8-301.3	CO Limits for Engines Burning Exclusively Fossil Fuel Derived Fuel Gas	Manual of Procedures, Volume IV, ST-6, Carbon Monoxide, Continuous Sampling and ST-14, Oxygen, Continuous Sampling

## VIII. TEST METHODS

**Table VIII – Test Methods**

<b>Applicable Requirement</b>	<b>Description of Requirement</b>	<b>Acceptable Test Methods</b>
9-9-301.1	Emission Limits- Turbines Rated < 10 MW	Manual of Procedures, Volume IV, ST-13A, Oxides of Nitrogen, Continuous Sampling and ST-14, Oxygen, Continuous Sampling
9-9-301.2	Emission Limits- Turbines Rated > 10 MW w/o SCR	Manual of Procedures, Volume IV, ST-13A, Oxides of Nitrogen, Continuous Sampling and ST-14, Oxygen, Continuous Sampling
9-9-301.3	Emission Limits- Turbines Rated > 10 MW with SCR	Manual of Procedures, Volume IV, ST-13A, Oxides of Nitrogen, Continuous Sampling and ST-14, Oxygen, Continuous Sampling
9-9-503.2	Deadline for Demonstration of Compliance with §9-9-301	Manual of Procedures, Volume IV, ST-13A, Oxides of Nitrogen, Continuous Sampling and ST-14, Oxygen, Continuous Sampling
9-9-601	Determination of Nitrogen Oxides	Manual of Procedures, Volume IV, ST-13A, Oxides of Nitrogen, Continuous Sampling and ST-14, Oxygen, Continuous Sampling
9-9-602	Determination of Carbon Monoxide and Stack-Gas Oxygen	Manual of Procedures, Volume IV, ST-6, Carbon Monoxide, Continuous Sampling and ST-14, Oxygen, Continuous Sampling
9-9-604	Determination of HHV and LHV	(1) ASTM D2015-85 for solid fuels; (2) ASTM D240-87 or ASTM D2382-88 for liquid hydrocarbon fuels; or (3) ASTM D1826-88 or ASTM D1945-81 in conjunction with ASTM D3588-89 for gaseous fuels
9-10-301	Emission Limit for Facility, NOx	Manual of Procedures, Volume IV, ST-13A, Oxides of Nitrogen, Continuous Sampling and ST-14, Oxygen, Continuous Sampling
9-10-302	Interim Facility-wide NOx emission rate limit	Manual of Procedures, Volume IV, ST-13A, Oxides of Nitrogen, Continuous Sampling and ST-14, Oxygen, Continuous Sampling
9-10-303	Federal Interim Facility-wide NOx emission rate limit	Manual of Procedures, Volume IV, ST-13A, Oxides of Nitrogen, Continuous Sampling and ST-14, Oxygen, Continuous Sampling
9-10-304	NOx emission limit for CO Boilers	Manual of Procedures, Volume IV, ST-13A, Oxides of Nitrogen, Continuous Sampling and ST-14, Oxygen, Continuous Sampling
9-10-305	CO emission limit	Manual of Procedures, Volume IV, ST-6, Carbon Monoxide, Continuous Sampling and ST-14, Oxygen, Continuous Sampling
MOP Volume IV Source Test 7, 2	Organic compound concentration monitoring	EPA Method 25 or 25A
<b>NSPS 40 CFR 60 Subpart Dc</b>	<b>Standards of performance for small industrial-commercial-institutional steam generating units (10/17/00)</b>	
60.42c	<b>SO2 Standard</b>	
60.42c(d)	Oil fired: Emissions less than 0.50 lb/MMBTU OR oil with <0.5 weight sulfur	
60.43c	<b>PM Standard</b>	
60.43c©	Oil-fired: 20% opacity and 27% opacity for 6 min/hr	
<b>NSPS 40 CFR 60 Subpart J</b>	<b>Standards of performance for Petroleum Refineries (10/17/00)</b>	

## VIII. TEST METHODS

**Table VIII – Test Methods**

<b>Applicable Requirement</b>	<b>Description of Requirement</b>	<b>Acceptable Test Methods</b>
40 CFR 60, Subpart J, 102 (a) (1)	Limit on Particulate Matter from Catalyst Regenerator	Method 5B, Determination of Nonsulfuric Acid Particulate Matter from Stationary Sources, or Method 5F, Determination of Nonsulfate Particulate Matter From Stationary Sources
40 CFR 60, Subpart J, 102 (a) (1)	Limit on Particulate Matter from Catalyst Regenerator	Method 5B, Determination of Nonsulfuric Acid Particulate Matter from Stationary Sources, or Method 5F, Determination of Nonsulfate Particulate Matter From Stationary Sources
40 CFR 60, Subpart J, 102 (a) (2)	Limit on Opacity of gases from catalyst regenerator	Method 9, Visual Determination of the Opacity of Emissions from Stationary Sources
40 CFR 60, Subpart J, 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	Method 5B, Determination of Nonsulfuric Acid Particulate Matter from Stationary Sources, or Method 5F, Determination of Nonsulfate Particulate Matter From Stationary Sources
40 CFR 60, Subpart J, 103 (a)	Limit on carbon monoxide	Method 6, Determination of Sulfur Dioxide Emissions from Stationary Sources
40 CFR 60, Subpart J, 104 (a)	Limit on H2S content in fuel gas	Method 11, Determination of Hydrogen Sulfide Content of Fuel Gas Streams in Petroleum Refineries
40 CFR 60, Subpart J, 104 (b) (1)	Limit on sulfur oxide emissions from catalyst regenerator with add-on control device	Method 6, Determination of Sulfur Dioxide Emissions from Stationary Sources
40 CFR 60, Subpart J, 104 (b) (2)	Limit on sulfur oxide emissions from catalyst regenerator without add-on control device	Method 6, Determination of Sulfur Dioxide Emissions from Stationary Sources
40 CFR 60, Subpart J, 104 (b) (3)	Limit on sulfur content of fluid catalytic cracking unit feed	ASTM D129–64, ASTM D1552–83, ASTM D2622–87, or ASTM D1266–87
40 CFR 60 Subpart J 60.106(e)	H2S concentration monitoring	EPA Method 11: H2S
40 CFR 60 Subpart J 60.106(f)(1)	SO2 concentration monitoring	EPA Method 6: SO2
40 CFR Subpart J 60.106(f)(2)	TRS concentration monitoring	EPA Method 15: Total Reduced Sulfur
40 CFR Subpart J 60.106(f)(3)	H2S concentration monitoring	EPA Method 3: O2
<b>NSPS 40 CFR 60 Subpart CC</b>		
40 CFR 60 Subpart CC	Test methods, procedures	EPA reference method 21 (40 CFR 60, Appendix A), Determination of Volatile Organic Compound Leaks
<b>NSPS 40 CFR 60 Subpart GG</b>		

## VIII. TEST METHODS

**Table VIII – Test Methods**

<b>Applicable Requirement</b>	<b>Description of Requirement</b>	<b>Acceptable Test Methods</b>
40 CFR Subpart GG 60.332 (a)(1)	Performance Standard, NOx	EPA Method 20, Determination of Nitrogen Oxides, Sulfur Dioxide, and Diluent Emissions from Stationary Gas Turbines
40 CFR Subpart GG 60.332 (a)(2)	Performance Standard, NOx	EPA Method 20, Determination of Nitrogen Oxides, Sulfur Dioxide, and Diluent Emissions from Stationary Gas Turbines
40 CFR 60 Subpart GG 60.333 (a)	SO2 Volumetric Emission Limit	EPA Method 20, Determination of Nitrogen Oxides, Sulfur Dioxide, and Diluent Emissions from Stationary Gas Turbines
40 CFR 60 Subpart GG 60.333 (b)	Fuel Sulfur Limit (gaseous fuel)	ASTM D 1072-80, Standard Method for Total Sulfur in Fuel Gases ASTM D 3031-81, Standard Test Method for Total Sulfur in Natural Gas by Hydrogenation ASTM D 4084-82, Standard Method for Analysis of Hydrogen Sulfide in Gaseous Fuels (Lead Acetate Reaction Rate Method), ASTM D 3246-81, Standard Method for Sulfur in Petroleum Gas by Oxidative Microcoulometry
40 CFR 60 Subpart GG 60.333 (b)	Fuel Sulfur Limit (liquid fuel)	ASTM D 2880-71, Standard Specification for Gas Turbine Fuel Oils
<b>NSPS 40 CFR 60 Subpart VV</b>	<b>Standards of Performance for Equipment Leaks (Fugitive Emission Sources) (10/18/83)</b>	EPA Reference Method 21, Determination of Volatile Organic Compounds Leaks
Subpart VV 40 CFR 60.482-2(b)(1), 60.482-7(b), 60.482-8(b), 60.482-10 (g),	Leak inspection procedures	60 Subpart VV, 60.485(b): EPA reference method 21 (40 CFR 60, Appendix A), Determination of Volatile Organic Compound Leaks
Subpart VV 40 CFR 60.482-2(b)(2), 60.482-8(a),	Visual inspection	60 Subpart VV, 60.485(b)
Subpart VV 40 CFR 60.482-2(e), 60.482-4(a), 60.482-4(b), 60.482-7(f),	Leak inspection procedures	60 Subpart VV, 60.485©: EPA reference method 21 (40 CFR 60, Appendix A), Determination of Volatile Organic Compound Leaks
Subpart VV 40 CFR 60.483 and 8-18-404.1	Leak inspection procedures	60 Subpart VV, 60.485(b): EPA reference method 21 (40 CFR 60, Appendix A), Determination of Volatile Organic Compound Leaks
<b>NSPS 40 CFR 60 Subpart QQQ</b>	<b>Standards of Performance for VOC Emissions From Petroleum Refinery Wastewater Systems (11/23/88)</b>	
40 CFR 60 Subpart QQQ, 60.696	Performance test methods and procedures and compliance provisions	Sources equipped with a closed-vent system and control device shall use EPA Method 21 to measure the emission concentrations, using 500 ppm as the no detectable emission limit. Acceptable seal gap criteria also included.

## VIII. TEST METHODS

**Table VIII – Test Methods**

<b>Applicable Requirement</b>	<b>Description of Requirement</b>	<b>Acceptable Test Methods</b>
40 CFR 60, Subpart QQQ 60.696	Leak inspection procedures	EPA reference method 21 (40 CFR 60, Appendix A), Determination of Volatile Organic Compound Leaks
<b>NSPS 40 CFR 60 Appendix A</b>	<b>Appendix A to Part 60 – Test Methods</b>	EPA Reference Method 21
<b>NSPS 40 CFR 60 Appendix B</b>	<b>Performance Specifications</b>	
Performance Specification 3	O2 and CO2 continuous emission monitoring systems	
Performance Specification 5	Total reduced sulfur (TRS) continuous emission monitoring systems	
Performance Specification 7	H2S continuous emission monitoring systems	
<b>NSPS 40 CFR 60 Appendix F</b>	<b>Quality Assurance Procedures</b>	
Procedure 1	QA requirements for gas continuous emission monitoring systems	
<b>NESHAPS 40 CFR 61, Subpart FF</b>	<b>National Emission Standard for Benzene Waste Operations (10/17/2000)</b>	
40 CFR 61 Subpart FF 61.349 (a)(1)(i)	Leak inspection procedures	61 Subpart FF, 61.355(h): EPA reference method 21 (40 CFR 60, Appendix A), Determination of Volatile Organic Compound Leaks
40 CFR Subpart FF 61.354 (f)	Visual Inspection	61 Subpart FF, 61.354(f)
<b>NESHAP Part 61 Subpart V</b>	<b>National Emission Standards for Equipment Leaks (Fugitive Emission Sources) (6/6/84)</b>	Manual of Procedures, Volume IV, ST-34, Bulk Gasoline Distribution Facilities Vapor Recovery Units
Subpart V 40 CFR 61.242-2(b)(1), 61.242-7(b), 61.242-8(b)	Leak inspection procedures	61 Subpart V, 61.245(b): EPA reference method 21 (40 CFR 60, Appendix A), Determination of Volatile Organic Compound Leaks
Subpart V 40 CFR 61.242-2 (b)(2), 61.242-2 (g), 61.242-8(a)	Visual Inspection	61 Subpart V, 61.242-2 (b)



## VIII. TEST METHODS

**Table VIII – Test Methods**

<b>Applicable Requirement</b>	<b>Description of Requirement</b>	<b>Acceptable Test Methods</b>
Subpart V 40 CFR 61.242-2(e), 61.242-4(a), 61.242-4(b), 61.242-7(f), 61.242-11 (f)	Leak inspection procedures	61 Subpart V, 61.245©: EPA reference method 21 (40 CFR 60, Appendix A), Determination of Volatile Organic Compound Leaks
Subpart V 40 CFR 61.243 and 8-18-404.1	Leak inspection procedures	61 Subpart V, 61.245(b): EPA reference method 21 (40 CFR 60, Appendix A), Determination of Volatile Organic Compound Leaks
<b>NESHAPS 40 CFR 63, Subpart Y</b>	<b>National Emission Standards for Marine Tank Vessel Loading Operations (9/19/95)</b>	
40 CFR 63, Subpart Y 562©(2)(iii)	Vapor tightness of marine tank vessel	40 CFR 63, 565©(1) Pressure Test for Marine Tank Vessel; and EPA Method 21 for Leak Test
40 CFR 63, Subpart Y 562©(3)	POC destruction/removal efficiency requirements	EPA Method 25 (for non-flare combustion device) EPA Method 25A (for recovery device) EPA Method 22 (for flare)
40 CFR 63, Subpart Y 562©(4)	1000 ppmv outlet VOC concentration	EPA Method 25 (for non-flare combustion device) EPA Method 25A (for recovery device) EPA Method 22 (for flare)
<b>NESHAPS 40 CFR 63, Subpart VV</b>	<b>National Emission Standards for Oil-Water Separators and Organic Water Separators (7/1/96)</b>	
40 CFR 63 Subpart VV, 63.1046	Test methods, procedures	Method 21 of 40 CFR part 60, appendix A. Acceptable floating roof seal gap criteria included.

## 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 Combustion (Cogeneration)**

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

**Cogeneration**

**S-4350 Gas Turbine with Steam Injection Cogeneration Train 1000 and S-4351 Heat Recovery Steam Generation Train 1000 abated by A-0070 CO/HC Catalyst and A-0072 SCR NOx Reduction Catalyst, S-4352 Gas Turbine with Steam Injection Cogeneration Train 2000 and S-4353 Heat Recovery Steam Generation Train 2000 abated by A-0071 CO/HC Catalyst and A-0073 SCR NOx Reduction Catalyst**

Citation	Title or Description (Reason not applicable)
<b>NSPS Part 60 Subpart GG</b>	<b>Standards of Performance for Stationary Gas Turbines (1/27/82)</b>
60.334(a)	Requires CEM Water to fuel monitoring, but does not require Steam to fuel monitoring. The refinery injects steam only.

**Table IX-A-2 Sources (Fugitive Components)**

**Table IX-A-2 VOC Sources  
 Permit Shield for Subsumed Requirements**

**Fugitive Components**

Citation	Title or Description (Reason not applicable)
<b>NSPS Part 60 Subpart VV</b>	<b>National Emission Standards for Equipment Leaks (Fugitive Emission Sources) (6/6/84)</b>
60.482-7(h)	Allows relief from 60.482.7(a) monitoring if designated as difficult-to-monitor. BAAQMD Regulation 8-18-206 definition of inaccessible is more stringent. Both 60.482.7(h) and BAAQMD 8-18-401.3 require yearly monitoring for difficult-to-monitor valves.
60.482-9(e)	Allows delay of repair beyond a process unit shutdown under supply circumstances. BAAQMD Regulation 8-18-306 does not allow this relief.
<b>NESHAPS Part 61 Subpart V</b>	<b>National Emission Standards for Equipment Leaks (Fugitive Emission Sources) (6/6/84)</b>
61.242-7(h)	Allows relief from 61.242.7(a) monitoring if designated as difficult-to-monitor. BAAQMD Regulation 8-18-206 definition of inaccessible is more stringent. Both 61.242.7(h) and BAAQMD 8-18-401.3 require yearly monitoring for difficult-to-monitor valves.

**IX. Permit Shield**

**Table IX-A-2 VOC Sources  
 Permit Shield for Subsumed Requirements  
Fugitive Components**

Citation	Title or Description (Reason not applicable)
61.242-10(e)	Allows delay of repair beyond a process unit shutdown under supply circumstances. BAAQMD Regulation 8-18-306 does not allow this relief.
61.244	Subsumed by BAAQMD Regulation 8-18-308 that requires public noticing.

**Table IX-A-3 Loading Terminals (Wharf)**

**Table IX-A-3 Loading Terminals  
 Permit Shield for Non-Applicable Requirements**

**Wharf**

S-4315 Point Orient Wharf, S-9321 Berth #1 Long Wharf 4 Arms, S-9322 Berth #2 Long Wharf 18 Risers, S-9323 Berth #3 Long Wharf 6 Arms, S-9324 Berth #4 Long Wharf 5 Arms, S-9325 Berth #9 Long Wharf 15 Risers, S-9326 Berth #11 Long Wharf 2 Risers (S-9322, S-9323, S-9324, S-9325 abated by A-0900 Marine Vapor Recovery)

Citation	Title or Description (Reason not applicable)
NESHAPS Part 63 Subpart R	National Emission Standards for Loading Racks
63.422	No gasoline cargo trucks are loaded at the Richmond Wharf
63.423	No gasoline storage vessels are located at the Richmond Wharf
63.424	No gasoline cargo tanks are located at the Richmond Wharf

**Table IX-B-2 Tanks (EFRT's Cluster 23)**

**Table IX-B-2 Tanks  
 Source-Specific Subsumed Requirements**

**External Floating Roof Tanks Cluster 23**

S-399, S-3180, S-3190, S-3191, S-3193, S-3196, S-3197, S-3198, S-3201, S-3202, S-3213, S-3214

Citation	Title or Description (Reason not applicable)
BAAQMD Regulation 11-7	Hazardous Pollutants: Benzene (3/6/85)
11-7-401	Weekly visual inspection of pumps is also required by 40 CFR 61.242-2.
11-7-402	Initial report is also required by 40 CFR 61.247 (a).
11-7-403	Semiannual reports are also required by 40 CFR 61.247 (b)-(c).
11-7-501	Monthly monitoring of pumps and valves is also required by 40 CFR 61.242-2(a)(1), (e); 61.242-7(a), (f).
11-7-502	Recordkeeping is also required by 40 CFR 61.246.

## 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 Tanks (EFRT’s Cluster 17)

**Table IX-B-1 Tanks  
 Source-Specific Subsumed Requirements**

**External Floating Roof Tanks Cluster 17**

S-3101, S-3102, S-3129

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

#### Table IX-B-2 Tanks (EFRT’s Cluster 23)

**Table IX-B-2 Tanks  
 Source-Specific Subsumed Requirements**

**External Floating Roof Tanks Cluster 23**

S-399, S-3180, S-3189, S-3190, S-3191, S-3193, S-3196, S-3197, S-3198, S-3201, S-3202, S-3213, S-3214

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<b>NSPS Subpart Kb</b>	<b>Volatile Organic Liquid Storage Vessels            SUBSUMED REQUIREMENTS FOR EFRTs</b>		
60.115b(b)	<b>Reporting and Recordkeeping for EFRTs.</b> Subsumed into the Refinery MACT requirements [section 63.640(h)].		

#### Table IX-B-3 Tanks (IFRT’s Cluster 24)

**Table IX-B-3 Tanks  
 Source-Specific Subsumed Requirements**

**Internal Floating Roof Tanks Cluster 24**

S-1635, S-1637

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

**IX. Permit Shield**

**Table IX-B-3 Tanks  
 Source-Specific Subsumed Requirements**

**Internal Floating Roof Tanks Cluster 24**

**S-1635, S-1637**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<b>NSPS Subpart Kb</b>	<b>Volatile Organic Liquid Storage Vessels SUBSUMED REQUIREMENTS FOR IFRTs</b>		
60.115b(a)	Reporting and Recordkeeping for IFRTs. Subsumed into the Refinery MACT requirements [section 63.640(h).		

**Table IX-B-4 Tanks (EFRT's Cluster 26)**

**Table IX B-5 Tanks (IFRT's Cluster 27)**

**Table IX B-6 Combustion (Steam Generating Units)**

**Table IX B-6 Combustion  
 Source-Specific Subsumed Requirements**

**Steam Generating Units  
 S-4070, S-4071, S-4072, S-4155**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
NSPS 40 CFR 60 Subpart D  {for source S-4070, S-4071, S-4072	Standards of Performance for Steam Generating Units		
60.45	Emission and Fuel Monitoring: Install CEMs and comply with applicable monitoring requirements of this subpart. Subsumed into the BAAQMD 9-10-502.1 requirement for a Monitoring Plan including a NOx and O2 CEM	Y	
NSPS 40 CFR 60 Subpart Db  [for S-4155]	Standards of Performance for Steam Generating Units		
60.48b	Emission Monitoring for Nitrogen Oxides: Install, calibrate, and operate a NOx CEM. Subsumed into the BAAQMD 9-10-502.1 requirement for a Monitoring Plan including a NOx and O2 CEM.	Y	
60.49b	Reporting and Recordkeeping Requirements	Y	

## X. REVISION HISTORY

Final Title V Permit:	December 1, 2003
Administrative Amendment (no application) Change in effective date for NO <sub>x</sub> Box and Flare Monitoring	May 27, 2004
Administrative Amendment (Application 10324) Addition of NO <sub>x</sub> and O <sub>2</sub> CEMs for S-4159 and S-4160	
Reopening EPA Review (Application # 9294): See Statement of Basis for details	December 16, 2004
Minor Revision (Application 9782): Change in throughput and vapor pressure limits for S-3202, Tank	December 16, 2004
Reopening (Application 11695):	April 12, 2005
Reopening (Applications, 12429, 12602, 13570 & 14308)	October 12, 2006
Reopening (Application 13024):	April 5, 2007

## XI. GLOSSARY

**ACT** — Federal Clean Air Act

**Avgas**-Aviation Gas

**BAAQMD** — Bay Area Air Quality Management District

**BACT** — Best Available Control Technology

**CAA** — The federal Clean Air Act

**CAAQS** — California Ambient Air Quality Standards

**CEQA** — California Environmental Quality Act

**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

**CO<sub>2</sub>** — Carbon Dioxide

**CVS**-Closed Vent System

**CWTS**- Cooling Water Towers

**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**- “dissolved air flotation” unit

**DEBRU**- Desalter Effluent Benzene Removal Unit

**District** — The Bay Area Air Quality Management District

**DSCF** – Dry Standard Cubic Feet

**EFRT**- External Floating Roof Tank

**EMP**— Environmental Management Plan

**EPA** — The federal Environmental Protection Agency

**ESP** — Electrostatic Precipitator

**Excluded** — Not subject to any District regulations.

## X. Glossary

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

**FCC** — Fluid Catalytic Cracker

**FID**-Flame ionization detector (for measurement of hydrocarbons)

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

**FRT**- Floating Roof Tank

**GRU** — Gas Recovery Unit

**GWTU**- Ground Water treatment unit

**H<sub>2</sub>S** — Hydrogen Sulfide

**H<sub>2</sub>SO<sub>4</sub>** — Sulfuric acid

**HAP** — Hazardous Air Pollutant. Any pollutant listed pursuant to Section 112(b) of the Act. Also refers to the program mandated by Title I, Section 112, of the Act and implemented by both 40 CFR Part 63, and District Regulation 2, Rule 5.

**HC** — Hydrocarbon

**Hg** — Mercury

**HHV** – Higher Heating Value

**HNC** — Heavy Neutral Hydrocracker

**HNHF** — Heavy Neutral Hydrofinisher

**IFRT**- Internal Floating Roof Tank **JHT**- Jet Hydrotreater

**K**-thousand

**LNC** — Light Neutral Hydrocracker

**LNHF** — Light Neutral Hydrofinisher

**LPG**- Liquefied Petroleum Gas

**LSFO**- Low Sulfur Fuel Oil



## X. Glossary

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

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

**MOP** — The District's Manual of Procedures

**MTBE**- Methyl Tertiary Butyl Ether

**NA** — Not Applicable

**NAAQS** — National Ambient Air Quality Standards

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

**NMHC** — Non-methane Hydrocarbons

**NO<sub>x</sub>** — Oxides of nitrogen

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

**NSR** — New Source Review. A federal program for pre-construction review and permitting of new and modified sources of pollutants for which criteria have been established in accordance with Section 108 of the Federal Clean Air Act. Mandated by Title I of the Federal Clean Air Act and implemented by 40 CFR Parts 51 and 52 and District Regulation 2, Rule 2. (Note: There are additional NSR requirements mandated by the California Clean Air Act.)

**Offset Requirement** — A New Source Review requirement to provide federally enforceable emission offsets for the emissions from a new or modified source. Applies to emissions of POC, NO<sub>x</sub>, PM<sub>10</sub>, and SO<sub>2</sub>.

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

**POC** — Precursor Organic Compounds

**PM** — Particulate Matter

**PM<sub>10</sub>** — Particulate matter with aerodynamic equivalent diameter of less than or equal to 10 microns.

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

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

## **X. Glossary**

**PSV**-Pressure Safety Valve

**RLOP**- Richmond Lube Oil Project

**RLW**- Richmond Long Wharf

**SDA** — Solvent Deasphalting

**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.

**SO<sub>2</sub>** — Sulfur dioxide

**SO<sub>3</sub>** — Sulfur trioxide

**SRU** — Sulfur Recovery Unit

**ST-7** — District Manual of Procedures, Vol. IV, ST-7 (source test procedures for non-methane organic compound sampling (BAAQMD Reg. 8))

**Shutdown Reporting** – 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.

**Start-Up Reporting** – 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.

**TBD**-To be determined

**TDS**-Total Dissolved Solids

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

**TKC-Taylor Kinetic Cracking**

**TRMP**-Toxic Risk Management Plan

**TSP** — Total Suspended Particulate

**TVP**-True Vapor Pressure

## X. Glossary

**VGO**- Vacuum Gas Oil

**VOC** — Volatile Organic Compounds

**VR** — Vapor Recovery

**WMU** – Wastewater Management Unit

**WWT** —Wastewater Treatment

### Units of Measure:

bbl	=	barrels
bhp	=	brake-horsepower
btu	=	British Thermal Unit
g	=	grams
gal	=	gallon
gpm	=	gallons per minute
hp	=	horsepower
hr	=	hour
lb	=	pound
in	=	inches
max	=	maximum
m <sup>2</sup>	=	square meter
min	=	minute
mm	=	million (in the Permit, “mm” typically refers to “millimeter”)
MM	=	million
ppb	=	parts per billion
ppmv	=	parts per million, by volume
ppmw	=	parts per million, by weight
psia	=	pounds per square inch, absolute
psig	=	pounds per square inch, gauge
scfd	=	standard cubic feet per day
scfm	=	standard cubic feet per minute
yr	=	year

## **XII. APPLICABLE STATE IMPLEMENTATION PLAN**

The Bay Area Air Quality Management District's portion of the State Implementation Plan can be found at EPA Region 9's website. The address is:

<http://yosemite1.epa.gov/r9/r9sips.nsf/California?ReadForm&Start=1&Count=30&Expand=3.1>