

# Bay Area Air Quality Management District

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

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## Final "Revision 5" Minor Revision

# MAJOR FACILITY REVIEW PERMIT

Issued To:

**Tesoro Refining & Marketing Company LLC**  
**Facility #B2758 & Facility #B2759**

### Facility Addresses:

Facility #B2758	Facility #B2759
Golden Eagle Refinery	Amorco Terminal
150 Solano Way	1750 Marina Vista Way
Martinez, CA 94553	Martinez, CA 94553

### Mailing Address:

Golden Eagle Refinery, 150 Solano Way  
Martinez, CA 94533

### Responsible Official

Thomas A. Lu  
Vice President and General Manager

(925) 228-1220

### Facility Contact

Matthew W. Buell  
Environmental Manager

(925) 228-1220

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**Type of Facility:** Petroleum Refining  
**Primary SIC:** 2911  
**Product:** Refined Petroleum Products

BAAQMD Engineering Division Contact:  
Arthur P. Valla

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

Signed by Jaime A. Williams  
Jaime A. Williams, Director of Engineering

January 11, 2016  
Date

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## I. STANDARD CONDITIONS

### A. Administrative Requirements

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

- BAAQMD Regulation 1 - General Provisions and Definitions  
(as amended by the District Board on 5/4/11);
- SIP Regulation 1 - General Provisions and Definitions  
(as approved by EPA on 6/28/99);
- BAAQMD Regulation 2, Rule 1 - Permits, General Requirements  
(as amended by the District Board on 4/18/12);
- SIP Regulation 2, Rule 1 - Permits, General Requirements  
(as approved by EPA on 1/26/99);
- BAAQMD Regulation 2, Rule 2 - Permits, New Source Review  
(as amended by the District Board on 6/15/05);
- SIP Regulation 2, Rule 2 - Permits, New Source Review and Prevention of Significant Deterioration  
(as approved by EPA on 1/26/99);
- BAAQMD Regulation 2, Rule 4 - Permits, Emissions Banking  
(as amended by the District Board on 12/19/12);
- SIP Regulation 2, Rule 4 - Permits, Emissions Banking  
(as approved by EPA on 1/26/99);
- BAAQMD Regulation 2, Rule 5 – New Source Review of Toxic Air Contaminants  
(as amended by the District Board on 1/6/10);
- BAAQMD Regulation 2, Rule 6 - Permits, Major Facility Review  
(as amended by the District Board on 4/16/03); and
- SIP Regulation 2, Rule 6 – Permits, Major Facility Review  
(as approved by EPA through 6/23/95)

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

1. This Major Facility Review Permit was issued on June 28, 2011, and expires on June 27, 2016. The permit holder shall submit a complete application for renewal of this Major Facility Review Permit no later than December 27, 2015, and no earlier than June 27, 2015. **If a complete application for renewal has not been submitted in accordance with this deadline, the facility may not operate after June 27, 2016. If the permit renewal has not been issued by June 27, 2016, but a complete application for renewal has been submitted in accordance with the above deadlines, the existing permit will continue in force until the District takes final action on the renewal application.** (Regulation 2-6-307, 404.2, 407 & 409.6; MOP Volume II, Part 3, §4.2)
2. The permit holder shall comply with all conditions of this permit. The permit consists of this document and all appendices. Any non-compliance with the terms and conditions of this permit will constitute a violation of the law and will be grounds for enforcement action; permit termination, revocation and re-issuance, or

## I. Standard Conditions

- 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)
  7. The permit holder shall supply within 30 days any information that the District requests in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. (Regulation 1-441, Regulation 2-6-409.4 & 501; MOP Volume II, Part 3, §4.11)
  8. Any records required to be maintained pursuant to this permit, which the permittee considers to contain proprietary or trade secret information shall be prominently designated as such. Copies of any such proprietary or trade secret information, which are provided to the District shall be maintained by the District in a locked confidential file, provided, however, that requests from the public for the review of any such information shall be handled in accordance with the District's procedures set forth in Section 11 of the District's Administrative Code. (Regulation 2-6-419; MOP Volume II, Part 3, §4.11)
  9. Proprietary or trade secret information provided to EPA will be subject to the requirements of 40 CFR Part 2, Subpart B - Public Information, Confidentiality of Business Information. (40 CFR Part 2)
  10. The emissions inventory submitted with the application for this Major Facility Review Permit is an estimate of actual emissions or the potential to emit for the time period stated and is included only as one means of determining applicable requirements for emission sources. It does not establish, or constitute a basis for establishing, any new emission limitations. (MOP Volume II, Part 3, §4.11)
  11. The responsible official shall certify all documents submitted by the facility pursuant to the major facility review permit. The certification shall state that based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete. The certifications shall be signed by a responsible official for the facility. (Regulation 2-6-409.20, MOP Volume II, Part 3, §4.11)

## **I. Standard Conditions**

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, MOP Volume II, Part 3, §4.7)

### **F. Monitoring Reports**

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

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

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

### **G. Compliance Certification**

Compliance certifications shall be submitted annually by the responsible official of this



## **I. Standard Conditions**

facility to the Bay Area Air Quality Management District and to the Environmental Protection Agency. 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)
2. The permit holder may seek relief from enforcement action for a violation of any of the terms and conditions of this permit by applying to the District's Hearing Board for a variance pursuant to Health and Safety Code Section 42350. The Hearing Board will determine after notice and hearing whether variance relief should be granted in accordance with the procedures and standards set forth in Health and Safety Code Section 42350 et seq. (MOP Volume II, Part 3, §4.8)
3. The granting by the District of breakdown relief or the issuance by the Hearing Board of a variance will not provide relief from federal enforcement. (MOP Volume II, Part 3, §4.8)

## **I. Severability**

In the event that any provision of this permit is invalidated by a court or tribunal of competent jurisdiction, or by the Administrator of the EPA, all remaining portions of the permit shall remain in full force and effect. (Regulation 2-6-409.5; MOP Volume II, Part 3, §4.10)

## **J. Miscellaneous Conditions**

1. In Table IIA1 or Table IIA2, for each source with a capacity identified as a firm limit, the maximum capacity for each source as shown in Table IIA1 -or Table II-A2 is the maximum allowable capacity. Exceedance of the maximum allowable capacity

## I. Standard Conditions

for any source is a violation of Regulation 2, Rule 1, Section 301. (Regulation 2-1-301)

2. In Table II-A1 or Table II-A2, for each source identified as a grandfathered source, the throughput limits as shown in Table II-A1 and Table II-A2 are based upon District records at the time of the MFR permit issuance. These throughput limits function as reporting thresholds only and exceedance of any of these limits does not constitute noncompliance with the MFR permit. As such, exceedance of a grandfathered limit is not subject to Section I.F reporting requirements. Exceedance of a grandfathered limit does not establish a presumption that a modification has occurred, nor does compliance with the limit establish a presumption that a modification has not occurred. The facility must report any exceedance of these limits in the form of a permit application within 30 days of discovery to facilitate the determination of whether a modification has occurred. The applications shall be sent to the following address: (Regulation 2-1-234.3).

Air Quality Engineering Manager  
Bay Area Air Quality Management District  
939 Ellis Street  
San Francisco, CA 94109

Attn: Permit Evaluation Section, Title V Reports

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 start-up or shutdown of any process unit and as soon as feasible for any unscheduled startup or shutdown of a process unit, but no later than 48 hours after the unscheduled startup/shutdown or within the next normal business day. The notification shall be sent in writing by fax or email to the Director of Enforcement and Compliance. The requirement is not federally enforceable. [basis: Regulation 2-1-403]
4. Where an applicable requirement allows multiple compliance options and where more than one such option is incorporated into the permit, the permit holder must maintain records indicating the selected compliance option. Such records at a minimum shall indicate when any change in options has occurred. In addition, the annual compliance certification must specifically indicate which option or options were selected during the certification period. This is in addition to any recordkeeping and reporting contained in the requirement itself.

## K. Accidental Release

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

## II. EQUIPMENT

**Table II A1 - Permitted Sources – Golden Eagle Refinery  
 Plant #B2758 – Tesoro Refining and Marketing Company - Golden Eagle Refinery**

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 Conditions J.

S-#	Description	Make or Type	Model	Capacity	Grandfathered Limit, or Firm Limit and Basis
26	Tank A-26, White Gasoline	External floating roof		4,536K gal 10,375K bbl/yr	Grandfathered Limit
33	Tank A-33, White Gasoline	External floating roof		4,536K gal 10,375K bbl/yr	Grandfathered Limit
97	FCCU Catalyst Fines Hopper Abated by A30 ESP or by A3 and A4 (Cyclone and Baghouse)			14,600 ton/yr	Grandfathered Limit
98	FCCU East Catalyst Hopper Abated by A30 ESP or by A3 and A4 (Cyclone and Baghouse)			5,475 ton/yr	Grandfathered Limit
99	FCCU West Catalyst Hopper Abated by A30 ESP or by A3 and A4 (Cyclone and Baghouse)			9,125 ton/yr	Grandfathered Limit
100	Avon Wharf Loading Berth No. 1 Marine Bulk Plant with A14 Vapor Recovery System , Loading: Crude Oil, Gasoline, Diesel, Jet A, No. 6 Fuel Oil, Naphtha, Kerosene, Gas Oil			30,000K bbl/yr	Grandfathered Limit
101	Truck Rack, Tract 2 Slops Truck Rack; Unloading only: Crude Oil, Naphtha, Transmix, Fuel Oil			7,300K bbl/yr	Grandfathered Limit
108	Avon Wharf Loading Berth No. 5 Marine Bulk Plant; Loading: Crude Oil, Gasoline, Diesel, Jet A, No. 6 Fuel Oil, Naphtha, Kerosene, Gas Oil			15,000K bbl/yr	Grandfathered Limit
115	Bulk Plant (truck/rail); Caustic waste; Railcar loading rack north of water reservoir			3,754K bbl/yr	Grandfathered Limit

## II. Equipment

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S-#	Description	Make or Type	Model	Capacity	Grandfathered Limit, or Firm Limit and Basis
134	Tank A-134, Light Green, Recovered Oil A14 Vapor Recovery	Fixed roof tank		651K gal 700K bbl/yr	Firm Limit Condition #20923, part 1 New Source Review
135	Tank A-135 Fuel Oil, Jet 'A', Gas Oil, Recovered Oil	External floating roof		651K gal 25,029K bbl/yr	Grandfathered Limit
137	Tank A-137, Light Green Fuel Oil #2, Waste Oil, Gasoline A14 Vapor Recovery	Fixed roof tank		659K gal 1,915K bbl/yr	Firm Limit Condition #10984, part 2 New Source Review
217	Tank A-217, White Ethers, Gasoline	External floating roof		4,494K gal 10,375K bbl/yr	Grandfathered Limit
315	Demolished				
318	Demolished				
323	Tank A-323, White Fuel Oil, Jet 'A', Gasoline, Alkylate Gasoline Blending Components A14 Vapor Recovery	Fixed roof		924K gal 2,000K bbl/yr	Firm Limit Condition #13605, part 1 New Source Review
327	Tank A-327 Caustic Waste A14 Vapor Recovery	Fixed roof		634K gal 5000K bbl/yr	Grandfathered Limit
367	Demolished				
432	Tank A-432 Ethyl Alcohol, Distillate Oil, Gasoline, Naphtha A14 Vapor Recovery	Fixed roof		2,688K gal 7,382K bbl/yr	Grandfathered Limit
513	Demolished				
529	Demolished				
530	Demolished				

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S-#	Description	Make or Type	Model	Capacity	Grandfathered Limit, or Firm Limit and Basis
532	Oil Water Separator; (Tank 532 modified as OWS) #50 Crude Unit Desalter Skim Tank A14 Vapor Recovery	Custom		630K gal 2,505,360 bbl/yr	Firm Limit Condition #20099, part 1 New Source Review
587	Demolished				
588	Demolished				
590	DEA Flash Drum			29,096K bbl/yr	Grandfathered Limit
601	Tank A-601, Black Recovered Oil, Gas Oil	Internal floating roof		714K gal 3,650K bbl/yr	Grandfathered Limit
603	Tank A-603, Black Organic Liquid – other/not Spec; #50 Unit Desalter Break Tank A14 Vapor Recovery	Fixed roof		126K gal 25,029K bbl/yr	Grandfathered Limit
606	50 Unit Wastewater Air Stripper A [Brine Stripper] Abated by S950 (F50)			700 SCFM 367,920,000 SCF/yr	Firm Limit Condition #7410, part 2 New Source Review
607	50 Unit Wastewater Air Stripper B [Brine Stripper] Abated by S950 (F50)			700 SCFM 367,920,000 SCF/yr	Firm Limit Condition #7410, part 2 New Source Review
612	Tank A-612, White Ethyl Alcohol,	Internal floating roof		420K gal 1,200K bbl/yr	Firm Limit Condition #6740, part 3 New Source Review

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**Table II A1 - Permitted Sources – Golden Eagle Refinery  
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S-#	Description	Make or Type	Model	Capacity	Grandfathered Limit, or Firm Limit and Basis
613	Tank A-613, White Vapor Storage Tank A14 Vapor Recovery	Fixed roof with internal diaphragm seal		420K gal	N/A
629	Tank A-629, 12% Ammonia in Water	Fixed Roof		21K gal 330K bbl/yr	Grandfathered Limit
631	Tank A-631, Light Green Crude Oil, Bunker C Fuel Oil, FCC Fresh Feed, Refinery, Fuel Oil #2, Gas Oil	External floating roof		5,502K gal 11,000K bbl/yr	Grandfathered Limit
637	Tank A-637, White Naphtha	External floating roof		3,360K gal 7,300K bbl/yr	Grandfathered Limit
638	Tank A-638, White Naphtha, Gas Oil, Gasoline	External floating roof		3,360K gal 11,000K bbl/yr	Grandfathered Limit
639	Tank A-639, White Naphtha	External floating roof		3,360K gal 11,000K bbl/yr	Grandfathered Limit
640	Tank A-640, White Distillate Oil, Gasoline	External floating roof		3,360K gal 11,000K bbl/yr	Grandfathered Limit
641	Tank A-641, White Distillate Oil, Gasoline	External floating roof		3,360K gal 11,000K bbl/yr	Grandfathered Limit
642	Tank A-642, White Hydrocarbon, Gas Oil	External floating roof		1,806K gal 25,029K bbl/yr	Grandfathered Limit
650	Tank A-650 Refinery Sour Waste Water	External floating roof		5,502K gal 17,520K bbl/yr	Grandfathered Limit
651	Tank A-651 Oil/Water Mixture	External floating roof		5,502K gal 17,520K bbl/yr	Grandfathered Limit
656	Tank A-846, Foul Water Stripper Charge Tank, Refinery Sour Waste Water A-12 Vapor Recovery A-14 Vapor Recovery	Fixed roof		126K gal 28,470K bbl/yr	Grandfathered Limit

## II. Equipment

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S-#	Description	Make or Type	Model	Capacity	Grandfathered Limit, or Firm Limit and Basis
658	Tank A-847, Foul Water Stripper Charge Tank, Refinery Sour Waste Water A-12 Vapor Recovery A-14 Vapor Recovery	Fixed roof		126K gal 28,470K bbl/yr	Grandfathered Limit
659	Demolished				
660	Demolished				
664	Tank A-664, White Gasoline	External floating roof		5,460K gal 12,800K bbl/yr	Grandfathered Limit
690	Tank A-690, White Crude Oil	External floating roof		13,020K gal 18,250K bbl/yr	Firm Limit Condition 24724 part 1
692	Tank A-692, White Gasoline	External floating roof		3,276K gal 10,000K bbl/yr	Grandfathered Limit
694	Tank A-694, White Crude Oil	External floating roof		13,230K gal 21,900K bbl/yr	Grandfathered Limit
696	Tank A-696, White Gasoline	Internal floating roof		630K gal 2,000K bbl/yr	Grandfathered Limit
699	Tank A-699, White API Separator Recovered Oil A-14 Vapor Recovery	Fixed roof		777K gal 3838K bbl/yr	Grandfathered Limit
700	Tank 2-A-700, Light grey API Separator Sludge	Fixed roof		84K gal 2,500K bbl/yr	Grandfathered Limit
701	Tank A-701, White Crude Oil	External floating roof		13,020K gal 21,900K bbl/yr	Grandfathered Limit
702	Tank A-702, White Gasoline	External floating roof		5,502K gal 12,800K bbl/yr	Grandfathered Limit
705	Tank A-705, Light Green Crude Oil	External floating roof		9,366K gal 21,900K bbl/yr	Grandfathered Limit
706	Tank 113-A-706, Blue Crude Oil	External floating roof		4,746K gal 18,250K bbl/yr	Grandfathered Limit
707	Tank 113-A-707, Medium grey Crude Oil, Hydrocarbon	External floating roof		4,746K gal 18,250K bbl/yr	Grandfathered Limit

## II. Equipment

**Table II A1 - Permitted Sources – Golden Eagle Refinery  
 Plant #B2758 – Tesoro Refining and Marketing Company - Golden Eagle Refinery**

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 Conditions J.

S-#	Description	Make or Type	Model	Capacity	Grandfathered Limit, or Firm Limit and Basis
708	Tank 113-A-708, Blue Crude Oil	External floating roof		13,146K gal 21,900K bbl/yr	Grandfathered Limit
709	Tank 113-A-709, Green Crude Oil, Waste Oil	External floating roof		4,746K gal 18,250K bbl/yr	Grandfathered Limit
710	Tank A-710, Green Alkylate, Gasoline	External floating roof		3,360K gal 12,800K bbl/yr	Grandfathered Limit
711	Tank 80-A-711, Green Crude Oil, Gasoline	External floating roof		3,360K gal 12,800K bbl/yr	Grandfathered Limit
714	Tank A-714, White Organic Liquid – other/not Spec, Hydrocarbon Alkylation Spent Acid Abated by A-714 Scrubber A-14 Vapor Recovery	Fixed roof		231K gal 500K bbl/yr	Firm Limit Condition 8538, part 5 New Source Review
771	Tank 2-A-713, White DEA (Alcohol, Amine)	External floating roof		84K gal 17,520K bbl/yr	Grandfathered Limit
775	Tank A-849 Gasoline	Internal floating roof		4,605K gal 11,336,000 bbl/yr	Firm Limit Condition #19762, part A1 New Source Review
795	#3 Reformer V-307, Tan Perchloroethylene Abated by A-796 Vapor Balance during loading	Horizontal vessel, nitrogen blanketed pressure vessel		1.7K gal 11,000 gal/yr	Firm Limit Condition #5711, part 1 New Source Review
802	FCCU Fluid Catalytic Cracker Regenerator Abated by S-901 CO Boiler and A-30 ESP	Reactor UOP Riser Cracker Regenerator (Bechtel)		75K bbl/day 27,375K bbl/yr	Firm Emissions Limit 1994 Application 12722 Condition 11433 New Source Review



## II. Equipment

**Table II A1 - Permitted Sources – Golden Eagle Refinery  
 Plant #B2758 – Tesoro Refining and Marketing Company - Golden Eagle Refinery**

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 Conditions J.

S-#	Description	Make or Type	Model	Capacity	Grandfathered Limit, or Firm Limit and Basis
815	No. 1 Feed Prep Unit A-12 Vapor Recovery	Worthington		84K bbl/day 30,660K bbl/yr	Grandfathered Limit
816	No. 2 Feed Prep Unit A-12 Vapor Recovery	Elliott Co.		48K bbl/day 17,520K bbl/yr	Grandfathered Limit
817	No. 3 Crude Unit A-12 Vapor Recovery	Elliot Co.		63K bbl/day 22,995K bbl/yr	Firm Limit Condition #17837, part 1, part 2 New Source Review
819	API Oil-Water Separator/Dissolved Nitrogen Flotation System Abated by A-39 Thermal Oxidizer or A-14 Vapor Recovery	Bechtel		729K bbl/day 133,225K bbl/yr	Grandfathered Limit
821	Coke Storage Pile			7.2K ton/day 400K ton/yr	Grandfathered Limit
823	Heat Exchanger Cleaning Pit North [Tank M286]	Water Wash		10,000K gal/yr	Grandfathered Limit
824	Heat Exchanger Cleaning Pit South [Tank M287]	Water Wash and Diesel		1,008K gal/yr	Grandfathered Limit
825	DEA Regenerator			73k bbl/day 26,655k bbl/yr	Grandfathered Limit
830	Wastewater Surge Ponds			2,400K bbl/day 46,000K bbl/yr	Grandfathered Limit
831	Bio-Oxidation Pond Open pond			2,400K bbl/day 133,225K bbl/yr	Grandfathered Limit
842	Wastewater Treatment Plant Clarifiers, filters, and granular activated carbon	Jacobs Engineering Co.		2,400K bbl/day 133,225K bbl/yr	Grandfathered Limit
846	No. 3 HDS Cooling Tower	Marley Sigma	126-104	17,462K gal/day 6,374,000K gal/yr	Grandfathered Limit

## II. Equipment

**Table II A1 - Permitted Sources – Golden Eagle Refinery**

**Plant #B2758 – Tesoro Refining and Marketing Company - Golden Eagle Refinery**

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 Conditions J.

S-#	Description	Make or Type	Model	Capacity	Grandfathered Limit, or Firm Limit and Basis
850	No. 3 HDS Unit	Union Finer		70K bbl/day 25550K bbl/yr	Firm Limit Condition # 8077, part B6B New Source Review
851	Ammonia Recovery Unit			Ammonia Production 77 short tons/day 22,264 tons/yr	Grandfathered Limit
854	East Air Flare Vent Gas, Natural Gas Abates: See Note 1			1,900 mmbtu/hr 45,600 mmbtu/day	Firm limit 1981 Application 27769
856	Spare DEA Stripper			73k bbl/day 26,655k bbl/yr	Grandfathered Limit
871	Tank A-871 Crude, Low Sulfur Vacuum Gas Oil	External Floating Roof		13,146K gal 20,000K bbl/yr	Firm Limit Condition #21393, part 1 New Source Review
896	Tank A-896, Off-white, Slop oil	External Floating Roof		1805K gal 2,500K bbl/yr	Firm Limit Condition 23263, part 1 New Source Review
901	No. 7 Boiler Refinery Fuel Gas, FCCU Flue Gas Abates: S802	CO Boiler		668 mmbtu/hr 5,851,680 mmbtu/yr	Grandfathered Limit
902	FCCU Startup Heater, (Startup use only) Refinery Fuel Gas, Natural Gas	Peabody Horizontal Air Heater;	M-20 burner	85 mmbtu/hr 14,280 mmbtu/yr	Grandfathered Limit

## II. Equipment

**Table II A1 - Permitted Sources – Golden Eagle Refinery**

**Plant #B2758 – Tesoro Refining and Marketing Company - Golden Eagle Refinery**

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S-#	Description	Make or Type	Model	Capacity	Grandfathered Limit, or Firm Limit and Basis
904	No. 6 Boiler Refinery Fuel Gas	Riley Stoker		775 mmbtu/hr 6,789,000 mmbtu/yr	Grandfathered Source Firm Limit Condition #17322, part 1
908	No. 3 Crude Heater (F8) Natural Gas, Refinery Fuel Gas Abated by A-908 SCR	Alco	Cabin	220 mmbtu/hr 1,927,200 mmbtu/yr	Grandfathered Source Firm Limit Condition 25476, part 5 Condition #16685, part 1
909	No. 1 Feed Prep Heater (F9) Refinery Fuel Gas, Natural Gas	Alco	Cabin	145 mmbtu/hr 1,036,600 mmbtu/yr	Firm Limit Condition #25161, Part 1 Condition #16685, part 1
912	No. 1 Feed Prep Heater (F12) Refinery Fuel Gas, Natural Gas	Born	Box	135 mmbtu/hr 1,162,608 mmbtu/yr	Firm Limit Condition #25161, Part 1 Condition #16685, part 1 Condition #18372, part 3
913	No. 2 Feed Prep Heater (F13) Refinery Fuel Gas, Natural Gas	Petro Chem	Vertical Cylindrical	59 mmbtu/hr 516,840 mmbtu/yr	Firm Limit Condition #16685, part 1 Condition #18372, part 3

## II. Equipment

**Table II A1 - Permitted Sources – Golden Eagle Refinery**

**Plant #B2758 – Tesoro Refining and Marketing Company - Golden Eagle Refinery**

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 Conditions J.

S-#	Description	Make or Type	Model	Capacity	Grandfathered Limit, or Firm Limit and Basis
915	Platformer Intermediate Heater (F15) Refinery Fuel Gas, Natural Gas	Braun	Cabin	50 mmbtu/hr 438,000 mmbtu/yr	Firm Limit 1991 Application 6468 New Source Review Condition #8350, part C5 Condition #16685, part 1
916	No. 1 HDS Heater (F16) Natural Gas, Refinery Fuel Gas	Braun	Cabin	55 mmbtu/hr 481,800 mmbtu/yr	Firm Limit 1991 Application 6468 New Source Review Condition #8350, part A5 Condition #16685, part 1 Condition #18372, part 3
917	No. 1 HDS Prefract Reboiler (F17) Refinery Fuel Gas, Natural Gas	Industrial Engineers	Vertical Cylindrical	18 mmbtu/hr 157,680 mmbtu/yr	Firm Limit 1987 Application 164 New Source Review Condition #8350, part A6 Condition #16685, part 1

## II. Equipment

**Table II A1 - Permitted Sources – Golden Eagle Refinery**

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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 pursuant to 2-1-301. Throughput limits function as reporting thresholds as described in Standard Conditions J.

S-#	Description	Make or Type	Model	Capacity	Grandfathered Limit, or Firm Limit and Basis
919	No. 2 HDS Depent Reboiler (F19) Refinery Fuel Gas, Natural Gas	Foster Wheeler	Cabin	111 mmbtu/hr 972,360 mmbtu/yr	Firm Limit 1991 Application 6468 New Source Review Condition #8350, part B5 Condition #16685, part 1 Condition #18372, part 3
920	No. 2 HDS Charge Heater (F20) Refinery Fuel Gas, Natural Gas	Foster Wheeler	Cabin	63 mmbtu/hr 551,880 mmbtu/yr	Firm Limit 1991 Application 6468 New Source Review Condition #8350, Part B6 Condition #16685, part 1 Condition #18372, part 3

## II. Equipment

**Table II A1 - Permitted Sources – Golden Eagle Refinery**

**Plant #B2758 – Tesoro Refining and Marketing Company - Golden Eagle Refinery**

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 Conditions J.

S-#	Description	Make or Type	Model	Capacity	Grandfathered Limit, or Firm Limit and Basis
921	No. 2 HDS Charge Heater (F21) Refinery Fuel Gas, Natural Gas	Foster Wheeler	Cabin	63 mmbtu/hr 551,880 mmbtu/yr	Firm Limit 1991 Application 6468 New Source Review Condition #8350, part B7 Condition #16685, part 1 Condition #18372, part 3
922	No. 5 Gas Debutanizer Reboiler (F22) Refinery Fuel Gas, Natural Gas	Petro Chem	Vertical Cylindrical	130 mmbtu/hr 1,138,800 mmbtu/yr	Firm Limit Condition #16685, part 1 Condition #18372, part 3
926	No. 2 Reformer Splitter Reboiler(F26) Refinery Fuel Gas, Natural Gas	Petro Chem	Vertical Cylindrical	130 mmbtu/hr 1,138,800 mmbtu/yr	Grandfathered Source Firm LimitCondition #25476, Part 6 Condition #16685, part 1 Condition #18372, part 3
927	No. 2 Reformer Heat/Reheating (F27) Refinery Fuel Gas, Natural Gas Abated by A-1431 SCR	Lummus	Multicell Cabin	280 mmbtu/hr 2,452,800 mmbtu/yr	Firm Limit Condition #16685, part 1 Condition #18372, part 3

## II. Equipment

**Table II A1 - Permitted Sources – Golden Eagle Refinery**

**Plant #B2758 – Tesoro Refining and Marketing Company - Golden Eagle Refinery**

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 Conditions J.

S-#	Description	Make or Type	Model	Capacity	Grandfathered Limit, or Firm Limit and Basis
928	HDN Reactor A Heater (F28) Refinery Fuel Gas, Natural Gas	Foster Wheeler	Cabin	20 mmbtu/hr 175,200 mmbtu/yr	Firm Limit 1987 Application 548 New Source Review Condition #8077, part C3 Condition #16685, part 1
929	HDN Reactor B Heater (F29) Refinery Fuel Gas, Natural Gas	Foster Wheeler	Cabin	20 mmbtu/hr 175,200 mmbtu/yr	Firm Limit 1987 Application 548 New Source Review Condition #8077, part C3 Condition #16685, part 1
930	HDN Reactor C Heater (F30) Refinery Fuel Gas, Natural Gas	Foster Wheeler	Cabin	20 mmbtu/hr 175,200 mmbtu/yr	Firm Limit 1987 Application 548 New Source Review Condition #8077, part C3 Condition #16685, part 1

## II. Equipment

**Table II A1 - Permitted Sources – Golden Eagle Refinery**

**Plant #B2758 – Tesoro Refining and Marketing Company - Golden Eagle Refinery**

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 Conditions J.

S-#	Description	Make or Type	Model	Capacity	Grandfathered Limit, or Firm Limit and Basis
931	Hydrocracker Reactor 1 Heater (F31) Refinery Fuel Gas, Natural Gas	Foster Wheeler	Cabin	20 mmbtu/hr 175,200 mmbtu/yr	Firm Limit 1987 Application 548 New Source Review Condition #8077, part C3 Condition #16685, part 1
932	Hydrocracker Reactor 2 Heater (F32) Refinery Fuel Gas, Natural Gas	Foster Wheeler	Cabin	20 mmbtu/hr 175,200 mmbtu/yr	Firm Limit 1987 Application 548 New Source Review Condition #8077, part C3 Condition #16685, part 1
933	Hydrocracker Reactor 3 Heater (F33) Refinery Fuel Gas, Natural Gas	Foster Wheeler	Cabin	20 mmbtu/hr 175,200 mmbtu/yr	Firm Limit 1987 Application 548 New Source Review Condition #8077, part C3 Condition #16685, part 1



## II. Equipment

**Table II A1 - Permitted Sources – Golden Eagle Refinery**

**Plant #B2758 – Tesoro Refining and Marketing Company - Golden Eagle Refinery**

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 Conditions J.

S-#	Description	Make or Type	Model	Capacity	Grandfathered Limit, or Firm Limit and Basis
934	Hydrocracker Stabilizer Reboiler (F34), Refinery Fuel Gas, Natural Gas	Foster Wheeler	Vertical Cylindrical	135 mmbtu/hr 1,182,600 mmbtu/yr	Firm Limit 1987 Application 548 New Source Review Condition #8077, part C4 Condition #16685, part 1
935	Hydrocracker Splitter Reboiler (F35), Refinery Fuel Gas, Natural Gas	Foster Wheeler	Vertical Cylindrical	135 mmbtu/hr 1,182,600 mmbtu/yr	Firm Limit 1987 Application 548 New Source Review Condition #8077, part C4 Condition #16685, part 1
937	Hydrogen Plant Heater (F37) Refinery Fuel Gas, Natural Gas	Selas	Twin Cell Reformer	743 mmbtu/hr 6,508,680 mmbtu/yr	Firm Limit Condition #16685, part 1
943	Tank A-691 Safety Flare Natural Gas, Butane (Process Gas) Abates: S691 See Note 2.			2,500,000 mmbtu/hr 60,000,000 mmbtu/day	Grandfathered Limit
944	North Steam Flare Natural Gas, Vent Gas Abates: See Note 1			2,700 mmbtu/hr 64,800 mmbtu/day	Grandfathered Limit
945	South Steam Flare Natural Gas, Vent Gas Abates: See Note 1			2,700 mmbtu/hr 64,800 mmbtu/day	Grandfathered Limit

## II. Equipment

**Table II A1 - Permitted Sources – Golden Eagle Refinery  
 Plant #B2758 – Tesoro Refining and Marketing Company - Golden Eagle Refinery**

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 Conditions J.

S-#	Description	Make or Type	Model	Capacity	Grandfathered Limit, or Firm Limit and Basis
950	50 Unit Crude Heater (F50) Refinery Fuel Gas, Natural Gas Abated by A-1432 SCR Abates: S-606; S-607	Alcorn	Box	440 mmbtu/hr 3,417,495 mmbtu/yr	Firm Limit Condition #25161, Part 1 Condition #16685, part 1 Condition #18372, part 3
951	No. 2 Reformer Aux Reheater (F51) Refinery Fuel Gas, Natural Gas	Optimized Process Furnaces	Cabin	30 mmbtu/hr 131,400 mmbtu/yr	Firm Limit Condition #16685, part 1
952	Internal Combustion Engine No. 1 Gas Plant Vapor Compressor No. 4023 Natural Gas Abated by A-952 NSCR	Ingersoll-Rand spark ignition 4 stroke, Rich Burn Engine	SVG-8	9580 in <sup>3</sup> displacement, 300 HP 3 mmbtu/hr 26,280 mmbtu/yr	Grandfathered Limit
953	Internal Combustion Engine No. 1 Gas Plant Vapor Compressor No. 4024 Natural Gas Abated by A-953 NSCR	Ingersoll-Rand spark ignition 4 stroke, Rich Burn Engine	SVG-8	9580 in <sup>3</sup> displacement, 300 HP 3 mmbtu/hr 26,280 mmbtu/yr	Grandfathered Limit
954	Internal Combustion Engine No. 1 Gas Plant Vapor Compressor No. 4025 Natural Gas Abated by A-954 NSCR	Ingersoll-Rand spark ignition 4 stroke, Rich Burn Engine	SVG-8	9580 in <sup>3</sup> displacement, 300 HP 3 mmbtu/hr 26,280 mmbtu/yr	Grandfathered Limit
955	Internal Combustion Engine, No. 4 Gas Plant Vapor Compressor No. 4064 Natural Gas Abated by A-955 SCR	Clark, spark ignition 2 stroke, Lean Burn Engine	HRA-8	17200 in <sup>3</sup> displacement 880 BHP 7.1 mmbtu/hr 61,685 mmbtu/yr	Grandfathered Limit

## II. Equipment

**Table II A1 - Permitted Sources – Golden Eagle Refinery  
 Plant #B2758 – Tesoro Refining and Marketing Company - Golden Eagle Refinery**

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S-#	Description	Make or Type	Model	Capacity	Grandfathered Limit, or Firm Limit and Basis
956	Internal Combustion Engine No. 4 Gas Plant Vapor Compressor No. 4065 Natural Gas Abated by A-956 SCR	Clark, spark ignition 2 stroke, Lean Burn Engine	HRA-8	17200 in <sup>3</sup> displacement 880 BHP 7.1 mmbtu/hr 61,685 mmbtu/yr	Grandfathered Limit
957	Internal Combustion Engine No. 4 Gas Plant Vapor Compressor NO. 4066 Natural Gas Abated by A-957 SCR	Clark, spark ignition 2 stroke, Lean Burn Engine	HRA-8	17200 in <sup>3</sup> displacement 880 BHP 7.1 mmbtu/hr 61,685 mmbtu/yr	Grandfathered Limit
958	Internal Combustion Engine No. 4 Gas Plant Vapor Compressor No. 4067 Natural Gas Abated by A-958 SCR	Clark, spark ignition 2 stroke, Lean Burn Engine	HRA-8	17200 in <sup>3</sup> displacement 880 BHP 7.1 mmbtu/hr 61,685 mmbtu/yr	Grandfathered Limit
959	Internal Combustion Engine No. 4 Gas Plant Vapor Compressor No. 4068 Natural Gas Abated by A-959 SCR	Clark, spark ignition 2 stroke, Lean Burn Engine	HRA-8	17200 in <sup>3</sup> displacement 880 BHP 7.1 mmbtu/hr 61,685 mmbtu/yr	Grandfathered Limit
960	Internal Combustion Engine No. 4 Gas Plant Vapor Compressor No. 4096 Natural Gas Abated by A-960 SCR	Clark, spark ignition 2 stroke, Lean Burn Engine	HRA-6	12900 in <sup>3</sup> displacement 660 BHP 5.3 mmbtu/hr 46,428 mmbtu/yr	Grandfathered Limit
963	Gas Turbine 177 [Alkylation Plant] Natural Gas Abated by A-963 Steam Injection System	General Electric	Frame 3	8450 HP (6.3MW) 113 mmbtu/hr 989,880 mmbtu/yr	Grandfathered Limit

## II. Equipment

**Table II A1 - Permitted Sources – Golden Eagle Refinery**

**Plant #B2758 – Tesoro Refining and Marketing Company - Golden Eagle Refinery**

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S-#	Description	Make or Type	Model	Capacity	Grandfathered Limit, or Firm Limit and Basis
971	No. 3 Reformer UOP Furnace (F53) Refinery Fuel Gas, Natural Gas Abated by A-1433 SCR. A-1433 vents to combined stack with S-972	KTI	Box	300 mmbtu/hr 2,628,000 mmbtu/yr	Firm Limit Condition 25476, Part 3New Source Condition #16685, part 1 Condition #18372, part 3
972	No. 3 Reformer Debutanizer Reboiler (F54) Refinery Fuel Gas, Natural Gas S-972 shares stack with S-971, but flue gas from S-972 is not abated by A1433.	Foster Wheeler / KTI	Vertical Cylindrical	45 mmbtu/hr 394,200 mmbtu/yr	Firm Limit Condition 25476, Part 4 New Source Condition #16685, part 1 Condition #18372, part 3
973	No. 3 HDS Recycle Gas Heater (F55) Refinery Fuel Gas, Natural Gas Abated by A-31 SCR on combined stack (P79) with S-974	Entec	Vertical Cylindrical	110 mmbtu/hr 963,600 mmbtu/yr	Firm Limit Conditions #8077, Part B7B #16685, part 1
974	No. 3 HDS Fract Feed Heater (F56) Refinery Fuel Gas, Natural Gas Abated by A-31 SCR on combined stack (P79) with S-973	Entec	Vertical Cylindrical	55 mmbtu/hr 481,800963,600 mmbtu/yr	Firm Limit Conditions #8077, Part B7B #16685, part 1
975	No. 4 Gas Plant Cooling Tower	Marley	13-24A	99,360K gal/day 36,266,400K gal/yr	Firm Limit Condition #19199,part D1 New Source Review
976	No. 5 Gas Plant Cooling Tower	Marley	11-24-F5	108,000K gal/day 39,420,000K gal/yr	Grandfathered Limit
977	No. 3 Crude Unit Cooling Tower	Fluor	270-5811	31,680K gal/day 11,563,200K gal/yr	Grandfathered Limit

## II. Equipment

**Table II A1 - Permitted Sources – Golden Eagle Refinery  
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S-#	Description	Make or Type	Model	Capacity	Grandfathered Limit, or Firm Limit and Basis
978	Foul Water Stripper Cooling Tower	Fluor	JCF-2164-23048AL P-SP	5,904K gal/day 2,154,960K gal/yr	Grandfathered Limit
979	No. 2 Feed Prep Cooling Tower	Fluor	2NDA-164-2430-AALP-SP	21,600K gal/day 7,884,000K gal/yr	Grandfathered Limit
980	Hydrocracker Cooling Tower	Fluor	3F60D-164V-3030BPF	17,280K gal/day 6,307,200K gal/yr	Grandfathered Limit
981	No. 1 HDS Cooling Tower	Fluor	3NDA 184 30x36 CC	20,160K gal/day 7,358,400K gal/yr	Grandfathered Limit
982	No. 2 HDS Cooling Tower	Pritchard	4-3042LA1 8	25,920K gal/day 9,460,800K gal/yr	Firm Limit Condition# 19199, part E1 New Source Review
983	Alky/No. 2 Reformer Cooling Tower	Fluor	4FPA 1204-3042AAL P	50269K gal/day 18,348,170K gal/yr	Grandfathered Limit
985	No. 1 Gas Plant Cooling Tower	Fluor	2NDD-144-2430	23,040K gal/day	Grandfathered Limit
987	No. 50 Unit Cooling Tower	Marley	3-24-AAD-F-15000	21,600K gal/day 7,884,000K gal/yr	Grandfathered Limit
988	No. 3 Reformer Cooling Tower			14,400K gal/day 5,256,000K gal/yr	Grandfathered Limit
990	Rich DEA Tank Tank 749, Green Abated by A-1526 packed bed scrubber and A-1525 SRU Stack Incinerators	Fixed Roof		88,200 gallons 5x10 <sup>9</sup> gal/yr	Grandfathered Limit

## II. Equipment

**Table II A1 - Permitted Sources – Golden Eagle Refinery  
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S-#	Description	Make or Type	Model	Capacity	Grandfathered Limit, or Firm Limit and Basis
992	Emergency Flare Natural Gas, Vent Gas Abates: See Note 1			13,200 mmbtu/hr 316,800 mmbtu/day	Firm Limit 1982 Application 28626 New Source Review
1001	No. 50 Crude Unit			120K bbl/day 40,880K bbl/yr	Grandfathered Limit
1002	No. 1 HDS Unit			28K bbl/day 10,220K bbl/yr	Firm Limit Condition #8350, part A1 New Source Review
1003	No. 2 HDS Unit			40K bbl/day 14,600K bbl/yr	Firm Limit Condition #8350, part B1 New Source Review
1004	No. 2 Catalytic Reformer			23.0K bbl/day 8,395K bbl/yr	Grandfathered Limit
1005	No. 1 Hydrogen Plant	Bechtel/Parsons		Hydrogen Production 93 mmscf/day 31,025 mmscf/yr	Firm Limit Condition 24321, Part 1
1006	No. 1 HDA Unit			20K bbl/day 7300K bbl/yr	Firm Limit Condition #8350, part C1 New Source Review
1007	Hydrocracker Unit [Hydrocracker 2 <sup>nd</sup> Stage]			37K bbl/day 12,775K bbl/yr	Firm Limit Condition #8077, Part C1 New Source Review

## II. Equipment

**Table II A1 - Permitted Sources – Golden Eagle Refinery  
 Plant #B2758 – Tesoro Refining and Marketing Company - Golden Eagle Refinery**

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S-#	Description	Make or Type	Model	Capacity	Grandfathered Limit, or Firm Limit and Basis
1008	Hydrocracker Unit [Hydrocracker 1 <sup>st</sup> Stage]			37K bbl/day 12,775K bbl/yr	Firm Limit Condition #8077, Part C1 New Source Review
1009	Alkylation Unit			Alkylate Production 22.3K bbl/day 8,134K bbl/yr	Firm Limit Application 10912 New Source Review
1012	West Air Flare Process Gas, Natural Gas Abates: See Note 1			2,755 mmbtu/hr 66,120 mmbtu/day	Grandfathered Limit
1013	Ammonia Plant Flare Natural Gas, Vent Gas Abates: S825 S851, S856, S1401, A1402 See Note 3	John Zink		2,670 mmbtu/hr 64,080 mmbtu/day	Firm Limit. 1983 Application 29050
1020	No. 3 UOP Reformer			26.0K bbl/day 9,490K bbl/yr	Firm Limit Condition 25476 Part 1 New Source Review
1025	Bulk Plant; Bottom Loading Facilities, Gasoline, Naphtha, Kerosene, Diesel, Fuel Oil A-14 Vapor Recovery	Oilco		18,615K bbl/yr 64,457 bbl/day	Firm Limit Condition #21849, part 9
1026	DNF Effluent Air Stripper Abated by A-39 Thermal Oxidizer			0.48 ton/day 175.2 ton/yr	New Source Review

## II. Equipment

**Table II A1 - Permitted Sources – Golden Eagle Refinery  
 Plant #B2758 – Tesoro Refining and Marketing Company - Golden Eagle Refinery**

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 Conditions J.

S-#	Description	Make or Type	Model	Capacity	Grandfathered Limit, or Firm Limit and Basis
1038	Benzene Saturation Unit			15,000 bbl/day 5,475 K bbl/yr	Firm Limit Condition #23258, part 1 New Source Review
1040	Butadiene Plant			12,000 bbl/day 4,380K bbl/yr	Grandfathered Limit
1101	Subsurface Aerator System [at Tract 3 West Canal]			4.56 mmscf/day 1,664.4 mmscf/yr	Grandfathered Limit
1102	Subsurface Aerator System [at Tract 3 North Pond]			1.152 mmscf/day 420.5 mmscf/yr	Grandfathered Limit
1103	Subsurface Aerator System [at Clean Canal Forebay]			1.152 mmscf/day 420.5 mmscf/yr	Grandfathered Limit
1104	Subsurface Aeration System [at Oily Canal]			1.152 mmscf/day 420.5 mmscf/yr	Grandfathered Limit
1105	No. 4 HDS Unit			40080 BPD 14,629,200 BPY	Firm Limit Condition #19199, Part G0 New Source Review
1106	No. 4 HDS Reactor Feed Heater (F72), Natural Gas	Tulsa Heater	Two Vertical Cylindrical	30 mmbtu/hr (24-hour average) 225.257 mmscf/yr	Firm Limit Condition #19199, part H0, H3 New Source Review
1401	Sulfur Recovery Unit Abated by A-1402 SCOT Tail Gas Unit and A-1525 SRU Stack Incinerators	Claus	Modified 3-Stage	Sulfur Production 200 short ton/day 73,000 short ton/yr	Grandfathered Limit
1404	Sulfur Storage Tank A-756 Abated by A-1422 Venturi Scrubber	Fixed roof		1,200 ton/day 438,000 ton/yr	Grandfathered Limit



## II. Equipment

**Table II A1 - Permitted Sources – Golden Eagle Refinery  
 Plant #B2758 – Tesoro Refining and Marketing Company - Golden Eagle Refinery**

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 Conditions J.

S-#	Description	Make or Type	Model	Capacity	Grandfathered Limit, or Firm Limit and Basis
1405	Sulfur Collection Pit Abated by SRU (S1401) or SAP (S1411)			200 short ton/day 73,000 ton/yr	Grandfathered Limit
1411	Sulfuric Acid Mfg Plant Abated by A-1403 Mist Eliminator Abated by A-1417 Dual Absorption Abated by A-1421 Mist Eliminator			Sulfuric Acid Production 480 ton/day 175,200 ton/yr	Grandfathered Limit
1412	Sulfuric Acid Mfg Plant Startup Heater (Startup Use Only) Natural Gas, Refinery Fuel Gas			17.1 mmbtu/hr 9000 mmbtu/yr	Firm Limit Condition 25846 Part 2 New Source Review
1413	SAP: No. 1 Oleum Tank A-763 Abated by A-1404 Mist Eliminator	Fixed roof		1,202.4 ton/day 438,876 ton/yr	Grandfathered Limit
1414	SAP: No. 2 Oleum Tank A-753 Abated by A-1404 Mist Eliminator	Fixed roof		1,202.4 ton/day 438,876 ton/yr	Grandfathered Limit
1415	SAP: H2SO4 Loading Dock Abated by A-1404 Mist Eliminator			1,728 ton/day 7,000 ton/yr	Grandfathered Limit
1416	SAP: No. 1 Spent Acid Tank A-746 Abated by A-1525 SRU Stack Incinerators	Fixed roof		6,257K bbl/yr	Grandfathered Limit
1418	Rich DEA Tank A-750 Abated by A-1418 Packed Bed Scrubber and Abated by A-1525 SRU Stack Incinerators	Fixed roof		73K bbl/day 26,655K bbl/yr	Grandfathered Limit

## II. Equipment

**Table II A1 - Permitted Sources – Golden Eagle Refinery**

**Plant #B2758 – Tesoro Refining and Marketing Company - Golden Eagle Refinery**

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 Conditions J.

S-#	Description	Make or Type	Model	Capacity	Grandfathered Limit, or Firm Limit and Basis
1421	Sour Water Feed Tank A-757 Ammonia Recovery Unit Feed Tank	External floating roof		2,490K bbl/yr	Firm Limit Condition #13282, Part 1 New Source Review
1422	Sour Water Feed Tank M-782 Ammonia Recovery Unit Feed Tank	External floating roof		4,270.5K bbl/yr	Grandfathered Limit
1452	Hydrocarbon Recovery System, 39 light hydrocarbon pumps, 13 heavy hydrocarbon pump			5,000K bbl/yr	Firm Limit Condition 9875, part 6 New Source Review
1461	Tank A-866, White Crude Oil	External floating roof		10,080K gal 50,000,000 bbl/yr	Firm Limit Condition #17477, part A1 New Source Review
1463	Tank A-867, Silver Crude Oil, HDS Gas Oil	External floating roof		10,080K gal 50,000,000 bbl/yr	Firm Limit Condition #17477, part C1 New Source Review
1464	Tank A-868, Off-white Diesel, Jet A, Kerosene	External floating roof		4,200K gal 10,000,000 bbl/yr	Firm Limit Condition #17477, part D1 New Source Review

## II. Equipment

**Table II A1 - Permitted Sources – Golden Eagle Refinery**

**Plant #B2758 – Tesoro Refining and Marketing Company - Golden Eagle Refinery**

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 Conditions J.

S-#	Description	Make or Type	Model	Capacity	Grandfathered Limit, or Firm Limit and Basis
1465	Tank A-869, Off-white Jet A, Diesel, Kerosene	External floating roof		4,200K gal 10,000,000 bbl/yr	Firm Limit Condition #17477, part E1 New Source Review
1469	Avon Wharf Fire Water Pump Engine; Diesel Fired	Cummins	NTA855C	400 HP, 34 hrs/yr	Firm Limit Condition #22851 part 1
1470	No. 3 Crude Vacuum Distillation Heater (F71) Refinery Fuel Gas, Natural Gas Abated by A-908 SCR			30 mmbtu/hr 262,800 mmbtu/yr	Firm Limit Condition #18539, part 9 New Source Review
1471	Landsend Fire Water Pump Engine; Diesel Fired	Cummins	N855P23 5	130 HP, 34 hrs/yr	Firm Limit Condition #22851, part 1
1472	Tract 4 North Fire Water Pump Engine; Diesel Fired	Caterpillar	3406BD1	430 HP, 34 hrs/yr	Firm Limit Condition #22851, part 1
1473	Storage Tank Ethyl Mercaptan Odorant	Pressurized tank		1000 gal 3000 gal/rolling 12-months	Firm Limit Condition #19197, part 2 New Source Review
1475	Trailer 1 Fire Water Pump Engine; Diesel Fired; Portable	Caterpillar	3408 DI	503 HP, 34 hrs/yr	Firm Limit Condition #18947 Condition #22851, part 1

## II. Equipment

**Table II A1 - Permitted Sources – Golden Eagle Refinery**

**Plant #B2758 – Tesoro Refining and Marketing Company - Golden Eagle Refinery**

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 Conditions J.

S-#	Description	Make or Type	Model	Capacity	Grandfathered Limit, or Firm Limit and Basis
1476	Trailer 4 Fire Water Pump Engine; Diesel Fired; Portable	Caterpillar	3408 DI	503 HP, 34 hrs/yr	Firm Limit Condition #18947 Condition # 22851, part 1
1484	Oil Water Separator; Pressure Vessel, 50 Unit Desalter Brine A-14 Vapor Recovery			1350 Gallons Desalter Brine Throughput 286 bbl/hr 2505K bbl/yr	Firm Limit Condition #19762, part B1 New Source Review
1485	Tank A-870 Gasoline Blending Components (heavy cracked naphtha, cat cracked heavy naphtha, heavy naphtha reformate, heavy catalytic reformed naphtha, medium reformate fractionator bottoms, stabilized reformate, FCC gasoline)	Floating Roof Tank		130K bbl 11,000K bbl/yr	Firm Limit Condition #20520, part 1 New Source Review
1487	Tank 38 Fire-Water Pump Engine, Diesel Fired	Caterpillar	3406 DBITA	2.79 MMBtu/hr, 420 HP, 34 hrs/yr	Firm Limit Condition # 22851, part 1 New Source Review
1488	Canal Fire-Water Pump Engine, Diesel Fired	Caterpillar	3412T	3.5 MMBtu/hr, 538 HP, 34 hrs/yr	Firm Limit Condition #22851, part 1 New Source Review

## II. Equipment

**Table II A1 - Permitted Sources – Golden Eagle Refinery**

**Plant #B2758 – Tesoro Refining and Marketing Company - Golden Eagle Refinery**

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 Conditions J.

S-#	Description	Make or Type	Model	Capacity	Grandfathered Limit, or Firm Limit and Basis
1489	Fixed Volume Portable Tank #1, White, Slop Oil and Water Mixture Abated by A-1001 Activated Carbon Abated by A-1002 Activated Carbon	Portable, fixed volume	Safety-Vapor	500 bbl 13,000 bbl/yr	Firm Limit Condition #21536, part 1 New Source Review
1490	Fixed Volume Portable Tank #2, White, Slop Oil and Water Mixture Abated by A-1001 Activated Carbon Abated by A-1002 Activated Carbon	Portable, fixed volume	Safety-Vapor	500 bbl 13,000 bbl/yr	Firm Limit Condition #21536, part 2 New Source Review
1491	Fixed Volume Portable Tank #3, White, Slop Oil and Water Mixture Abated by A-1001 Activated Carbon Abated by A-1002 Activated Carbon	Portable, fixed volume	Safety-Vapor	500 bbl 13,000 bbl/yr	Firm Limit Condition #21535, part 1 New Source Review
1496	Tank A-876 Heavy reformat with pentanes, straight run heavy naphtha A-14 Vapor Recovery	Fixed roof tank		80,000 barrels 2,500K barrels/yr	Firm Limit Condition #21100, part 1 New Source Review
1504	Bulk Plant Unloading Rack, 2 pumps Ethanol			1,200K bbl/12 consecutive months	Firm Limit Condition #21849, part 13 New Source Review

## II. Equipment

**Table II A1 - Permitted Sources – Golden Eagle Refinery**

**Plant #B2758 – Tesoro Refining and Marketing Company - Golden Eagle Refinery**

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 Conditions J.

S-#	Description	Make or Type	Model	Capacity	Grandfathered Limit, or Firm Limit and Basis
1506	Tank A-893 Gasoline, Gasoline Blending Stock	External Floating Roof Tank		132,000 barrels 11,000K barrels/yr	Firm Limit Condition #22640, part 1 New Source Review
1507	Tank A-894 Gasoline, Gasoline Blending Stock	External Floating Roof Tank		132,000 barrels 11,000K barrels/yr	Firm Limit Condition #22640, part 1 New Source Review
1508	Tank A-906 Avon Wharf Recovered Oil Tank, Berth 1	Fixed Roof Tank		1,250 gallons 1,689K barrels/yr combined limit for S1508 and S1509	Firm Limit Condition #23486, part 1 New Source Review
1509	Tank A-907 Avon Wharf Recovered Oil Tank, Berth 5	Fixed Roof Tank		1,250 gallons 1,689K barrels/yr combined limit for S1508 and S1509	Firm Limit Condition #23486, part 1 New Source Review
1510	Delayed Coker			55.0K bbl/day 20,075K bbl/12 consecutive months	Firm Limit Condition #23129, part 3 New Source Review
1511	Delayed Coker Heater #1 (F78) Natural gas, Refinery fuel gas Abated by A-1511 SCR	John Zink, ultra- low-NOx, or equivalent		230 mmbtu/hr 2,014,800 MMbtu/ consecutive 12 months combined limit for fuel gas and natural gas	Firm Limit Condition #23129, part 14 New Source Review

## II. Equipment

**Table II A1 - Permitted Sources – Golden Eagle Refinery**

**Plant #B2758 – Tesoro Refining and Marketing Company - Golden Eagle Refinery**

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 Conditions J.

S-#	Description	Make or Type	Model	Capacity	Grandfathered Limit, or Firm Limit and Basis
1512	Delayed Coker Heater #2 (F79) Natural gas, Refinery fuel gas Abated by A-1512 SCR	John Zink, ultra-low-NOx, or equivalent		230 mmbtu/hr 2,014,800 MMbtu/ consecutive 12 months combined limit for fuel gas and natural gas	Firm Limit Condition #23129, part 14 New Source Review
1513	Coke Screen/Crusher			1,277,500 wet tons/ consecutive 12 months	Firm Limit Condition #23129, part 29 New Source Review
1514	Coke Silo#1 Abated by A-1514 Baghouse	Columbian Tec Tank		1,277,500 wet tons/ consecutive 12 months combined limit for S- 659, S-660, S-1514, & S-1515 (in delayed coke service)	Firm Limit derived from Condition #23129, parts 29 & 44 New Source Review
1515	Coke Silo#2 Abated by A-1515 Baghouse	Columbian Tec Tank		1,277,500 wet tons/ consecutive 12 months combined limit for S- 659, S-660, S-1514, & S-1515 (in delayed coke service)	Firm Limit derived from Condition #23129, parts 29 & 44 New Source Review
1516	Coker Truck Loadout			1,277,500 wet tons/ consecutive 12 months	Firm Limit Condition #23129, part 44 New Source Review

## II. Equipment

**Table II A1 - Permitted Sources – Golden Eagle Refinery**

**Plant #B2758 – Tesoro Refining and Marketing Company - Golden Eagle Refinery**

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 Conditions J.

S-#	Description	Make or Type	Model	Capacity	Grandfathered Limit, or Firm Limit and Basis
1517	Coker Flare Natural gas, Vent gas Abates: See Note 1			24,500 mmbtu/hr 588,300 mmbtu/day  1.314 MMscf/ consecutive 12 months natural gas to flare pilots  8.585 MMscf / consecutive 12 months natural gas to flare purge	Firm Limits Conditions #23129, parts 53 & 56 New Source Review
1518	North Reservoir West Fire Water Pump Engine, Diesel Fired P10294, EN # 4146	Cummins	CFP11E- F20	360 BHP, 50 hrs/yr	Firm Limit Condition #23811, part 1 New Source Review
1519	North Reservoir East Fire Water Pump Engine, Diesel Fired, P10295, EN# 4147	Cummins	CFP11E- F20	360 BHP, 50 hrs/yr	Firm Limit Condition #23811, part 1 New Source Review
1521	Tank A-904	External floating roof		5,502 K gal 10,000K bbl/yr	Firm Limit Condition # 23739, part 1 New Source Review



## II. Equipment

**Table II A1 - Permitted Sources – Golden Eagle Refinery**

**Plant #B2758 – Tesoro Refining and Marketing Company - Golden Eagle Refinery**

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 Conditions J.

S-#	Description	Make or Type	Model	Capacity	Grandfathered Limit, or Firm Limit and Basis
1524	50 Unit Flare Natural gas, Vent gas Abates: See Note 4	Steam assisted		28,000 mmbtu/hr 672,000 mmbtu/day  3.942 MMscf/ consecutive 12 months natural gas to flare pilots  3.767 MMscf / consecutive 12 months natural gas to flare purge	Firm Limits Condition #24323 Parts 8 and 10 New Source Review
1525	Gasoline Dispensing Station, Non-Retail, 1 nozzle	Containment Solutions Hoover Vault Aboveground Fuelmaster UL- 2244 Tank with Phase I and Phase II vapor recovery (balance) Nozzle: EMCO Wheaton A-4015	System: CARB Executive Order G- 70-194 Nozzle: CARB Executive Order G- 70-52AM	5,000 gal tank 440K gal/year	Firm Limit Condition 24172 New Source Review
1526	No. 5 Gas Plant			3.46 MMscf/hr	Grandfathered Limit
1528	Alkylate Railcar Unloading Rack	Four unloading slots, 2 pumps,			New Source Review
1549	Tank 890 Diesel Additive Innospec OLI 9085.x	Horizontal Fixed Roof		6000 gallons 40,000 gal/rolling 12- months	Firm Limit Condition 24649, Part 1

## II. Equipment

**Table II A1 - Permitted Sources – Golden Eagle Refinery**

**Plant #B2758 – Tesoro Refining and Marketing Company - Golden Eagle Refinery**

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 Conditions J.

S-#	Description	Make or Type	Model	Capacity	Grandfathered Limit, or Firm Limit and Basis
1550	Backup Steam Boiler No. 1 Natural gas Abated by A1550 SCR	Rental (various)	Various	<= 99 MMBtu/hr	Firm Limit Condition 24491, Parts 1 & 3 New Source Review
1551	Backup Steam Boiler No. 2 Natural gas Abated by A1551 SCR	Rental (various)	Various	<= 99 MMBtu/hr	Firm Limit Condition 24491, Parts 1& 3 New Source Review
1552	No 1 Pump Station, Emergency Pump Diesel Engine	Caterpillar	C-7	205 BHP, 50 hrs/yr	Firm Limit Condition #23811, part 1 New Source Review
1553	Backup Steam Boiler No. 3 Natural gas Abated by A1551 SCR	Rental (various)	Various	<= 99 MMBtu/hr	Firm Limit Condition 24491, Parts 1& 3 New Source Review
1554	Tank A-943 High Sulfur Vacuum Gas Oil (HSVGO) Vacuum Gas Oil (VGO)	Fixed Roof Tank		67,145 barrels 10,000K barrels during any consecutive 12- months	Firm Limit Condition #25025, part 1 New Source Review

## II. Equipment

**Table II A1 - Permitted Sources – Golden Eagle Refinery  
 Plant #B2758 – Tesoro Refining and Marketing Company - Golden Eagle Refinery**

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 Conditions J.

S-#	Description	Make or Type	Model	Capacity	Grandfathered Limit, or Firm Limit and Basis
1555	Reformate Splitter			<u>40.0K bbl/day</u> <u>14.600K bbl/yr</u>	Firm Limit 1993 Application 10912 New Source Review <u>Condition</u> <u>#25476, Part 2</u>
1557	Emergency Generator, Diesel Fired, Central Maintenance Building	Caterpillar	C-15	762 BHP, 50 hrs/yr	Firm Limit Condition #22850, part 1 New Source Review

NOTE 1: THE MAIN REFINERY HYDROCARBON FLARES THAT REFERENCE THIS NOTE ARE OPERATED IN ACCORDANCE WITH THE REFINERY FLARE MINIMIZATION PLAN REQUIRED BY REGULATION 12, RULE 12. UNDER NORMAL OPERATION, REFINERY WASTE GAS FROM MOST PROCESS UNITS IS DISCHARGED INTO THE FLARE GAS RECOVERY HEADER WHERE IT IS GATHERED, COMPRESSED, AND DISCHARGED INTO THE REFINERY'S 100# FUEL GAS SYSTEM. IN THE 100# FUEL GAS SYSTEM, THE RECOVERED WASTE GAS IS TREATED AND COMBUSTED AT THE FUEL GAS COMBUSTION DEVICES IN THAT SYSTEM. UNDER NON-ROUTINE OPERATION, WHEN THE QUANTITY OF THE REFINERY WASTE GAS EXCEEDS THE CAPACITY OF THE FLARE GAS RECOVERY COMPRESSORS, OR WHEN THERE IS AN EVENT THAT AUTOMATICALLY OR MANUALLY VENTS EXCESS PROCESS GAS, THE GAS THAT IS NOT RECOVERED TO THE 100# FUEL GAS SYSTEM IS COMBUSTED IN THE FLARES. SOURCES THAT ARE VENTED TO THE FLARE GAS RECOVERY SYSTEM ARE PROCESS UNITS S802, S815, S816, S817, S850, S1001 (VIA A1524 VAPOR RECOVERY SYSTEM), S1002, S1003, S1004, S1005, S1006, S1007, S1008, S1009, S1020, S1038, S1105, S1510, TANKS S656 AND S658, AND THE AIR PRODUCTS No. 2 HYDROGEN PLANT. DURING NORMAL OPERATION, THE EMISSIONS FROM MANY OTHER REFINERY SOURCES SUCH AS TANKS, OIL WATER SEPARATORS, AND PRODUCT LOADING OPERATIONS ARE VENTED TO THE A-14 VAPOR RECOVERY SYSTEM AND ROUTED TO THE REFINERY'S 40# FUEL GAS SYSTEM WHERE THEY ARE COMBUSTED AT THE FUEL GAS COMBUSTION DEVICES IN THAT SYSTEM. UNDER NON-ROUTINE OPERATION, WHEN THE QUANTITY OF GAS EXCEEDS THE CAPACITY OF THE A-14 VAPOR RECOVERY SYSTEM COMPRESSORS, OR WHEN THERE IS AN EVENT THAT AUTOMATICALLY OR MANUALLY VENTS EXCESS PROCESS GAS, THE GAS THAT IS NOT RECOVERED TO THE 40# FUEL GAS SYSTEM IS VENTED TO THE REFINERY'S FLARE GAS RECOVERY SYSTEM HEADER WHERE IT IS MANAGED IN THE 100# FUEL GAS SYSTEM AS DISCUSSED ABOVE OR COMBUSTED IN THE FLARES. SOURCES THAT ARE VENTED TO THE A-14 VAPOR RECOVERY SYSTEM AND THE 40# FUEL GAS SYSTEM ARE S100, S532, S815, S816, S817, S819, S1006, S1007, S1008, S1020, S1025, S1484, S1510, S1526, TANKS S134, S137, S318, S323, S327, S367, S432, S603, S613, S656, S658, S699, S714, AND S1496. THESE FLARES ARE ABATEMENT DEVICES AS DEFINED IN REGULATION 1-240. HOWEVER, THESE FLARES ARE NOT CONTROL DEVICES THAT ARE USED TO MEET THE REQUIREMENTS OF 40 CFR 60, 40 CFR 61, OR 40 CFR 63 (NSPS, NESHAPS OR MACT) SINCE REFINERY WASTE GAS IS COMBUSTED IN THE FLARES ONLY DURING NON-ROUTINE OPERATION.

NOTE 2 – S943 OPERATION. S943 IS THE TANK 691 (REFRIGERATED BUTANE TANK S691) SAFETY FLARE. DURING ROUTINE OPERATION, THE BUTANE TANK IS ABATED BY A REFRIGERATION SYSTEM A21. A21 FUNCTIONS AS A FLARE GAS RECOVERY

## II. Equipment

SYSTEM AND CONTROLS THE TEMPERATURE AND THUS THE PRESSURE IN THE TANK TO MAINTAIN THE BUTANE AS A LIQUID AND PREVENT RELEASE OF BUTANE VAPOR. BUTANE IS ROUTED TO AND FLARED IN S943 ONLY DURING NON-ROUTINE OPERATIONS WHEN THE TEMPERATURE AND PRESSURE IN THE TANK INCREASES AND BUTANE VAPOR IS RELEASED.

NOTE 3 – S1013 OPERATION. THE AMMONIA PLANT FLARE IS OPERATED IN ACCORDANCE WITH THE REFINERY FLARE MINIMIZATION PLAN REQUIRED BY REGULATION 12, RULE 12. S1013 IS A SAFETY FLARE DEVICE FOR PRESSURE RELIEFS AND CONTROL VALVES FROM THE DEA REGENERATOR (S825), AMMONIA RECOVERY UNIT (S851), SPARE DEA STRIPPER (856), SCOT TAILGAS UNIT (A1402) AND SULFUR RECOVERY UNIT (SRU) (S1401). S1013 DOES NOT RECEIVE ANY VENT GAS GENERATED DURING ROUTINE OPERATION. THIS FLARE IS AN ABATEMENT DEVICE AS DEFINED IN REGULATION 1-240. HOWEVER, THIS FLARE IS NOT A CONTROL DEVICE THAT IS USED TO MEET THE REQUIREMENTS OF 40 CFR 60, 40 CFR 61, OR 40 CFR 63 (NSPS, NESHAPS OR MACT) SINCE REFINERY WASTE GAS IS COMBUSTED IN THE FLARE ONLY DURING NON-ROUTINE OPERATION.

NOTE 4 -- S1524 OPERATION. THE 50 UNIT FLARE (S1524) IS OPERATED IN ACCORDANCE WITH THE REFINERY FLARE MINIMIZATION PLAN REQUIRED BY REGULATION 12, RULE 12. UNDER NORMAL OPERATION, INCLUDING PLANNED STARTUP AND SHUTDOWN OPERATION, WASTE GAS FROM 50 UNIT (S1001) IS DISCHARGED INTO THE A1524 50 CRUDE UNIT VAPOR RECOVERY SYSTEM WHERE IT IS GATHERED, COMPRESSED, AND ROUTED TO THE WET GAS HEADER AT NO. 5 GAS PLANT (S1526), WHERE IT JOINS THE MAIN REFINERY FLARE GAS RECOVERY SYSTEM AND IS MANAGED AS DESCRIBED IN NOTE 1 ABOVE. UNDER NON-ROUTINE OPERATION, WHEN THE QUANTITY OF THE 50 UNIT (S1001) WASTE GAS EXCEEDS THE CAPACITY OF THE A1524 VAPOR RECOVERY SYSTEM, OR WHEN THERE IS AN EVENT THAT AUTOMATICALLY OR MANUALLY VENTS EXCESS PROCESS GAS FROM 50 UNIT, THE 50 UNIT WASTE GAS THAT IS NOT RECOVERED TO THE REFINERY'S MAIN FLARE GAS RECOVERY SYSTEM IS COMBUSTED IN THE 50 UNIT FLARE. THIS FLARE IS AN ABATEMENT DEVICE AS DEFINED IN REGULATION 1-240. HOWEVER, THIS FLARE IS NOT A CONTROL DEVICE THAT IS USED TO MEET THE REQUIREMENTS OF 40 CFR 60, 40 CFR 61, OR 40 CFR 63 (NSPS, NESHAPS OR MACT) SINCE REFINERY WASTE GAS IS COMBUSTED IN THE FLARE ONLY DURING NON-ROUTINE OPERATION.

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<b>Table II A2 – Permitted Sources</b> Amorco Terminal					
<p><b>Plant #B2759 – Tesoro Refining and Marketing Company – Amorco Terminal</b> 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 Conditions J.</p>					
S-#	Description	Make or Type	Model	Capacity	Grandfathered Limit, or Firm Limit and Basis
54	Amorco Wharf Slop Tank	Horizontal vessel		840 gal 375K bbl/yr	Grandfathered Limit
55	Amorco Terminal (New Wharf) Crude Oil, Diesel, Gas Oil, Naphtha, Kerosene, Fuel Oils Unloading Only			70,080K bbl/12 consecutive months crude oil	Grandfathered Source Firm Limit Condition #22455, part 8
57	Off-shore/Wharf Diesel Fire-Water Pump	Caterpillar	3412DIT	37.6 gal/hr, 700 hp, 50 hrs/yr	Firm Limit Condition #23811 part 1 New Source Review
58	Amorco Wharf Emergency Standby IC Engine Generator Set; Diesel Fired	Caterpillar	C9,ATAAC	15.4 gal/hr, 312 hp, 50 hrs/yr	Firm Limit Condition #23811 part 1 New Source Review

## II. Equipment

**Table II B – Abatement Devices**

**Plant #B2758 - Tesoro Refining and Marketing Company - Golden Eagle Refinery**

A-#	Description	Source(s) Controlled	Applicable Requirement	Operating Parameters	Limit or Efficiency
3	Catalytic Cracker Fines Baghouse (Blinded and OOS)	S97	BAAQMD 6-1-301SIP 6-301	Monitor (pressure gauge)	Ringelmann No. 1 < 3 min/hr
3	Catalytic Cracker Fines Baghouse (Blinded and OOS)	S97	BAAQMD 6-1-305 SIP 6-305	Monitor (pressure gauge)	Visible particles on real property of another
3	Catalytic Cracker Fines Baghouse (Blinded and OOS)	S97	BAAQMD 6-1-310 SIP 6-310	Monitor (pressure gauge)	0.15 grain per dscf
3	Catalytic Cracker Fines Baghouse (Blinded and OOS)	S97	BAAQMD 6-1-311 SIP 6-311	Monitor (pressure gauge)	Particulates <= 4.10 P <sup>0.67</sup> lbs/hr (P=process weight, lb/hr)
4	Catalytic Cracker Fines Cyclone and Baghouse (Blinded and OOS)	S97, S98, S99	BAAQMD 6-1-301 SIP 6-301	Monitor (pressure gauge)	Ringelmann No. 1 < 3 min/hr
4	Catalytic Cracker Fines Cyclone and Baghouse (Blinded and OOS)	S97, S98, S99	BAAQMD 6-1-305 SIP 6-305	Monitor (pressure gauge)	Visible particles on real property of another
4	Catalytic Cracker Fines Cyclone and Baghouse (Blinded and OOS)	S97, S98, S99	BAAQMD 6-1-310 SIP 6-310	Monitor (pressure gauge)	0.15 grain per dscf
4	Catalytic Cracker Fines Cyclone and Baghouse (Blinded and OOS)	S97, S98, S99	BAAQMD 6-1-311 SIP 6-311	Monitor (pressure gauge)	Particulates <= 4.10 P <sup>0.67</sup> lbs/hr (P=process weight, lb/hr)
6	Spray Box for Slurry Settler, Scrubber	S809	BAAQMD 6-1-301 SIP 6-301	none	Ringelmann No. 1, < 3 min/hr
6	Spray Box for Slurry Settler, Scrubber	S809	BAAQMD 6-1-305 SIP 6-305	none	Visible particles on real property of another
6	Spray Box for Slurry Settler, Scrubber	S809	BAAQMD 6-1-310 SIP 6-310	none	0.15 grain per dscf
6	Spray Box for Slurry Settler, Scrubber	S809	BAAQMD 6-1-311 SIP 6-311	none	Particulates <= 4.10 P <sup>0.67</sup> lbs/hr (P=process weight, lb/hr)

## II. Equipment

**Table II B – Abatement Devices**

**Plant #B2758 - Tesoro Refining and Marketing Company - Golden Eagle Refinery**

A-#	Description	Source(s) Controlled	Applicable Requirement	Operating Parameters	Limit or Efficiency
12	Vapor Recovery at Foul Water Strippers, Compress/Condense/Absorb	S529, S530, S656, S658, S815, S816, S817	BAAQMD 1-301	none	nuisance odors
12	Vapor Recovery at Foul Water Strippers, Compress/Condense/Absorb	S529, S530, S656, S658	BAAQMD 8-5-306 SIP 8-5-306	None – 8-5-502 exempts source tests for refinery fuel gas system	VOC: 95% control
12	Vapor Recovery at Foul Water Strippers, Compress/Condense/Absorb	S529, S530, S656, S658, S815, S816, S817	Condition 10696, Part 1	None	VOC: 95% control
14	Vapor Recovery System to No. 1 Gas Plant and 40# Refinery Fuel Gas System, Compress/Condense/Absorb	S100, S126, S127, S134, S137, S318, S323, S327, S367, S432, S513, S532, S603, S613, S699, S714, S819, S1025, S1484, S1496, , S32103	BAAQMD 1-301	none	nuisance odors
14	Vapor Recovery System to No. 1 Gas Plant and 40# Refinery Fuel Gas System Compress/Condense/Absorb	S134, S137, S318, S323, S327, S367, S432, S603, S714, S1496,	BAAQMD 8-5-306 SIP 8-5-306	None – 8-5-502 exempts source tests for refinery fuel gas system	VOC: 95% control
14	Vapor Recovery System to No. 1 Gas Plant and 40# Refinery Fuel Gas System Compress/Condense/Absorb	S134	BAAQMD Condition #20923, part 3	none	VOC: 98.5% control
14	Vapor Recovery System to No. 1 Gas Plant and 40# Refinery Fuel Gas System Compress/Condense/Absorb	S532, S1484	BAAQMD 8-8-301.3 SIP 8-8-301.3	none	VOC: 95% control

## II. Equipment

**Table II B – Abatement Devices**

**Plant #B2758 - Tesoro Refining and Marketing Company - Golden Eagle Refinery**

A-#	Description	Source(s) Controlled	Applicable Requirement	Operating Parameters	Limit or Efficiency
14	Vapor Recovery System to No. 1 Gas Plant and 40# Refinery Fuel Gas System Compress/Condense/Absorb	S699	BAAQMD 8-8-305.2 SIP 8-8-305.2	none	VOC: 70% control
14	Vapor Recovery System to No. 1 Gas Plant and 40# Refinery Fuel Gas System Compress/Condense/Absorb	S819	BAAQMD 8-8-302.3 SIP 8-8-302.3	none	VOC: 95% control
14	Vapor Recovery System to No. 1 Gas Plant and 40# Refinery Fuel Gas System Compress/Condense/Absorb	S134, S137, S318, S323, S327, S367, S656, S658, S1496,	40 CFR 60.112b(a)(3) (ii)	none	VOC: 95% control
14	Vapor Recovery System , to No. 1 Gas Plant and 40# Refinery Fuel Gas System Compress/Condense/Absorb	S32103	BAAQMD Condition # 11609, parts E1, E2	none	VOC: 95% control
14	Vapor Recovery System to No. 1 Gas Plant and 40# Refinery Fuel Gas System Compress/Condense/Absorb	S323	BAAQMD Condition # 13605, part 3	None	VOC: 99.5% abatement
14	Vapor Recovery System to No. 1 Gas Plant and 40# Refinery Fuel Gas System Compress/Condense/Absorb	S1496	BAAQMD Condition #21100, part 2	None	VOC: 99.5% destruction efficiency
14	Vapor Recovery System, to No. 1 Gas Plant and 40# Refinery Fuel Gas System Compress/Condense/Absorb	S1025	BAAQMD 8-33-301 and BAAQMD Condition #21849, Part 11(a)	None	POC < 0.08 lb POC per 1000 gallons of material loaded
14	Vapor Recovery System to No. 1 Gas Plant and 40# Refinery Fuel Gas System Compress/Condense/Absorb	S1554	BAAQMD Condition #25025, part 3	None	VOC: 99.5% destruction efficiency
21	Butane Tank Vapor Recovery System	S691	BAAQMD 8-5-306 SIP 8-5-306	none	VOC 95 % control



## II. Equipment

**Table II B – Abatement Devices**

**Plant #B2758 - Tesoro Refining and Marketing Company - Golden Eagle Refinery**

A-#	Description	Source(s) Controlled	Applicable Requirement	Operating Parameters	Limit or Efficiency
30	FCCU Electrostatic Precipitator, Two Stage Electrostatic Precipitator	S802, S901	BAAQMD Condition #11433, Part 1		PM/PM-10 mass emission limit for S802 and S901 combined at 151.5 tons/yr
30	FCCU Electrostatic Precipitator, Two Stage Electrostatic Precipitator	S97, S98, S99, S802, S901,	BAAQMD 6-1-301 SIP 6-301		Ringelmann No. 1 < 3 min/hr
30	FCCU Electrostatic Precipitator, Two Stage Electrostatic Precipitator	S802	BAAQMD 1-520.5 6-1-302 SIP 6-302 Condition 11433, Part 2B		Less than 20% opacity except for 3 minutes in any hour
30	FCCU Electrostatic Precipitator, Two Stage Electrostatic Precipitator	S97, S98, S99, S802, S901,	BAAQMD 6-1-304 SIP 6-304		Ringelmann 2 or 40% Opacity
30	FCCU Electrostatic Precipitator, Two Stage Electrostatic Precipitator	S97, S98, S99, S802, S901,	BAAQMD 6-1-305 SIP 6-305		Visible particles on real property of another
30	FCCU Electrostatic Precipitator, Two Stage Electrostatic Precipitator	S802	40 CFR 60.102(a)(2); 40 CFR 63.1564(a)(2)		Less than 30% opacity except for one 6 minute average opacity reading per hour
30	FCCU Electrostatic Precipitator, Two Stage Electrostatic Precipitator	S802	BAAQMD Condition 11433, Part 10; 40 CFR 60.102(a)(1); 40 CFR 63.1564(a)(1)		PM: 1 lb/ton regenerator coke burn off
30	FCCU Electrostatic Precipitator, Two Stage Electrostatic Precipitator	S901	BAAQMD 6-1-310 6-1-310.3 SIP 6-310 SIP 6-310.3	None	0.15 grain per dscf

## II. Equipment

**Table II B – Abatement Devices**

**Plant #B2758 - Tesoro Refining and Marketing Company - Golden Eagle Refinery**

<b>A-#</b>	<b>Description</b>	<b>Source(s) Controlled</b>	<b>Applicable Requirement</b>	<b>Operating Parameters</b>	<b>Limit or Efficiency</b>
31	No. 3 HDS Selective Catalytic Reduction (SCR) Unit	S974	BAAQMD Condition # 8077, part B2A	Ammonia injection not required during startup/shutdown periods: 72 hrs per SU or SD; 144 hrs/12 months	NOx: 146 lb/rolling 24 hours; limit for S974 SU or SD
31	No. 3 HDS Selective Catalytic Reduction (SCR) Unit	S974	BAAQMD Condition # 8077, part B2A	Ammonia injection not required during startup/shutdown periods: 72 hrs per SU or SD; 144 hrs/12 months	NOx: 876 lb/rolling 12 months
31	No. 3 HDS Selective Catalytic Reduction (SCR) Unit	S973 S974	BAAQMD Condition # 8077, part B2A	Ammonia injection not required during startup/shutdown periods: 72 hrs per SU or SD; 144 hrs/12 months	NOx: 146 lb/rolling 24 hours; combined limit for S973 and S974 during S974 SU or SD
31	No. 3 HDS Selective Catalytic Reduction (SCR) Unit	S973 S974	BAAQMD Condition # 8077, part B2A	Ammonia injection not required during startup/shutdown periods: 72 hrs per SU or SD; 144 hrs/12 months	NOx: 876 lb/rolling 12 months; combined limit for S973 and S974 during S974 SU or SD
31	No. 3 HDS Selective Catalytic Reduction (SCR) Unit	S973 S974	BAAQMD Condition # 8077, part B2B	Requirement to begin ammonia injection during startup of S973 or S974	A31 Inlet Temperature: 530 F

## II. Equipment

**Table II B – Abatement Devices**

**Plant #B2758 - Tesoro Refining and Marketing Company - Golden Eagle Refinery**

A-#	Description	Source(s) Controlled	Applicable Requirement	Operating Parameters	Limit or Efficiency
31	No. 3 HDS Selective Catalytic Reduction (SCR) Unit	S973, S974	BAAQMD Condition # 8077, part B7A	none	NOx: 40 ppmv, dry, corrected to 3% oxygen, 8 hour average
39	Thermal Oxidizer, Direct Flame Afterburner	S819	BAAQMD 8-8-302.3 SIP 8-8-302.3		95% control
39	Thermal Oxidizer, Direct Flame Afterburner	S1026	BAAQMD 8-8-307.2 SIP 8-8-307.2		70% control
39	Thermal Oxidizer, Direct Flame Afterburner	S819, S1026	BAAQMD Condition # 7406, part B5A	A39 operating temperature = or > 1350 degrees F	NMHC: 10 ppmv, calculated as methane (rolling one-hour average)
39	Thermal Oxidizer, Direct Flame Afterburner	S819, S1026	BAAQMD Condition # 7406, part B7	A39 operating temperature = or > 1350 degrees F	H2S: 1 ppm
40	Thermal Oxidizer, Electric, Tract 6 Pump Seals	S32103	BAAQMD Condition # 11609, part A1	Oxidizer operating temperature > or = 1400 degrees F	VOC: 95% control
42	Thermal Oxidizer, Electric, Hydrocracker Pump Seals	S32103	BAAQMD Condition # 11609, part C1	Oxidizer operating temperature > or = 1400 degrees F	VOC: 95% control
43	Thermal Oxidizer, Electric, Tract 3 Pump Seals	S32103	BAAQMD Condition # 11609, part D1	Oxidizer operating temperature > or = 1400 degrees F	VOC: 95% control
714	Caustic Scrubber	S714	BAAQMD 1-301	none	nuisance odors
796	Vapor Balance System, No. 3 Reformer Perc Tank	S795	BAAQMD Condition # 5711, part 3	none	Abatement required during all loading operations
904	No. 6 Boiler Selective Catalytic Reduction (SCR) System	S904	Condition 17322, Part 2	none	Comply with 0.033 lb NOx/MMBTU (Facility Limit)

## II. Equipment

**Table II B – Abatement Devices**

**Plant #B2758 - Tesoro Refining and Marketing Company - Golden Eagle Refinery**

A-#	Description	Source(s) Controlled	Applicable Requirement	Operating Parameters	Limit or Efficiency
908	No. 3 Crude, F-8 Selective Catalytic Reduction (SCR) System	S908	BAAQMD Condition # 8077, Part B7A	none	NOx: 10 ppmv corrected to 3% oxygen, 3 hour average
908	No. 3 Crude, F-8 Selective Catalytic Reduction (SCR) System	S1470	BAAQMD Condition #18539, Part 15	Except for 144 hrs/rolling 12 months (SU)	NOx: 10 ppmv corrected to 3% oxygen, 3 hour average
952	Non-Selective Catalytic Reduction (NSCR) System	S952	SIP 9-8-301.1	none	NOx: 56 ppmv corrected to 15% oxygen
952	Non-Selective Catalytic Reduction (NSCR) System	S952	BAAQMD 9-8-301.1	none	) NOx: 25 ppmv corrected to 15% oxygen
952	Non-Selective Catalytic Reduction (NSCR) System	S952	BAAQMD 9-8-301.3	none	CO: 2000 ppmv corrected to 15% oxygen
953	Non-Selective Catalytic Reduction (NSCR) System	S953	SIP 9-8-301.1	none	NOx: 56 ppmv corrected to 15% oxygen
953	Non-Selective Catalytic Reduction (NSCR) System	S953	BAAQMD 9-8-301.1	none	NOx: 25 ppmv corrected to 15% oxygen
953	Non-Selective Catalytic Reduction (NSCR) System	S953	BAAQMD 9-8-301.3	none	CO: 2000 ppmv corrected to 15% oxygen
954	Non-Selective Catalytic Reduction (NSCR) System	S954	SIP 9-8-301.1	none	NOx: 56 ppmv corrected to 15% oxygen
954	Non-Selective Catalytic Reduction (NSCR) System	S954	BAAQMD 9-8-301.1	none	NOx: 25 ppmv corrected to 15% oxygen
954	Non-Selective Catalytic Reduction (NSCR) System	S954	BAAQMD 9-8-301.3	none	CO: 2000 ppmv corrected to 15% oxygen

## II. Equipment

**Table II B – Abatement Devices**

**Plant #B2758 - Tesoro Refining and Marketing Company - Golden Eagle Refinery**

A-#	Description	Source(s) Controlled	Applicable Requirement	Operating Parameters	Limit or Efficiency
955	Selective Catalytic Reduction (SCR) System	S955	SIP 9-8-301.2	none	NOx: 140 ppmv corrected to 15% oxygen
955	Selective Catalytic Reduction (SCR) System	S955	BAAQMD 9-8-301.2	none	NOx: 65 ppmv corrected to 15% oxygen
956	Selective Catalytic Reduction (SCR) System	S956	SIP 9-8-301.2	none	NOx: 140 ppmv corrected to 15% oxygen
956	Selective Catalytic Reduction (SCR) System	S956	BAAQMD 9-8-301.2	none	NOx: 65 ppmv corrected to 15% oxygen
957	Selective Catalytic Reduction (SCR) System	S957	SIP 9-8-301.2	none	NOx: 140 ppmv corrected to 15% oxygen
957	Selective Catalytic Reduction (SCR) System	S957	BAAQMD 9-8-301.2	none	NOx: 65 ppmv corrected to 15% oxygen
958	Selective Catalytic Reduction (SCR) System	S958	SIP 9-8-301.2	none	NOx: 140 ppmv corrected to 15% oxygen
958	Selective Catalytic Reduction (SCR) System	S958	BAAQMD 9-8-301.2	none	NOx: 65 ppmv corrected to 15% oxygen
959	Selective Catalytic Reduction (SCR) System	S959	SIP 9-8-301.2	none	NOx: 140 ppmv corrected to 15% oxygen
959	Selective Catalytic Reduction (SCR) System	S959	BAAQMD 9-8-301.2	none	NOx: 65 ppmv corrected to 15% oxygen
960	Selective Catalytic Reduction (SCR) System	S960	SIP 9-8-301.2	none	NOx: 140 ppmv corrected to 15% oxygen
960	Selective Catalytic Reduction (SCR) System	S960	BAAQMD 9-8-301.2	none	NOx: 65 ppmv corrected to 15% oxygen

## II. Equipment

**Table II B – Abatement Devices**

**Plant #B2758 - Tesoro Refining and Marketing Company - Golden Eagle Refinery**

A-#	Description	Source(s) Controlled	Applicable Requirement	Operating Parameters	Limit or Efficiency
963	Steam Injection System, Alkylolation Plant Turbine	S963	BAAQMD 9-9-301.2 [Based on turbine heat input rating]	Ratio steam injection (lb) to fuel consumption (lb) >= 30 [CAM]	NOx: 42 ppmvd corrected to 15% oxygen
1001	Carbon Canister, Fixed Volume Portable Tanks	S1489, S1490, and S1491	BAAQMD 8-5-306 SIP 8-5-306		VOC: 95% control
1002	Carbon Canister, Fixed Volume Portable Tanks	S1489, S1490, and S1491	BAAQMD 8-5-306 SIP 8-5-306		VOC: 95% control
1106	Selective Catalytic Reduction (SCR) System, F72	S1106	BAAQMD Condition #19199, Part H9	none	NOx: 10 ppmv, dry, corrected to 3% oxygen
1402	SCOT Tail Gas Unit	S1401	BAAQMD Condition 267, Part 5; 40 CFR 60.104(a)(2)(i); 40 CFR 63.1568(a)(1)		SO2: 250 ppmvd @ 0% excess air
1402	SCOT Tail Gas Unit	S1401	BAAQMD Condition 267, Part 2		SO2: 4 lb/ton sulfur processed
1402	SCOT Tail Gas Unit	S1401	BAAQMD 6-1-330 SIP 6-330		SO3 and/or H2SO4 expressed as 100% H2SO4: 183 mg/dscm or 0.08 gr/dscf of exhaust gas
1403	Brink Mist Eliminator, Sulfuric Acid Plant	S1411	BAAQMD 6-1-301 SIP 6-301	none	Ringelmann No. 1 < 3 min/hr
1404	Brink Mist Eliminator, Sulfuric Acid Plant Tanks and Loading Rack	S1413, S1414, S1415	BAAQMD 6-1-301 SIP 6-301	none	Ringelmann No. 1 < 3 min/hr
1417	Final Converter/Absorber, Sulfuric Acid Plant, Dual Absorber	S1411	BAAQMD 6-1-301 SIP 6-301	none	Ringelmann No. 1 < 3 min/hr

## II. Equipment

**Table II B – Abatement Devices**

**Plant #B2758 - Tesoro Refining and Marketing Company - Golden Eagle Refinery**

A-#	Description	Source(s) Controlled	Applicable Requirement	Operating Parameters	Limit or Efficiency
1417	Final Converter/Absorber, Sulfuric Acid Plant, Dual Absorber	S1411	BAAQMD 6-1-320 SIP 6-320	none	SO <sub>3</sub> and/or H <sub>2</sub> SO <sub>4</sub> expressed as 100% H <sub>2</sub> SO <sub>4</sub> : 92 mg/dscm or 0.04 gr/dscf of exhaust gas
1418	Packed Bed Scrubber (Lean DEA), Rich DEA Tank A-750	S1418	BAAQMD 1-301	none	Nuisance odors
1421	Final Mist Eliminator, Sulfuric Acid Plant	S1411	BAAQMD 6-1-301 SIP 6-301	none	Ringelmann No. 1 < 3 min/hr
1422	Sulfur Tank Vent Scrubber, Calvert Scrubber	S1404	BAAQMD 6-1-301 SIP 6-301	none	Ringelmann No. 1 < 3 min/hr
1422	Sulfur Tank Vent Scrubber, Calvert Scrubber	S1404	BAAQMD Condition 8535, part 1, part 3	9 inches H <sub>2</sub> O pressure drop	PM: 0.01 gr/dscf
1431	Selective Catalytic Reduction (SCR) System, Technip with Hitachi Catalyst or equivalent	S927	BAAQMD Condition 18372, part 18 BAAQMD 9-10-301 (Facility Limit)	none	Comply with 0.033 lb NO <sub>x</sub> /MMBTU (Facility Limit)
1432	Selective Catalytic Reduction (SCR) System, Technip with Hitachi Catalyst or equivalent	S950	BAAQMD Condition 18372, part 19 BAAQMD 9-10-301 (Facility Limit)	none	Comply with 0.033 lb NO <sub>x</sub> /MMBTU (Facility Limit)
1433	Selective Catalytic Reduction (SCR) System, Technip with Hitachi Catalyst or equivalent	S971	BAAQMD Condition 18372, parts 20 and 21  BAAQMD 9-10-301 (Facility Limit)	none	Comply with 0.033 lb NO <sub>x</sub> /MMBTU (Facility Limit)

## II. Equipment

**Table II B – Abatement Devices**

**Plant #B2758 - Tesoro Refining and Marketing Company - Golden Eagle Refinery**

A-#	Description	Source(s) Controlled	Applicable Requirement	Operating Parameters	Limit or Efficiency
1433	Selective Catalytic Reduction (SCR) System, Technip with Hitachi Catalyst or equivalent (S-971 and S-972 share a common stack and the combined NOx emissions are monitored in the common stack downstream of A-1433 for compliance with Condition 8077, Part B7A, but only the S-971 emissions are abated by A-1433. The flue gas from S-972 is not routed through A1433)	S971 (Abated S-971 combined with unabated S-972 exhaust gas prior to monitoring)	BAAQMD Condition # 8077, Part B7A	none	NOx: 75 ppmvd corrected to 3% O <sub>2</sub> , 8 hour average
1433	Selective Catalytic Reduction (SCR) System, Technip with Hitachi Catalyst or equivalent (S-971 and S-972 share a common stack and the combined NOx emissions are monitored in the common stack downstream of A-1433 for compliance with Condition 8077, Part B7A, but only the S-971 emissions are abated by A-1433. The flue gas from S-972 is not routed through A1433)	S971 (Abated S-971 combined with unabated S-972 exhaust gas prior to monitoring)	BAAQMD Condition # 25476, Part 10		NOx: 166 lbs per calendar day  NOx: 30.353 tons per rolling consecutive 12-month period.
1511	Coker Heater #1 Selective Catalytic Reduction (SCR) System	S1511	BAAQMD Condition #23129, Part 12		NOx: 7 ppmvd, corrected to 3% O <sub>2</sub> , 3 hour average
1511	Coker Heater #1 Selective Catalytic Reduction (SCR) System	S1511	BAAQMD Condition #23129, Part 12a	Startup, Shutdown, Malfunction(< = 144 hours per consecutive 12 months)	NOx: 50 ppmvd (as NO <sub>2</sub> ) corrected to 3% O <sub>2</sub> , 3 hour average



## II. Equipment

**Table II B – Abatement Devices**

**Plant #B2758 - Tesoro Refining and Marketing Company - Golden Eagle Refinery**

A-#	Description	Source(s) Controlled	Applicable Requirement	Operating Parameters	Limit or Efficiency
1512	Coker Heater #2 Selective Catalytic Reduction System (SCR)	S1512	BAAQMD Condition #23129, Part 12		NOx: 7 ppmvd, corrected to 3% O <sub>2</sub> , 3 hour average
1512	Coker Heater #2 Selective Catalytic Reduction System (SCR)	S1512	BAAQMD Condition #23129, Part 12a	Startup, Shutdown, Malfunction(< = 144 hours per consecutive 12 months)	NOx: 50 ppmvd (as NO <sub>2</sub> ) corrected to 3% O <sub>2</sub> , 3 hour average
1514	Coker Silo #1 Baghouse, 4200 cfm	S1514	BAAQMD 6-1-301 SIP 6-301		Ringelmann No. 1 < 3 min/hr
1514	Coker Silo #1 Baghouse, 4200 cfm	S1514	BAAQMD 6-1-305 SIP 6-305		No visible particles on real property of another
1514	Coker Silo #1 Baghouse, 4200 cfm	S1514	BAAQMD 6-1-310 SIP 6-310	4200 scfm exhaust air flow	0.15 grain per dscf
1514	Coker Silo #1 Baghouse, 4200 cfm	S1514	BAAQMD Condition #23129, part 39	4200 scfm exhaust air flow	0.01 grain per dscf
1515	Coker Silo #2 Baghouse, 4200 cfm	S1515	BAAQMD 6-1-301 SIP 6-301		Ringelmann No. 1 < 3 min/hr
1515	Coker Silo #2 Baghouse, 4200 cfm	S1515	BAAQMD 6-1-305 SIP 6-305		No visible particles on real property of another
1515	Coker Silo #2 Baghouse, 4200 cfm	S1515	BAAQMD 6-1-310 SIP 6-310	4200 scfm exhaust air flow	0.15 grain per dscf
1515	Coker Silo #2 Baghouse, 4200 cfm	S1515	BAAQMD Condition #23129, part 39	4200 scfm exhaust air flow	0.01 grain per dscf

## II. Equipment

**Table II B – Abatement Devices**

**Plant #B2758 - Tesoro Refining and Marketing Company - Golden Eagle Refinery**

A-#	Description	Source(s) Controlled	Applicable Requirement	Operating Parameters	Limit or Efficiency
1524	50 Crude Unit Vapor Recovery System	S1001	BAAQMD Condition #24323, part 2	50 scfm	Operate at all times except during malfunction when valid breakdown (BAAQMD Condition 24323 Part 1)
1525	SRU Stack Incinerator	S990 S1416 S1418	BAAQMD 1-301	57.3 MM Btu/hr	nuisance odors
1525	SRU Stack Incinerator	S990 S1416 S1418	BAAQMD 6-1-301 SIP 6-301	57.3 MM Btu/hr	Ringelmann No. 1 < 3 min/hr
1525	SRU Stack Incinerators	S1401, A1402	BAAQMD Condition 267, Part 5; 40 CFR 60.104(a)(2)(i) ; 40 CFR 63.1568(a)(1)	57.3 MM Btu/hr	SO <sub>2</sub> : 250 ppmvd @ 0% excess air
1526	Packed Bed Scrubber (Lean DEA), Rich DEA Tank A-749	S990	BAAQMD 1-301	none	nuisance odors
1550	Backup Boiler #1 SCR	S1550	BAAQMD Condition 24491, Parts 4 & 7	Operate at all times except for 192 hours per consecutive 12-months (total for all backup boilers) startup and shutdown.	NO <sub>x</sub> : 7 ppmvd @ 3% O <sub>2</sub> except for:  NO <sub>x</sub> : 30 ppmvd @ 3% O <sub>2</sub> during startup and shutdown unabated operation

## II. Equipment

**Table II B – Abatement Devices**

**Plant #B2758 - Tesoro Refining and Marketing Company - Golden Eagle Refinery**

A-#	Description	Source(s) Controlled	Applicable Requirement	Operating Parameters	Limit or Efficiency
1551	Backup Boiler #2 SCR	S1551	BAAQMD Condition 24491, Parts 4 & 7	Operate at all times except for 192 hours per consecutive 12-months (total for all backup boilers) startup and shutdown.	NOx: 7 ppmvd @ 3% O2 except for:  NOx: 30 ppmvd @ 3% O2 during startup and shutdown unabated operation
1553	Backup Boiler #3 SCR	S1553	BAAQMD Condition 24491, Parts 4 & 7	Operate at all times except for 192 hours per consecutive 12-months (total for all backup boilers) startup and shutdown.	NOx: 7 ppmvd @ 3% O2 except for:  NOx: 30 ppmvd @ 3% O2 during startup and shutdown unabated operation
S854	East Air Flare	See Note 1 for Table II-A1	See Table IV-C.2.1	1,900MM Btu/hr Capacity	Typically 98% destruction efficiency
S943	Butane Tank S691 Safety Flare	Backup abatement for A21, which abates S691	BAAQMD 8-5-306 SIP 8-5-306	none	VOC: 95% control
S944	North Steam Flare	See Note 1 for Table II-A1	See Table IV-C.2.3	2,700MM Btu/hr Capacity	Typically 98% destruction efficiency
S945	South Steam Flare	See Note 1 for Table II-A1	See Table IV-C.2.3	2,700MM Btu/hr Capacity	Typically 98% destruction efficiency
S950	50 Unit Crude Heater (F50) Refinery Fuel Gas, Natural Gas	S606, S607	BAAQMD Condition #7410, Part 1	S950 Temperature = or > 1500 degrees F	NMHC: 20 ppm (calculated as methane) 1 hour rolling average
S950	50 Unit Crude Heater (F50) Refinery Fuel Gas, Natural Gas	S606, S607	BAAQMD Condition #7410, Part 1	S950 Temperature = or > 1500 degrees F	H2S < 1 ppm (1 hour rolling average)

## II. Equipment

**Table II B – Abatement Devices**

**Plant #B2758 - Tesoro Refining and Marketing Company - Golden Eagle Refinery**

A-#	Description	Source(s) Controlled	Applicable Requirement	Operating Parameters	Limit or Efficiency
S992	Emergency Flare	See Note 1 for Table II-A1	See Table IV-C.2.1	13,200MM Btu/hr Capacity	Typically 98% destruction efficiency
S1012	West Air Flare	See Note 1 for Table II-A1	See Table IV-C.2.1	2,755MM Btu/hr Capacity	Typically 98% destruction efficiency
S1013	Ammonia Plant Flare	S825, S851, S856, A1401, A1402	BAAQMD Regulation 1-301	2,670MM Btu/hr Capacity	nuisance odors
S1401	Sulfur Recovery Unit	S1405	BAAQMD Condition 267, Part 4	None	None
S1411	Sulfuric Acid Manufacturing Plant	S1405	BAAQMD Condition 267, Part 4	None	None
S1517	Coker Flare	See Note 1 for Table II-A1	BAAQMD Condition 23129, Part 52	24,500MM Btu/hr Capacity	POC: 98.5% destruction efficiency (mass basis)
S1524	50 Unit Flare	See Note 4 for Table II-A1	BAAQMD Condition 24323, Part 7	28,000MM Btu/hr Capacity	POC: 98% destruction efficiency (mass basis)

**Table II C – Sources Exempt From Permitting**

**Plant #B2758 – Tesoro Refining and Marketing Company - Golden Eagle Refinery**

The following sources have been determined to be exempt from the requirements of BAAQMD Regulation 2, Permits and have applicable requirement(s) listed in Section IV.

S-#	Description	Make or Type	Model	Capacity	Comment (Exemption Citation)
2	Demolished				
3	Tank A-03	Fixed roof		3,360K gal	2-1-123.3.2 (diesel)
57	Tank A-57	Fixed roof		576K gal	2-1-123.3.3 (diesel)
126	LPG Truck Loading Rack	Bulk plant (truck/rail)	9 pumps Bottom submerged fill	3650K bbl/yr	2-1-123. (liquefied organic liquids) A14 Vapor Recovery

## II. Equipment

**Table II C- –Sources Exempt From Permitting**

**Plant #B2758 – Tesoro Refining and Marketing Company - Golden Eagle Refinery**

The following sources have been determined to be exempt from the requirements of BAAQMD Regulation 2, Permits and have applicable requirement(s) listed in Section IV.

S-#	Description	Make or Type	Model	Capacity	Comment (Exemption Citation)
127	LPG Tank Car Loading Rack	Bulk plant (truck/rail)	Bottom submerged fill	500K bbl/yr	2-1-123.3.1 (liquefied organic liquids) A14 Vapor Recovery
198	Odorant Tank	Pressure tank		84 gal	2-1-123.1 (< 250 gallons) 2-1-123.3.1 (liquefied organic gases)
258	Tank A-258	Fixed roof		84K gal	2-1-123.3.2 (gasoil)
269	Demolished				
270	Tank A-270	Fixed roof		3,167K gal	2-1-123.3.2 (diesel)
271	Demolished				
272	Tank A-272	Fixed roof		3,360K gal	2-1-123.3.2 (diesel)
274	Tank A-274	Fixed roof		3,170K gal	2-1-123.3.2 (diesel)
368	Demolished				
369	Removed from service in 2012.				
377	Demolished				
378	Demolished				
406	Removed from service in 2012.				
429	Tank A-429	Fixed roof		3,318K gal	2-1-123.3.2 (foul water, very low hydrocarbon content)
467	Tank A-467	Fixed roof		1000 bbl 42 Kgal	2-1-123.3.2 (caustic tank)
494	Tank A-494	Fixed roof		105K gal	Tank not used
495	Tank A-495	Fixed roof		4200 gal	2-1-123.3.3 (turbine oil)
503	Demolished				
514	Tank A-514	Sphere, LPG		508K gal	2-1-123.3.1 (liquefied organic gases - LPG)
515	Tank A-515	Sphere, LPG		103K gal	2-1-123.3.1 (liquefied organic gases - LPG)
516	Tank A-516	Sphere, LPG		80K gal	2-1-123.3.1 (liquefied organic gases - LPG)
517	Tank A-517	Fixed roof		3,154K gal	2-1-123.3.3 (fuel oil and gasoil)

## II. Equipment

**Table II C- –Sources Exempt From Permitting**

**Plant #B2758 – Tesoro Refining and Marketing Company - Golden Eagle Refinery**

The following sources have been determined to be exempt from the requirements of BAAQMD Regulation 2, Permits and have applicable requirement(s) listed in Section IV.

S-#	Description	Make or Type	Model	Capacity	Comment (Exemption Citation)
554	Tank A-554	Sphere, LPG		176K gal	2-1-123.3.1 (liquefied organic gases - LPG)
572	Tank A-572	Sphere, LPG		176K gal	2-1-123.3.1 (liquefied organic gases - LPG)
585	Tank A-585	Fixed roof		420K gal	2-1-123.3.3
598	Tank A-598	Sphere, LPG		478K gal	2-1-123.3.1 (liquefied organic gases - LPG)
599	Tank A-599	Sphere, LPG		21K gal	2-1-123.3.1 (liquefied organic gases - LPG)
604	Tank A-604	Fixed roof		21K gal	2-1-123.3.2
618	Tank A-618	Sphere, LPG		38K gal	2-1-123.3.1 (liquefied organic gases - LPG)
620	Tank A-620	Fixed roof		3,360K gal	2-1-123.3.2
621	Tank A-621	Fixed roof		3,360K gal	2-1-123.3.2
622	Tank A-622	Fixed roof		3360K gal	2-1-123.3.2 (diesel/kerosene)
646	Tank A-646	Horizontal pressure tank		45K gal	2-1-123.3.1 (liquefied organic gases - propane)
647	Tank A-647	Horizontal pressure tank		45K gal	2-1-123.3.1 (liquefied organic gases - propane)
648	Tank A-648	Horizontal pressure tank		42K gal	2-1-123.3.1 (liquefied organic gases - propane)
649	Tank A-649	Horizontal pressure tank		45K gal	2-1-123.3.1 (liquefied organic gases - propane)
652	Tank A-652	Sphere, LPG		512K gal	2-1-123.3.1 (liquefied organic gases)
662	Tank A-662	Fixed roof		42K gal	2-1-123.3.3 (gasoil)
666	Tank A-666	Horizontal pressure tank		45K gal	2-1-123.3.1 (liquefied organic gases - propane)
667	Tank A-667	Horizontal pressure tank		45K gal	2-1-123.3.1 (liquefied organic gases - propane)
668	Tank A-668	Horizontal pressure tank		45K gal	2-1-123.3.1 (liquefied organic gases - propane)
669	Tank A-669	Horizontal pressure tank		42K gal	2-1-123.3.1 (liquefied organic gases - propane)

## II. Equipment

**Table II C- –Sources Exempt From Permitting**

**Plant #B2758 – Tesoro Refining and Marketing Company - Golden Eagle Refinery**

The following sources have been determined to be exempt from the requirements of BAAQMD Regulation 2, Permits and have applicable requirement(s) listed in Section IV.

S-#	Description	Make or Type	Model	Capacity	Comment (Exemption Citation)
670	Tank A-670	Horizontal pressure tank		45K gal	2-1-123.3.1 (liquefied organic gases - propane)
691	Tank A-691	Dome Roof		9,328.2K gal	2-1-123.3.1(liquefied organic gases - butane)
695	Tank A-695	Sphere, LPG		1,071K gal	2-1-123.3.1 (liquefied organic gases)
749	Coker Pile Loader Diesel Tank	Fixed Roof		8400 gal	2-1-123.3.2 (diesel)
804	FCCU Blowdown Tower	Fixed Roof with Tower Vent		2.73K bbl/day	2-1-123.2 (aqueous solution < 1% organic)
807	Coker Blowdown Drum	Fixed Roof with Tower Vent		1.0 bbl/day	2-1-123.2 (aqueous solution < 1% organic)
822	Cracker Area Blowdown	Fixed Roof with Tower Vent		2.73K bbl/day	2-1-123.2 (aqueous solution < 1% organic)
834	No. 50 Crude Unit Blowdown Drum	Fixed Roof with Tower Vent		2.73K bbl/day	2-1-123.2 (aqueous solution < 1% organic)
872	Tank A-872	External Floating Roof		10,192K gal	2-1-123.3.3 and 2-1-123.3.10 (low sulfur vacuum gas oil)
873	Tank A-895	Fixed Roof		4,074K gal	2-1-123.3.3 and 2-1-123.3.10 (fuel oil)
1024	Removed from service in 2012				
1468	Tank A-877, Spent Sulfidic Caustic	Fixed roof		1,008K gal	2-1-123.2 (Aqueous solutions)
1498	KI-75, KI-85	Fixed Roof		3000 gal	2-1-123.3.2 (low vapor pressure additive)
1505	Tank A-777	Fixed Roof		250 gal	2-1-123.3.2 (red dye for diesel)
1543	Cold Cleaner [Maintenance Shops]	Smart Washer	SW23	15 gallons	Regulation 2-1-118.4 (<= 50 grams/liter VOC)
1544	Cold Cleaner [Maintenance Shops]	Smart Washer	SW23	15 gallons	Regulation 2-1-118.4 (<= 50 grams/liter VOC)
1545	Cold Cleaner [Maintenance Shops]	Smart Washer	SW23	15 gallons	Regulation 2-1-118.4 (<= 50 grams/liter VOC)
1546	Cold Cleaner [Maintenance Shops]	Smart Washer	SW23	15 gallons	Regulation 2-1-118.4 (<= 50 grams/liter VOC)

## II. Equipment

**Table II C- –Sources Exempt From Permitting**

**Plant #B2758 – Tesoro Refining and Marketing Company - Golden Eagle Refinery**

The following sources have been determined to be exempt from the requirements of BAAQMD Regulation 2, Permits and have applicable requirement(s) listed in Section IV.

S-#	Description	Make or Type	Model	Capacity	Comment (Exemption Citation)
1547	Cold Cleaner [Maintenance Shops]	Smart Washer	SW23	15 gallons	Regulation 2-1-118.4 (≤ 50 grams/liter VOC)
1548	Cold Cleaner [Maintenance Shops]	Smart Washer	SW23	15 gallons	Regulation 2-1-118.4 (≤ 50 grams/liter VOC)
1552	Transferred to Table II-A1.				
None	Tank A-778				Gasoline additive



### III. GENERALLY APPLICABLE REQUIREMENTS

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

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

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

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

**NOTE:**

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

**Table III  
 Generally Applicable Requirements**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)
BAAQMD Regulation 1	General Provisions and Definitions (05/04/2011)	N
SIP Regulation 1	General Provisions and Definitions (06/28/1999)	Y
BAAQMD Regulation 2, Rule 1	General Requirements (04/18/2012)	N
SIP Regulation 2, Rule 1	General Requirements (01/26/1999)	Y
BAAQMD Regulation 2, Rule 2	New Source Review (06/15/2005)	N

### III. Generally Applicable Requirements

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

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>
SIP Regulation 2, Rule 2	New Source Review (01/26/1999)	Y
BAAQMD Regulation 2, Rule 4	Emissions Banking (12/19/2012)	N
SIP Regulation 2, Rule 4	Emissions Banking (01/26/1999)	Y
BAAQMD Regulation 2, Rule 5	New Source Review of Toxic Air Contaminants (01/06/2010)	N
BAAQMD Regulation 2, Rule 6	Major Facility Review (04/16/2003)	N
SIP Regulation 2, Rule 6	Major Facility Review (06/23/1995)	Y
BAAQMD Regulation 2, Rule 9	Interchangeable Emission Reduction Credits (06/15/2005)	N
BAAQMD Regulation 3	Fees (06/19/2013)	N
SIP Regulation 3	Fees (05/03/1984)	Y
BAAQMD Regulation 4	Air Pollution Episode Plan (03/20/1991)	N
SIP Regulation 4	Air Pollution Episode Plan (08/06/1990)	Y
BAAQMD Regulation 5	Open Burning (06/19/2013)	N
SIP Regulation 5	Open Burning (09/04/1998)	Y
BAAQMD Regulation 6, Rule 1	Particulate Matter, General Requirements (12/05/2007)	N
SIP Regulation 6	Particulate Matter and Visible Emissions (09/04/1998)	Y
BAAQMD Regulation 7	Odorous Substances (03/17/1982)	N
BAAQMD Regulation 8, Rule 1	Organic Compounds - General Provisions (06/15/1994)	Y
BAAQMD Regulation 8, Rule 2	Organic Compounds – Miscellaneous Operations (07/20/2005)	N
SIP Regulation 8, Rule 2	Organic Compounds – Miscellaneous Operations (03/22/1995)	Y
BAAQMD Regulation 8, Rule 3	Organic Compounds - Architectural Coatings (07/01/2009)	N
SIP Regulation 8, Rule 3	Organic Compounds – Architectural Coatings (01/02/2004)	Y
BAAQMD Regulation 8, Rule 4	Organic compounds - General Solvent and Surface Coating Operations (10/16/2002)	Y
BAAQMD Regulation 8, Rule 49	Organic Compounds - Aerosol Paint Products (12/20/1995)	N
SIP Regulation 8, Rule 49	Organic Compounds - Aerosol Paint Products (03/22/1995)	Y
BAAQMD Regulation 8, Rule 51	Organic Compounds - Adhesive and Sealant Products (07/17/2002)	N
SIP Regulation 8, Rule 51	Organic Compounds - Adhesive and Sealant Products (02/26/2002)	Y
BAAQMD Regulation 11, Rule 2	Hazardous Pollutants - Asbestos Demolition, Renovation and Manufacturing (10/07/1998)	N
BAAQMD Regulation 12, Rule 4	Miscellaneous Standards of Performance - Sandblasting (07/11/1990)	Y

### III. Generally Applicable Requirements

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

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>
SIP Regulation 12, Rule 4	Miscellaneous Standards of Performance - Sandblasting (09/02/1981)	N
California Health and Safety Code Section 41750 et seq.	Portable Equipment	N
California Health and Safety Code Section 44300 et seq.	Air Toxics "Hot Spots" Information and Assessment Act of 1987	N
California Health and Safety Code Title 17, Section 93115	Airborne Toxic Control Measure for Stationary Compression Ignition Engines	N
California Health and Safety Code Title 17, Section 93116	Airborne Toxic Control Measure for Diesel Particulate Matter from Portable Engines Rated at 50 Horsepower and Greater	N
40 CFR 61 Subpart M	National Emission Standards for Hazardous Air Pollutants – National Emission Standard for Asbestos (06/19/1995)	Y
40 CFR 82 Subpart F	Protection of Stratospheric Ozone; Recycling and Emissions Reduction (04/13/2005)	Y
40 CFR 82 Subpart H	Protection of Stratospheric Ozone; Halon Emissions Reduction (03/05/1998)	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 parentheses in the Title column identify the versions of the regulations being cited and are, as applicable:

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

The full text of each permit condition cited is included in Section VI, Permit Conditions, of this permit. The full language of SIP requirements is on EPA Region 9's website. The address is:

<http://yosemite.epa.gov/r9/r9sips.nsf/Agency?ReadForm&count=500&state=California&cat=Bay+Area+Air+Quality+Management+District-Agency-Wide+Provisions>. All other text may be found in the regulations themselves.

Source numbers that reference (B2759) are located at the Amorco Terminal.

#### SECTION A SITEWIDE (REFINERY AND AMORCO)

**Table IV – A.1**  
**Source-specific Applicable Requirements**  
**FACILITY B2758**

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 (07/19/2006)</b>		
1-510	Area Monitoring	Y	
1-521	Monitoring may be required.	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	Y	
<b>BAAQMD Regulation 2 Rule 1</b>	<b>Permits - General Requirements (07/19/2006)</b>		
2-1-429	Federal Emissions Statement	N	

## IV. Source-Specific Applicable Requirements

**Table IV – A.1**  
**Source-specific Applicable Requirements**  
**FACILITY B2758**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<b>BAAQMD · Regulation 8 Rule 5</b>	<b>Organic Compounds - Storage of Organic Liquids (10/18/2006)</b>		
8-5-110	Exemptions	Y	
8-5-116	Exemption, Gasoline Storage Tanks at Gasoline Dispensing Facilities	N	
8-5-117	Limited Exemption, Low Vapor Pressure	N	
8-5-119	Limited Exemption, Repair Period	N	
8-5-118	Limited Exemption, Gas Tight Requirement for approved emission control system in 8-5-306.2 does not apply if facility is subject to BAAQMD 8-18	N	
8-5-328	Tank Degassing Requirements	N	
8-5-328.1	Tank Degassing Requirements; Tanks > 75 cubic meters; Use 90% abatement device	N	
8-5-331	Tank Cleaning Requirements, 90% Abatement Efficiency if abatement device used	N	
8-5-332	Sludge Handling Requirements (applies to sludge removed from any tank that was subject to BAAQMD 8-5 at any time since it was last put in service)	N	
8-5-332.1	Sludge Handling Requirements; sludge container no leaks	N	
8-5-332.2	Sludge Handling Requirements; sludge container gap requirements	N	
8-5-404	Inspection, Abatement Efficiency Determination, and Source Test Reports	N	
8-5-411	Enhanced Monitoring Program (Optional)	N	
8-5-411.1	Enhanced Monitoring Program (Optional); Notify BAAQMD of tanks selected for enhanced monitoring program	N	
8-5-411.2	Enhanced Monitoring Program (Optional); Criteria for operating enhanced monitoring program	N	
8-5-501	Records	N	
8-5-501.3	Records; Retention	N	
8-5-501.4	Records; New PV setpoints	N	
8-5-502	Source Test Requirements and exemption for sources vented to fuel gas	N	
8-5-502.2	Source Test Requirements; Tank degassing and cleaning abatement devices	N	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-603	Determination of Abatement Efficiency	N	
8-5-604	Determination of Applicability Based on True Vapor Pressure	Y	
<b>SIP Regulation 8 Rule 5</b>	<b>Organic Compounds - Storage of Organic Liquids (06/05/2003)</b>		
8-5-116	Exemption, Gasoline Storage Tanks at Gasoline Dispensing Facilities	Y	

## IV. Source-Specific Applicable Requirements

**Table IV – A.1**  
**Source-specific Applicable Requirements**  
**FACILITY B2758**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
8-5-117	Exemption, Low Vapor Pressure	Y	
8-5-328	Tank Degassing Requirements	Y	
8-5-328.1	Tank Degassing Requirements; Tanks > 75 cubic meters	Y	
8-5-328.1.2	Tank Cleaning Requirements; Tanks > 75 cubic meters, Approved Emission Control System	Y	
8-5-328.2	Tank Degassing Requirements; Ozone Excess Day Prohibition	Y	
8-5-404	Certification	Y	
8-5-501	Records	Y	
8-5-502	Tank degassing annual source test requirement	Y	
8-5-603	Determination of emissions	Y	
8-5-603.2	Source tests for tank degassing equipment	Y	
<b>BAAQMD Regulation 8 Rule 8</b>	<b>Organic Compounds - Wastewater Collection and Separation Systems (09/15/2004)</b>		
8-8-113	Exemption, Secondary Wastewater Treatment Processes and Stormwater Sewer Systems	N	
8-8-304	Sludge Dewatering Unit	N	
8-8-504	Portable Hydrocarbon Detector	Y	
8-8-602	Manual of Procedures: Determination of Emissions	N	
8-8-603	Manual of Procedures: Inspection Procedures	N	
<b>SIP Regulation 8 Rule 8</b>	<b>Organic Compounds - Wastewater (Oil-Water) Separators (08/29/1994)</b>		
8-8-113	Exemption, Secondary Wastewater Treatment Processes and Stormwater Sewer Systems	Y	
8-8-304	Sludge-dewatering Unit	Y	
8-8-602	Manual of Procedures: Determination of Emissions	Y	
8-8-603	Manual of Procedures: Inspection Procedures	Y	
<b>BAAQMD Regulation 8 Rule 10</b>	<b>Organic Compounds – Process Vessel Depressurization (01/21/2004)</b>		
8-10-101	Description	N	
8-10-110	Exemption: Storage Vessels	N	
8-10-110.1	Exemption: Storage Vessels	N	
8-10-301	Depressurization Control Options	N	
8-10-302	Opening of Process Vessels	N	
8-10-302.1	organic compounds cannot exceed 10,000 ppm (methane) prior to release to atmosphere	N	
8-10-302.2	Organic compound concentration of a refinery process vessel may exceed 10,000 ppm prior to release to atmosphere provided total number of such vessels during 5-year period does not exceed 10%	N	

## IV. Source-Specific Applicable Requirements

**Table IV – A.1**  
**Source-specific Applicable Requirements**  
**FACILITY B2758**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-10-401	Turnaround Records. Annual report due February 1 of each year with initial report of process vessels due 4/1/2004.	N	
8-10-501	Monitoring prior to and during process vessel opening	N	
8-10-502	Concentration measurement using EPA Method 21	N	
8-10-503	Recordkeeping	N	
8-10-601	Monitoring Procedures	N	
<b>SIP Regulation 8 Rule 10</b>	<b>Organic Compounds – Process Vessel Depressurization (10/03/1984)</b>		
8-10-301	Process Vessel Depressurizing.	Y	
8-10-301.1	recovery to the fuel gas system	Y	
8-10-301.2	combustion at a firebox or incinerator	Y	
8-10-301.3	combustion at a flare	Y	
8-10-301.4	containment such that emissions to atmosphere do not occur	Y	
8-10-401	Turnaround Records.	Y	
8-10-401.1	date of depressurization event	Y	
8-10-401.2	approximate vessel hydrocarbon concentration when emissions to atmosphere begin	Y	
8-10-401.3	approximate quantity of POC emissions to atmosphere	Y	
<b>BAAQMD Regulation 8, Rule 16</b>	<b>Organic Compounds - Solvent Cleaning Operations (10/16/2002)</b>		
8-16-111	Exemption, Wipe Cleaning	Y	
8-16-501.3	Solvent Records – Wipe Cleaning	Y	
<b>BAAQMD Regulation 8 Rule 40</b>	<b>Organic Compounds - Aeration of Contaminated Soil and Removal of Underground Storage Tanks (06/15/2005)</b>		
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	
8-40-403	Reporting, Excavation of Contaminated Soil	Y	
8-40-404	Reporting, Contaminated Soil Excavation During Organic Liquid Service Pipeline Leak Repairs	Y	
8-40-405	Reporting, Contaminated Soil Excavations Unrelated to Underground Storage Tank Activities	Y	
8-40-601	Contaminated Soil Sampling	Y	
8-40-602	Measurement of Organic Content	Y	
8-40-604	Measurement of Organic Concentration	Y	
8-40-605	Analysis of Samples Initial Boiling Point	Y	
<b>BAAQMD Regulation 9 Rule 1</b>	<b>Inorganic Gaseous Pollutants – Sulfur Dioxide (03/15/1995)</b>		

## IV. Source-Specific Applicable Requirements

**Table IV – A.1**  
**Source-specific Applicable Requirements**  
**FACILITY B2758**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
9-1-110	Conditional Exemption, Area Monitoring	Y	
9-1-301	Limitations on Ground Level Concentrations	Y	
9-1-304	Fuel Burning (Liquid and Solid Fuels)	Y	
9-1-313	Sulfur Removal Operations at Petroleum Refineries (processing more than 20,000 bbl/day of crude oil)	N	
9-1-313.2	operation of a sulfur removal and recovery system that removes and recovers: 95% of 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).	N	
9-1-501	Area Monitoring Requirements	Y	
9-1-604	Ground Level Monitoring	Y	
<b>SIP Regulation 9 Rule 1</b>	<b>Inorganic Gaseous Pollutants - Sulfur Dioxide Emissions Limitations (06/08/1999)</b>		
9-1-313	Sulfur Removal Operations at Petroleum Refineries (processing more than 20,000 bbl/day of crude oil)	Y	
9-1-313.2	operation of a sulfur removal and recovery system that removes and recovers: 95% of H2S from refinery fuel gas, 95% of H2S and ammonia from process water streams	Y	
<b>BAAQMD Regulation 9 Rule 2</b>	<b>Inorganic Gaseous Pollutants - Hydrogen Sulfide (10/06/1999)</b>		
9-2-110	Exemptions	N	
9-2-301	Limitations on Hydrogen Sulfide	N	
9-2-501	Area Monitoring Requirements (Applies only when ground level monitors are not operating or are out of compliance.)	N	
9-2-601	Ground Level Monitoring	N	
<b>BAAQMD Regulation 10</b>	<b>Standards of Performance for New Stationary Sources – incorporated by reference (02/16/2000)</b>		
10-1	Subpart A – General Provisions (12/20/1995)	Y	
10-17	Subpart Kb – Standards of Performance for Storage Vessels for Petroleum Liquids for which Construction, Reconstruction, or Modification Commence After May 18, 1978, and Prior to July 23, 1984	Y	
<b>BAAQMD Regulation 11 Rule 12</b>	<b>Hazardous Pollutants - National Emission Standard for Benzene Emissions From Benzene Transfer Operations and Benzene Waste Operations (Adopted 07/18/1990; Subpart FF last amended 01/05/1994)</b>	Y	
<b>40 CFR 60 Subpart A</b>	<b>NSPS - General Provisions (12/22/2008)</b>		
60.1	Applicability	Y	
60.2	Definitions	Y	



## IV. Source-Specific Applicable Requirements

**Table IV – A.1**  
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<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
60.3	Units and Abbreviations	Y	
60.4	Address	Y	
60.5	Determination of Construction or Modification	Y	
60.6	Review of Plans	Y	
60.7	Notification and Recordkeeping	Y	
60.8	Performance Tests	Y	
60.9	Availability of Information	Y	
60.11	Compliance with Standards and Maintenance Requirements	Y	
60.12	Circumvention	Y	
60.13	Monitoring Requirements	Y	
60.14	Modification	Y	
60.15	Reconstructions	Y	
60.17	Incorporated by Reference	Y	
60.19	General Notification and Reporting Requirements	Y	
<b>40 CFR 60 Subpart Kb</b>	<b>NSPS – Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction or Modification Commenced After July 23, 1984. (10/15/2003)</b>		
60.113b(b)(1)	Testing and Procedures; External floating roof seal gap measurement frequency	Y	
60.113b(b)(1)(i)	Measurement of gaps between tank wall and primary seal	Y	
60.113b(b)(1)(ii)	Measurement of gaps between tank wall and secondary seal	Y	
60.113b(b)(1)(iii)	Testing and Procedures; External floating roof reintroduction of VOL	Y	
60.113b(b)(2)	Primary seal gap standards	Y	
60.113b(b)(3)	Secondary seal gap standards	Y	
60.113b(b)(4)	Seal gap measurement methods	Y	
<b>40 CFR 61 Subpart A</b>	<b>NESHAPS, General Provisions (05/16/2007)</b>		
61.01	Lists of Pollutants and Applicability of Part 61	Y	
61.02	Definitions	Y	
61.03	Units and Abbreviations	Y	
61.04	Address	Y	
61.05	Prohibited Activities	Y	
61.06	Determination of Construction or Modification	Y	
61.07	Application for Approval of Construction or Modification	Y	
61.08	Approval of construction or modification	Y	
61.09	Notification of startup	Y	
61.10	Source reporting and waiver request	Y	
61.12	Compliance with Standards and Maintenance Requirements	Y	

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**Table IV – A.1**  
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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
61.13	Emission Tests and Waiver of Emission Tests	Y	
61.14	Monitoring Reports	Y	
61.15	Modification	Y	
61.18	Incorporation by reference	Y	
61.19	Circumvention	Y	
<b>40 CFR 61 Subpart FF</b>	<b>NESHAPS, Benzene Waste Operations (12/04/2003) Requirements for Treat to 6 (6BQ) [61.342(e)] facility</b>		
61.340(a)	Applicability: Chemical Manufacturing, Coke by-product recovery, petroleum refineries	Y	
61.340(c)	Applicability: Exempt Waste	Y	
61.340(d)	Applicability: Exemption from Subpart FF for emissions routed to a fuel gas system	Y	
61.341	Definitions	Y	
61.342	Standards: General	Y	
61.342(a)	Standards: Definition of total annual benzene (TAB) & requirements to calculate	Y	
61.342(a)(2)	Standards: TAB Calculation – Material Sold	Y	
61.342(a)(3)	Standards: TAB Calculation – Remediation Waste	Y	
61.342(a)(4)	Standards: TAB Calculation – Determination Location	Y	
61.342(b)	Standards: General; Facility with TAB > 10Mg/year compliance dates	Y	
61.342(c)(1)	Standards: General; For 61.342(e) 6BQ facility, treat non-aqueous benzene-containing waste streams in accordance with 61.342(c)(1)(i), 61.342(c)(1)(ii) and 61.342(c)(1)(iii)	Y	
61.342(c)(1)(i)	Standards: General; Remove or destroy benzene in accordance with 61.348	Y	
61.342(c)(1)(ii)	Standards: General; Comply with 61.343 through 61.347 for waste management units that manage wastes prior to and during treatment per 61.342(c)(1)(i)	Y	
61.342(c)(1)(iii)	Standards: General; Comply with 61.343 through 61.347 for waste management units for wastes to be recycled. After recycling, wastes no longer subject to 61.342(c)(1)	Y	
61.342(e)	Standards: General; Requirements for Treat to 6 (6BQ) facility	Y	
61.342(e)(1)	Standards: General; Requirements for Treat to 6 (6BQ) facility; Treat non-aqueous waste (flow-weighted annual average water content of less than 10%) per 61.342(c)(1)	Y	
61.342(e)(2)	Standards: General; Requirements for Treat to 6 (6BQ) facility; Treat aqueous waste (flow-weighted annual average water content of 10% or more by volume) per 61.342(e)(2).	Y	
61.342(e)(2)(i)	Standards: General; Requirements for Treat to 6 (6BQ) facility; Aqueous waste: 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	

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**Table IV – A.1**  
**Source-specific Applicable Requirements**  
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<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
61.342(e)(2)(ii)	Standards: General; Requirements for Treat to 6 (6BQ) facility; Aqueous waste: Determine 61.342(e)(2) benzene quantity [TBQ] per 61.355(k).	Y	
61.343(a)	Standards: Tanks	Y	
61.343(a)(1)	Standards: Tanks: Fixed roof with closed vent routed to control device	Y	
61.343(a)(1)(i)	Standards: Tanks: Fixed roof requirements	Y	
61.343(a)(1)(i)(A)	Standards: Tanks: Fixed roof and openings: No detectable emissions	Y	
61.343(a)(1)(i)(B)	Standards: Tanks: Fixed roof requirements; openings closed and sealed except when in use	Y	
61.343(a)(1)(ii)	Standards: Tanks: Closed vent system and control device: design and operate per 61.349	Y	
61.343(b)	Standards: Tanks: Alternative standards for certain fixed roof tanks storing non-aqueous wastes (low vapor pressure or small tanks)	Y	
61.343(c)	Standards: Tanks: Quarterly Visual Inspection	Y	
61.343(d)	Standards: Tanks: Repairs	Y	
61.345(a)	Standards: Containers	Y	
61.345(a)(1)	Standards: Containers--Covers	Y	
61.345(a)(1)(i)	Standards: Containers— No detectable emissions	Y	
61.345(a)(1)(ii)	Standards: Containers--Openings closed and sealed except when in use	Y	
61.345(a)(2)	Standards: Containers--Waste Transfer	Y	
61.345(b)	Standards: Containers--Quarterly visual inspection	Y	
61.345(c)	Standards: Containers--Repairs	Y	
61.350	Standards: Delay of repair	Y	
61.350(a)	Standards: Delay of Repair: Allowed if technically impossible without complete or partial facility or unit shutdown.	Y	
61.350(b)	Standards: Delay of Repair: Repair shall occur before the end of the next facility or unit shutdown	Y	
61.353	Alternative means of emission limitation	Y	
61.355	Test Methods, Procedures, and Compliance Provisions	Y	
61.355(a)	Test Methods, Procedures, and Compliance Provisions: Procedure for determining total annual benzene (TAB)	Y	
61.355(a)(1)	Test Methods, Procedures, and Compliance Provisions: Procedure for determining total annual benzene (TAB); aqueous wastes	Y	
61.355(a)(1)(i)	Test Methods, Procedures, and Compliance Provisions: For 61.355(d)(2) Annual Report; Annual Waste Quantity Determination	Y	
61.355(a)(1)(ii)	Test Methods, Procedures, and Compliance Provisions: For 61.355(d)(2) Annual Report; Annual Average Benzene Determination	Y	
61.355(a)(1)(iii)	Test Methods, Procedures, and Compliance Provisions: For 61.355(d)(2) Annual Report; Annual Benzene Quantity Calculation	Y	

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**Table IV – A.1**  
**Source-specific Applicable Requirements**  
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<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
61.355(a)(2)	Test Methods, Procedures, and Compliance Provisions: Procedure for determining total annual benzene (TAB); TAB Calculation	Y	
61.355(a)(3)	Test Methods, Procedures, and Compliance Provisions: Procedure for determining total annual benzene (TAB); If the TAB is equal to or greater than 10 Mg/yr (11 ton/yr), then the owner/operator shall comply with 61.342(c), (d), or (e).	Y	
61.355(a)(6)	Test Methods, Procedures, and Compliance Provisions: Procedure for determining total annual benzene (TAB); Turnaround Waste in TAB	Y	
61.355(b)	Test Methods, Procedures, and Compliance Provisions: Waste quantity determination – made at point of generation unless an exception applies	Y	
61.355(b)(1)	Test Methods, Procedures, and Compliance Provisions: Waste quantity determination location – Exception: Sour water strippers	Y	
61.355(b)(4)	Test Methods, Procedures, and Compliance Provisions: Waste quantity determination – Exception: Process Unit Turnaround Waste	Y	
61.355(b)(5)	Test Methods, Procedures, and Compliance Provisions: Waste quantity determination methods – Waste Quantity from Historical Records	Y	
61.355(b)(6)	Test Methods, Procedures, and Compliance Provisions: Waste quantity determination methods – Waste Quantity based on Design Capacity	Y	
61.355(b)(7)	Test Methods, Procedures, and Compliance Provisions: Waste quantity determination methods – Waste Quantity based on Representative Measurements	Y	
61.355(c)	Test Methods, Procedures, and Compliance Provisions: Determine flow-weighted annual average benzene concentration	Y	
61.355(c)(1)	Test Methods, Procedures, and Compliance Provisions: Criteria for determination of flow-weighted annual average benzene concentration	Y	
61.355(c)(1)(i)	Test Methods, Procedures, and Compliance Provisions: Criteria for determination of flow-weighted annual average benzene concentration Made at the point of waste generation except for cases in paragraphs (c)(1)(i)(A) through (D) of this section.	Y	
61.355(c)(1)(i)(A)	Test Methods, Procedures, and Compliance Provisions: Criteria for determination of flow-weighted annual average benzene concentration Exception: Sour water stripper	Y	
61.355(c)(1)(i)(D)	Test Methods, Procedures, and Compliance Provisions: Criteria for determination of flow-weighted annual average benzene concentration – Exception: Process Unit Turnaround wastes	Y	

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<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
61.355(c)(1)(ii)	Test Methods, Procedures, and Compliance Provisions: Determination of benzene concentration: Volatilization of benzene by exposure to air shall not be used to reduce the benzene concentration	Y	
61.355(c)(1)(iii)	Test Methods, Procedures, and Compliance Provisions: Determination of benzene concentration: Mixing or diluting with other wastes or materials shall not be used to reduce the benzene concentration	Y	
61.355(c)(1)(iv)	Test Methods, Procedures, and Compliance Provisions: Determination of benzene concentration: Determination made prior to any treatment of waste that removes benzene, except in (c)(1)(i)(A) through (D) of this section	Y	
61.355(c)(1)(v)	Test Methods, Procedures, and Compliance Provisions: Determination of benzene concentration: For wastes with multiple phases, provide the weighted-average benzene concentration based on the benzene concentration in each phase and the relative proportion of the phases	Y	
61.355(c)(2)	Test Methods, Procedures, and Compliance Provisions: Methods to determine benzene concentration: Knowledge of the Waste	Y	
61.355(c)(3)	Test Methods, Procedures, and Compliance Provisions: Methods to determine benzene concentration: Measurements of Benzene Concentration - procedures		
61.355(h)	Test Methods, Procedures, and Compliance Provisions: No detectable emissions test methods	Y	
61.355(k)	Test Methods, Procedures, and Compliance Provisions: Treat to 6 Determination of TBQ (total benzene quantity) required by 61.342(e)(2)	Y	
61.355(k)(1)	Test Methods, Procedures, and Compliance Provisions: Treat to 6 Determination of TBQ; determine benzene quantity in uncontrolled waste streams	Y	
61.355(k)(2)	Test Methods, Procedures, and Compliance Provisions: Treat to 6 Determination of TBQ; determine benzene quantity in controlled waste streams	Y	
61.355(k)(2)(i)	Test Methods, Procedures, and Compliance Provisions: Treat to 6 Determination of TBQ; determine benzene quantity in controlled waste streams: OPTION 1: Make determination where the waste stream enters the first uncontrolled waste management unit	Y	
61.355(k)(2)(ii)	Test Methods, Procedures, and Compliance Provisions: Treat to 6 Determination of TBQ; determine benzene quantity in controlled waste streams: OPTION 2: Determination for wastes discharged from facility	Y	

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**Table IV – A.1**  
**Source-specific Applicable Requirements**  
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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
61.355(k)(2)(iii)	Test Methods, Procedures, and Compliance Provisions: Treat to 6 Determination of TBQ; determine benzene quantity in controlled waste streams: OPTION 3: Determination for wastes transferred offsite.	Y	
61.355(k)(2)(iv)	Test Methods, Procedures, and Compliance Provisions: Treat to 6 Determination of TBQ; Determine annual waste quantity of controlled wastes using procedures in 61.355(b)(5), (6), or (7)	Y	
61.355(k)(2)(v)	Test Methods, Procedures, and Compliance Provisions: Treat to 6 Determination of TBQ; Determine flow-weighted annual average benzene concentration for controlled wastes using procedures in 61.355(c)(2), or (3)	Y	
61.355(k)(3)	Test Methods, Procedures, and Compliance Provisions: Treat to 6 Determination of TBQ; Determine benzene quantity in waste generated less than one time per year	Y	
61.355(k)(5)	Test Methods, Procedures, and Compliance Provisions: Treat to 6 Determination of TBQ; Treat to 6 TBQ calculation method for controlled wastestreams	Y	
61.355(k)(6)	Test Methods, Procedures, and Compliance Provisions: Treat to 6 Determination of TBQ; Treat to 6 total TBQ calculation method	Y	
61.355(k)(7)	Test Methods, Procedures, and Compliance Provisions: Treat to 6 Determination of TBQ; Eliminate double counting	Y	
61.356	Recordkeeping Requirements	Y	
61.356(a)	Recordkeeping requirements; Retention	Y	
61.356(b)	Recordkeeping requirements; Waste stream records	Y	
61.356(b)(1)	Recordkeeping requirements; Uncontrolled Waste Stream Records	Y	
61.356(b)(4)	Recordkeeping requirements; Treat to 6 (61.342(e)) Waste Stream Records	Y	
61.356(b)(5)	Recordkeeping requirements; Process unit turnaround waste records	Y	
61.356(c)	Recordkeeping requirements; Offsite Waste Transfer Records	Y	
61.356(g)	Recordkeeping Requirements: Visual inspections per 61.343 through 61.347	Y	
61.356(h)	Recordkeeping Requirements: No detectable emissions tests per 61.343 through 61.347, and 61.349	Y	
61.357	Reporting Requirements	Y	
61.357(a)(1)	Reporting Requirements - Annual Benzene Report Contents [61.357(d)(2)]; TAB determined in accordance with 61.355(a)	Y	
61.357(a)(2)	Reporting Requirements - Annual Benzene Report Contents [61.357(d)(2)]; Waste stream table (identify as controlled or uncontrolled)	Y	
61.357(a)(3)	Reporting Requirements - Annual Benzene Report Contents [61.357(d)(2)]; Uncontrolled waste stream data	Y	

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<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
61.357(a)(3)(i)	Reporting Requirements - Annual Benzene Report Contents [61.357(d)(2)]: Uncontrolled waste stream data - Whether or not the water content of the waste stream is greater than 10 percent;	Y	
61.357(a)(3)(ii)	Reporting Requirements - Annual Benzene Report Contents [61.357(d)(2)]: Uncontrolled waste stream data - Whether or not the waste stream is a process wastewater stream, product tank drawdown, or landfill leachate;	Y	
61.357(a)(3)(iii)	Reporting Requirements - Annual Benzene Report Contents [61.357(d)(2)]: Uncontrolled waste stream data - Annual waste quantity for the waste stream;	Y	
61.357(a)(3)(iv)	Reporting Requirements - Annual Benzene Report Contents [61.357(d)(2)]: Uncontrolled waste stream data - Range of benzene concentrations for the waste stream;	Y	
61.357(a)(3)(v)	Reporting Requirements - Annual Benzene Report Contents [61.357(d)(2)]: Uncontrolled waste stream data - Annual average flow-weighted benzene concentration for the waste stream; and	Y	
61.357(a)(3)(vi)	Reporting Requirements - Annual Benzene Report Contents [61.357(d)(2)]: Uncontrolled waste stream data - Annual benzene quantity for the waste stream.	Y	
61.357(d)	Reporting Requirements: Facilities with 10 Mg/yr or more total benzene in waste	Y	
61.357(d)(2)	Reporting Requirements: Annual Benzene Report – with information specified in 61.357(a)(1), (2), and (3)	Y	
61.357(d)(5)	Reporting Requirements: Annual Benzene Report requirements if complying with 61.342(e)- Treat to 6 waste stream data requirements	Y	
61.357(d)(5)(i)	Reporting Requirements: Annual Benzene Report requirements if complying with 61.342(e)- Treat to 6 waste stream data requirements – uncontrolled waste streams	Y	
61.357(d)(5)(ii)	Reporting Requirements: Annual Benzene Report requirements if complying with 61.342(e)- Treat to 6 waste stream data requirements – controlled waste streams	Y	
61.357(d)(6)	Reporting Requirements: Quarterly Inspection Verification Report	Y	
61.357(d)(7)	Reporting Requirements: Quarterly Report	Y	
61.357(d)(7)(iv)	Reporting Requirements: Quarterly Report; Records of Operation Outside of Range; Control Devices	Y	
61.357(d)(7)(iv) (C)	Reporting Requirements: Quarterly Report; Records of Operation Outside of Range; Control Devices; Process Heater Operation Low Temperature	Y	
61.357(d)(7)(iv) (G)	Reporting Requirements: Quarterly Report; Records of Operation Outside of Range; Control Devices; Change in Heater Design	Y	
61.357(d)(8)	Reporting Requirements: Annual Inspection Report – Inspection Summary when detectable emissions detected	Y	

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61.357(e)	Reporting Requirements for 61.351 and 61.352 equipment	Y	
61.357(g)	Reporting Requirements for 61.352 tank seal gaps	Y	
<b>40 CFR 63 Subpart A</b>	<b>NESHAPs for Source Categories - General Provisions (12/22/2008)</b>		
63.1	Applicability	Y	
63.2	Definitions	Y	
63.3	Units and abbreviations	Y	
63.4	Prohibited activities and circumvention	Y	
63.5	Preconstruction review and notification requirements	Y	
63.6	Compliance with standards and maintenance requirements	Y	
63.7	Performance test requirements	Y	
63.8	Monitoring requirements	Y	
63.9	Notification requirements	Y	
63.10	Recordkeeping and reporting requirements	Y	
63.12	State Authority and Delegations	Y	
63.13	Addresses of EPA Regional Offices	Y	
63.14	Incorporation by Reference	Y	
63.15	Availability of Information and confidentiality	Y	
63.16	Performance Track Provisions	Y	
<b>40 CFR 63 Subpart B</b>	<b>NESHAPs for Source Categories: Requirements for Control Technology Determinations for Major Sources in Accordance with Clean Air Act Sections, Section 112(g) and 112(j); Final Rule (07/11/2005)</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(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 G</b>	<b>NESHAPs for Source Categories: SO2 Process Vents, Storage Vessels, Transfer Operations, and Wastewater (12/21/2006)</b> <b>Requirements for Storage Vessels Subject to 63 Subpart CC</b>		
63.120(b)	Storage Vessel Provisions. Procedures to Determine Compliance— Compliance Demonstration-- External floating roof	Y	
63.120(b)(1)	Storage Vessel Provisions. Procedures to Determine Compliance— Compliance Demonstration-- External FR seal gap measurement	Y	



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63.120(b)(1)(i)	Storage Vessel Provisions. Procedures to Determine Compliance— Compliance Demonstration-- External FR with double seals primary seal gap measurement	Y	
63.120(b)(1)(iii)	Storage Vessel Provisions. Procedures to Determine Compliance— Compliance Demonstration-- External FR with double seals secondary seal gap	Y	
63.120(b)(1)(iv)	Storage Vessel Provisions. Procedures to Determine Compliance— Compliance Demonstration-- External FR seal inspections prior to tank refill after service	Y	
63.120(b)(2)	Primary seal gap standards	Y	
63.120(b)(3)	Secondary seal gap standards	Y	
63.120(b)(4)	Seal gap measurement methods	Y	
<b>40 CFR 63 Subpart R</b>	<b>NESHAPS for Source Categories - Gasoline Distribution Facilities (Bulk Gasoline Terminals and Pipeline Breakout Stations) (12/22/2008)</b> (Requirements for owner/operators of gasoline trucks loaded at S1025)		
63.425	Test Methods and procedures	Y	
63.425(e)	Annual certification test – gasoline cargo tanks [conducted by cargo truck owner]	Y	
63.425(f)	Leak detection test (Method 21) – gasoline cargo tanks [conducted by cargo truck owner]	Y	
63.425(g)	N2 pressure decay field test – gasoline cargo tanks [conducted by cargo truck owner]	Y	
63.425(h)	Continuous performance pressure decay test – gasoline cargo tanks [conducted by cargo truck owner]	Y	
<b>40 CFR 63 Subpart CC</b>	<b>NESHAPs for Source Categories - Petroleum Refineries (06/23/2003)</b>		
63.640(a)	Applicability applies to petroleum refining process units and related emission points	Y	
63.640(c)	Applicability and Determination of Affected Source – Includes all emission points listed in subpart	Y	
63.640(d)	Applicability and Determination of Affected Source – Exclusions	Y	
63.640(e)	Applicability and Determination of Affected Source – Storage Vessels	Y	
63.640(f)	Applicability and Determination of Affected Source – Miscellaneous Process Vents	Y	
63.640(g)	Applicability and Determination of Affected Source – Exempt Processes	Y	
63.640(h)	Applicability and Determination of Affected Source – Compliance dates	Y	

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<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
63.640(i)	Applicability and Determination of Affected Source – Additional petroleum refining process units at existing major source	Y	
63.640(j)	Applicability and Determination of Affected Source – Changes to existing petroleum refining process units	Y	
63.640(k)	Applicability and Determination of Affected Source – Additional requirements for new or changed process units if subject to requirements for new process units in 63.640(i) or (j)	Y	
63.640(l)	Applicability and Determination of Affected Source – Requirements for added Group 1 emission points (i.e. process vents, storage vessels, etc) not subject to requirements for new process units in 63.640(i) or (j)	Y	
63.640(m)	Applicability and Determination of Affected Source – Changes causing Group 2 emission points to become Group 1 points	Y	
63.640(q)	Applicability and Determination of Affected Source 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	Y	
63.642	General Standards	Y	
63.642(a)	Apply for a part 70 or part 71 operating permit	Y	
63.642(c)	Table 6 of this subpart specifies the subpart A provisions that apply.	Y	
63.642(d)	Initial performance tests and compliance determinations shall be required only as specified in this subpart	Y	
63.642(e)	Keep copies of all applicable reports and records for at least 5 years, except as otherwise specified in this subpart.	Y	
63.642(f)	All reports required by this subpart shall be sent to the Administrator	Y	
63.642(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	Wastewater Provisions	Y	
63.647(a)	Wastewater Provisions; Group 1 WW streams comply with 61.340 through 61.355 in 40 CFR 61 Subpart FF	Y	
63.647(b)	Wastewater Provisions; Definitions	Y	
63.647(c)	Wastewater Provisions; Operation consistent with minimum or maximum permitted concentrations or operating parameter values	Y	
63.654	Reporting and Recordkeeping Requirements	Y	
63.654(a)	Reporting and recordkeeping requirements; Group 1 WW streams comply with 61.356 and 61.357 in 40 CFR 61 Subpart FF	Y	

## IV. Source-Specific Applicable Requirements

**Table IV – A.1  
 Source-specific Applicable Requirements  
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<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(e)	Reporting and Recordkeeping Requirements; Required Reports and Records	Y	
63.654(f)	Reporting and Recordkeeping Requirements; Notification of Compliance Status Reports	Y	
63.654(g)	Periodic Reporting and Recordkeeping Requirements; Periodic Reports	Y	
63.654(h)	Reporting and Recordkeeping Requirements; Other reports	Y	
63.654(i)	Reporting and Recordkeeping Requirements; Recordkeeping	Y	
Appendix Table 1	Hazardous Air Pollutants	Y	
Appendix Table 6	General Provisions Applicability to Subpart CC	Y	
<b>40 CFR 63 Subpart UUU</b>	<b>NESHAPs for Source Categories - Petroleum Refineries: Catalytic Cracking Units, Catalytic Reforming Units, and Sulfur Recovery Units (04/20/2006)</b>		
63.1560	Applicability and Designation of Affected Facilities	Y	
63.1561	Applicability	Y	
63.1561(a)(1)	Applicable to petroleum refineries located at a major source of HAP emissions	Y	
63.1561(a)(2)	Applicable to a major source of HAPs with potential to emit 10 tpy any single HAP or 25 tpy of any combination of HAPs	Y	
63.1562	Affected Sources	Y	
63.1562(a)	Applicable to any new, reconstructed, or existing source at a petroleum refinery	Y	
63.1562(b)	Applicable affected sources include catalytic regenerators, catalytic reforming units, sulfur recovery units, and bypass lines serving affected units	Y	
63.1562(c)	An affected source is a new source if commenced construction after September 11, 1998	Y	
63.1562(d)	An affected source is reconstructed per 63.2	Y	
63.1562(e)	An affected source is existing if it is not new or reconstructed.	Y	
63.1562(f)	Subpart UUU does not apply to:	Y	
63.1562(f)(4)	equipment associated with bypass lines including low leg drains, high point bleed, analyzer vents, open-ended valves or lines, or pressure relief valves needed for safety reasons.	Y	
63.1562(f)(5)	gaseous streams routed to a fuel gas system.	Y	
63.1563	Compliance Schedule	Y	
63.1563(a)	Compliance schedule for new and reconstructed sources	Y	
63.1563(a)(2)	Comply with emission limitations and work practice standards for new and reconstructed sources upon startup of the affected source	Y	
63.1563(b)	Comply with the emission limitations and work practice standards for existing sources by April 11, 2005.	Y	

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**Table IV – A.1**  
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<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
63.1563(e)	Meet the notification requirements according to 63.1574 and 40 CFR 60 Part 63 Subpart A.	Y	
<b>40 CFR 63 Subpart GGGGG</b>	<b>NESHAPS for Source Categories - Site Remediation (11/29/2006)</b>		
63.7880	Purpose: Establish emission limitations and work practice standards for HAPs from site remediation activities and requirements for initial and continuous compliance demonstrations	Y	
63.7881	Applicability: Am I subject to this subpart?	Y	
63.7881(a)	Applicability: Remediation subject to Subpart GGGGG if meets all three conditions below:	Y	
63.7881(a)(1)	(1) Site remediation cleans up a remediation material (63.7957 definition)	Y	
63.7881(a)(2)	(2) Facility with remediation activity also has one or more stationary sources that emit HAP and are in a source category that is regulated by another 40 CFR 63 subpart	Y	
63.7881(a)(3)	(3) Facility with remediation activity is a major source of HAP	Y	
63.7881(c)	Applicability: Recordkeeping only required if remediation activity meets conditions below:	Y	
63.7881(c)(1)	(1) Total HAP contained in remediation material at all remediation activities on site is less than 1 MG annually	Y	
63.7881(c)(2)	(2) Prepare and maintain documentation to support HAP determination	Y	
63.7881(c)(3)	(3) Title V requirements to include recordkeeping requirement	Y	
63.7881(d)	Applicability: Remediation not subject to Subpart GGGGG if remediation activities are complete and notifications of completion have been submitted. Records are required.	Y	
63.7882	Applicability: Affected sources	Y	
63.7882(a)	Applicability: Affected sources; new, reconstructed, or existing sources	Y	
63.7882(a)(1)	Affected source: Process vents – from remediation processes (i.e., soil vapor extraction and bioremediation processes, thermal desorption, and air stripping)	Y	
63.7882(a)(2)	Affected source: Remediation material management units – (i.e., tank, surface impoundment, container, OWS, or transfer system to manage remediation material). Tanks or containers with vents are process vents	Y	
63.7882(a)(3)	Affected source: Equipment leaks – (pumps, valves, etc used to manage remediation materials and meeting both of the following conditions)	Y	
63.7882(a)(3)(i)	Equipment leaks in components containing or contacting remediation material with concentration of HAP $\geq$ 10% by weight	Y	
63.7882(a)(3)(ii)	Equipment leaks in components operated more than 300 hours in calendar year	Y	

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63.7882(b)	Affected sources: Existing sources commenced construction or reconstruction before July 30, 2002	Y	
63.7882(c)	Affected sources: New sources commenced construction or reconstruction on or after July 30, 2002	Y	
63.7883	Compliance Schedule	Y	
63.7883(a)	Compliance Schedule: Existing sources	Y	
63.7883(b)	Compliance Schedule: New sources (non-radioactive)	Y	
63.7883(e)	Compliance Schedule: Notification requirements	Y	
63.7884	General Standards – each site remediation with affected sources	Y	
63.7884(a)	General Standards – comply with 63.7885 through 63.7955 as they apply to the affected sources	Y	
63.7884(b)	General Standards – requirements for remediations completed within 30 consecutive days	Y	
63.7885	Process Vents – General Standards	Y	
63.7885(a)	Select option and meet requirements of option selected	Y	
63.7885(b)	Options	Y	
63.7885(b)(1)	Option 1: Control HAPS per 63.7890 through 63.7893	Y	
63.7885(b)(2)	Option 2: Determine that average VOHAP concentration of remediation material is less than 10 ppmw	Y	
63.7885(b)(3)	Option 3: For process vents subject to another 40 CFR 61 or 40 CFR 63 Subpart, comply with the other subpart unless the process vent is exempt from the other subpart	Y	
63.7885(c)	Exemptions from 63.7885(b)	Y	
63.7885(c)(1)(i)	Exemption 1: Process vent stream flow rate < 0.005 m <sup>3</sup> /min at standard conditions	Y	
63.7885(c)(1)(ii)	Exemption 2: Process vent stream flow rate < 6.0 m <sup>3</sup> /min at standard conditions and the total HAP concentration is < 20 ppmw	Y	
63.7885(c)(2)	Exemption demonstration requirements	Y	
63.7886	Remediation Material Management Units – General Standards	Y	
63.7886(a)	Select option and meet requirements of option selected	Y	
63.7886(b)	Options	Y	
63.7886(b)(1)	Option 1: Control HAP emissions by specific requirements for remediation management unit type	Y	
63.7886(b)(1)(i)	Option 1a: Control HAP emissions for tanks	Y	
63.7886(b)(1)(ii)	Option 1b: Control HAP emissions for containers	Y	
63.7886(b)(1)(iii)	Option 1c: Control HAP emissions for surface impoundment	Y	
63.7886(b)(1)(iv)	Option 1d: Control HAP emissions for oil-water or organic-water separator	Y	
63.7886(b)(1)(v)	Option 1e: Control HAP emissions for transfer system	Y	
63.7886(b)(2)	Option 2: Determine that average VOHAP concentration of remediation material is less than 500 ppmw.	Y	

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**Table IV – A.1**  
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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.7886(b)(3)	Option 3: For remediation management units subject to another 40 CFR 61 or 40 CFR 63 Subpart, comply with the other subpart unless the unit is exempt from the other subpart	Y	
63.7886(b)(4)	Option 4: Meet requirements for open tanks or surface impoundments used for biological treatment process	Y	
63.7886(d)	Exemption for management units if total annual HAP is less than 1 Mg/yr	Y	
63.7886(d)(1)	Designate exempt units and submit written notification	Y	
63.7886(d)(2)	Prepare initial determination of total annual HAP in exempt units and maintain documentation	Y	
63.7887	Equipment Leaks – General Requirements	Y	
63.7887(a)	Option 1: Implement LDAR as specified in 63.7920 through 63.7922	Y	
63.7887(b)	Option 2: For equipment leaks subject to another 40 CFR 61 or 40 CFR 63 Subpart, comply with the other subpart unless the equipment leak is exempt from the other subpart	Y	
63.7890	Process Vents – Emission limits and work practice standards	Y	
63.7890(a)	Process Vents – Definition of affected sources	Y	
63.7890(b)	Process Vents – Facility-wide emission limit options (can use both controlled and uncontrolled vent streams to achieve applicable facility-wide emission limit)	Y	
63.7890(b)(1)	Option 1: Reduce total HAP emissions to < 3.0 lb/hr and 3.1 tpy	Y	
63.7890(b)(2)	Option 2: Reduce total TOC emissions to < 3.0 lb/hr and 3.1 tpy	Y	
63.7890(b)(3)	Option 3: Reduce total HAP emissions by 95% or more	Y	
63.7890(b)(4)	Option 4: Reduce total TOC emissions by 95% or more	Y	
63.7890(c)	Process Vents – closed vent system and control device requirements	Y	
63.7891	Process Vents – Initial Compliance	Y	
63.7891(a)	Process Vents – Initial Compliance requirements	Y	
63.7891(b)	Process Vents – Measure emissions or use procedures in 63.7941 to demonstrate compliance with applicable option	Y	
63.7891(b)(1)	Option 1: Reduce total HAP emissions to < 3.0 lb/hr and 3.1 tpy	Y	
63.7891(b)(2)	Option 2: Reduce total TOC emissions to < 3.0 lb/hr and 3.1 tpy	Y	
63.7891(b)(3)	Option 3: Reduce total HAP emissions by 95% or more	Y	
63.7891(b)(4)	Option 4: Reduce total TOC emissions by 95% or more	Y	
63.7891(c)	Process Vents – meet closed vent system and control device requirements in 63.7928	Y	
63.7891(d)	Process Vents – Initial Compliance records per 63.7952	Y	
63.7892	Process Vents inspection and monitoring requirements	Y	
63.7893	Process Vents – Continuous Compliance	Y	
63.7893(a)	Process Vents – Continuous Compliance requirements	Y	
63.7893(b)	Process Vents – Maintain emission levels to meet facility-wide emission limits that apply for option chosen:	Y	

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**Table IV – A.1**  
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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.7893(b)(1)	Option 1: Reduce total HAP emissions to < 3.0 lb/hr and 3.1 tpy	Y	
63.7893(b)(2)	Option 2: Reduce total TOC emissions to < 3.0 lb/hr and 3.1 tpy	Y	
63.7893(b)(3)	Option 3: Reduce total HAP emissions by 95% or more	Y	
63.7893(b)(4)	Option 4: Reduce total TOC emissions by 95% or more	Y	
63.7893(c)	Process Vents – meet closed vent system and control device requirements in 63.7928	Y	
63.7893(d)	Process Vents – Continuous Compliance records per 63.7952	Y	
63.7895	Tanks – Emission limits and work practice standards	Y	
63.7895(a)	Tanks – Emission limits and work practice standards	Y	
63.7895(b)	Tanks – Control requirements	Y	
63.7895(b)(1)	Rqmt 1: Determine maximum HAP vapor pressure	Y	
63.7895(b)(2)	Rqmt 2: If maximum HAP vapor pressure is less than 76.6 kPa, determine which tank level controls apply and meet the applicable requirements in paragraph 63.7895(c) or (d)	Y	
63.7895(b)(3)	Rqmt 3: If maximum HAP vapor pressure is greater than or equal to 76.6 kPa, then Tank Level 2 controls are required	Y	
63.7895(b)(4)	Rqmt 4: For tanks sued for waste stabilization process, use Tank Level 2 controls	Y	
63.7895(c)	Tank Level 1 Controls: install and operate a fixed roof or chose Tank Level 2 controls	Y	
63.7895(d)	Tank Level 2 control options	Y	
63.7895(d)(1)	Option 1: Internal floating roof as specified	Y	
63.7895(d)(2)	Option 2: External floating roof as specified	Y	
63.7895(d)(3)	Option 3: Fixed roof with closed vent system and control device meeting standards in 63.7925	Y	
63.7895(d)(4)	Option 4: Pressure tank as specified	Y	
63.7895(d)(5)	Option 5: Total enclosure and vent emissions through closed vent system and control device meeting standards in 63.7925	Y	
63.7895(e)	Tank Level 2 control options – request approval for alternative	Y	
63.7896	Tanks – Initial Compliance	Y	
63.7896(a)	Tanks – Initial Compliance requirements	Y	
63.7896(b)	Tanks – NCS must contain statement of compliance for these requirements	Y	
63.7896(b)(1)	Rqmt 1: Tank control levels have been determined	Y	
63.7896(b)(2)	Rqmt 2: Maximum HAP vapor pressure determined for each remediation material placed in each affected tank with Tank Level 1 controls	Y	
63.7896(c)	Tanks - Demonstrate initial compliance for tanks with Tank Level 1 controls	Y	
63.7896(c)(1)	Rqmt 1: Install fixed roof and closure devices per 63.902(a) with records documenting design	Y	

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<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
63.7896(c)(2)	Rqmt 2: Initial visual inspection for defects per 63.906(a) with inspection records	Y	
63.7896(c)(3)	Rqmt 3: Operate fixed roof and closure devices per 63.902.	Y	
63.7896(d)	Tanks – Demonstrate initial compliance for tanks with Tank Level 2 controls using internal floating roof tank	Y	
63.7896(d)(1)	Rqmt 1: Install internal floating roof per 63.1063(a) with records documenting design	Y	
63.7896(d)(2)	Rqmt 2: Initial visual inspection for defects per 63.1063(d)(1) with inspection records	Y	
63.7896(d)(3)	Rqmt 3: Operate internal floating roof per 63.1063(b).	Y	
63.7896(e)	Tanks – Demonstrate initial compliance for tanks with Tank Level 2 controls using external floating roof tank	Y	
63.7896(e)(1)	Rqmt 1: Install external floating roof per 63.1063(a) with records documenting design	Y	
63.7896(e)(2)	Rqmt 3: Operate external floating roof per 63.1063(b).	Y	
63.7896(e)(3)	Rqmt 2: Initial seal gap measurement per 63.1063(d)(3) with records	Y	
63.7896(f)	Tanks - Demonstrate initial compliance for tanks with Tank Level 2 controls using fixed roof tank with closed vent system and control device	Y	
63.7896(f)(1)	Rqmt 1: Install tank and control device per 63.902(b) and (c) with records documenting design	Y	
63.7896(f)(2)	Rqmt 2: Initial visual inspection for defects per 63.695(b)(3) with inspection records	Y	
63.7896(f)(3)	Rqmt 3: Operate fixed roof and closure devices per 63.685(g).	Y	
63.7896(g)	Tanks - Demonstrate initial compliance for tanks with Tank Level 2 controls using pressure tank	Y	
63.7896(g)(1)	Rqmt 1: Install tank designed as pressure tank with records of design	Y	
63.7896(g)(2)	Rqmt 2: Operate pressure tank per 63.685(h)	Y	
63.7896(h)	Tanks - Demonstrate initial compliance for tanks with Tank Level 2 controls using tank in total enclosure	Y	
63.7896(h)(1)	Rqmt 1: NCS requirement for total enclosure tanks	Y	
63.7896(h)(2)	Rqmt 2: Demonstrate initial compliance for closed vent system and control device	Y	
63.7897	Tanks – Inspection and Monitoring Requirements	Y	
63.7897(a)	Tank Level 1 Controls – annual visual inspection	Y	
63.7897(b)	Tank Level 2 Controls Options:=-	Y	
63.7897(b)(1)	Option 1 – Internal Floating Roof – visual inspection requirements	Y	
63.7897(b)(2)	Option 2 – External floating roof – visual inspections and seal inspection requirements	Y	
63.7897(b)(3)	Option 3 – Fixed roof and control device requirements	Y	



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<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
63.7897(b)(3)(i)	Rqmt 1: Visual inspections of fixed roof and closures	Y	
63.7897(b)(3)(ii)	Rqmt 2: Monitor and inspect closed vent system and control device as required	Y	
63.7897(b)(4)	Option 4 – Pressure tank – annual visual inspections	Y	
63.7897(b)(5)	Option 5 – Permanent total enclosure vented to enclosed combustion device	Y	
63.7897(b)(5)(i)	Rqmt 1: Annual verification procedure for permanent total enclosure	Y	
63.7897(b)(5)(ii)	Rqmt 2: Monitor and inspect closed vent system and control device as required	Y	
63.7898	Tanks – Continuous compliance	Y	
63.7898(a)	Comply with applicable requirement in 63.7895	Y	
63.7898(b)	Comply with requirements to determine applicable tank control level (63.7895(b)) – Records required	Y	
63.7898(c)	Continuous compliance requirements for Tank Level 1 controls	Y	
63.7898(c)(1)	Rqmt 1: Operate and maintain the fixed roof and closure devices	Y	
63.7898(c)(2)	Rqmt 2: Annual visual inspection	Y	
63.7898(c)(3)	Rqmt 3: Repair defects	Y	
63.7898(c)(4)	Rqmt 4: Recordkeeping	Y	
63.7898(c)(5)	Rqmt 5: Compliance documentation records	Y	
63.7898(d)	Continuous compliance requirements for Tank Level 2 controls – Internal floating roof tanks	Y	
63.7898(d)(1)	Rqmt 1: Operate and maintain the internal floating roof	Y	
63.7898(d)(2)	Rqmt 2: Visual inspection requirements	Y	
63.7898(d)(3)	Rqmt 3: Repair defects	Y	
63.7898(d)(4)	Rqmt 4: Recordkeeping	Y	
63.7898(d)(5)	Rqmt 5: Compliance documentation records	Y	
63.7898(e)	Continuous compliance requirements for Tank Level 2 controls – External floating roof tanks	Y	
63.7898(e)(1)	Rqmt 1: Operate and maintain the external floating roof	Y	
63.7898(e)(2)	Rqmt 2: Visual inspection and seal inspection requirements	Y	
63.7898(e)(3)	Rqmt 3: Repair defects	Y	
63.7898(e)(4)	Rqmt 4: Recordkeeping	Y	
63.7898(e)(5)	Rqmt 5: Compliance documentation records	Y	
63.7898(f)	Continuous compliance requirements for Tank Level 2 controls – Fixed roof vented to a control device	Y	
63.7898(f)(1)	Rqmt 1: Operate and maintain the fixed roof and closure devices	Y	
63.7898(f)(2)	Rqmt 2: Annual visual inspection	Y	
63.7898(f)(3)	Rqmt 3: Repair defects	Y	
63.7898(f)(4)	Rqmt 4: Recordkeeping	Y	
63.7898(f)(5)	Rqmt 5: Meet continuous compliance requirements	Y	
63.7898(f)(6)	Rqmt 6: Compliance documentation records	Y	

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63.7898(g)	Continuous compliance requirements for Tank Level 2 controls – Pressure tank	Y	
63.7898(g)(1)	Rqmt 1: Operate and maintain the pressure tank and closure devices	Y	
63.7898(g)(2)	Rqmt 2: Annual visual inspection	Y	
63.7898(g)(3)	Rqmt 3: Compliance documentation records	Y	
63.7898(h)	Continuous compliance requirements for Tank Level 2 controls – permanent total enclosure vented to enclosed combustion device	Y	
63.7898(h)(1)	Rqmt 1: Annual verification procedure for enclosure	Y	
63.7898(h)(2)	Rqmt 2: Recordkeeping	Y	
63.7898(h)(3)	Rqmt 3: Meet continuous compliance requirements	Y	
63.7898(h)(3)	Rqmt 4: Compliance documentation records	Y	
63.7900	Containers – Emission limits and work practice standards	Y	
63.7900(a)	Containers – Definition of affected sources	Y	
63.7900(b)	Containers > 0.1 m <sup>3</sup> . Comply with 63.7900(b) or (d)	Y	
63.7900(b)(1)	Containers ≤ 0.46 m <sup>3</sup> ; Container Level 1 per 63.922 or Container Level 2 per 63.923	Y	
63.7900(b)(2)	Containers > 0.46 m <sup>3</sup> ; Option 1 - Container Level 2 controls per 63.923	Y	
63.7900(b)(3)	Containers > 0.46 m <sup>3</sup> ; Option 2 – Allowances for Container Level 1 controls	Y	
63.7900(b)(3)(i)	Containers > 0.46 m <sup>3</sup> require Container Level 1 controls if vapor pressure < 0.3 kPa at 20 C	Y	
63.7900(b)(3)(ii)	Containers > 0.46 m <sup>3</sup> require Container Level 1 controls if Total concentration of pure organic constituents with vapor pressure greater than 0.13 kPa at 20 C is less than 20% by weight	Y	
63.7900(c)	Containers used for treatment by waste stabilization process	Y	
63.7900(d)	Containers > 0.1 m <sup>3</sup> : Optional instead of 63.7999(b) – Container Level 3 and comply with requirements for closed vent system and control device	Y	
63.7900(e)	Alternatives to work practice standards	Y	
63.7901	Containers – Initial Compliance	Y	
63.7901(a)	Containers – Initial Compliance per 63.7990	Y	
63.7901(b)	Containers – Initial Compliance – notification of compliance status; Signed statement of compliance with following requirements:	Y	
63.7901(b)(1)	Determined applicable container control levels	Y	
63.7901(b)(2)	Determined and recorded maximum vapor pressure or total organic concentration for containers > 0.46 m <sup>3</sup> that do not use Container Level 2 or Level 3 controls	Y	
63.7901(c)	Demonstrate initial compliance for each container with Container Level 1 controls by certifying (c)(1) and (c)(2) in the notification of compliance status	Y	

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63.7901(d)	Demonstrate initial compliance for each container with Container Level 2 controls by certifying (d)(1) thru (d)(4) in the notification of compliance status	Y	
63.7901(e)	Demonstrate initial compliance for each container with Container Level 3 controls by certifying (e)(1) and (e)(2) in the notification of compliance status	Y	
63.7902	Containers – Inspection and Monitoring Requirements	Y	
63.7902(a)	Inspect Container Level 1 or Container Level 2 contains IAW 63.926(a)	Y	
63.7902(b)	Meet Container Level 3 requirements as follows:	Y	
63.7902(b)(1)	Container Level 3: annual verification procedure	Y	
63.7902(b)(2)	Container Level 3: monitor and inspect closed vent system and control device IAW 63,7927	Y	
63.7903	Containers – Continuous Compliance	Y	
63.7903(a)	Containers – Continuous Compliance per 63.7990	Y	
63.7903(b)	Containers – Continuous Compliance with requirement to determine applicable container control level	Y	
63.7903(b)(1)	Records of containers	Y	
63.7903(b)(2)	Containers > 0.46 m3 and using Container Level 1 controls – meet the following requirements:	Y	
63.7903(b)(2)(i)	Container Level 1 controls: Records of max vapor pressure or total organic concentration	Y	
63.7903(b)(2)(ii)	Container Level 1 controls: New determination when remediation material changes – keep records	Y	
63.7903(b)(3)	Records of compliance	Y	
63.7903(c)	Containers – Continuous Compliance Demonstration for Container Level 1 controls	Y	
63.7903(c)(1)	Covers	Y	
63.7903(c)(2)	Annual inspections	Y	
63.7903(c)(3)	Emptying or repairing	Y	
63.7903(c)(4)	Inspection records	Y	
63.7903(c)(4)(i)	Inspection records - Date	Y	
63.7903(c)(4)(ii)	Inspection records – Defect information	Y	
63.7903(c)(5)	Records of compliance	Y	
63.7903(d)	Containers – Continuous Compliance Demonstration for Container Level 2 controls	Y	
63.7903(d)(1)	Transferring material	Y	
63.7903(d)(2)	Covers	Y	
63.7903(d)(3)	Annual inspections	Y	
63.7903(d)(4)	Emptying or repairing	Y	
63.7903(d)(5)	Records of inspections	Y	
63.7903(d)(5)(i)	Inspection records - Date	Y	

## IV. Source-Specific Applicable Requirements

**Table IV – A.1**  
**Source-specific Applicable Requirements**  
**FACILITY B2758**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
63.7903(d)(5)(ii)	Inspection records – Defect information	Y	
63.7903(d)(6)	Records of compliance	Y	
63.7903(e)	Containers – Continuous Compliance Demonstration for Container Level 3 controls	Y	
63.7903(e)(1)	Annual verification procedure	Y	
63.7903(e)(2)	Records per 63.696(f)	Y	
63.7903(e)(3)	Comply with 63.7928	Y	
63.7903(e)(4)	Records of compliance	Y	
63.7910	Separators – Emission limits and work practice standards	Y	
63.7910(a)	Separators – Definition of affected sources	Y	
63.7910(b)	Separators – Install and operate air pollution controls	Y	
63.7910(b)(1)	Separator controls – Option 1: Floating roof (fixed roof allowed where floating roof infeasible)	Y	
63.7910(b)(2)	Separator controls – Option 2: Fixed roof vented to control device	Y	
63.7910(b)(3)	Separator controls – Option 3: Pressurized separator	Y	
63.7910(c)	Separators – Alternatives may be approved	Y	
63.7911	Separators – Initial Compliance	Y	
63.7911(a)	Separators – Initial compliance per 63.7910	Y	
63.7911(b)	Separators with floating roof – notification of compliance status; Signed statement of compliance with following requirements:	Y	
63.7911(b)(1)	Records documenting design and installation of roof and closure devices	Y	
63.7911(b)(2)	Operate floating roof and closure devices per 63.1043(c)	Y	
63.7911(b)(3)	Initial seal gap measurement performed and records available	Y	
63.7911(b)(4)	Initial visual inspection performed and records available	Y	
63.7911(b)(5)	Fixed roof portions meet requirements of 63.7901(c)	Y	
63.7911(c)	Separators with fixed roof vented to control device – notification of compliance status; Signed statement of compliance with following requirements:	Y	
63.7911(c)(1)	Records documenting design and installation of roof and closure devices	Y	
63.7911(c)(2)	Operate fixed roof and closure devices per 63.1042(c)	Y	
63.7911(c)(3)	Initial visual inspection performed and records available	Y	
63.7911(c)(4)	Initial compliance demonstrated with emission limits and work practice standards	Y	
63.7911(d)	Separators - Pressurized – notification of compliance status; Signed statement of compliance with following requirements:	Y	
63.7911(d)(1)	Records documenting design and installation of pressurized separator	Y	
63.7911(d)(2)	Operate pressurized separator per 63.1045(b)(3)	Y	
63.7912	Separators – Inspection and monitoring requirements	Y	

## IV. Source-Specific Applicable Requirements

**Table IV – A.1**  
**Source-specific Applicable Requirements**  
**FACILITY B2758**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
63.7912(a)	Separators – Inspection and monitoring requirements – Floating roof	Y	
63.7912(a)(1)	Annual seal gap measurement	Y	
63.7912(a)(2)	Annual visual inspection	Y	
63.7912(b)	Separators – Inspection and monitoring requirements – Cover vented to control device	Y	
63.7912(b)(1)	Visual inspection of cover and closure device	Y	
63.7912(b)(2)	Closed vent system and control device monitoring and inspection	Y	
63.7912(c)	Separators – Inspection and monitoring requirements – Pressurized separator	Y	
63.7913	Separators – Continuous compliance	Y	
63.7913(a)	Separators – Continuous compliance requirements	Y	
63.7913(b)	Separators with floating roof – Continuous compliance	Y	
63.7913(b)(1)	Operate and maintain floating roof	Y	
63.7913(b)(2)	Annual seal gap measurements	Y	
63.7913(b)(3)	Annual visual inspections	Y	
63.7913(b)(4)	Repair defects	Y	
63.7913(b)(5)	Recordkeeping	Y	
63.7913(b)(6)	Compliance documentation records	Y	
63.7913(c)	Separators with fixed roof vented to control device – Continuous compliance	Y	
63.7913(c)(1)	Operate and maintain fixed roof and closure device	Y	
63.7913(c)(2)	Annual visual inspections	Y	
63.7913(c)(3)	Repair defects	Y	
63.7913(c)(4)	Recordkeeping	Y	
63.7913(c)(5)	Compliance documentation records	Y	
63.7913(d)	Separators - pressurized	Y	
63.7913(d)(1)	Operating at all times as required	Y	
63.7913(d)(2)	Annual visual inspection	Y	
63.7915	Transfer system emission limitations and work practice standards	Y	
63.7915(a)	Transfer system - comply with requirements for specific system	Y	
63.7915(c)	Transfer system – requirements for systems other than individual drain systems	Y	
63.7915(c)(2)	Continuous hard piping system – joints or seams must be permanently or semi-permanently sealed (welded or bolted/gasketed)	Y	
63.7916	Transfer system – Initial Compliance	Y	
63.7916(a)	Transfer system – Initial Compliance - comply with requirements for specific system	Y	
63.7916(d)	Transfer system – continuous hard piping – initial compliance by certifying (d)(1) and (d)(2)	Y	
63.7916(d)(1)	Certify installation of hard piped transfer system and have records	Y	

## IV. Source-Specific Applicable Requirements

**Table IV – A.1**  
**Source-specific Applicable Requirements**  
**FACILITY B2758**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
63.7916(d)(2)	Certify initial inspection of entire hard piped transfer system and have records	Y	
63.7917	Transfer Systems – Inspection and Monitoring Requirements	Y	
63.7917(c)	Transfer system – continuous hard piping – annual inspection of unburied portion for leaks and defects.	Y	
63.7917(e)	Transfer system – continuous hard piping – repair of defects	Y	
63.7917(e)(1)	First attempt at repairs	Y	
63.7917(e)(2)	Delay of repair	Y	
63.7917(e)(3)	Records – delay of repair	Y	
63.7918	Transfer system – Continuous Compliance	Y	
63.7918(a)	Transfer system – Continuous Compliance - comply with requirements for specific system	Y	
63.7918(d)	Transfer system – continuous hard piping – continuous compliance	Y	
63.7918(d)(1)	Operation and maintenance	Y	
63.7918(d)(2)	Annual inspection	Y	
63.7918(d)(3)	Repair of defects	Y	
63.7918(d)(4)	Records of compliance	Y	
63.7925	Closed Vent Systems and Control Devices – emission limits and work practice standards	Y	
63.7925(a)	Closed Vent Systems and Control Devices – emission limits and work practice standards	Y	
63.7925(b)	Closed Vent Systems and Control Devices – operate control device at all times when gases or vapors containing HAP are vented to it except:	Y	
63.7925(b)(1)	Bypass allowed for planned routine maintenance up to 240 hours per calendar year	Y	
63.7925(b)(2)	Bypass allowed to correct malfunction of closed-vent system or control device – as soon as practicable after malfunction	Y	
63.7925(c)	Closed Vent Systems and Control Devices – comply with emission limits and work practice standards	Y	
63.7925(d)	Closed Vent Systems and Control Devices for facility-wide process vent emission limits – requirements	Y	
63.7925(d)(1)	Option 1: Reduce total HAP (or TOC minus methane and ethane) emissions by 95%	Y	
63.7925(d)(2)	Option 2: Limit concentration of total HAP or TOC (minus methane and ethane) to 20 ppmvd or less @ 3% O <sub>2</sub>	Y	
63.7925(f)	Closed Vent Systems and Control Devices – process heater or boiler requirements	Y	
63.7925(f)(1)	Option 1: Introduce vent stream into flame zone; residence time $\geq 0.5$ seconds and temperature $\geq 760\text{C}$	Y	
63.7925(f)(2)	Option 2: Introduce vent stream with primary fuel	Y	

## IV. Source-Specific Applicable Requirements

**Table IV – A.1**  
**Source-specific Applicable Requirements**  
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<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
63.7925(f)(3)	Option 3: Introduce vent stream into permitted boiler or process heater complying with 40 CFR 266 Subpart H – Hazardous Waste Burned in Boilers and Industrial Furnaces	Y	
63.7925(g)	Closed Vent Systems and Control Devices – control device operating limits	Y	
63.7925(g)(1)	Regenerable carbon adsorption system requirements	Y	
63.7925(g)(2)	Nonregenerable carbon adsorption system requirements	Y	
63.7925(g)(3)	Condenser requirements	Y	
63.7925(g)(4)	Thermal incinerator requirements	Y	
63.7925(g)(5)	Catalytic incinerator requirements	Y	
63.7925(g)(6)	Boiler or process heater requirements	Y	
63.7925(h)	Closed Vent Systems and Control Devices – carbon absorption system work practice standards	Y	
63.7925(h)(1)	Regenerable carbon adsorption system work practices	Y	
63.7925(h)(2)	Nonregenerable carbon adsorption system work practices	Y	
63.7925(h)(3)	Nonregenerable carbon adsorption system alternative practices	Y	
63.7925(i)	Closed Vent Systems and Control Devices – catalytic incinerator work practice standards	Y	
63.7925(j)	Closed Vent Systems and Control Devices – alternative work practice standards	Y	
63.7926	Closed Vent Systems and Control Devices – Initial compliance	Y	
63.7926(a)	Closed Vent Systems and Control Devices – Initial compliance with 63.7925 requirements	Y	
63.7926(b)	Closed Vent Systems and Control Devices – NCS must contain statement of compliance for these closed vent system requirements	Y	
63.7926(b)(1)	Rqmt 1: Closed vent system installation and records	Y	
63.7926(b)(2)	Rqmt 2: Initial inspection of closed vent system and records	Y	
63.7926(c)	Closed Vent Systems and Control Devices – NCS must contain statement of compliance for control devices for facility-wide process vent emission control requirements	Y	
63.7926(c)(1)	Option 1: Document 95% control of emissions demonstrated in performance test or design evaluation	Y	
63.7926(c)(2)	Option 2: Document max emissions <= 20 ppmvd @ 3% O2 demonstrated in performance test or design evaluation	Y	
63.7926(d)	Closed Vent Systems and Control Devices – initial compliance demonstration - control device operating limits	Y	
63.7926(d)(1)	Rqmt 1: Establish appropriate operating limit(s) for each applicable operating parameter for control device per 63.7925(g)	Y	
63.7926(d)(2)	Rqmt 1: Record of applicable operating parameter data during performance test or design evaluation when emissions met applicable limit	Y	

#### IV. Source-Specific Applicable Requirements

**Table IV – A.1**  
**Source-specific Applicable Requirements**  
**FACILITY B2758**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
63.7926(e)	Closed Vent Systems and Control Devices – carbon adsorption system – spent carbon replacement and disposal work practice standards - NCS must contain statement of compliance	Y	
63.7926(f)	Closed Vent Systems and Control Devices – catalytic oxidizer – catalyst replacement work practice standards - NCS must contain statement of compliance	Y	
63.7926(h)	Closed Vent Systems and Control Devices – records demonstrating compliance with boiler or process heater work practice standards in 63.7925(f) - NCS must contain statement of compliance	Y	
63.7927	Closed vent system and control devices – inspection and monitoring requirements	Y	
63.7927(a)	Closed vent system and control devices – Closed vent system inspection and monitoring requirements	Y	
63.7927(a)(1)	Rqmt 1: Inspection and monitoring options	Y	
63.7927(a)(2)	Rqmt 2: Closed vent system bypass device requirements	Y	
63.7927(b)	Closed vent system and control devices – Regenerable carbon adsorption system inspection and monitoring requirements	Y	
63.7927(b)(1)	Rqmt 1: Use CPMS to measure and record hourly average total regeneration stream flow during carbon adsorption cycle	Y	
63.7927(b)(2)	Rqmt 2: Use CPMS to measure and record hourly average temperature during regeneration	Y	
63.7927(b)(3)	Rqmt 3: Use CPMS to measure and record hourly average temperature of adsorption bed after regeneration	Y	
63.7927(c)	Closed vent system and control devices – Nonregenerable carbon adsorption system inspection and monitoring requirements – CPMS – organic compounds in exhaust	Y	
63.7927(d)	Closed vent system and control devices – Condenser inspection and monitoring requirements – CPMS – exit temperature	Y	
63.7927(e)	Closed vent system and control devices – Thermal incinerator inspection and monitoring requirements – CPMS – hourly average firebox temperature	Y	
63.7927(f)	Closed vent system and control devices – Catalytic incinerator inspection and monitoring requirements – CPMS – two temperature sensors – inlet and outlet	Y	
63.7927(g)	Closed vent system and control devices – Boiler or process heater inspection and monitoring requirements – CPMS – hourly average firebox temperature	Y	
63.7927(i)	Closed vent system and control devices – Boiler or process heater inspection and monitoring requirements – if introduced into flame zone, then CPMS – combustion zone temperature	Y	
63.7928	Closed vent system and control devices – continuous compliance	Y	
63.7928(a)	Closed vent system and control devices – continuous compliance requirements	Y	



## IV. Source-Specific Applicable Requirements

**Table IV – A.1**  
**Source-specific Applicable Requirements**  
**FACILITY B2758**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.7928(b)	Closed vent system and control devices – closed vent system continuous compliance with 63.7925(c) requirements	Y	
63.7928(b)(1)	Closed vent system designed for no detectable emissions - annual monitoring and inspection	Y	
63.7928(b)(2)	Closed vent system designed for to operate below atmospheric pressure – annual visual inspection	Y	
63.7928(b)(3)	Closed vent system – repair defects	Y	
63.7928(b)(4)	Closed vent system – inspection records	Y	
63.7928(b)(5)	Closed vent system – optional monitoring records	Y	
63.7928(b)(6)	Closed vent system bypass device – flow detector records, if applicable	Y	
63.7928(b)(7)	Closed vent system bypass device – monthly inspections of seal or closure mechanism, if applicable	Y	
63.7928(c)	Closed vent system and control devices – control device continuous compliance with 63.7925(d) requirements	Y	
63.7928(c)(1)	For 63.7925(d)(1) limit: maintain emission reduction $\geq 95\%$	Y	
63.7928(c)(2)	For 63.7925(d)(2) limit: maintain emissions $\leq 20$ ppmvd @ 3% O <sub>2</sub>	Y	
63.7928(d)	Closed vent system and control devices – control device continuous compliance with 63.7925(g) requirements	Y	
63.7928(d)(1)	Maintain each operating limit as applicable to control device	Y	
63.7928(d)(2)	Monitor and inspect control device per 63.7927 as applicable	Y	
63.7928(d)(3)	Operate and maintain each CPMS per 63.7945 and collect and reduce data per 63.7946	Y	
63.7928(d)(4)	Recordkeeping	Y	
63.7928(e)	Closed Vent Systems and Control Devices – regenerable carbon adsorption system – spent carbon replacement and disposal work practice standards	Y	
63.7928(f)	Closed Vent Systems and Control Devices – nonregenerable carbon adsorption system – spent carbon replacement and disposal work practice standards	Y	
63.7928(g)	Closed Vent Systems and Control Devices – nonregenerable carbon adsorption system – spent carbon replacement and disposal work practice standards – alternative standards	Y	
63.7928(h)	Closed Vent Systems and Control Devices – catalytic oxidizer – catalyst replacement work practice standards	Y	
63.7928(j)	Closed Vent Systems and Control Devices –process heater work practice standards continuous compliance demonstration	Y	
63.7935	General Compliance Requirements	Y	
63.7935(a)	Comply at all times except during periods of startup, shutdown, and malfunction	Y	
63.7935(b)	Comply with 63.6(e)(1)(i)	Y	
63.7935(c)	Develop a written SSMP per 63.6(e)(3)	Y	

## IV. Source-Specific Applicable Requirements

**Table IV – A.1**  
**Source-specific Applicable Requirements**  
**FACILITY B2758**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
63.7935(e)	Report each non-compliance (deviation) including startup, shutdown, and malfunction	Y	
63.7935(f)	Demonstration of compliance with SSMP for deviations during startup, shutdown, and malfunction	Y	
63.7936	Requirements to transfer remediation material off-site to another facility	Y	
63.7937	General Standards – Initial Compliance	Y	
63.7938	General Standards – Continuous Compliance	Y	
63.7940	Initial Compliance Demonstrations – Compliance Schedule	Y	
63.7940(a)	Requirements for existing sources with performance tests or design evaluations	Y	
63.7940(b)	Requirements for existing sources without performance tests or design evaluations	Y	
63.7940(c)	Requirements for new sources	Y	
63.7941	Initial Compliance Demonstration - Methods	Y	
63.7941(a)	Initial Compliance Demonstration - Comply with applicable methods for affected sources	Y	
63.7941(b)	Initial Compliance Demonstration - Requirements for performance tests	Y	
63.7941(c)	Initial Compliance Demonstration - Requirements for design evaluation of control devices (carbon, condenser, vapor incinerator, boiler, process heater)	Y	
63.7941(d)	Initial Compliance Demonstration - Monitoring requirements during performance tests and design evaluations	Y	
63.7941(e)	Initial Compliance Demonstration – Process heater or boiler performance test requirements	Y	
63.7941(f)	Initial Compliance Demonstration – CPMS performance tests	Y	
63.7941(g)	Initial Compliance Demonstration – Requirements for visual inspections of affected sources	Y	
63.7941(i)	Initial Compliance Demonstration – Requirements for Container Level 2 tests	Y	
63.7941(j)	Initial Compliance Demonstration – Requirements for permanent total enclosures with control devices	Y	
63.7941(k)	Initial Compliance Demonstration – Requirements for Separators	Y	
63.7941(m)	Initial Compliance Demonstration – Reporting requirements for performance test or design evaluation	Y	
63.7942	Subsequent performance test requirements	Y	
63.7943	Method to determine average VOHAP concentration in remediation material	Y	
63.7944	Method to determine maximum HAP vapor pressure of remediation material	Y	
63.7945	Continuous Monitoring Systems – installation, operation, and maintenance requirements	Y	

## IV. Source-Specific Applicable Requirements

**Table IV – A.1**  
**Source-specific Applicable Requirements**  
**FACILITY B2758**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.7945(a)	CPMS requirements	Y	
63.7945(a)(1)	Must complete a minimum of one cycle of operation each successive 15-minute period	Y	
63.7945(a)(2)	Data availability requirements for valid hourly average	Y	
63.7945(a)(3)	Data availability requirements for valid averaging period	Y	
63.7945(a)(4)	CPMS must determine hourly average or daily average, if required	Y	
63.7945(b)	Records of each inspection, calibration, and validation check	Y	
63.7945(c)	Performance evaluation requirements	Y	
63.7946	Monitor and collect data to demonstrate continuous compliance	Y	
63.7946(a)	Monitor and collect data per 63.7946 and site-specific monitoring plan	Y	
63.7946(b)	Monitor continuously (or at required intervals) at all times that affected source is operating except for monitor malfunctions, associated repairs, and required QA activities (calibration, etc.)	Y	
63.7946(c)	Do not use data recorded during monitoring malfunctions, associated repairs, out of control periods and required QA activities in data averages and calculations. Such data may not be used to fulfill a minimum data availability requirement.	Y	
63.7947	Monitoring alternatives		
63.7947(a)	Use CEMS in place of a CPMS to measure control device outlet total organic emissions or organic HAP emissions concentration.		
63.7947(b)	Maintain the daily (24-hour) average total organic or HAP emissions concentration in exhaust vent stream of the control device outlet less than or equal to the site-specific operating limit established during the performance test		
63.7950	Notification, Reports and Records	Y	
63.7950(a)	Submit notifications required in 63 Subpart A as required	Y	
63.7950(b)	Initial Notification compliance date (past due)	Y	
63.7950(c)	Initial Notification – new or reconstructed affected source	Y	
63.7950(d)	Notification requirement – 60 days prior to performance tests	Y	
63.7950(e)	Notification of Compliance Status – required if performance test, design evaluation, or other initial compliance demonstration is required	Y	
63.7950(f)	Notification of alternative standard selected	Y	
63.7951	Reports	Y	
63.7951(a)	Reports: Compliance report due dates	Y	
63.7951(b)	Reports: Compliance report contents	Y	
63.7951(c)	Reports: Immediate SSM report	Y	
63.7951(d)	Reports: Title V deviation reporting requirements	Y	
63.7952	Recordkeeping	Y	

## IV. Source-Specific Applicable Requirements

**Table IV – A.1**  
**Source-specific Applicable Requirements**  
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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.7952(a)	Records required	Y	
63.7952(a)(1)	Records required: Copies of notifications and reports	Y	
63.7952(a)(2)	Records required: SSM records	Y	
63.7952(a)(3)	Records required: Performance tests and performance evaluations	Y	
63.7952(a)(4)	Records required: Applicability determinations for exemptions	Y	
63.7952(b)	Records required: CPMS	Y	
63.7952(b)(1)	Records required: CPMS records per 63.10(b)(2)	Y	
63.7952(b)(2)	Records required: CPMS performance evaluation plans	Y	
63.7952(c)	Records required: Continuous compliance demonstration records for all applicable requirements	Y	
63.7952(d)	Records required: Semiannual records (63.696(g) for planned routine maintenance of a control device for emissions from process vents	Y	
63.7953	Record retention	Y	
63.7953(a)	Record retention: Format	Y	
63.7953(b)	Record retention: 5 years	Y	
63.7953(c)	Record retention: 2 years on site; 3 years off-site	Y	
63.7953(d)	Record retention: Offsite for completed remediations or when no longer the owner	Y	
63.7955	Applicability of General Provisions 40 CFR 63 Subpart A	Y	
63.7956	Implementation and Enforcement	Y	
63.7957	Definitions	Y	
<b>BAAQMD Condition 8077</b>			
Part B1	Definitions	Y	
Part B2	Emissions – see Table A of Appendix A basis: cumulative increase, bubble, BACT)	Y	
Part B2A	Emissions Cap – annual limits	Y	
Part B2B	Emissions Cap – monthly limits	Y	
Part B2C	Emissions Cap – monthly compensatory emission limits	Y	
Part B2D	Emissions Cap – total accumulated emissions in calendar year limit	Y	
Part B2E	Emissions Cap – Exceedances of B2A and B2B	Y	
Part B3	Emission Reductions when limits in B2 are exceeded	Y	
Part B3A	Emission Reductions for exceedances of annual emission limits (B2A) (basis: cumulative increase, bubble)	Y	
Part B3B	Emission Reductions for exceedances of monthly maximum emission limits (B2B) (basis: cumulative increase, bubble)	Y	

**IV. Source-Specific Applicable Requirements**

**Table IV – A.1  
 Source-specific Applicable Requirements  
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<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
Part B3C	Emission Reductions for exceedances of monthly compensatory emission limits (B2C) (basis: cumulative increase, bubble)	Y	
Part B3D	Emission Reductions for exceedances of B2D cumulative emissions limits (basis: cumulative increase, bubble)	Y	
Part B3E	Emission Reductions - Hydrocarbon offsets for NOx (basis: cumulative increase, bubble)	Y	
Part B3F	Emission Reductions - Requirements for offsets for required abatement equipment (basis: cumulative increase, bubble, offsets)	Y	
Part B4	Monitoring	Y	
Part B4D	Monitoring required in Appendix D	Y	
Part B5	Reporting and Recordkeeping (basis: cumulative increase, offsets)	Y	
Part B5A	Recordkeeping and retention (basis: cumulative increase, offsets)	Y	
Part B5B	Monthly report [EMIT Report] (basis: cumulative increase, offsets)	Y	
Part B5C	Monthly audits (basis: cumulative increase, offsets)	Y	
Part B8	Hydrocarbon Controls	Y	
Part B9	Sulfur Recovery Facilities	Y	
Part B9B	Emergency operations without sulfur recovery	Y	
Part B10	Access (basis: cumulative increase, offsets, BACT)	Y	
Part B11	Enforcement (basis: cumulative increase, offsets, BACT)	Y	
Part B12	Miscellaneous (basis: cumulative increase, offsets)	Y	
Part B13	Severability (basis: cumulative increase, offsets, BACT)	Y	
Part B14	Environmental Management Plan (basis: cumulative increase, offsets, BACT)	Y	
Appendix A	Refinery emission sources covered by Cap emission limitations	Y	
Appendix B	Data for determining emissions from marine activity	Y	
Appendix C	Procedures for determining emissions from refinery sources identified in Appendix A	Y	
Appendix D	Emission and fuel use monitoring instruments and procedures	Y	
<b>BAAQMD Condition 18379</b>	<b>Refinery Wide Permit Conditions</b>		
Part 1	Limitation to use ERCs from banking application #3180 (permanent closure of S-940) only for Facility B2758. (basis: Regulation 2, Rule 4, Section 302.1)	Y	
<b>BAAQMD Condition 19528</b>	<b>Refinery Wide Permit Conditions</b>		
Part 12	Requirements Applicable to Tanks Exempt from Regulation 8-5, pursuant to Regulation 8-5-117	Y	
Part 12A	Record Keeping Requirements Applicable to Tanks Exempt from Regulation 8-5, pursuant to Regulation 8-5-117	Y	
<b>BAAQMD Condition 25798</b>			

#### IV. Source-Specific Applicable Requirements

**Table IV – A.1**  
**Source-specific Applicable Requirements**  
**FACILITY B2758**

<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	Reduce Refinery Emissions Cap by credits granted by Coker Modification Project Application 17798 (basis: Cumulative Increase, Offsets, Regulation 2, Rule 4)	Y	
Part 7	Reduce Refinery Emissions Cap by the Air Products No 2 Hydrogen Plant as permitted in RMEC Application 3318 (basis: Cumulative Increase, Offsets)	Y	
Part 8	New Refinery Emissions Cap Condition 8077 Part B2A limits (basis: Cumulative Increase, Offsets, Regulation 2, Rule 4)	Y	
Part 9	New Refinery Emissions Cap Condition 8077 Part B2B limits (basis: Cumulative Increase, Offsets, Regulation 2, Rule 4)	Y	

## IV. Source-Specific Applicable Requirements

**Table IV - A.2**  
**Source-specific Applicable Requirements**  
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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<b>BAAQMD Regulation 2 Rule 1</b>	<b>Permits, General Requirements (07/19/2006)</b>		
2-1-429	Federal Emissions Statement	N	
<b>BAAQMD Regulation 8 Rule 5</b>	<b>Organic Compounds – Storage of Organic Liquids (10/18/2006)</b>		
8-5-117	Limited Exemption, Low Vapor Pressure	N	
8-5-119	Limited Exemption, Repair Period	N	
8-5-118	Limited Exemption, Gas Tight Requirement for approved emission control system in 8-5-306.2 does not apply if facility is subject to BAAQMD 8-18	N	
8-5-328	Tank Degassing Requirements	N	
8-5-328.1	Tank Degassing Requirements; Tanks > 75 cubic meters; Use 90% abatement device	N	
8-5-331	Tank Cleaning Requirements, 90% Abatement Efficiency if abatement device used	N	
8-5-332	Sludge Handling Requirements (applies to sludge removed from any tank that was subject to BAAQMD 8-5 at any time since it was last put in service)	N	
8-5-332.1	Sludge Handling Requirements; sludge container no leaks	N	
8-5-332.2	Sludge Handling Requirements; sludge container gap requirements	N	
8-5-404	Inspection, Abatement Efficiency Determination, and Source Test Reports	N	
8-5-411	Enhanced Monitoring Program (Optional)	N	
8-5-411.1	Enhanced Monitoring Program (Optional); Notify BAAQMD of tanks selected for enhanced monitoring program	N	
8-5-411.2	Enhanced Monitoring Program (Optional); Criteria for operating enhanced monitoring program	N	
8-5-501	Records	N	
8-5-501.3	Records; Retention	N	
8-5-501.4	Records; New PV setpoints	N	
8-5-502	Source Test Requirements and exemption for sources vented to fuel gas	N	
8-5-502.2	Source Test Requirements; Tank degassing and cleaning abatement devices	N	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-603	Determination of Abatement Efficiency	N	
8-5-604	Determination of Applicability Based on True Vapor Pressure	Y	

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**Table IV - A.2**  
**Source-specific Applicable Requirements**  
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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<b>SIP Regulation 8 Rule 5</b>	<b>Organic Compounds – Storage of Organic Liquids (06/05/2003)</b>		
8-5-117	Exemption, Low Vapor Pressure	Y	
8-5-328	Tank Degassing Requirements	Y	
8-5-328.1	Tank Degassing Requirements; Tanks > 75 cubic meters	Y	
8-5-328.1.2	Tank Degassing Requirements; Tanks > 75 cubic meters, Approved Emission Control System	Y	
8-5-328.2	Tank Degassing Requirements; Ozone Excess Day Prohibition	Y	
8-5-404	Certification	Y	
8-5-501	Records	Y	
8-5-502	Tank degassing annual source test requirement	Y	
8-5-603	Determination of emissions	Y	
8-5-603.2	Source tests for tank degassing equipment	Y	
<b>BAAQMD Regulation 8 Rule 40</b>	<b>Organic Compounds – Aeration of Contaminated Soil and Removal of Underground Storage Tanks (06/15/2005)</b>		
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	
8-40-403	Reporting, Excavation of Contaminated Soil	Y	
8-40-404	Reporting, Contaminated Soil Excavation During Organic Liquid Service Pipeline Leak Repairs	Y	
8-40-405	Reporting, Contaminated Soil Excavations Unrelated to Underground Storage Tank Activities	Y	
8-40-601	Contaminated Soil Sampling	Y	
8-40-602	Measurement of Organic Content	Y	
8-40-604	Measurement of Organic Concentration	Y	
8-40-605	Analysis of Samples Initial Boiling Point	Y	
<b>BAAQMD Regulation 9 Rule 1</b>	<b>Inorganic Gaseous Pollutants – Sulfur Dioxide (03/15/1995)</b>		
9-1-110	Conditional Exemption, Area Monitoring	Y	
9-1-301	Limitations on Ground Level Concentrations	Y	
9-1-304	Fuel Burning (Liquid and Solid Fuels)	Y	
9-1-501	Area Monitoring Requirements	Y	
9-1-604	Ground Level Monitoring	Y	



## IV. Source-Specific Applicable Requirements

**Table IV - A.2**  
**Source-specific Applicable Requirements**  
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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<b>BAAQMD Regulation 9 Rule 2</b>	<b>Inorganic Gaseous Pollutants – Hydrogen Sulfide (10/06/1999)</b>		
9-2-110	Exemptions	N	
9-2-301	Limitations on Hydrogen Sulfide	N	
9-2-501	Area Monitoring Requirements (Applies only when ground level monitors are not operating or are out of compliance.)	N	
9-2-601	Ground Level Monitoring	N	
<b>BAAQMD Regulation 10</b>	<b>Standards of Performance for New Stationary Sources – Incorporated by reference (2/16/2000)</b>		
10-1	Subpart A – General Provisions (12/20/1995)	Y	
10-17	Subpart Kb – Standards of Performance for Storage Vessels for Petroleum Liquids for which Construction, Reconstruction, or Modification Commence After May 18, 1978, and Prior to July 23, 1984	Y	
<b>BAAQMD Regulation 11 Rule 12</b>	<b>Hazardous Pollutants - National Emission Standard for Benzene Emissions From Benzene Transfer Operations and Benzene Waste Operations (Adopted 07/18/1990; Subpart FF last amended 01/05/1995)</b>	Y	
<b>40 CFR 60 Subpart A</b>	<b>NSPS - General Provisions (06/01/2006)</b>		
60.1	Applicability	Y	
60.2	Definitions	Y	
60.3	Units and Abbreviations	Y	
60.4	Address	Y	
60.5	Determination of Construction or Modification	Y	
60.6	Review of Plans	Y	
60.7	Notification and Recordkeeping	Y	
60.8	Performance Tests	Y	
60.9	Availability of Information	Y	
60.11	Compliance with Standards and Maintenance Requirements	Y	
60.12	Circumvention	Y	
60.13	Monitoring Requirements	Y	
60.14	Modification	Y	
60.15	Reconstructions	Y	
60.17	Incorporated by Reference	Y	
60.19	General Notification and Reporting Requirements	Y	

## IV. Source-Specific Applicable Requirements

**Table IV - A.2**  
**Source-specific Applicable Requirements**  
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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<b>40 CFR 60 Subpart Kb</b>	<b>NSPS – Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction or Modification Commenced After July 23, 1984. (10/15/2003)</b>		
60.113b(b)(1)	Testing and Procedures; External floating roof seal gap measurement frequency	Y	
60.113b(b)(1)(i)	Measurement of gaps between tank wall and primary seal	Y	
60.113b(b)(1)(ii)	Measurement of gaps between tank wall and secondary seal	Y	
60.113b(b)(1)(iii)	Testing and Procedures; External floating roof reintroduction of VOL	Y	
60.113b(b)(2)	Primary seal gap standards	Y	
60.113b(b)(3)	Secondary seal gap standards	Y	
60.113b(b)(4)	Seal gap measurement methods	Y	
<b>40 CFR 61 Subpart A</b>	<b>NESHAPS, General Provisions (04/09/2004)</b>		
61.01	Lists of Pollutants and Applicability of Part 61	Y	
61.02	Definitions	Y	
61.03	Units and Abbreviations	Y	
61.04	Address	Y	
61.05	Prohibited Activities	Y	
61.06	Determination of Construction or Modification	Y	
61.07	Application for Approval of Construction or Modification	Y	
61.08	Approval of construction or modification	Y	
61.09	Notification of startup	Y	
61.10	Source reporting and waiver request	Y	
61.12	Compliance with Standards and Maintenance Requirements	Y	
61.13	Emission Tests and Waiver of Emission Tests	Y	
61.14	Monitoring Reports	Y	
61.15	Modification	Y	
61.18	Incorporation by reference	Y	
61.19	Circumvention	Y	
<b>40 CFR 61 Subpart FF</b>	<b>NESHAPS, Benzene Waste Operations (12/04/2003) Requirements for Treat to 6 (6BQ) [61.342(e)] facility</b>		
61.340(a)	Applicability: Chemical Manufacturing, Coke by-product recovery, petroleum refineries	Y	
61.340(c)	Applicability: Exempt Waste	Y	
61.340(d)	Applicability: Exemption from Subpart FF for emissions routed to a fuel gas system	Y	
61.341	Definitions	Y	
61.342	Standards: General	Y	

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**Table IV - A.2**  
**Source-specific Applicable Requirements**  
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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
61.342(a)	Standards: Definition of total annual benzene (TAB) & requirements to calculate	Y	
61.342(a)(2)	Standards: TAB Calculation – Material Sold	Y	
61.342(a)(3)	Standards: TAB Calculation – Remediation Waste	Y	
61.342(a)(4)	Standards: TAB Calculation – Determination Location	Y	
61.342(b)	Standards: General; Facility with TAB > 10Mg/year compliance dates	Y	
61.342(c)(1)	Standards: General; For 61.342(e) 6BQ facility, treat non-aqueous benzene-containing waste streams in accordance with 61.342(c)(1)(i), 61.342(c)(1)(ii) and 61.342(c)(1)(iii)	Y	
61.342(c)(1)(i)	Standards: General; Remove or destroy benzene in accordance with 61.348	Y	
61.342(c)(1)(ii)	Standards: General; Comply with 61.343 through 61.347 for waste management units that manage wastes prior to and during treatment per 61.342(c)(1)(i)	Y	
61.342(c)(1)(iii)	Standards: General; Comply with 61.343 through 61.347 for waste management units for wastes to be recycled. After recycling, wastes no longer subject to 61.342(c)(1)	Y	
61.342(e)	Standards: General; Requirements for Treat to 6 (6BQ) facility	Y	
61.342(e)(1)	Standards: General; Requirements for Treat to 6 (6BQ) facility; Treat non-aqueous waste (flow-weighted annual average water content of less than 10%) per 61.342(c)(1)	Y	
61.342(e)(2)	Standards: General; Requirements for Treat to 6 (6BQ) facility; Treat aqueous waste (flow-weighted annual average water content of 10% or more by volume) per 61.342(e)(2).	Y	
61.342(e)(2)(i)	Standards: General; Requirements for Treat to 6 (6BQ) facility; Aqueous waste: 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	
61.342(e)(2)(ii)	Standards: General; Requirements for Treat to 6 (6BQ) facility; Aqueous waste: Determine 61.342(e)(2) benzene quantity [TBQ] per 61.355(k).	Y	
61.343(a)	Standards: Tanks	Y	
61.343(a)(1)	Standards: Tanks: Fixed roof with closed vent routed to control device	Y	
61.343(a)(1)(i)	Standards: Tanks: Fixed roof requirements	Y	
61.343(a)(1)(i)(A)	Standards: Tanks: Fixed roof and openings: No detectable emissions	Y	
61.343(a)(1)(i)(B)	Standards: Tanks: Fixed roof requirements; openings closed and sealed except when in use	Y	
61.343(a)(1)(ii)	Standards: Tanks: Closed vent system and control device: design and operate per 61.349	Y	

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**Table IV - A.2**  
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<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
61.343(b)	Standards: Tanks: Alternative standards for certain fixed roof tanks storing non-aqueous wastes (low vapor pressure or small tanks)	Y	
61.343(c)	Standards: Tanks: Quarterly Visual Inspection	Y	
61.343(d)	Standards: Tanks: Repairs	Y	
61.345(a)	Standards: Containers	Y	
61.345(a)(1)	Standards: Containers--Covers	Y	
61.345(a)(1)(i)	Standards: Containers— No detectable emissions	Y	
61.345(a)(1)(ii)	Standards: Containers--Openings closed and sealed except when in use	Y	
61.345(a)(2)	Standards: Containers--Waste Transfer	Y	
61.345(b)	Standards: Containers--Quarterly visual inspection	Y	
61.345(c)	Standards: Containers--Repairs	Y	
61.350	Standards: Delay of repair	Y	
61.350(a)	Standards: Delay of Repair: Allowed if technically impossible without complete or partial facility or unit shutdown.	Y	
61.350(b)	Standards: Delay of Repair: Repair shall occur before the end of the next facility or unit shutdown	Y	
61.353	Alternative means of emission limitation	Y	
61.355	Test Methods, Procedures, and Compliance Provisions	Y	
61.355(a)	Test Methods, Procedures, and Compliance Provisions: Procedure for determining total annual benzene (TAB)	Y	
61.355(a)(1)	Test Methods, Procedures, and Compliance Provisions: Procedure for determining total annual benzene (TAB); aqueous wastes	Y	
61.355(a)(1)(i)	Test Methods, Procedures, and Compliance Provisions: Annual Waste Quantity Determination	Y	
61.355(a)(1)(ii)	Test Methods, Procedures, and Compliance Provisions: Annual Average Benzene Determination	Y	
61.355(a)(1)(iii)	Test Methods, Procedures, and Compliance Provisions: Annual Benzene Quantity Calculation	Y	
61.355(a)(2)	Test Methods, Procedures, and Compliance Provisions: Procedure for determining total annual benzene (TAB); TAB Calculation	Y	
61.355(a)(3)	Test Methods, Procedures, and Compliance Provisions: Procedure for determining total annual benzene (TAB); If the TAB is equal to or greater than 10 Mg/yr (11 ton/yr), then the owner/operator shall comply with 61.342(c), (d), or (e).	Y	
61.355(a)(6)	Test Methods, Procedures, and Compliance Provisions: Procedure for determining total annual benzene (TAB); Turnaround Waste in TAB	Y	
61.355(b)	Test Methods, Procedures, and Compliance Provisions: Waste quantity determination – made at point of generation unless an exception applies	Y	

#### IV. Source-Specific Applicable Requirements

**Table IV - A.2**  
**Source-specific Applicable Requirements**  
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<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
61.355(b)(1)	Test Methods, Procedures, and Compliance Provisions: Waste quantity determination location – Exception: Sour water strippers	Y	
61.355(b)(4)	Test Methods, Procedures, and Compliance Provisions: Waste quantity determination – Exception: Process Unit Turnaround Waste	Y	
61.355(b)(5)	Test Methods, Procedures, and Compliance Provisions: Waste quantity determination methods – Waste Quantity from Historical Records	Y	
61.355(b)(6)	Test Methods, Procedures, and Compliance Provisions: Waste quantity determination methods – Waste Quantity based on Design Capacity	Y	
61.355(b)(7)	Test Methods, Procedures, and Compliance Provisions: Waste quantity determination methods – Waste Quantity based on Representative Measurements	Y	
61.355(c)	Test Methods, Procedures, and Compliance Provisions: Determine flow-weighted annual average benzene concentration	Y	
61.355(c)(1)	Test Methods, Procedures, and Compliance Provisions: Criteria for determination of flow-weighted annual average benzene concentration	Y	
61.355(c)(1)(i)	Test Methods, Procedures, and Compliance Provisions: Criteria for determination of flow-weighted annual average benzene concentration Made at the point of waste generation except for cases in paragraphs (c)(1)(i)(A) through (D) of this section.	Y	
61.355(c)(1)(i)(A)	Test Methods, Procedures, and Compliance Provisions: Criteria for determination of flow-weighted annual average benzene concentration Exception: Sour water stripper	Y	
61.355(c)(1)(i)(D)	Test Methods, Procedures, and Compliance Provisions: Criteria for determination of flow-weighted annual average benzene concentration – Exception: Process Unit Turnaround wastes	Y	
61.355(c)(1)(ii)	Test Methods, Procedures, and Compliance Provisions: Determination of benzene concentration: Volatilization of benzene by exposure to air shall not be used to reduce the benzene concentration	Y	
61.355(c)(1)(iii)	Test Methods, Procedures, and Compliance Provisions: Determination of benzene concentration: Mixing or diluting with other wastes or materials shall not be used to reduce the benzene concentration	Y	
61.355(c)(1)(iv)	Test Methods, Procedures, and Compliance Provisions: Determination of benzene concentration: Determination made prior to any treatment of waste that removes benzene, except in (c)(1)(i)(A) through (D) of this section	Y	

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**Table IV - A.2**  
**Source-specific Applicable Requirements**  
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<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
61.355(c)(1)(v)	Test Methods, Procedures, and Compliance Provisions: Determination of benzene concentration: For wastes with multiple phases, provide the weighted-average benzene concentration based on the benzene concentration in each phase and the relative proportion of the phases	Y	
61.355(c)(2)	Test Methods, Procedures, and Compliance Provisions: Methods to determine benzene concentration: Knowledge of the Waste	Y	
61.355(c)(3)	Test Methods, Procedures, and Compliance Provisions: Methods to determine benzene concentration: Measurements of Benzene Concentration - procedures		
61.355(h)	Test Methods, Procedures, and Compliance Provisions: No detectable emissions test methods	Y	
61.355(k)	Test Methods, Procedures, and Compliance Provisions: Treat to 6 Determination of TBQ (total benzene quantity) required by 61.342(e)(2)	Y	
61.355(k)(1)	Test Methods, Procedures, and Compliance Provisions: Treat to 6 Determination of TBQ; determine benzene quantity in uncontrolled waste streams	Y	
61.355(k)(2)	Test Methods, Procedures, and Compliance Provisions: Treat to 6 Determination of TBQ; determine benzene quantity in controlled waste streams	Y	
61.355(k)(2)(i)	Test Methods, Procedures, and Compliance Provisions: Treat to 6 Determination of TBQ; determine benzene quantity in controlled waste streams: OPTION 1: Make determination where the waste stream enters the first uncontrolled waste management unit	Y	
61.355(k)(2)(ii)	Test Methods, Procedures, and Compliance Provisions: Treat to 6 Determination of TBQ; determine benzene quantity in controlled waste streams: OPTION 2: Determination for wastes discharged from facility	Y	
61.355(k)(2)(iii)	Test Methods, Procedures, and Compliance Provisions: Treat to 6 Determination of TBQ; determine benzene quantity in controlled waste streams: OPTION 3: Determination for wastes transferred offsite.	Y	
61.355(k)(2)(iv)	Test Methods, Procedures, and Compliance Provisions: Treat to 6 Determination of TBQ; Determine annual waste quantity of controlled wastes using procedures in 61.355(b)(5), (6), or (7)	Y	
61.355(k)(2)(v)	Test Methods, Procedures, and Compliance Provisions: Treat to 6 Determination of TBQ; Determine flow-weighted annual average benzene concentration for controlled wastes using procedures in 61.355(c)(2), or (3)	Y	
61.355(k)(3)	Test Methods, Procedures, and Compliance Provisions: Treat to 6 Determination of TBQ; Determine benzene quantity in waste generated less than one time per year	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
61.355(k)(5)	Test Methods, Procedures, and Compliance Provisions: Treat to 6 Determination of TBQ; Treat to 6 TBQ calculation method for controlled wastestreams	Y	
61.355(k)(6)	Test Methods, Procedures, and Compliance Provisions: Treat to 6 Determination of TBQ; Treat to 6 total TBQ calculation method	Y	
61.355(k)(7)	Test Methods, Procedures, and Compliance Provisions: Treat to 6 Determination of TBQ; Eliminate double counting	Y	
61.356	Recordkeeping Requirements	Y	
61.356(a)	Recordkeeping requirements; Retention	Y	
61.356(b)	Recordkeeping requirements; Waste stream records	Y	
61.356(b)(1)	Recordkeeping requirements; Uncontrolled Waste Stream Records	Y	
61.356(b)(4)	Recordkeeping requirements; Treat to 6 (61.342(e)) Waste Stream Records	Y	
61.356(b)(5)	Recordkeeping requirements; Process unit turnaround waste records	Y	
61.356(c)	Recordkeeping requirements; Offsite Waste Transfer Records	Y	
61.356(g)	Recordkeeping Requirements: Visual inspections per 61.343 through 61.347	Y	
61.356(h)	Recordkeeping Requirements: No detectable emissions tests per 61.343 through 61.347, and 61.349	Y	
61.357	Reporting Requirements	Y	
61.357(a)(1)	Reporting Requirements - Annual Benzene Report Contents [61.357(d)(2)]: TAB determined in accordance with 61.355(a)	Y	
61.357(a)(2)	Reporting Requirements - Annual Benzene Report Contents [61.357(d)(2)]: Waste stream table (identify as controlled or uncontrolled)	Y	
61.357(a)(3)	Reporting Requirements - Annual Benzene Report Contents [61.357(d)(2)]: Uncontrolled waste stream data	Y	
61.357(a)(3)(i)	Reporting Requirements - Annual Benzene Report Contents [61.357(d)(2)]: Uncontrolled waste stream data - Whether or not the water content of the waste stream is greater than 10 percent;	Y	
61.357(a)(3)(ii)	Reporting Requirements - Annual Benzene Report Contents [61.357(d)(2)]: Uncontrolled waste stream data - Whether or not the waste stream is a process wastewater stream, product tank drawdown, or landfill leachate;	Y	
61.357(a)(3)(iii)	Reporting Requirements - Annual Benzene Report Contents [61.357(d)(2)]: Uncontrolled waste stream data - Annual waste quantity for the waste stream;	Y	
61.357(a)(3)(iv)	Reporting Requirements - Annual Benzene Report Contents [61.357(d)(2)]: Uncontrolled waste stream data - Range of benzene concentrations for the waste stream;	Y	
61.357(a)(3)(v)	Reporting Requirements - Annual Benzene Report Contents [61.357(d)(2)]: Uncontrolled waste stream data - Annual average flow-weighted benzene concentration for the waste stream; and	Y	

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<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
61.357(a)(3)(vi)	Reporting Requirements - Annual Benzene Report Contents [61.357(d)(2)]: Uncontrolled waste stream data - Annual benzene quantity for the waste stream.	Y	
61.357(d)	Reporting Requirements: Facilities with 10 Mg/yr or more total benzene in waste	Y	
61.357(d)(2)	Reporting Requirements: Annual Benzene Report – with information specified in 61.357(a)(1), (2), and (3)	Y	
61.357(d)(5)	Reporting Requirements: Annual Benzene Report requirements if complying with 61.342(e)- Treat to 6 waste stream data requirements	Y	
61.357(d)(5)(i)	Reporting Requirements: Annual Benzene Report requirements if complying with 61.342(e)- Treat to 6 waste stream data requirements – uncontrolled waste streams	Y	
61.357(d)(5)(ii)	Reporting Requirements: Annual Benzene Report requirements if complying with 61.342(e)- Treat to 6 waste stream data requirements – controlled waste streams	Y	
61.357(d)(6)	Reporting Requirements: Quarterly Inspection Verification Report	Y	
61.357(d)(7)	Reporting Requirements: Quarterly Report	Y	
61.357(d)(7)(iv)	Reporting Requirements: Quarterly Report; Records of Operation Outside of Range; Control Devices	Y	
61.357(d)(7)(iv)(C)	Reporting Requirements: Quarterly Report; Records of Operation Outside of Range; Control Devices; Process Heater Operation Low Temperature	Y	
61.357(d)(7)(iv)(G)	Reporting Requirements: Quarterly Report; Records of Operation Outside of Range; Control Devices; Change in Heater Design	Y	
61.357(d)(8)	Reporting Requirements: Annual Inspection Report – Inspection Summary when detectable emissions detected	Y	
61.357(e)	Reporting Requirements for 61.351 and 61.352 equipment	Y	
61.357(g)	Reporting Requirements for 61.352 tank seal gaps	Y	
<b>40 CFR 63 Subpart A</b>	<b>NESHAPs for Source Categories - General Provisions (12/22/2008)</b>		
63.1	Applicability	Y	
63.2	Definitions	Y	
63.3	Units and abbreviations	Y	
63.4	Prohibited activities and circumvention	Y	
63.5	Preconstruction review and notification requirements	Y	
63.6	Compliance with standards and maintenance requirements	Y	
63.7	Performance test requirements	Y	
63.8	Monitoring requirements	Y	
63.9	Notification requirements	Y	
63.10	Recordkeeping and reporting requirements	Y	
63.12	State Authority and Delegations	Y	



## IV. Source-Specific Applicable Requirements

**Table IV - A.2**  
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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.13	Addresses of EPA Regional Offices	Y	
63.14	Incorporation by Reference	Y	
63.15	Availability of Information and confidentiality	Y	
63.16	Performance Track Provisions	Y	
<b>40 CFR 63 Subpart B</b>	<b>NESHAPs for Source Categories: Requirements for Control Technology Determinations for Major Sources in Accordance with Clean Air Act Sections, Section 112(g) and 112(j); Final Rule (07/11/2005)</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(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 G</b>	<b>NESHAPs for Source Categories - SO2 Process Vents, Storage Vessels, Transfer Operations, and Wastewater (6/23/2003)</b> <b>Requirements for Storage Vessels Subject to 63 Subpart CC</b>		
63.120(b)	Storage Vessel Provisions. Procedures to Determine Compliance— Compliance Demonstration-- External floating roof	Y	
63.120(b)(1)	Storage Vessel Provisions. Procedures to Determine Compliance— Compliance Demonstration-- External FR seal gap measurement	Y	
63.120(b)(1)(i)	Storage Vessel Provisions. Procedures to Determine Compliance— Compliance Demonstration-- External FR with double seals primary seal gap measurement	Y	
63.120(b)(1)(iii)	Storage Vessel Provisions. Procedures to Determine Compliance— Compliance Demonstration-- External FR with double seals secondary seal gap	Y	
63.120(b)(1)(iv)	Storage Vessel Provisions. Procedures to Determine Compliance— Compliance Demonstration-- External FR seal inspections prior to tank refill after service	Y	
63.120(b)(2)	Primary seal gap standards	Y	
63.120(b)(3)	Secondary seal gap standards	Y	
63.120(b)(4)	Seal gap measurement methods	Y	
<b>40 CFR 63 Subpart CC</b>	<b>NESHAPs for Source Categories - Petroleum Refineries (06/23/2003)</b>		

## IV. Source-Specific Applicable Requirements

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<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
63.640(a)	Applicability applies to petroleum refining process units and related emission points	Y	
63.640(c)	Applicability and Determination of Affected Source – Includes all emission points listed in subpart	Y	
63.640(d)	Applicability and Determination of Affected Source – Exclusions	Y	
63.640(e)	Applicability and Determination of Affected Source – Storage Vessels	Y	
63.640(f)	Applicability and Determination of Affected Source – Miscellaneous Process Vents	Y	
63.640(g)	Applicability and Determination of Affected Source – Exempt Processes	Y	
63.640(h)	Applicability and Determination of Affected Source – Compliance dates	Y	
63.640(i)	Applicability and Determination of Affected Source – Additional petroleum refining process units at existing major source	Y	
63.640(j)	Applicability and Determination of Affected Source – Changes to existing petroleum refining process units	Y	
63.640(k)	Applicability and Determination of Affected Source – Additional requirements for new or changed process units if subject to requirements for new process units in 63.640(i) or (j)	Y	
63.640(l)	Applicability and Determination of Affected Source – Requirements for added Group 1 emission points (i.e. process vents, storage vessels, etc) not subject to requirements for new process units in 63.640(i) or (j)	Y	
63.640(m)	Applicability and Determination of Affected Source – Changes causing Group 2 emission points to become Group 1 points	Y	
63.640(q)	Applicability and Determination of Affected Source 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	Y	
63.642	General Standards	Y	
63.642(a)	Apply for a part 70 or part 71 operating permit	Y	
63.642(c)	Table 6 of this subpart specifies the subpart A provisions that apply.	Y	
63.642(d)	Initial performance tests and compliance determinations shall be required only as specified in this subpart	Y	
63.642(e)	Keep copies of all applicable reports and records for at least 5 years, except as otherwise specified in this subpart.	Y	
63.642(f)	All reports required by this subpart shall be sent to the Administrator	Y	

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<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
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	Wastewater Provisions	Y	
63.647(a)	Wastewater Provisions; Group 1 WW streams comply with 61.340 through 61.355 in 40 CFR 61 Subpart FF	Y	
63.647(b)	Wastewater Provisions; Definitions	Y	
63.647(c)	Wastewater Provisions; Operation consistent with minimum or maximum permitted concentrations or operating parameter values	Y	
63.654	Reporting and Recordkeeping Requirements	Y	
63.654(a)	Reporting and recordkeeping requirements; Group 1 WW streams comply with 61.356 and 61.357 in 40 CFR 61 Subpart FF	Y	
63.654 (e)	Reporting and Recordkeeping Requirements; Required Reports and Records	Y	
63.654 (f)	Reporting and Recordkeeping Requirements; Notification of Compliance Status Reports	Y	
63.654 (g)	Periodic Reporting and Recordkeeping Requirements; Periodic Reports	Y	
63.654(h)	Reporting and Recordkeeping Requirements; Other reports	Y	
63.654(i)	Reporting and Recordkeeping Requirements; Recordkeeping	Y	
Appendix Table 1	Hazardous Air Pollutants	Y	
Appendix Table 6	General Provisions Applicability to Subpart CC	Y	
<b>40 CFR 63 Subpart GGGGG</b>	<b>NESHAPS for Source Categories - Site Remediation (11/29/2006)</b>		
63.7880	Purpose: Establish emission limitations and work practice standards for HAPs from site remediation activities and requirements for initial and continuous compliance demonstrations	Y	
63.7881	Applicability: Am I subject to this subpart?	Y	
63.7881(a)	Applicability: Remediation subject to Subpart GGGGG if meets all three conditions below:	Y	
63.7881(a)(1)	(1) Site remediation cleans up a remediation material (63.7957 definition)	Y	
63.7881(a)(2)	(2) Facility with remediation activity also has one or more stationary sources that emit HAP and are in a source category that is regulated by another 40 CFR 63 subpart	Y	
63.7881(a)(3)	(3) Facility with remediation activity is a major source of HAP	Y	

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63.7881(c)	Applicability: Recordkeeping only required if remediation activity meets conditions below:	Y	
63.7881(c)(1)	(1) Total HAP contained in remediation material at all remediation activities on site is less than 1 MG annually	Y	
63.7881(c)(2)	(2) Prepare and maintain documentation to support HAP determination	Y	
63.7881(c)(3)	(3) Title V requirements to include recordkeeping requirement	Y	
63.7881(d)	Applicability: Remediation not subject to Subpart GGGGG if remediation activities are complete and notifications of completion have been submitted. Records are required.	Y	
63.7882	Applicability: Affected sources	Y	
63.7882(a)	Applicability: Affected sources; new, reconstructed, or existing sources	Y	
63.7882(a)(1)	Affected source: Process vents – from remediation processes (i.e., soil vapor extraction and bioremediation processes, thermal desorption, and air stripping)	Y	
63.7882(a)(2)	Affected source: Remediation material management units – (i.e., tank, surface impoundment, container, OWS, or transfer system to manage remediation material). Tanks or containers with vents are process vents	Y	
63.7882(a)(3)	Affected source: Equipment leaks – (pumps, valves, etc used to manage remediation materials and meeting both of the following conditions)	Y	
63.7882(a)(3)(i)	Equipment leaks in components containing or contacting remediation material with concentration of HAP $\geq$ 10% by weight	Y	
63.7882(a)(3)(ii)	Equipment leaks in components operated more than 300 hours in calendar year	Y	
63.7882(b)	Affected sources: Existing sources commenced construction or reconstruction before July 30, 2002	Y	
63.7882(c)	Affected sources: New sources commenced construction or reconstruction on or after July 30, 2002	Y	
63.7883	Compliance Schedule	Y	
63.7883(a)	Compliance Schedule: Existing sources	Y	
63.7883(b)	Compliance Schedule: New sources (non-radioactive)	Y	
63.7883(e)	Compliance Schedule: Notification requirements	Y	
63.7884	General Standards	Y	
63.7884(a)	General Standards – comply with 63.7885 though 63.7955 as they apply to the affected sources	Y	
63.7884(b)	General Standards – requirements for remediations completed within 30 consecutive days	Y	
63.7885	Process Vents – General Standards	Y	
63.7885(a)	Select option and meet requirements of option selected	Y	

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63.7885(b)	Options	Y	
63.7885(b)(1)	Option 1: Control HAPS per 63.7890 through 63.7893	Y	
63.7885(b)(2)	Option 2: Determine that average VOHAP concentration of remediation material is less than 10 ppmw	Y	
63.7885(b)(3)	Option 3: For process vents subject to another 40 CFR 61 or 40 CFR 63 Subpart, comply with the other subpart unless the process vent is exempt from the other subpart	Y	
63.7885(c)	Exemptions from 63.7885(b)	Y	
63.7885(c)(1)(i)	Exemption 1: Process vent stream flow rate < 0.005 m3/min at standard conditions	Y	
63.7885(c)(1)(ii)	Exemption 2: Process vent stream flow rate < 6.0 m3/min at standard conditions and the total HAP concentration is < 20 ppmw	Y	
63.7885(c)(2)	Exemption demonstration requirements	Y	
63.7886	Remediation Material Management Units – General Standards	Y	
63.7886(a)	Select option and meet requirements of option selected	Y	
63.7886(b)	Options	Y	
63.7886(b)(1)	Option 1: Control HAP emissions by specific requirements for remediation management unit type	Y	
63.7886(b)(1)(i)	Option 1: Control HAP emissions for tanks	Y	
63.7886(b)(1)(ii)	Option 1: Control HAP emissions for containers	Y	
63.7886(b)(1)(iii)	Option 1c: Control HAP emissions for surface impoundment	Y	
63.7886(b)(1)(iv)	Option 1d: Control HAP emissions for oil-water or organic-water separator	Y	
63.7886(b)(1)(v)	Option 1: Control HAP emissions for transfer system	Y	
63.7886(b)(2)	Option 2: Determine that average VOHAP concentration of remediation material is less than 500 ppmw.	Y	
63.7886(b)(3)	Option 3: For remediation management units subject to another 40 CFR 61 or 40 CFR 63 Subpart, comply with the other subpart unless the unit is exempt from the other subpart	Y	
63.7886(b)(4)	Option 4: Meet requirements for open tanks or surface impoundments used for biological treatment process	Y	
63.7886(d)	Remediation Material Management Units – General Standards: Exemption for management units if total annual HAP is less than 1 Mg/yr	Y	
63.7886(d)(1)	Designate exempt units and submit written notification	Y	
63.7886(d)(2)	Prepare initial determination of total annual HAP in exempt units and maintain documentation	Y	
63.7887	Equipment Leaks – General Requirements	Y	
63.7887(a)	Option 1: Implement LDAR as specified in 63.7920 through 63.7922	Y	

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63.7887(b)	Option 2: For equipment leaks subject to another 40 CFR 61 or 40 CFR 63 Subpart, comply with the other subpart unless the equipment leak is exempt from the other subpart	Y	
63.7890	Process Vents – Emission limits and work practice standards	Y	
63.7890(a)	Process Vents – Definition of affected sources	Y	
63.7890(b)	Process Vents – Facility-wide emission limit options (can use both controlled and uncontrolled vent streams to achieve applicable facility-wide emission limit)	Y	
63.7890(b)(1)	Option 1: Reduce total HAP emissions to < 3.0 lb/hr and 3.1 tpy	Y	
63.7890(b)(2)	Option 2: Reduce total TOC emissions to < 3.0 lb/hr and 3.1 tpy	Y	
63.7890(b)(3)	Option 3: Reduce total HAP emissions by 95% or more	Y	
63.7890(b)(4)	Option 4: Reduce total TOC emissions by 95% or more	Y	
63.7890(c)	Process Vents – closed vent system and control device requirements	Y	
63.7891	Process Vents – Initial Compliance	Y	
63.7891(a)	Process Vents – Initial Compliance requirements	Y	
63.7891(b)	Process Vents – Measure emissions or use procedures in 63.7941 to demonstrate compliance with applicable option	Y	
63.7891(b)(1)	Option 1: Reduce total HAP emissions to < 3.0 lb/hr and 3.1 tpy	Y	
63.7891(b)(2)	Option 2: Reduce total TOC emissions to < 3.0 lb/hr and 3.1 tpy	Y	
63.7891(b)(3)	Option 3: Reduce total HAP emissions by 95% or more	Y	
63.7891(b)(4)	Option 4: Reduce total TOC emissions by 95% or more	Y	
63.7891(c)	Process Vents – meet closed vent system and control device requirements in 63.7928	Y	
63.7891(d)	Process Vents – Initial Compliance records per 63.7952	Y	
63.7892	Process Vents inspection and monitoring requirements	Y	
63.7893	Process Vents – Continuous Compliance	Y	
63.7893(a)	Process Vents – Continuous Compliance requirements	Y	
63.7893(b)	Process Vents – Maintain emission levels to meet facility-wide emission limits that apply for option chosen:	Y	
63.7893(b)(1)	Option 1: Reduce total HAP emissions to < 3.0 lb/hr and 3.1 tpy	Y	
63.7893(b)(2)	Option 2: Reduce total TOC emissions to < 3.0 lb/hr and 3.1 tpy	Y	
63.7893(b)(3)	Option 3: Reduce total HAP emissions by 95% or more	Y	
63.7893(b)(4)	Option 4: Reduce total TOC emissions by 95% or more	Y	
63.7893(c)	Process Vents – meet closed vent system and control device requirements in 63.7928	Y	
63.7893(d)	Process Vents – Continuous Compliance records per 63.7952	Y	
63.7895	Tanks – Emission limits and work practice standards	Y	
63.7895(a)	Tanks – Emission limits and work practice standards	Y	
63.7895(b)	Tanks – Control requirements	Y	
63.7895(b)(1)	Rqmt 1: Determine maximum HAP vapor pressure	Y	

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63.7895(b)(2)	Rqmt 2: If maximum HAP vapor pressure is less than 76.6 kPa, determine which tank level controls apply and meet the applicable requirements in paragraph 63.7895(c) or (d)	Y	
63.7895(b)(3)	Rqmt 3: If maximum HAP vapor pressure is greater than or equal to 76.6 kPa, then Tank Level 2 controls are required	Y	
63.7895(b)(4)	Rqmt 4: For tanks sued for waste stabilization process, use Tank Level 2 controls	Y	
63.7895(c)	Tank Level 1 Controls: install and operate a fixed roof or chose Tank Level 2 controls	Y	
63.7895(d)	Tank Level 2 control options	Y	
63.7895(d)(1)	Option 1: Internal floating roof as specified	Y	
63.7895(d)(2)	Option 2: External floating roof as specified	Y	
63.7895(d)(3)	Option 3: Fixed roof with closed vent system and control device meeting standards in 63.7925	Y	
63.7895(d)(4)	Option 4: Pressure tank as specified	Y	
63.7895(d)(5)	Option 5: Total enclosure and vent emissions through closed vent system and control device meeting standards in 63.7925	Y	
63.7895(e)	Tank Level 2 control options – request approval for alternative	Y	
63.7896	Tanks – Initial Compliance	Y	
63.7896(a)	Tanks – Initial Compliance requirements	Y	
63.7896(b)	Tanks – NCS must contain statement of compliance for these requirements	Y	
63.7896(b)(1)	Rqmt 1: Tank control levels have been determined	Y	
63.7896(b)(2)	Rqmt 2: Maximum HAP vapor pressure determined for each remediation material placed in each affected tank with Tank Level 1 controls	Y	
63.7896(c)	Tanks - Demonstrate initial compliance for tanks with Tank Level 1 controls	Y	
63.7896(c)(1)	Rqmt 1: Install fixed roof and closure devices per 63.902(a) with records documenting design	Y	
63.7896(c)(2)	Rqmt 2: Initial visual inspection for defects per 63.906(a) with inspection records	Y	
63.7896(c)(3)	Rqmt 3: Operate fixed roof and closure devices per 63.902.	Y	
63.7896(d)	Tanks – Demonstrate initial compliance for tanks with Tank Level 2 controls using internal floating roof tank	Y	
63.7896(d)(1)	Rqmt 1: Install internal floating roof per 63.1063(a) with records documenting design	Y	
63.7896(d)(2)	Rqmt 2: Initial visual inspection for defects per 63.1063(d)(1) with inspection records	Y	
63.7896(d)(3)	Rqmt 3: Operate internal floating roof per 63.1063(b).	Y	
63.7896(e)	Tanks – Demonstrate initial compliance for tanks with Tank Level 2 controls using external floating roof tank	Y	

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63.7896(e)(1)	Rqmt 1: Install external floating roof per 63.1063(a) with records documenting design	Y	
63.7896(e)(2)	Rqmt 3: Operate external floating roof per 63.1063(b).	Y	
63.7896(e)(3)	Rqmt 2: Initial seal gap measurement per 63.1063(d)(3) with records	Y	
63.7896(f)	Tanks - Demonstrate initial compliance for tanks with Tank Level 2 controls using fixed roof tank with closed vent system and control device	Y	
63.7896(f)(1)	Rqmt 1: Install tank and control device per 63.902(b) and (c) with records documenting design	Y	
63.7896(f)(2)	Rqmt 2: Initial visual inspection for defects per 63.695(b)(3) with inspection records	Y	
63.7896(f)(3)	Rqmt 3: Operate fixed roof and closure devices per 63.685(g).	Y	
63.7896(g)	Tanks - Demonstrate initial compliance for tanks with Tank Level 2 controls using pressure tank	Y	
63.7896(g)(1)	Rqmt 1: Install tank designed as pressure tank with records of design	Y	
63.7896(g)(2)	Rqmt 2: Operate pressure tank per 63.685(h)	Y	
63.7896(h)	Tanks - Demonstrate initial compliance for tanks with Tank Level 2 controls using tank in total enclosure	Y	
63.7896(h)(1)	Rqmt 1: NCS requirement for total enclosure tanks	Y	
63.7896(h)(2)	Rqmt 2: Demonstrate initial compliance for closed vent system and control device	Y	
63.7897	Tanks – Inspection and Monitoring Requirements	Y	
63.7897(a)	Tank Level 1 Controls – annual visual inspection	Y	
63.7897(b)	Tank Level 2 Controls Options:=	Y	
63.7897(b)(1)	Option 1 – Internal Floating Roof – visual inspection requirements	Y	
63.7897(b)(2)	Option 2 – External floating roof – visual inspections and seal inspection requirements	Y	
63.7897(b)(3)	Option 3 – Fixed roof and control device requirements	Y	
63.7897(b)(3)(i)	Rqmt 1: Visual inspections of fixed roof and closures	Y	
63.7897(b)(3)(ii)	Rqmt 2: Monitor and inspect closed vent system and control device as required	Y	
63.7897(b)(4)	Option 4 – Pressure tank – annual visual inspections	Y	
63.7897(b)(5)	Option 5 – Permanent total enclosure vented to enclosed combustion device	Y	
63.7897(b)(5)(i)	Rqmt 1: Annual verification procedure for permanent total enclosure	Y	
63.7897(b)(5)(ii)	Rqmt 2: Monitor and inspect closed vent system and control device as required	Y	
63.7898	Tanks – Continuous compliance	Y	



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63.7898(a)	Comply with applicable requirement in 63.7895	Y	
63.7898(b)	Comply with requirements to determine applicable tank control level (63.7895(b)) – Records required	Y	
63.7898(c)	Continuous compliance requirements for Tank Level 1 controls	Y	
63.7898(c)(1)	Rqmt 1: Operate and maintain the fixed roof and closure devices	Y	
63.7898(c)(2)	Rqmt 2: Annual visual inspection	Y	
63.7898(c)(3)	Rqmt 3: Repair defects	Y	
63.7898(c)(4)	Rqmt 4: Recordkeeping	Y	
63.7898(c)(5)	Rqmt 5: Compliance documentation records	Y	
63.7898(d)	Continuous compliance requirements for Tank Level 2 controls – Internal floating roof tanks	Y	
63.7898(d)(1)	Rqmt 1: Operate and maintain the internal floating roof	Y	
63.7898(d)(2)	Rqmt 2: Visual inspection requirements	Y	
63.7898(d)(3)	Rqmt 3: Repair defects	Y	
63.7898(d)(4)	Rqmt 4: Recordkeeping	Y	
63.7898(d)(5)	Rqmt 5: Compliance documentation records	Y	
63.7898(e)	Continuous compliance requirements for Tank Level 2 controls – External floating roof tanks	Y	
63.7898(e)(1)	Rqmt 1: Operate and maintain the external floating roof	Y	
63.7898(e)(2)	Rqmt 2: Visual inspection and seal inspection requirements	Y	
63.7898(e)(3)	Rqmt 3: Repair defects	Y	
63.7898(e)(4)	Rqmt 4: Recordkeeping	Y	
63.7898(e)(5)	Rqmt 5: Compliance documentation records	Y	
63.7898(f)	Continuous compliance requirements for Tank Level 2 controls – Fixed roof vented to a control device	Y	
63.7898(f)(1)	Rqmt 1: Operate and maintain the fixed roof and closure devices	Y	
63.7898(f)(2)	Rqmt 2: Annual visual inspection	Y	
63.7898(f)(3)	Rqmt 3: Repair defects	Y	
63.7898(f)(4)	Rqmt 4: Recordkeeping	Y	
63.7898(f)(5)	Rqmt 5: Meet continuous compliance requirements	Y	
63.7898(f)(6)	Rqmt 6: Compliance documentation records	Y	
63.7898(g)	Continuous compliance requirements for Tank Level 2 controls – Pressure tank	Y	
63.7898(g)(1)	Rqmt 1: Operate and maintain the pressure tank and closure devices	Y	
63.7898(g)(2)	Rqmt 2: Annual visual inspection	Y	
63.7898(g)(3)	Rqmt 3: Compliance documentation records	Y	
63.7898(h)	Continuous compliance requirements for Tank Level 2 controls – permanent total enclosure vented to enclosed combustion device	Y	
63.7898(h)(1)	Rqmt 1: Annual verification procedure for enclosure	Y	
63.7898(h)(2)	Rqmt 2: Recordkeeping	Y	

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63.7898(h)(3)	Rqmt 3: Meet continuous compliance requirements	Y	
63.7898(h)(3)	Rqmt 4: Compliance documentation records	Y	
63.7900	Containers – Emission limits and work practice standards	Y	
63.7900(a)	Containers – Definition of affected sources	Y	
63.7900(b)	Containers > 0.1 m3. Comply with 63.7900(b) or (d)	Y	
63.7900(b)(1)	Containers <= 0.46 m3; Container Level 1 per 63.922 or Container Level 2 per 63.923	Y	
63.7900(b)(2)	Containers > 0.46 m3; Option 1 - Container Level 2 controls per 63.923	Y	
63.7900(b)(3)	Containers > 0.46 m3; Option 2 – Allowances for Container Level 1 controls	Y	
63.7900(b)(3)(i)	Containers > 0.46 m3 require Container Level 1 controls if vapor pressure < 0.3 kPa at 20 C	Y	
63.7900(b)(3)(ii)	Containers > 0.46 m3 require Container Level 1 controls if Total concentration of pure organic constituents with vapor pressure greater than 013 kPa at 20 C is less than 20% by weight	Y	
63.7900(c)	Containers used for treatment by waste stabilization process	Y	
63.7900(d)	Containers > 0.1 m3: Optional instead of 63.7999(b) – Container Level 3 and comply with requirements for closed vent system and control device	Y	
63.7900(e)	Alternatives to work practice standards	Y	
63.7901	Containers – Initial Compliance	Y	
63.7901(a)	Containers – Initial Compliance per 63.7990	Y	
63.7901(b)	Containers – Initial Compliance – notification of compliance status; Signed statement of compliance with following requirements:	Y	
63.7901(b)(1)	Determined applicable container control levels	Y	
63.7901(b)(2)	Determined and recorded maximum vapor pressure or total organic concentration for containers > 0.46 m3 that do not use Container Level 2 or Level 3 controls	Y	
63.7901(c)	Demonstrate initial compliance for each container with Container Level 1 controls by certifying (c)(1) and (c)(2) in the notification of compliance status	Y	
63.7901(d)	Demonstrate initial compliance for each container with Container Level 2 controls by certifying (d)(1) thru (d)(4) in the notification of compliance status	Y	
63.7901(e)	Demonstrate initial compliance for each container with Container Level 3 controls by certifying (e)(1) and (e)(2) in the notification of compliance status	Y	
63.7902	Containers – Inspection and Monitoring Requirements	Y	
63.7902(a)	Inspect Container Level 1 or Container Level 2 contains IAW 63.926(a)	Y	
63.7902(b)	Meet Container Level 3 requirements as follows:	Y	

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63.7902(b)(1)	Container Level 3: annual verification procedure	Y	
63.7902(b)(2)	Container Level 3: monitor and inspect closed vent system and control device IAW 63,7927	Y	
63.7903	Containers – Continuous Compliance	Y	
63.7903(a)	Containers – Continuous Compliance per 63.7990	Y	
63.7903(b)	Containers – Continuous Compliance with requirement to determine applicable container control level	Y	
63.7903(b)(1)	Records of containers	Y	
63.7903(b)(2)	Containers > 0.46 m3 and using Container Level 1 controls – meet the following requirements:	Y	
63.7903(b)(2)(i)	Container Level 1 controls: Records of max vapor pressure or total organic concentration	Y	
63.7903(b)(2)(ii)	Container Level 1 controls: New determination when remediation material changes – keep records	Y	
63.7903(b)(3)	Records of compliance	Y	
63.7903(c)	Containers – Continuous Compliance Demonstration for Container Level 1 controls	Y	
63.7903(c)(1)	Covers	Y	
63.7903(c)(2)	Annual inspections	Y	
63.7903(c)(3)	Emptying or repairing	Y	
63.7903(c)(4)	Inspection records	Y	
63.7903(c)(4)(i)	Inspection records - Date	Y	
63.7903(c)(4)(ii)	Inspection records – Defect information	Y	
63.7903(c)(5)	Records of compliance	Y	
63.7903(d)	Containers – Continuous Compliance Demonstration for Container Level 2 controls	Y	
63.7903(d)(1)	Transferring material	Y	
63.7903(d)(2)	Covers	Y	
63.7903(d)(3)	Annual inspections	Y	
63.7903(d)(4)	Emptying or repairing	Y	
63.7903(d)(5)	Records of inspections	Y	
63.7903(d)(5)(i)	Inspection records - Date	Y	
63.7903(d)(5)(ii)	Inspection records – Defect information	Y	
63.7903(d)(6)	Records of compliance	Y	
63.7903(e)	Containers – Continuous Compliance Demonstration for Container Level 3 controls	Y	
63.7903(e)(1)	Annual verification procedure	Y	
63.7903(e)(2)	Records per 63.696(f)	Y	
63.7903(e)(3)	Comply with 63.7928	Y	
63.7903(e)(4)	Records of compliance	Y	
63.7910	Separators – Emission limits and work practice standards	Y	

#### IV. Source-Specific Applicable Requirements

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<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
63.7910(a)	Separators – Definition of affected sources	Y	
63.7910(b)	Separators – Install and operate air pollution controls	Y	
63.7910(b)(1)	Separator controls – Option 1: Floating roof (fixed roof allowed where floating roof infeasible)	Y	
63.7910(b)(2)	Separator controls – Option 2: Fixed roof vented to control device	Y	
63.7910(b)(3)	Separator controls – Option 3: Pressurized separator	Y	
63.7910(c)	Separators – Alternatives may be approved	Y	
63.7911	Separators – Initial Compliance	Y	
63.7911(a)	Separators – Initial compliance per 63.7910	Y	
63.7911(b)	Separators with floating roof – notification of compliance status; Signed statement of compliance with following requirements:	Y	
63.7911(b)(1)	Records documenting design and installation of roof and closure devices	Y	
63.7911(b)(2)	Operate floating roof and closure devices per 63.1043(c)	Y	
63.7911(b)(3)	Initial seal gap measurement performed and records available	Y	
63.7911(b)(4)	Initial visual inspection performed and records available	Y	
63.7911(b)(5)	Fixed roof portions meet requirements of 63.7901(c)	Y	
63.7911(c)	Separators with fixed roof vented to control device – notification of compliance status; Signed statement of compliance with following requirements:	Y	
63.7911(c)(1)	Records documenting design and installation of roof and closure devices	Y	
63.7911(c)(2)	Operate fixed roof and closure devices per 63.1042(c)	Y	
63.7911(c)(3)	Initial visual inspection performed and records available	Y	
63.7911(c)(4)	Initial compliance demonstrated with emission limits and work practice standards	Y	
63.7911(d)	Separators - Pressurized – notification of compliance status; Signed statement of compliance with following requirements:	Y	
63.7911(d)(1)	Records documenting design and installation of pressurized separator	Y	
63.7911(d)(2)	Operate pressurized separator per 63.1045(b)(3)	Y	
63.7912	Separators – Inspection and monitoring requirements	Y	
63.7912(a)	Separators – Inspection and monitoring requirements – Floating roof	Y	
63.7912(a)(1)	Annual seal gap measurement	Y	
63.7912(a)(2)	Annual visual inspection	Y	
63.7912(b)	Separators – Inspection and monitoring requirements – Cover vented to control device	Y	
63.7912(b)(1)	Visual inspection of cover and closure device	Y	
63.7912(b)(2)	Closed vent system and control device monitoring and inspection	Y	
63.7912(c)	Separators – Inspection and monitoring requirements – Pressurized separator	Y	

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63.7913	Separators – Continuous compliance	Y	
63.7913(a)	Separators – Continuous compliance requirements	Y	
63.7913(b)	Separators with floating roof – Continuous compliance	Y	
63.7913(b)(1)	Operate and maintain floating roof	Y	
63.7913(b)(2)	Annual seal gap measurements	Y	
63.7913(b)(3)	Annual visual inspections	Y	
63.7913(b)(4)	Repair defects	Y	
63.7913(b)(5)	Recordkeeping	Y	
63.7913(b)(6)	Compliance documentation records	Y	
63.7913(c)	Separators with fixed roof vented to control device – Continuous compliance	Y	
63.7913(c)(1)	Operate and maintain fixed roof and closure device	Y	
63.7913(c)(2)	Annual visual inspections	Y	
63.7913(c)(3)	Repair defects	Y	
63.7913(c)(4)	Recordkeeping	Y	
63.7913(c)(5)	Compliance documentation records	Y	
63.7913(d)	Separators - pressurized	Y	
63.7913(d)(1)	Operating at all times as required	Y	
63.7913(d)(2)	Annual visual inspection	Y	
63.7915	Transfer system emission limitations and work practice standards	Y	
63.7915(a)	Transfer system - comply with requirements for specific system	Y	
63.7915(c)	Transfer system – requirements for systems other than individual drain systems	Y	
63.7915(c)(2)	Continuous hard piping system – joints or seams must be permanently or semi-permanently sealed (welded or bolted/gasketed)	Y	
63.7916	Transfer system – Initial Compliance	Y	
63.7916(a)	Transfer system – Initial Compliance - comply with requirements for specific system	Y	
63.7916(d)	Transfer system – continuous hard piping – initial compliance by certifying (d)(1) and (d)(2)	Y	
63.7916(d)(1)	Certify installation of hard piped transfer system and have records	Y	
63.7916(d)(2)	Certify initial inspection of entire hard piped transfer system and have records	Y	
63.7917	Transfer Systems – Inspection and Monitoring Requirements	Y	
63.7917(c)	Transfer system – continuous hard piping – annual inspection of unburied portion for leaks and defects.	Y	
63.7917(e)	Transfer system – continuous hard piping – repair of defects	Y	
63.7917(e)(1)	First attempt at repairs	Y	
63.7917(e)(2)	Delay of repair	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.7917(e)(3)	Records – delay of repair	Y	
63.7918	Transfer system – Continuous Compliance	Y	
63.7918(a)	Transfer system – Continuous Compliance - comply with requirements for specific system	Y	
63.7918(d)	Transfer system – continuous hard piping – continuous compliance	Y	
63.7918(d)(1)	Operation and maintenance	Y	
63.7918(d)(2)	Annual inspection	Y	
63.7918(d)(3)	Repair of defects	Y	
63.7918(d)(4)	Records of compliance	Y	
63.7925	Closed Vent Systems and Control Devices – emission limits and work practice standards	Y	
63.7925(a)	Closed Vent Systems and Control Devices – emission limits and work practice standards	Y	
63.7925(b)	Closed Vent Systems and Control Devices – operate control device at all times when gases or vapors containing HAP are vented to it except:	Y	
63.7925(b)(1)	Bypass allowed for planned routine maintenance up to 240 hours per calendar year	Y	
63.7925(b)(2)	Bypass allowed to correct malfunction of closed-vent system or control device – as soon as practicable after malfunction	Y	
63.7925(c)	Closed Vent Systems and Control Devices – comply with emission limits and work practice standards	Y	
63.7925(d)	Closed Vent Systems and Control Devices for facility-wide process vent emission limits – requirements	Y	
63.7925(d)(1)	Option 1: Reduce total HAP (or TOC minus methane and ethane) emissions by 95%	Y	
63.7925(d)(2)	Option 2: Limit concentration of total HAP or TOC (minus methane and ethane) to 20 ppmvd or less @ 3% O <sub>2</sub>	Y	
63.7925(f)	Closed Vent Systems and Control Devices – process heater or boiler requirements	Y	
63.7925(f)(1)	Option 1: Introduce vent stream into flame zone; residence time $\geq 0.5$ seconds and temperature $\geq 760\text{C}$	Y	
63.7925(f)(2)	Option 2: Introduce vent stream with primary fuel	Y	
63.7925(f)(3)	Option 3: Introduce vent stream into permitted boiler or process heater complying with 40 CFR 266 Subpart H – Hazardous Waste Burned in Boilers and Industrial Furnaces	Y	
63.7925(g)	Closed Vent Systems and Control Devices – control device operating limits	Y	
63.7925(g)(1)	Regenerable carbon adsorption system requirements	Y	
63.7925(g)(2)	Nonregenerable carbon adsorption system requirements	Y	
63.7925(g)(3)	Condenser requirements	Y	
63.7925(g)(4)	Thermal incinerator requirements	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.7925(g)(5)	Catalytic incinerator requirements	Y	
63.7925(g)(6)	Boiler or process heater requirements	Y	
63.7925(h)	Closed Vent Systems and Control Devices – carbon absorption system work practice standards	Y	
63.7925(h)(1)	Regenerable carbon adsorption system work practices	Y	
63.7925(h)(2)	Nonregenerable carbon adsorption system work practices	Y	
63.7925(h)(3)	Nonregenerable carbon adsorption system alternative practices	Y	
63.7925(i)	Closed Vent Systems and Control Devices – catalytic incinerator work practice standards	Y	
63.7925(j)	Closed Vent Systems and Control Devices – alternative work practice standards	Y	
63.7926	Closed Vent Systems and Control Devices – Initial compliance	Y	
63.7926(a)	Closed Vent Systems and Control Devices – Initial compliance with 63.7925 requirements	Y	
63.7926(b)	Closed Vent Systems and Control Devices – NCS must contain statement of compliance for these closed vent system requirements	Y	
63.7926(b)(1)	Rqmt 1: Closed vent system installation and records	Y	
63.7926(b)(2)	Rqmt 2: Initial inspection of closed vent system and records	Y	
63.7926(c)	Closed Vent Systems and Control Devices – NCS must contain statement of compliance for control devices for facility-wide process vent emission control requirements	Y	
63.7926(c)(1)	Option 1: Document 95% control of emissions demonstrated in performance test or design evaluation	Y	
63.7926(c)(2)	Option 2: Document max emissions $\leq 20$ ppmvd @ 3% O <sub>2</sub> demonstrated in performance test or design evaluation	Y	
63.7926(d)	Closed Vent Systems and Control Devices – initial compliance demonstration - control device operating limits	Y	
63.7926(d)(1)	Rqmt 1: Establish appropriate operating limit(s) for each applicable operating parameter for control device per 63.7925(g)	Y	
63.7926(d)(2)	Rqmt 1: Record of applicable operating parameter data during performance test or design evaluation when emissions met applicable limit	Y	
63.7926(e)	Closed Vent Systems and Control Devices – carbon adsorption system – spent carbon replacement and disposal work practice standards - NCS must contain statement of compliance	Y	
63.7926(f)	Closed Vent Systems and Control Devices – catalytic oxidizer – catalyst replacement work practice standards - NCS must contain statement of compliance	Y	
63.7926(h)	Closed Vent Systems and Control Devices – records demonstrating compliance with boiler or process heater work practice standards in 63.7925(f) - NCS must contain statement of compliance	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.7927	Closed vent system and control devices – inspection and monitoring requirements	Y	
63.7927(a)	Closed vent system and control devices – Closed vent system inspection and monitoring requirements	Y	
63.7927(a)(1)	Rqmt 1: Inspection and monitoring options	Y	
63.7927(a)(2)	Rqmt 2: Closed vent system bypass device requirements	Y	
63.7927(b)	Closed vent system and control devices – Regenerable carbon adsorption system inspection and monitoring requirements	Y	
63.7927(b)(1)	Rqmt 1: Use CPMS to measure and record hourly average total regeneration stream flow during carbon adsorption cycle	Y	
63.7927(b)(2)	Rqmt 2: Use CPMS to measure and record hourly average temperature during regeneration	Y	
63.7927(b)(3)	Rqmt 3: Use CPMS to measure and record hourly average temperature of adsorption bed after regeneration	Y	
63.7927(c)	Closed vent system and control devices – Nonregenerable carbon adsorption system inspection and monitoring requirements – CPMS – organic compounds in exhaust	Y	
63.7927(d)	Closed vent system and control devices – Condenser inspection and monitoring requirements – CPMS – exit temperature	Y	
63.7927(e)	Closed vent system and control devices – Thermal incinerator inspection and monitoring requirements – CPMS – hourly average firebox temperature	Y	
63.7927(f)	Closed vent system and control devices – Catalytic incinerator inspection and monitoring requirements – CPMS – two temperature sensors – inlet and outlet	Y	
63.7927(g)	Closed vent system and control devices – Boiler or process heater inspection and monitoring requirements – CPMS – hourly average firebox temperature	Y	
63.7927(i)	Closed vent system and control devices – Boiler or process heater inspection and monitoring requirements – if introduced into flame zone, then CPMS – combustion zone temperature	Y	
63.7928	Closed vent system and control devices – continuous compliance	Y	
63.7928(a)	Closed vent system and control devices – continuous compliance requirements	Y	
63.7928(b)	Closed vent system and control devices – closed vent system continuous compliance with 63.7925(c) requirements	Y	
63.7928(b)(1)	Closed vent system designed for no detectable emissions - annual monitoring and inspection	Y	
63.7928(b)(2)	Closed vent system designed for to operate below atmospheric pressure – annual visual inspection	Y	
63.7928(b)(3)	Closed vent system – repair defects	Y	
63.7928(b)(4)	Closed vent system – inspection records	Y	



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<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
63.7928(b)(5)	Closed vent system – optional monitoring records	Y	
63.7928(b)(6)	Closed vent system bypass device – flow detector records, if applicable	Y	
63.7928(b)(7)	Closed vent system bypass device – monthly inspections of seal or closure mechanism, if applicable	Y	
63.7928(c)	Closed vent system and control devices – control device continuous compliance with 63.7925(d) requirements	Y	
63.7928(c)(1)	For 63.7925(d)(1) limit: maintain emission reduction $\geq 95\%$	Y	
63.7928(c)(2)	For 63.7925(d)(2) limit: maintain emissions $\leq 20$ ppmvd @ 3% O <sub>2</sub>	Y	
63.7928(d)	Closed vent system and control devices – control device continuous compliance with 63.7925(g) requirements	Y	
63.7928(d)(1)	Maintain each operating limit as applicable to control device	Y	
63.7928(d)(2)	Monitor and inspect control device per 63.7927 as applicable	Y	
63.7928(d)(3)	Operate and maintain each CPMS per 63.7945 and collect and reduce data per 63.7946	Y	
63.7928(d)(4)	Recordkeeping	Y	
63.7928(e)	Closed Vent Systems and Control Devices – regenerable carbon adsorption system – spent carbon replacement and disposal work practice standards	Y	
63.7928(f)	Closed Vent Systems and Control Devices – nonregenerable carbon adsorption system – spent carbon replacement and disposal work practice standards	Y	
63.7928(g)	Closed Vent Systems and Control Devices – nonregenerable carbon adsorption system – spent carbon replacement and disposal work practice standards – alternative standards	Y	
63.7928(h)	Closed Vent Systems and Control Devices – catalytic oxidizer – catalyst replacement work practice standards	Y	
63.7928(j)	Closed Vent Systems and Control Devices –process heater work practice standards continuous compliance demonstration	Y	
63.7935	General Compliance Requirements	Y	
63.7935(a)	Comply at all times except during periods of startup, shutdown, and malfunction	Y	
63.7935(b)	Comply with 63.6(e)(1)(i)	Y	
63.7935(c)	Develop a written SSMP per 63.6(e)(3)	Y	
63.7935(e)	Report each non-compliance (deviation) including startup, shutdown, and malfunction	Y	
63.7935(f)	Demonstration of compliance with SSMP for deviations during startup, shutdown, and malfunction	Y	
63.7936	Requirements to transfer remediation material off-site to another facility	Y	
63.7937	General Standards – Initial Compliance	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.7938	General Standards – Continuous Compliance	Y	
63.7940	Initial Compliance Demonstrations – Compliance Schedule	Y	
63.7940(a)	Requirements for existing sources with performance tests or design evaluations	Y	
63.7940(b)	Requirements for existing sources without performance tests or design evaluations	Y	
63.7940(c)	Requirements for new sources	Y	
63.7941	Initial Compliance Demonstration - Methods	Y	
63.7941(a)	Initial Compliance Demonstration – Comply with applicable methods for affected sources	Y	
63.7941(b)	Initial Compliance Demonstration - Requirements for performance tests as initial compliance demonstration	Y	
63.7941(c)	Initial Compliance Demonstration - Requirements for design evaluation of control devices (carbon, condenser, vapor incinerator, boiler, process heater)	Y	
63.7941(d)	Initial Compliance Demonstration - Monitoring requirements during performance tests and design evaluations	Y	
63.7941(e)	Initial Compliance Demonstration – Process heater or boiler performance test requirements	Y	
63.7941(f)	Initial Compliance Demonstration – CPMS performance tests	Y	
63.7941(g)	Initial Compliance Demonstration – Requirements for visual inspections of affected sources	Y	
63.7941(i)	Initial Compliance Demonstration – Requirements for Container Level 2 tests	Y	
63.7941(j)	Initial Compliance Demonstration – Requirements for permanent total enclosures with control devices	Y	
63.7941(k)	Initial Compliance Demonstration – Requirements for Separators	Y	
63.7941(m)	Initial Compliance Demonstration – Reporting requirements for initial compliance demonstration performance test or design evaluation	Y	
63.7942	Subsequent performance test requirements	Y	
63.7943	Method to determine average VOHAP concentration in remediation material	Y	
63.7944	Method to determine maximum HAP vapor pressure of remediation material	Y	
63.7945	Continuous Monitoring Systems – installation, operation, and maintenance requirements	Y	
63.7945(a)	CPMS requirements	Y	
63.7945(a)(1)	Must complete a minimum of one cycle of operation each successive 15-minute period	Y	
63.7945(a)(2)	Data availability requirements for valid hourly average	Y	
63.7945(a)(3)	Data availability requirements for valid averaging period	Y	

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63.7945(a)(4)	CPMS must determine hourly average or daily average, if required	Y	
63.7945(b)	Records of each inspection, calibration, and validation check	Y	
63.7945(c)	Performance evaluation requirements	Y	
63.7946	Monitor and collect data to demonstrate continuous compliance	Y	
63.7946(a)	Monitor and collect data per 63.7946 and site-specific monitoring plan	Y	
63.7946(b)	Monitor continuously (or at required intervals) at all times that affected source is operating except for monitor malfunctions, associated repairs, and required QA activities (calibration, etc.)	Y	
63.7946(c)	Do not use data recorded during monitoring malfunctions, associated repairs, out of control periods and required QA activities in data averages and calculations. Such data may not be used to fulfill a minimum data availability requirement.	Y	
63.7947	Monitoring alternatives		
63.7947(a)	Use CEMS in place of a CPMS to measure control device outlet total organic emissions or organic HAP emissions concentration.		
63.7947(b)	Maintain the daily (24-hour) average total organic or HAP emissions concentration in exhaust vent stream of the control device outlet less than or equal to the site-specific operating limit established during the performance test		
63.7950	Notification, Reports and Records	Y	
63.7950(a)	Submit notifications required in 63 Subpart A as required	Y	
63.7950(b)	Initial Notification compliance date (past due)	Y	
63.7950(c)	Initial Notification – new or reconstructed affected source	Y	
63.7950(d)	Notification requirement – 60 days prior to performance tests	Y	
63.7950(e)	Notification of Compliance Status – required if performance test, design evaluation , or other initial compliance demonstration is required	Y	
63.7950(f)	Notification of alternative standard selected	Y	
63.7951	Reports	Y	
63.7951(a)	Reports: Compliance report due dates	Y	
63.7951(b)	Reports: Compliance report contents	Y	
63.7951(c)	Reports: Immediate SSM report	Y	
63.7951(d)	Reports: Title V deviation reporting requirements	Y	
63.7952	Recordkeeping	Y	
63.7952(a)	Records required	Y	
63.7952(a)(1)	Records required: Copies of notifications and reports	Y	
63.7952(a)(2)	Records required: SSM records	Y	
63.7952(a)(3)	Records required: Performance tests and performance evaluations	Y	

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63.7952(a)(4)	Records required: Applicability determinations for exemptions	Y	
63.7952(b)	Records required: CPMS	Y	
63.7952(b)(1)	Records required: CPMS records per 63.10(b)(2)	Y	
63.7952(b)(2)	Records required: CPMS performance evaluation plans	Y	
63.7952(c)	Records required: Continuous compliance demonstration records for all applicable requirements	Y	
63.7952(d)	Records required: Semiannual records (63.696(g) for planned routine maintenance of a control device for emissions from process vents	Y	
63.7953	Record retention	Y	
63.7953(a)	Record retention: Format	Y	
63.7953(b)	Record retention: 5 years	Y	
63.7953(c)	Record retention: 2 years on site; 3 years off-site	Y	
63.7953(d)	Record retention: Offsite for completed remediations or when no longer the owner	Y	
63.7955	Applicability of General Provisions 40 CFR 63 Subpart A	Y	
63.7956	Implementation and Enforcement	Y	
63.7957	Definitions	Y	
<b>BAAQMD Condition 8077</b>			
Part B1	Definitions	Y	
Part B2	Emissions – see Table A of Appendix A (basis: cumulative increase, bubble, BACT)	Y	
Part B2A	Emissions Cap – annual limits (basis: cumulative increase, bubble, BACT)	Y	
Part B2B	Emissions Cap – monthly limits (basis: cumulative increase, bubble, BACT)	Y	
Part B2C	Emissions Cap – monthly compensatory emission limits (basis: cumulative increase, bubble, BACT)	Y	
Part B2D	Emissions Cap – total accumulated emissions in calendar year limit (basis: cumulative increase, bubble, BACT)	Y	
Part B2E	Emissions Cap – Exceedances of B2A and B2B (basis: cumulative increase, bubble, BACT)	Y	
Part B3	Emission Reductions when limits in B2 are exceeded (basis: cumulative increase, bubble)	Y	

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Part B3A	Emission Reductions for exceedances of annual emission limits (B2A) (basis: cumulative increase, bubble)	Y	
Part B3B	Emission Reductions for exceedances of monthly maximum emission limits (B2B) (basis: cumulative increase, bubble)	Y	
Part B3C	Emission Reductions for exceedances of monthly compensatory emission limits (B2C) (basis: cumulative increase, bubble)	Y	
Part B3D	Emission Reductions for exceedances of B2D cumulative emissions limits (basis: cumulative increase, bubble)	Y	
Part B3E	Emission Reductions- Hydrocarbon offsets for NOx (basis: cumulative increase, bubble, offsets)	Y	
Part B3F	Emission Reductions - Requirements for offsets for required abatement equipment (basis: cumulative increase, bubble, offsets)	Y	
Part B4	Monitoring	Y	
Part B4D	Monitoring required in Appendix D (basis: cumulative increase, offsets)	Y	
Part B5	Reporting and Recordkeeping (basis: cumulative increase, offsets)	Y	
Part B5A	Record Keeping and retention(basis: cumulative increase, offsets)	Y	
Part B5B	Monthly Reporting and Record Keeping (basis: cumulative increase, offsets)	Y	
Part B5C	Monthly Audits (basis: cumulative increase, offsets)	Y	
Part B8	Hydrocarbon Controls	Y	
Part B10	Access (basis: cumulative increase, offsets, BACT)	Y	
Part B11	Enforcement (basis: cumulative increase, offsets, BACT)	Y	
Part B12	Miscellaneous (basis: cumulative increase, offsets)	Y	
Part B13	Severability (basis: cumulative increase, offsets, BACT)	Y	
Part B14	Environmental Management Plan (basis: cumulative increase, offsets, BACT)	Y	
Appendix A	Refinery emission sources covered by Cap emission limitations	Y	
Appendix B	Data for determining emissions from marine activity	Y	
Appendix C	Procedures for determining emissions from refinery sources identified in Appendix A	Y	
Appendix D	Emission and fuel use monitoring instruments and procedures	Y	
<b>BAAQMD Condition 19528</b>	<b>Refinery Wide Permit Conditions</b>		

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**Source-specific Applicable Requirements**  
**FACILITY B2759**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
Part 12	Requirements Applicable to Tanks Exempt from Regulation 8-5, pursuant to Regulation 8-5-117	Y	
Part 12A	Record Keeping Requirements Applicable to Tanks Exempt from Regulation 8-5, pursuant to Regulation 8-5-117	Y	

## IV. Source-Specific Applicable Requirements

### SECTION B PROCESS UNITS

**Table IV – B.1**  
**Source-specific Applicable Requirements**  
**S802–FCCU: FLUID CATALYTIC CRACKER**  
**ABATED BY S901 CO BOILER**  
**ABATED BY A30 ESP**

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 (07/19/2006)</b>		
1-501	Sampling Facilities	Y	
1-520	Continuous Emission Monitoring	Y	
1- 520.5	SO2 and opacity monitors at catalyst regenerators of FCC units <sup>12</sup>	Y	
1- 520.8	Monitors pursuant to Regulations 10, 12 and 2-1-403 <sup>3</sup>	Y	
1-521	Monitoring may be required by APCO	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	
1-522.9	recordkeeping requirements	Y	
1-522.10	monitors required by Sections 1-521 or 2-1-403 shall meet the requirements specified by the APCO	Y	
1-523	Parametric Monitoring and Recordkeeping Procedures	N	
1-523.1	Report periods of parametric monitor inoperation	Y	
1-523.2	Limits on periods of parametric monitor inoperation	Y	
1-523.3	Report exceedances	N	
1-523.4	Recordkeeping	Y	
1-523.5	Maintenance and calibration; written policy	N	
1-602	Area and Continuous Monitoring Requirements	N	
<b>SIP Regulation 1</b>	<b>General Provisions and Definitions (06/28/1999)</b>		
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	Y	

<sup>1</sup> Emission limits for opacity apply to S802 but are monitored at S901.

<sup>2</sup> Emission limits for SO2 apply to S802 but are monitored at S901.

<sup>3</sup> Monitors are required by Regulation 10 (NSPS J) for opacity and SO2 emissions limits that apply to S802 but are monitored at S901.

## IV. Source-Specific Applicable Requirements

**Table IV – B.1**  
**Source-specific Applicable Requirements**  
**S802–FCCU: FLUID CATALYTIC CRACKER**  
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<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
1-522.7	Excesses	Y	
1-523	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.3	Report exceedances	Y	
<b>BAAQMD Regulation 6 Rule 1</b>	<b>Particulate Matter; General Requirements (12/05/2007)</b>		
6-1-301	Ringelmann Number 1 Limitation	N	
6-1-302	Opacity Limit (where opacity monitor is required by the District)	N	
6-1-305	Visible Particles	N	
6-1-310	Particulate Weight Limitation	N	
6-1-311	General Operations (process weight rate limitation) <sup>4</sup>	N	
6-1-401	Appearance of Emissions	N	
6-1-501	Sampling Facilities and Instruments Required (where opacity monitor is required by the District)	N	
6-1-502	Data, Records and Reporting (where opacity monitor is required by the District)	N	
6-1-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions	N	
<b>SIP Regulation 6</b>	<b>Particulate Matter and Visible Emissions (09/04/1998)</b>		
6-301	Ringelmann Number 1 Limitation	Y	
6-302	Opacity Limit (where opacity monitor is required by the District)	Y	
6-305	Visible Particles	Y	
6-310	Particulate Weight Limitation	Y	
6-311	General Operations (process weight rate limitation)	Y	
6-401	Appearance of Emissions	Y	
6-501	Sampling Facilities and Instruments Required (where opacity monitor is required by the District)	Y	
6-502	Data, Records and Reporting (where opacity monitor is required by the District)	Y	
6-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions	Y	
<b>BAAQMD Regulation 9 Rule 1</b>	<b>Inorganic Gaseous Pollutants – Sulfur Dioxide (03/15/1995)</b>		

<sup>4</sup> Emission limits for particulate matter apply to S802 but are monitored at S901  
 Final “Rev 5”



## IV. Source-Specific Applicable Requirements

**Table IV – B.1**  
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**S802–FCCU: FLUID CATALYTIC CRACKER**  
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<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
9-1-310	Emission Limitations for Fluid Catalytic Cracking Units, Fluid Cokers, and Coke Calcining Kilns	Y	
9-1-310.1	Emission Limitation for Fluid Catalytic Cracking Unit	Y	
9-1-310.3	Emission Limitation for Fluid Catalytic Cracking Units	Y	
9-1-502	Emission Monitoring Requirements (Regulations 1-520, 1-522)	Y	
9-1-601	Sampling and Analysis of Gas Streams	Y	
9-1-603	Averaging Times	Y	
9-1-605	Emission Monitoring	Y	
<b>BAAQMD Regulation 10</b>	<b>Standards of Performance for New Stationary Sources incorporated by reference (02/16/2000)</b>		
10-14	Subpart J – Standards of Performance for Petroleum Refineries (08/07/1991)	Y	
<b>40 CFR 60 Subpart J</b>	<b>NSPS – Standards of Performance for Petroleum Refineries (06/24/2008)</b> <b>Applicability defined by Condition 11433</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 Dioxide	Y	
60.104(b)(2)	Limit on sulfur oxide emissions from catalyst regenerator without an add-on control device.	Y	
60.104(c)	Determine compliance with §60.104(b)(2) daily on a 7-day rolling average basis per 60.106	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)	Continuous CO concentration monitoring requirement for catalyst regenerator emissions to atmosphere; span for instrument is 1000 ppm CO	Y	
60.105(c)	Daily record required: Average coke burn-off rate (Mg (tons) per hour) and hours of operation for FCCU catalyst regenerator	Y	
60.105(e)	Periods of excess emissions for §60.7(c) reports	Y	
60.105(e)(1)	Periods of excess emissions: Opacity	Y	

## IV. Source-Specific Applicable Requirements

**Table IV – B.1**  
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<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
60.105(e)(2)	Periods of excess emissions: Carbon monoxide	Y	
60.106	Test Methods and Procedures	Y	
60.106(a)	For §60.8 performance tests, use 40 CFR 60 Appendix A reference methods except as specified in §60.8	Y	
60.106(b)	Methods to determine compliance with PM standards in §60.102(a)	Y	
60.106(b)(1)	Methods to determine compliance with PM standards in §60.102(a): equations	Y	
60.106(b)(2)	Methods to determine compliance with PM standards in §60.102(a); Method 5B or 5F methods	Y	
60.106(b)(3)	Coke burn-off rate calculation	Y	
60.106(b)(4)	Methods to determine opacity	Y	
60.106(d)	Methods to determine compliance with CO standard in §60.103(a)	Y	
60.106(g)	Methods to determine compliance with SO <sub>2</sub> standard in §60.104(b)	Y	
60.106(i)	Calculation procedures for determining compliance with §60.104(b)(2)	Y	
60.106(i)(12)	An owner or operator may, upon approval by the Administrator, use an alternative method for determining compliance with §60.104(b)(2)	Y	
60.107	Reporting and recordkeeping requirements	Y	
60.107(b)(2)	Records if subject to §60.104(b)(2)	Y	
60.107(b)(4)	Records for each 7-day rolling average compliance determination	Y	
60.107(c)	Report required if subject to §60.104(b).	Y	
60.107(c)(1)	Report required if subject to §60.104(b). Information required in report:	Y	
60.107(c)(1)(ii)	Report required if subject to §60.104(b). Information required in report if complying with 60.104(b)(2) – Identify all 7 day periods during which average SO <sub>2</sub> exceeded limit	Y	
60.107(c)(3)	Report required if subject to §60.104(b). Information required in report if complying with 60.104(b)(2) – Data required for each 7 day period during which an exceedance occurred	Y	
60.107(d)	Report required if subject to §60.104(b). Information required in report: signed certification explaining periods when data not available	Y	
60.107(f)	Submit required reports semiannually for each six-month period, a report postmarked by the 30th day following the end of each six-month period.	Y	
60.107(g)	Submit signed statement certifying accuracy and completeness of information contained in the report.	Y	
<b>40 CFR 60 Appendix B</b>	<b>NSPS – Title 40 Part 60 Appendix B – Performance Specifications (10/17/2000)</b> <b>Applicability defined by Condition 11433</b>		

## IV. Source-Specific Applicable Requirements

**Table IV – B.1**  
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<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
Performance Specification 2	Specifications and Test Procedures for SO <sub>2</sub> and NO <sub>x</sub> Continuous Emission Monitoring Systems in Stationary Sources	Y	
Performance Specification 3	Specifications and Test Procedures for O <sub>2</sub> and CO <sub>2</sub> Continuous Emission Monitoring Systems in Stationary Sources	Y	
Performance Specification 4	Specifications and Test Procedures for Carbon Monoxide Continuous Emission Monitoring Systems in Stationary Sources	Y	
<b>40 CFR 60 Appendix F</b>	<b>NSPS – Title 40 Part 60 Appendix F – Quality Assurance Procedures (06/13/2007)</b> <b>Applicability defined by Condition 11433</b>		
Procedure 1	QA Requirements for Gas Continuous Emission Monitoring Systems	Y	
<b>40 CFR 63 Subpart UUU</b>	<b>NESHAPS for Source Categories - Petroleum Refineries: Catalytic Cracking Units, Catalytic Reforming Units, and Sulfur Recovery Units (04/20/2006)</b>		
63.1560	Applicability and Designation of Affected Facility	Y	
63.1561(a)(1)	Applicable to petroleum refineries located at a major source of HAP emissions	Y	
63.1561(a)(2)	Applicable to a major source of HAPs with potential to emit 10 tpy any single HAP or 25 tpy of any combination of HAPs	Y	
63.1562	What parts of my plant are covered by this subpart?	Y	
63.1562(a)	New, reconstructed, or existing affected source at a petroleum refinery	Y	
63.1562(b)(1)	Affected source: Process vent on FCCU catalyst regenerator	Y	
63.1562(e)	Existing affected source	Y	
63.1564	Requirements for HAP Emissions from Catalytic Cracking Units	Y	
63.1564(a)	Emission Limitations and Work Practice Standards	Y	
63.1564(a)(1)	Emission limitation requirements for Catalytic Cracking Units subject to NSPS 60.102 for PM: Meet the emission limitations for NSPS units. (Table 1, Item 1)	Y	
63.1564(a)(3)	Prepare Operation, Maintenance, and Monitoring Plan and operate in compliance with the plan	Y	
63.1564(b)	Initial Compliance Demonstration with emission limitations and work practice standards	Y	
63.1564(b)(1)	Install Continuous Opacity Monitoring System (COMS) to measure and record the opacity of emissions from each catalyst regenerator vent. (Table 3, Item 1)	Y	

## IV. Source-Specific Applicable Requirements

**Table IV – B.1**  
**Source-specific Applicable Requirements**  
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<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
63.1564(b)(6)	Demonstrate Initial Compliance with Work Practice Standard by submitting Operation, Maintenance, and Monitoring Plan as part of the Notification of Compliance Status report.	Y	
63.1564(b)(7)	Submit Notice of Initial Compliance Status containing the results of the initial compliance demonstration.	Y	
63.1564(c)	Continuous Compliance Demonstration with emission limitation and work practice standards	Y	
63.1564(c)(1)	For PM emission limit, determine and record daily average coke burn-off rate and hours of operation for catalyst regenerator; use process data to determine the volumetric flow rate; and maintain PM emission rate below 1.0 lb/1,000 lbs of coke burn-off. For site-specific opacity limit collect hourly average continuous opacity monitoring system data and maintain each 6-minute average per 1-hour period below the site-specific limit. (Table 6, Item 1)	Y	
63.1565	Requirements for Organic HAP Emissions from Catalytic Cracking Units	Y	
63.1565(a)	Emission Limitations and Work Practice Standards	Y	
63.1565(a)(1)	Emission limitation requirements for Catalytic Cracking Units subject to NSPS for CO in 60.103: Meet emission limitations for NSPS units.	Y	
63.1565(a)(3)	Prepare Operation, Maintenance, and Monitoring Plan and operate in compliance with the plan.	Y	
63.1565(b)	Initial Compliance Demonstration with emission limitations and work practice standards	Y	
63.1565(b)(1)	Install Continuous Emissions Monitoring System (CEMS) to measure and record the CO emissions concentration (ppmvd) from each catalyst regenerator vent. (Table 10, Item 1)	Y	
63.1565(b)(4)	Initial Compliance Demonstration with emission limitation. (Table 12, Item 1)	Y	
63.1565(b)(5)	Demonstrate Initial Compliance with Work Practice Standard by submitting Operation, Maintenance, and Monitoring Plan as part of the Notification of Compliance Status report.	Y	
63.1565(b)(6)	Submit Notice of Initial Compliance Status containing the results of the initial compliance demonstration.	Y	
63.1565(c)	Continuous Compliance Demonstration with emission limitation and work practice standards	Y	
63.1565(c)(1)	Demonstrate Continuous Compliance with emission limitation by collecting hourly average CO data, maintain hourly average CO concentration at or below 500 ppmvd. (Table 13, Item 1)	Y	

## IV. Source-Specific Applicable Requirements

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<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
63.1565(c)(2)	Demonstrate Continuous Compliance with Work Practice Standard through maintaining records to document conformance with the Operation, Maintenance, and Monitoring Plan.	Y	
63.1569	Requirements for HAP Emissions from Bypass Lines	Y	
63.1569(a)(1)	Meet work practice standards for bypass lines by selecting one of four options.	Y	
63.1569(a)(1)(i)	Install an automated system in the bypass line (Table 36, Option 1)	Y	
63.1569(a)(3)	Prepare an Operations, Maintenance, and Operating Plan, and operate at all times in accordance with the Plan.	Y	
63.1569(b)	Initial Compliance Demonstration with work practice standards	Y	
63.1569(b)(1)	Conduct performance test for automated bypass line (Table 37, Option 1)	Y	
63.1569(b)(2)	Demonstrate initial compliance with work practice standard for bypass line with automated system (Table 38, Option 1).	Y	
63.1569(b)(3)	Demonstrate initial compliance with the work practice standard for automated bypass lines by submitting an Operations, Maintenance, and Monitoring Plan as part of the Notification of Compliance Status report.	Y	
63.1569(b)(4)	Submit the Notification of Compliance Status containing the results of the initial compliance demonstration.	Y	
63.1569(c)	Demonstrate continuous compliance with the work practice standards for bypass lines.	Y	
63.1569(c)(1)	Demonstrate continuous compliance with the work practice standards for automated bypass lines by continuously monitoring and recording whether flow is present in the bypass line, and recording whether the device is operating properly. (Table 39, Option 1)	Y	
63.1569(c)(2)	Demonstrate continuous compliance with the work practice standard for automated bypass lines by complying with the Operation, Maintenance, and Monitoring Plan.	Y	
63.1570	General Compliance Requirements	Y	
63.1570(a)	Operate in compliance with non-opacity standards at all times except during periods of startup, shutdown, and malfunction, as specified in 63.6(f)(1)	Y	
63.1570(b)	Operate in compliance with the opacity limits at all times except during periods of startup, shutdown, and malfunction, as specified in 63.6(h)(1).	Y	
63.1570(c)	Operate and maintain source including pollution control and monitoring equipment in accordance with 63.6(e)(1).	Y	
63.1570(d)	Develop and implement startup, shutdown, and malfunction plan (SSMP) in accordance with 63.6(e)(3)	Y	

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**Table IV – B.1**  
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<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
63.1570(f)	Report deviations from compliance with this subpart according to the requirements of 63.1575	Y	
63.1570(g)	Deviations that occur during startup, shutdown, or malfunction are not violations if operating in accordance with SSMP	Y	
63.1571	Performance Tests	Y	
63.1571(a)	Conduct Performance Test and submit results no later than 150 days after compliance date	Y	
63.1571(b)	Requirements for Performance Tests	Y	
63.1571(b)(1)	Conduct performance tests in accordance with the requirements of 63.7(e)(1)	Y	
63.1571(b)(2)	Except for opacity and visual emissions observations, conduct three separate test runs of at least an hour for each performance test	Y	
63.1571(b)(3)	Conduct each performance evaluation in accordance with the requirements of 63.8(e)	Y	
63.1571(b)(4)	Do not conduct performance tests during periods of startup, shutdown, or malfunction	Y	
63.1571(b)(5)	Arithmetic average of emission rates	Y	
63.1572	Monitoring installation, operation, and maintenance requirements	Y	
63.1572(a)	Monitoring installation, operation, and maintenance requirements for continuous emissions monitoring systems	Y	
63.1572(a)(1)	Install, operate, and maintain CO CEMS for the FCCU CO limit on the FCCU according to the requirements in Table 40.	Y	
63.1572(a)(2)	Performance test requirements for CEMS used to meet NSPS CO limit in accordance with §63.8 and Table 40.	Y	
63.1572(a)(3)	Minimum data requirements for CEMS per 63.8(c)(4)(ii).	Y	
63.1572(a)(4)	Data reduction requirements per 63.8(g)(2).	Y	
63.1572(b)	Monitoring installation, operation, and maintenance requirements for continuous opacity monitoring systems.	Y	
63.1572(b)(1)	Install, operate, and maintain COM for the FCCU according to the requirements in Table 40.	Y	
63.1572(b)(2)	Performance test requirements for COMS to meet NSPS COM limit in accordance with §63.8 and Table 40.	Y	
63.1572(b)(3)	Minimum data requirements for CEMS per 63.8(c)(4)(i).	Y	
63.1572(d)	Data monitoring and collection requirements	Y	
63.1572(d)(1)	Conduct monitoring at all times source is operating except for monitoring malfunctions, repairs, and QA/QC activities	Y	

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**Table IV – B.1**  
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<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
63.1572(d)(2)	Not use data recorded during monitoring malfunctions, repairs, and QA/QC activities	Y	
63.1573	Monitoring Alternatives	Y	
63.1573(a)(2)	Alternative to calculate regenerator exhaust rate based on air flow rate to the regenerator, and CO/CO <sub>2</sub> , and O <sub>2</sub> in exhaust flow	Y	
63.1574	Notification Requirements	Y	
63.1574(a)(2)	Submit notification of intent to conduct performance test 30 days before scheduled (instead of 60 days)	Y	
63.1574(a)(3)	Notification of Compliance Status	Y	
63.1574(a)(3)(ii)	Submit Notification of Compliance Status for initial compliance demonstration that includes a performance test, no later than 150 days after source compliance date	Y	
63.1574(d)	Information to be Submitted in Notice of Compliance Status (Table 42): identification of affected sources and emission points (Item 1); initial compliance demonstration (Item 2); continuous compliance (Item 3)	Y	
63.1574(f)	Requirement to prepare Operation, Maintenance, and Monitoring Plan	Y	
63.1574(f)(1)	Submit plan to permitting authority for review and approval along with NOCS. Include duty to prepare and implement plan into Part 70 or 71 permit. Submit changes for review and approval. Comply with approved OMMP until change approved.	Y	
63.1574(f)(2)	Minimum contents of Operation, Maintenance, and Monitoring Plan	Y	
63.1575	Reports	Y	
63.1575(a)	Required reports: semiannual compliance report (Table 43, Item 1)	Y	
63.1575(b)	Specified semiannual report submittal dates	Y	
63.1575(c)	Information required in compliance report	Y	
63.1575(d)	Information required for deviations from emission limitations and work practice standards where CEMS or COMS <b>is not</b> used to comply with emission limitation or work practice standard	Y	
63.1575(e)	Information required for deviations from emission limitations and work practice standards where CEM or COMS <b>is</b> used to comply with emission limitation or work practice standard	Y	
63.1575(f)	Additional information for compliance reports	Y	
63.1575(g)	Submittal of reports required by other regulations in place of or as part of compliance report if they contain the required information	Y	
63.1575(h)	Reporting requirements for startups, shutdowns, and malfunctions	Y	
63.1576	Recordkeeping	Y	
63.1576(a)	Required Records – General	Y	

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<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(b)	Records for continuous emission monitoring systems and continuous opacity monitoring systems	Y	
63.1576(c)	Records required by for visible emission observations (63.6(h))	Y	
63.1576(d)	Records required by Tables 6, 7, 13, and 14 of Subpart UUU for catalytic cracking units and Table 39 for bypass lines	Y	
63.1576(e)	Maintain copy of Operation, Maintenance, and Monitoring Plan and records to show continuous compliance with plan	Y	
63.1576(f)	Records of changes that affect emission control system performance	Y	
63.1576(g)	Records in a form suitable and readily available for review	Y	
63.1576(h)	Maintain records for 5 years	Y	
63.1576(i)	Records onsite for two years; may be maintained offsite for remaining 3 years	Y	
<b>40 CFR 64</b>	<b>Compliance Assurance Monitoring (10/22/1997)</b>		
64.2(a)	General Applicability	Y	
64.2(a)(1)	General Applicability: Subject to an emission limitation or standard for regulated air pollutant	Y	
64.2(a)(2)	General Applicability: Uses a control device to achieve compliance with emission limitation	Y	
64.2(a)(3)	General Applicability: Has pre-control device potential to emit $\geq$ major source threshold	Y	
64.2(b)(1)	Exemptions for emission limitations or standards	Y	
64.2(b)(1)(i)	Exemptions for emission limitations or standards: Emission limitation proposed after 11/15/1990	Y	
64.2(b)(1)(vi)	Exemptions for emission limitations or standards: Title V permit specifies a continuous compliance determination method for emission limitation	Y	
<b>BAAQMD Condition 8077</b>			
Part B2	Emissions – see Table A of Appendix A	Y	
Part B2A	Emissions Cap – annual limits	Y	
Part B2B	Emissions Cap – monthly limits	Y	
Part B2C	Emissions Cap – monthly compensatory emission limits	Y	
Part B2D	Emissions Cap – total accumulated emissions in calendar year limit		
Part B5	Reporting and Recordkeeping	Y	
Appendix A	Refinery emission sources covered by Cap emission limitations	Y	
Appendix A.1	Emission points covered by the hydrocarbon limits of Part B2	Y	
Appendix A.2	Emission points covered by the nitrogen oxides limits of Part B2	Y	



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<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
Appendix A.3	Emission points covered by the sulfur oxide limits of Part B2	Y	
Appendix A.4	Emission points covered by the carbon monoxide limits of Part B2	Y	
Appendix A.5	Emission points covered by the particulate limits of Part B2	Y	
Appendix C	Procedures for determining emissions from refinery sources identified in Appendix A	Y	
Appendix C.2(b)	SO <sub>2</sub> Emissions – FCCU-COB	Y	
Appendix C.3(b)	NO <sub>x</sub> Emissions – FCCU-COB	Y	
Appendix C.4(b)	Particulate Emissions – FCCU COB. Includes source test requirements	Y	
Appendix C.5(b)	Nonmethane Hydrocarbon Emissions – FCCU COB	Y	
Appendix C.6(b)	Carbon Monoxide Emissions – FCCU-COB	Y	
Appendix D	Emission and fuel use monitoring instruments and procedures	Y	
Appendix D.SO <sub>2</sub>	In-stack SO <sub>2</sub> concentration monitor and stack gas flow rate monitors on S901	Y	
Appendix D.NO <sub>x</sub>	In stack NO <sub>x</sub> concentration monitor and stack gas flow rate monitor on S901	Y	
Appendix D. 100 PSI Fuel Gas Metering System	Flow rate monitor for 100# refinery fuel gas supply to S901	Y	
<b>BAAQMD Condition 11433</b>			
Part 1	Requirement for abatement by A-30 Electrostatic Precipitator (basis: cumulative increase, BACT, offsets)	Y	
Part 2	Annual emission limits by pollutant (basis: cumulative increase, BACT, offsets)	Y	
Part 2A	NO <sub>x</sub> and SO <sub>2</sub> CEM requirement (basis: cumulative increase, BACT)	Y	
Part 2B	Continuous Opacity Monitor (basis: Reg. 6-302)	Y	
Part 4	Requirement to monitor and calculate emissions (basis: cumulative increase, BACT, offsets)	Y	
Part 5	Procedure for development of new emission factors (basis: cumulative increase, offsets)	Y	

## IV. Source-Specific Applicable Requirements

**Table IV – B.1**  
**Source-specific Applicable Requirements**  
**S802–FCCU: FLUID CATALYTIC CRACKER**  
**ABATED BY S901 CO BOILER**  
**ABATED BY A30 ESP**

<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	Record keeping (basis: cumulative increase, offsets, BACT)	Y	
Part 7	Consent decree NOx Emission Limits (basis: Consent Decree §§ 35)	Y	
Part 8	Consent decree SO2 Emission Limits (basis: Consent Decree §§ 82)	Y	
Part 9	Consent decree CO Emission Limits (basis: Consent Decree §§ 94)	Y	
Part 10	Consent decree Particulate Emission Limits (basis: Consent Decree §§ 95)	Y	
Part 11	Consent Decree NSPS Applicability: SO2, CO, opacity, particulate matter. NSPS Limits not applicable during startup, shutdown or malfunction (basis: Consent Decree §§ 99, 102 , 107A, 110)	Y	
Part 12	Consent Decree short-term NOx and SO2 limits not applicable during hydrotreater outage, including startup, shutdown or malfunction (basis: Consent Decree §§ 85)	Y	
Part 13	Consent Decree NOx monitoring requirements (basis: Consent Decree §§ 61, 62)	Y	
Part 14	Consent Decree SO2 monitoring requirements (basis: Consent Decree §§ 90, 91)	Y	
Part 15	Consent Decree exemptions from NSPS notification requirements (basis: Consent Decree §§ 100, 108)	Y	
Part 16	Consent Decree CEMS accuracy test allowances (basis: Consent Decree §§ 62, 90, 101, 109)	Y	
<b>BAAQMD Condition 22150</b>			
Part 1	Continuous ESP opacity monitoring for assurance of compliance with Regulations 6-310. (basis: Regulation 6-310, 2-6-503)	Y	
Part 2	Opacity limit; Each time the opacity exceeds the established range of compliance, the owner/operator shall conduct a source test to determine compliance with Regulations 6-310. The source test shall be within 45 days of the detection of the exceedance.(basis: Regulation 2-6-503)	Y	

#### IV. Source-Specific Applicable Requirements

**Table IV – B.2**  
**Source-specific Applicable Requirements**  
**S815–No. 1 FEED PREP., S816-No. 2 FEED PREP.,**  
**S817-No. 3 CRUDE UNIT, S1001-NO. 50 CRUDE UNIT**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<b>BAAQMD Condition 8077</b>			
Part B3Aii	Reduced limit on crude throughput applicable when criteria in condition 8077 part B2 are not met. (basis: cumulative increase, bubble, offsets)	Y	
<b>BAAQMD Condition 10696</b>	<b>Applies to S815, S816, and S817 only</b>		
Part 1	Requirement for VOC abatement (basis: Regulation: 1-301, toxics)	Y	
<b>BAAQMD Condition 17837</b>	<b>Applies to S817 only</b>		
Part 1	Calendar day throughput limit (basis: 2-1-234.3, Regulation 2-1-403, Regulation 2-6-503)	Y	
Part 2	Rolling 365 day throughput limit (basis: 2-1-234.3, Regulation 2-1-403, Regulation 2-6-503)	Y	
Part 3	Recordkeeping (basis: 2-1-234.3, Regulation 2-1-403, Regulation 2-6-503)	Y	

**Table IV – B.3**  
**Source-specific Applicable Requirements**  
**S850-NO. 3 HDS UNIT**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<b>BAAQMD Condition 8077</b>			
Part B6B and B6C	Throughput Limit – S850 <= 70,000 bbl/stream day	Y	

## IV. Source-Specific Applicable Requirements

**Table IV – B.4**  
**Source-specific Applicable Requirements**  
**S1002-No. 1 HDS UNIT**  
**S1003-No. 2 HDS UNIT**  
**S1006-No. 1 HDA UNIT**  
**S1105-No. 4 HDS UNIT**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<b>BAAQMD Condition 8350</b>	<b>Section A – Applies to S1002</b> <b>Section B – Applies to S1003</b> <b>Section C – Applies to S1006</b>		
Part A1	S1002 Feed Throughput Limit (basis: cumulative increase)	Y	
Part A4	S1002 Recordkeeping (basis: cumulative increase)	Y	
Part B1	S1003 Feed Throughput Limit (basis: cumulative increase)	Y	
Part B4	S1003 Recordkeeping (basis: cumulative increase)	Y	
Part C1	S1006 Feed Throughput Limit (basis: cumulative increase)	Y	
Part C4	S1006 Recordkeeping (basis: cumulative increase)	Y	
<b>BAAQMD Condition 19199</b>	<b>Applies to S1105 only</b>		
Part G0	S1105 Hydrocarbon material/feed material throughput limit (basis: Regulation 2-2-419)	Y	
Part G5	S1105 pumps BACT compliant and emissions < 100 ppm (basis: BACT, Regulation 8-18)	Y	
Part G9	S1105 Recordkeeping (basis: cumulative increase)	Y	

## IV. Source-Specific Applicable Requirements

**Table IV – B.5**  
**Source-specific Applicable Requirements**  
**S1004-NO. 2 CATALYTIC REFORMER**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<b>40 CFR 63 Subpart UUU</b>	<b>NESHAPS for Source Categories - Petroleum Refineries: Catalytic Cracking Units, Catalytic Reforming Units, and Sulfur Recovery Units (04/20/2006)</b>		
63.1560	Applicability and Designation of Affected Facilities	Y	
63.1561(a)(1)	Applicable to petroleum refineries located at a major source of HAP emissions	Y	
63.1561(a)(2)	Applicable to a major source of HAPs with potential to emit 10 tpy any single HAP or 25 tpy of any combination of HAPs	Y	
63.1562	What parts of my plant are covered by this subpart?	Y	
63.1562(a)	New, reconstructed, or existing affected source at a petroleum refinery	Y	
63.1562(b)	Affected sources include:	Y	
63.1562(b)(2)	Affected source: Process vents or group of vents on catalytic reforming units associated with catalyst regeneration, including vents used during unit depressurization, purging, coke, and catalyst rejuvenation	Y	
63.1562(e)	Existing affected source	Y	
63.1562(f)	This subpart does not apply to:	Y	
63.1562(f)(5)	Regeneration vent used during unit depressuring and purging, when vent is routed to fuel gas system (note: all S1004 regeneration vent emissions are sent to the refinery fuel gas system)	Y	
63.1566	Requirements for Organic HAP Emissions from Catalytic Reforming Units	Y	
63.1566(a)(1)	Meet Emission Limitation in Table 15 that applies (note: None apply -- all S1004 regeneration vent emissions are sent to the refinery fuel gas system)	Y	
63.1566(a)(3)	Limits apply during initial catalyst depressuring and catalyst purging operations. Limits do not apply to the coke burn-off, catalyst rejuvenation, reduction or activation vents or to the control systems used for these vents.	Y	
63.1566(a)(4)	Limits do not apply when the reactor vent pressure is 5 pounds per square inch gauge (psig) or less	Y	
63.1566(a)(5)	Prepare an OMMP per 63.1574(f) and operate at all times according to the OMMP	Y	
63.1566(b)	Initial Compliance Demonstration	Y	
63.1566(b)(7)	Submit OMMP as part of Notice of Compliance Status	Y	
63.1566(b)(8)	Submit Notice of Compliance Status per 63.1574	Y	

## IV. Source-Specific Applicable Requirements

**Table IV – B.5**  
**Source-specific Applicable Requirements**  
**S1004-NO. 2 CATALYTIC REFORMER**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
63.1566(c)	Demonstrate Continuous Compliance	Y	
63.1566(c)(2)	Demonstrate Continuous Compliance with Work Practice Standard by complying with the Operations, Maintenance, and Monitoring Plan	Y	
63.1567	Requirements for Inorganic HAP Emissions from Catalytic Reforming Units	Y	
63.1567(a)	Emission Limitations and Work Practice Standards	Y	
63.1567(a)(1)	Emission limitation options during coke burn-off and catalyst rejuvenation	Y	
63.1567(a)(1)(ii)	Emission Limitations during coke burn-off and catalyst rejuvenation for existing semi-regenerative catalytic reforming unit – HCl concentration limit: Reduce uncontrolled HCl emissions to a concentration of 30 ppmvd corrected to 3%O <sub>2</sub> (Table 22 Item 1, Option 2)	Y	
63.1567(a)(2)	Operating limits for internal scrubbing system or no control device meeting outlet HCl concentration limit: Daily average HCl concentration in catalyst regenerator exhaust gas must not exceed limit established during performance test (Table 23, Item 2)	Y	
63.1567(a)(3)	Prepare Operation, Maintenance, and Monitoring Plan and operate in compliance with the plan	Y	
63.1567(b)	Initial Compliance Demonstration with emission limitations and work practice standards	Y	
63.1567(b)(1)	Demonstrate initial compliance for internal scrubbing system or no control device meeting outlet HCl concentration limit: Install and operate a colormetric tube sampling system (complying with Table 41, Item 2) to measure HCl concentration in the catalyst regenerator exhaust gas during coke burn-off and catalyst rejuvenation. (Table 24, Item 2)	Y	
63.1567(b)(2)	Demonstrate initial compliance with performance test for concentration standard: measure HCl concentration at the outlet of the scrubber and comply with the requirements for semi-regenerative units (Table 25, Item 1)	Y	

**IV. Source-Specific Applicable Requirements**

**Table IV – B.5  
 Source-specific Applicable Requirements  
 S1004-NO. 2 CATALYTIC REFORMER**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
63.1567(b)(3)	Demonstrate initial compliance with performance test for concentration standard: Establish operating limits for internal scrubbing system or no control device meeting HCl outlet concentration limit: measure and record HCl concentration in catalyst regenerator exhaust gas using colormetric tube sampling system at least three times during each test run. Determine and record average HCl concentration for each test run. Determine and record average HCl concentration for the overall source test. Determine and record the operating limit for HCl concentration using Equation 4 of 63.1567. (Table 25, Item 3)	Y	
63.1567(b)(4)	Demonstrate initial compliance with emission limitations: use equations to reduce performance test data	Y	
63.1567(b)(4)(i)	Demonstrate initial compliance with emission limitations: use equations to reduce performance test data – correct measured HCl concentration for O2 content	Y	
63.1567(b)(4)(ii)	Demonstrate initial compliance with the HCl concentration operating limit using colormetric tube sampling system and Equation 4	Y	
63.1567(b)(5)	Demonstrate initial compliance with emission limitation if average HCl emissions during performance test using Method 26 are $\leq 30$ ppmvd corrected to 3% O2. (Table 26, Item 1)	Y	
63.1567(b)(6)	Demonstrate initial compliance with work practice standard by submitting Operation, Maintenance, and Monitoring Plan	Y	
63.1567(b)(7)	Submit Notice of Initial Compliance Status containing results of initial compliance demonstration	Y	
63.1567(c)	Continuous compliance demonstration with emission limitations and work practice standards	Y	
63.1567(c)(1)	Demonstrate continuous compliance with emission limitation and operating limits: maintain HCl concentration $\leq 30$ ppmvd corrected to 3% O2 (Table 27, Item 1) and measure and record the HCl concentration at least 4 times during a regeneration cycle or every 4 hours whichever is more frequent using colormetric tube sampling system. Calculate daily average HCl concentration and maintain below applicable operating limit (Table 28, Item 2)	Y	
63.1567(c)(2)	Demonstrate continuous compliance with work practice standard by maintaining records to document conformance with the Operation, Maintenance, and Monitoring Plan	Y	
63.1570	General Compliance Requirements	Y	

## IV. Source-Specific Applicable Requirements

**Table IV – B.5**  
**Source-specific Applicable Requirements**  
**S1004-NO. 2 CATALYTIC REFORMER**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
63.1570(a)	Operate in compliance with non-opacity standards at all times except during periods of startup, shutdown, and malfunction, as specified in 63.6(f)(1)	Y	
63.1570(b)	Comply with visible emissions limit at all times specified in 63.6(h)(1)	Y	
63.1570(c)	Operate and maintain source including pollution control and monitoring equipment in accordance with 63.6(e)(1).	Y	
63.1570(d)	Develop startup, shutdown, and malfunction plan (SSMP) in accordance with 63.6(e)(3)	Y	
63.1570(f)	Report deviations from compliance with this subpart according to the requirements of 63.1575	Y	
63.1570(g)	Deviations that occur during startup, shutdown, or malfunction are not violations if operating in accordance with SSMP	Y	
63.1571	Performance Tests	Y	
63.1571(a)	Conduct Performance Test and submit results no later than 150 days after compliance date	Y	
63.1571(b)	Requirements for Performance Tests	Y	
63.1571(b)(1)	Conduct performance tests in accordance with the requirements of 63.7(e)(1)	Y	
63.1571(b)(2)	Except for opacity and visual emissions observations, conduct three separate test runs of at least an hour for each performance test	Y	
63.1571(b)(4)	Performance tests not conducted during periods of startup, shutdown, or malfunction	Y	
63.1571(b)(5)	Arithmetic average of emission rates	Y	
63.1571(d)	Adjustment for measured values	Y	
63.1571(d)(4)	Adjust process or control device measured values when establishing operating limit (optional)	Y	
63.1571(e)	Changes to Operating limits (optional)	Y	
63.1571(e)(1)	Procedures to change established operating limit for continuous parametric monitoring system (CPMS)	Y	
63.1571(e)(2)	Requirement to change established operating limit for CPMS if there are any changes in process or operating conditions that could affect control system performance	Y	
63.1572	Monitoring installation, operation, and maintenance requirements	Y	
63.1572(c)	Continuous parameter monitoring system (CPMS) requirements	Y	



## IV. Source-Specific Applicable Requirements

**Table IV – B.5**  
**Source-specific Applicable Requirements**  
**S1004-NO. 2 CATALYTIC REFORMER**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
63.1572(c)(1)	Follow manufacturer’s specifications to install, operate, and maintain continuous parameter monitoring systems	Y	
63.1572(c)(2)	CPMS must complete a minimum of one cycle for each 15-minute period; four cycles of operation for a valid hour of data	Y	
63.1572(c)(3)	Valid hourly data required at least 75% of process operating hours	Y	
63.1572(c)(4)	CPMS must determine and record hourly and daily average of all recorded readings	Y	
63.1572(c)(5)	CPMS must record results of inspection, calibration, and validation check	Y	
63.1572(d)	Data monitoring and collection requirements	Y	
63.1572(d)(1)	Conduct monitoring at all times source is operating except for monitoring malfunctions, repairs, and QA/QC activities	Y	
63.1572(d)(2)	Do not use data recorded during monitoring malfunctions, repairs, and QA/QC activities	Y	
63.1573	Monitoring Alternatives	Y	
63.1573(c)	Automated data compression system (optional)	Y	
63.1573(d)	Monitoring for alternative parameters (optional)	Y	
63.1573(e)	Alternative Monitoring Requests (optional)	Y	
63.1574	Notification Requirements	Y	
63.1574(a)	Notifications Required by Subpart A	Y	
63.1574(a)(2)	Submit notification of intent to conduct performance test 30 days before scheduled (instead of 60 days)	Y	
63.1574(a)(3)	Notification of Compliance Status	Y	
63.1574(a)(3)(ii)	Submit Notification of Compliance Status for initial compliance demonstration that includes a performance test, no later than 150 days after source compliance date	Y	
63.1574(d)	Information to be Submitted in Notice of Compliance Status (Table 42): identification of affected sources and emission points (Item 1); initial compliance demonstration (Item 2); continuous compliance (Item 3)	Y	
63.1574(f)	Requirement to prepare Operation, Maintenance, and Monitoring Plan	Y	
63.1574(f)(1)	Submit plan to permitting authority for review and approval along with NOCS. Include duty to prepare and implement plan into Part 70 or 71 permit.	Y	
63.1574(f)(2)	Minimum contents of Operation, Maintenance, and Monitoring Plan	Y	
63.1575	Reports	Y	

## IV. Source-Specific Applicable Requirements

**Table IV – B.5**  
**Source-specific Applicable Requirements**  
**S1004-NO. 2 CATALYTIC REFORMER**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.1575(a)	Required reports: Statement that there were no deviations or report including information in 1575(d) or (e) (Table 43, Item 1)	Y	
63.1575(b)	Specified semiannual report submittal dates	Y	
63.1575(c)	Information required in compliance report	Y	
63.1575(d)	Information required for deviations from emission limitations and work practice standards where CEMS or COMS <b>is not</b> used to comply with emission limitation or work practice standard	Y	
63.1575(f)	Additional information for compliance reports	Y	
63.1575(g)	Submittal of reports required by other regulations in place of or as part of compliance report if they contain the required information	Y	
63.1575(h)	Reporting requirements for startups, shutdowns, and malfunctions	Y	
63.1576	Recordkeeping	Y	
63.1576(a)	Required Records – General	Y	
63.1576(c)	Maintain records of visible emissions observations per 63.6(h)	Y	
63.1576(d)	Records required by Tables 20, 21, 27, and 28 of Subpart UUU for catalytic reforming units	Y	
63.1576(e)	Maintain copy of Operation, Maintenance, and Monitoring Plan and records to show continuous compliance with plan	Y	
63.1576(f)	Records of changes that affect emission control system performance	Y	
63.1576(g)	Records in a form suitable and readily available for review	Y	
63.1576(h)	Maintain records for 5 years	Y	
63.1576(i)	Records onsite for two years; may be maintained offsite for remaining 3 years	Y	
63.1577	Parts of Subpart A General Provisions which apply to this Subpart	Y	
<b>BAAQMD Condition 8077</b>			
Part B1	Definitions	Y	
Part B2	Emissions (basis: cumulative increase, bubble, BACT)	Y	
Part B3A	Emission Reductions (basis: cumulative increase, bubble)	Y	
Part B3B	Emission Reductions (basis: cumulative increase, bubble)	Y	
Part B3C	Emission Reductions (basis: cumulative increase, bubble)	Y	
Part B3D	Emission Reductions (basis: cumulative increase, bubble)	Y	
Part B3E	Emission Reductions (basis: cumulative increase, bubble, offsets)	Y	
Part B3F	Emission Reductions (basis: cumulative increase, bubble, offsets)	Y	
Part B4A	Monitoring and Source Testing (toxics, NSPS)	Y	

#### IV. Source-Specific Applicable Requirements

**Table IV – B.5**  
**Source-specific Applicable Requirements**  
**S1004-NO. 2 CATALYTIC REFORMER**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
Part B4D	Monitoring and Source Testing (basis: cumulative increase, offsets)	Y	
Part B5A	Reporting and Record Keeping (basis: cumulative increase, offsets)	Y	
Part B5B	Reporting and Record Keeping (basis: cumulative increase, offsets)	Y	
Part B5C	Reporting and Record Keeping (basis: cumulative increase, offsets)	Y	
Part B6A	Process Unit Design (basis: cumulative increase)	Y	
Part B6B	Process Unit Design	Y	
Part B8	Hydrocarbon Controls	Y	
Part B9	Sulfur Recovery Facilities	Y	
Part B10	Access (basis: cumulative increase, offsets, BACT)	Y	
Part B11	Enforcement (basis: cumulative increase, offsets, BACT)	Y	
Part B12	Miscellaneous (basis: cumulative increase, offsets)	Y	
Part B13	Severability (basis: cumulative increase, offsets, BACT)	Y	
Part B14	Environmental Management Plan (basis: cumulative increase, offsets, BACT)	Y	

**Table IV – B.6**  
**Source-specific Applicable Requirements**  
**S1005-NO. 1 HYDROGEN PLANT**

<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 2</b>	<b>Organic Compounds, Miscellaneous Operations (07/20/2005)</b> <b>Applies to S1005 No. 1 Hydrogen Plant CO2 Vents #1 and #2</b>		
8-2-101	Description, Applicability	Y	
8-2-301	Miscellaneous Operations: emissions shall not exceed 15 lb/day and 300 ppm total carbon on a dry basis	Y	
8-2-601	Determination of Compliance	Y	
<b>BAAQMD Condition 22070</b>			
Part 1	Annual source test on S-1005 No. 1 Hydrogen Plant CO2 Vent #1 and CO2 Vent #2 to demonstrate compliance with Regulation 8-2-301. (Basis: Regulation 2-6-409.2)	Y	

**IV. Source-Specific Applicable Requirements**

**Table IV – B.6  
 Source-specific Applicable Requirements  
 S1005-NO. 1 HYDROGEN PLANT**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<b>BAAQMD Condition 24321</b>			
<b>Part 1</b>	Throughput Limit (basis: Cumulative Increase)	Y	
<b>Part 2</b>	Recordkeeping Requirements (basis: Recordkeeping)	Y	

**Table IV – B.7  
 Source-specific Applicable Requirements  
 S1038 BENZENE SATURATION UNIT**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<b>BAAQMD Condition 23258</b>			
Part 1	Throughput limit (basis: Cumulative Increase)	Y	
Part 5	Recordkeeping Requirements (basis: Cumulative Increase)	Y	

**Table IV – B.8  
 Source-specific Applicable Requirements  
 S1007-HYDROCRACKER UNIT 2<sup>ND</sup> STAGE,  
 S1008-HYDROCRACKER UNIT 1<sup>ST</sup> STAGE**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<b>BAAQMD Condition 8077</b>			
Part C1	Throughput Limit (basis: cumulative increase)	Y	
Part C2	Recordkeeping (basis: cumulative increase)	Y	

#### IV. Source-Specific Applicable Requirements

**Table IV – B.9**  
**Source-specific Applicable Requirements**  
**S1009-ALKYLATION UNIT**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<b>BAAQMD Condition 22693</b>			
Part 9	After startup of V-104, the 10" tie in line shall be blinded. (basis: Regulation 8-28-304.2)	Y	

**Table IV – B.10**  
**Source-specific Applicable Requirements**  
**S1020-No. 3 UOP REFORMER**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<b>40 CFR 63 Subpart UUU</b>	<b>NESHAPS for Source Categories - Petroleum Refineries: Catalytic Cracking Units, Catalytic Reforming Units, and Sulfur Recovery Units (04/20/2006)</b>		
63.1560	Applicability and Designation of Affected Facilities	Y	
63.1561(a)(1)	Applicable to petroleum refineries located at a major source of HAP emissions	Y	
63.1561(a)(2)	Applicable to a major source of HAPs with potential to emit 10 tpy any single HAP or 25 tpy of any combination of HAPs	Y	
63.1562	What parts of my plant are covered by this subpart?	Y	
63.1562(a)	Applies to new, reconstructed, or existing affected source at a petroleum refinery	Y	
63.1562(b)	Affected sources include:	Y	
63.1562(b)(2)	Affected source: Process vent or group of vents on catalytic reforming units associated with catalyst regeneration, including vents used during unit depressurization, purging, coke, and catalyst rejuvenation	Y	
63.1562(e)	Existing affected source	Y	
63.1562(f)	This subpart does not apply to:	Y	
63.1562(f)(5)	Regeneration vent used during unit depressuring and purging, when vent is routed to fuel gas system	Y	

#### IV. Source-Specific Applicable Requirements

**Table IV – B.10**  
**Source-specific Applicable Requirements**  
**S1020-NO. 3 UOP REFORMER**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
63.1566	Requirements for Organic HAP Emissions from Catalytic Reforming Units	Y	
63.1566(a)(1)	Meet Emission Limitation in Table 15 that applies	Y	
63.1566(a)(1)(ii)	Reduce uncontrolled emissions of total organic compounds (TOC) or nonmethane TOC from your process vent by 98 percent by weight using a control device or to a concentration of 20 ppmv (dry basis as hexane), corrected to 3 percent oxygen, whichever is less stringent. If you vent emissions to a boiler or process heater to comply with the percent reduction or concentration emission limitation, the vent stream must be introduced into the flame zone, or any other location that will achieve the percent reduction or concentration standard.	Y	
63.1566(a)(3)	Limits apply during initial catalyst depressuring and catalyst purging operations. Limits do not apply to the coke burn-off, catalyst rejuvenation, reduction or activation vents, or to the control systems used for these vents	Y	
63.1566(a)(4)	Limits do not apply when the reactor vent pressure is 5 pounds per square inch gauge (psig) or less	Y	
63.1566(a)(5)	Prepare an OMMP per 63.1574(f) and operate at all times according to the OMMP	Y	
63.1566(b)	Initial Compliance Demonstration	Y	
63.1566(b)(7)	Submit OMMP as part of Notice of Compliance Status	Y	
63.1566(b)(8)	Submit Notice of Compliance Status per 63.1574	Y	
63.1566(c)	Demonstrate Continuous Compliance	Y	
63.1566(c)(2)	Demonstrate Continuous Compliance with Work Practice Standard by complying with the Operations, Maintenance, and Monitoring Plan	Y	
63.1567	Requirements for Inorganic HAP Emissions from Catalytic Reforming Units	Y	
63.1567(a)	Emission Limitations and Work Practice Standards	Y	
63.1567(a)(1)	Emission limitation options during coke burn-off and catalyst rejuvenation:	Y	
63.1567(a)(1)(ii)	Emission Limitations during coke burn-off and catalyst rejuvenation for existing cyclic or continuous catalytic reforming unit – HCl concentration limit: Reduce uncontrolled HCl emissions to a concentration of 10 ppmvd corrected to 3% O <sub>2</sub> (Table 22, Item 2, Option 2)	Y	

#### IV. Source-Specific Applicable Requirements

**Table IV – B.10**  
**Source-specific Applicable Requirements**  
**S1020-NO. 3 UOP REFORMER**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
63.1567(a)(2)	Operating limits for wet scrubber: Daily average pH of scrubbing liquid and average liquid-to-gas ratio exiting wet scrubber during coke burn-off and catalyst rejuvenation must not fall below the limit established during performance test (Table 23 Item 1)	Y	
63.1567(a)(3)	Prepare Operation, Maintenance, and Monitoring Plan and operate in compliance with the plan	Y	
63.1567(b)	Initial Compliance Demonstration with emission limitations and work practice standards	Y	
63.1567(b)(1)	Demonstrate initial compliance for wet scrubber as control device: Install continuous parameter monitoring systems to measure and record pH of scrubbing liquid and liquid and gas flow rates to wet scrubber (Table 24, Item 1)	Y	
63.1567(b)(2)	Demonstrate initial compliance with performance test for concentration standard: measure HCl concentration at the outlet of the scrubber (Table 25, Item 1)	Y	
63.1567(b)(3)	Demonstrate initial compliance with performance test for concentration standard: Establish operating limits for wet scrubber using continuous parameter monitoring systems in accordance with Table 25 as listed: pH level: (Table 25, Item 2.a.i) Liquid-to-gas ratio: (Table 25, Item 2.b.i)	Y	
63.1567(b)(5)	Demonstrate initial compliance with emission limitation if average HCl emissions during performance test using Method 26 are $\leq$ 10 ppmvd corrected to 3% O <sub>2</sub> . (Table 26, Option 2)	Y	
63.1567(b)(6)	Demonstrate initial compliance with work practice standard by submitting Operation, Maintenance, and Monitoring Plan	Y	
63.1567(b)(7)	Submit Notice of Initial Compliance Status containing results of initial compliance demonstration	Y	
63.1567(c)	Continuous compliance demonstration with emission limitations and work practice standards	Y	
63.1567(c)(1)	Demonstrate continuous compliance with emission limitation: maintain HCl concentration $\leq$ 10 ppmvd corrected to 3% O <sub>2</sub> (Table 27, Item 2) and collect hourly and daily average pH monitoring data and hourly average gas flow rate and scrubbing liquid flow rate monitoring data and determine and record hourly average liquid-to-gas ratio, and maintain pH and liquid-to-gas ratio above the operating limits established during performance test (Table 28, Items 1.a and 1.b)	Y	

## IV. Source-Specific Applicable Requirements

**Table IV – B.10**  
**Source-specific Applicable Requirements**  
**S1020-NO. 3 UOP REFORMER**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
63.1567(c)(2)	Demonstrate continuous compliance with work practice standard by maintaining records to document conformance with the Operation, Maintenance, and Monitoring Plan	Y	
63.1570	General Compliance Requirements	Y	
63.1570(a)	Operate in compliance with non-opacity standards at all times except during periods of startup, shutdown, and malfunction, as specified in 63.6(f)(1)	Y	
63.1570(b)	Comply with visible emissions limit at all times specified in 63.6(h)(1)	Y	
63.1570(c)	Operate and maintain source including pollution control and monitoring equipment in accordance with 63.6(e)(1).	Y	
63.1570(d)	Develop startup, shutdown, and malfunction plan (SSMP) in accordance with 63.6(e)(3)	Y	
63.1570(f)	Report deviations from compliance with this subpart according to the requirements of 63.1575	Y	
63.1570(g)	Deviations that occur during startup, shutdown, or malfunction are not violations if operating in accordance with SSMP	Y	
63.1571	Performance Tests	Y	
63.1571(a)	Conduct Performance Test and submit results no later than 150 days after compliance date	Y	
63.1571(b)	Requirements for Performance Tests	Y	
63.1571(b)(1)	Conduct performance tests in accordance with the requirements of 63.7(e)(1)	Y	
63.1571(b)(2)	Except for opacity and visual emissions observations, conduct three separate test runs of at least an hour for each performance test	Y	
63.1571(b)(4)	Performance tests not conducted during periods of startup, shutdown, or malfunction	Y	
63.1571(b)(5)	Arithmetic average of emission rates	Y	
63.1571(d)	Adjustment for measured values	Y	
63.1571(d)(4)	Adjust process or control device measured values when establishing operating limit (optional)	Y	
63.1571(e)	Changes to Operating limits (optional)	Y	
63.1571(e)(1)	Procedures to change established operating limit for continuous parametric monitoring system (CPMS)	Y	
63.1571(e)(2)	Requirement to change established operating limit for CPMS if there are any changes in process or operating conditions that could affect control system performance	Y	



## IV. Source-Specific Applicable Requirements

**Table IV – B.10**  
**Source-specific Applicable Requirements**  
**S1020-NO. 3 UOP REFORMER**

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

#### IV. Source-Specific Applicable Requirements

**Table IV – B.10**  
**Source-specific Applicable Requirements**  
**S1020-NO. 3 UOP REFORMER**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
63.1575	Reports	Y	
63.1575(a)	Required reports: Statement that there were no deviations or report including information in 1575(d) or (e) (Table 43, Item 1)	Y	
63.1575(b)	Specified semiannual report submittal dates	Y	
63.1575(c)	Information required in compliance report	Y	
63.1575(d)	Information required for deviations from emission limitations and work practice standards where CEMS or COMS <b>is not</b> used to comply with emission limitation or work practice standard	Y	
63.1575(f)	Additional information for compliance reports	Y	
63.1575(g)	Submittal of reports required by other regulations in place of or as part of compliance report if they contain the required information	Y	
63.1575(h)	Reporting requirements for startups, shutdowns, and malfunctions	Y	
63.1576	Recordkeeping	Y	
63.1576(a)	Required Records – General	Y	
63.1576(c)	Maintain records of visible emissions observations per 63.6(h)	Y	
63.1576(d)	Records required by Tables 20, 21, 27, and 28 of Subpart UUU for catalytic reforming units	Y	
63.1576(e)	Maintain copy of Operation, Maintenance, and Monitoring Plan and records to show continuous compliance with plan	Y	
63.1576(f)	Records of changes that affect emission control system performance	Y	
63.1576(g)	Records in a form suitable and readily available for review	Y	
63.1576(h)	Maintain records for 5 years	Y	
63.1576(i)	Records onsite for two years; may be maintained offsite for remaining 3 years	Y	
63.1577	Parts of Subpart A General Provisions which apply to this Subpart	Y	
<b>BAAQMD Condition 24834</b>			
Part 2	Daily fugitive emissions limit for Application 22615 (basis: cumulative increase, offsets)	Y	
Part 3	Recordkeeping requirements (basis: cumulative increase, recordkeeping)	Y	
<b>BAAQMD Condition 25476</b>			
Part 1	Daily and annual throughput limits (basis: cumulative increase)	Y	
Part 2	Daily product limit (basis: cumulative increase)	Y	

#### IV. Source-Specific Applicable Requirements

**Table IV – B.10**  
**Source-specific Applicable Requirements**  
**S1020-NO. 3 UOP REFORMER**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 22	Fugitive emissions limit (basis: Cumulative Increase, Offsets)	Y	
Part 24	Recordkeeping Requirements (basis: recordkeeping)	Y	

**Table IV – B.11**  
**Source-specific Applicable Requirements**  
**DELAYED COKER (S1510) WITH 4 COKE DRUMS AND ASSOCIATED EQUIPMENT**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<b>BAAQMD Regulation 6 Rule 1</b>	<b>Particulate Matter; General Requirements (12/05/2007)</b>		
6-1-301	Ringelmann No. 1 limitation	N	
6-1-305	Visible Particles	N	
6-1-310	Particulate Weight Limitation	N	
6-1-311	General Operations (process weight rate limitation)	N	
6-1-401	Appearance of Emissions	N	
6-1-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions	N	
<b>SIP Regulation 6</b>	<b>Particulate Matter and Visible Emissions (09/04/1998)</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	
6-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions	Y	
<b>BAAQMD Regulation 8 Rule 9</b>	<b>Organic Compounds – Vacuum Producing Systems (07/20/1983)</b>		
8-9-301	Vacuum Producing Systems	Y	
<b>BAAQMD Regulation 8 Rule 10</b>	<b>Organic Compounds – Process Vessel Depressurization (01/21/2004)</b>		

**IV. Source-Specific Applicable Requirements**

**Table IV – B.11  
 Source-specific Applicable Requirements  
 DELAYED COKER (S1510) WITH 4 COKE DRUMS AND ASSOCIATED EQUIPMENT**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
8-10-114	Exemption for batch processes, including delayed coker vessels	N	
<b>BAAQMD Condition 23129</b>			
Part 2	Wash Coker Pit and dewatering pad area daily (basis cumulative increase)	Y	
Part 3	Throughput limit S-1510 (basis: cumulative increase)	Y	
Part 6	Process sample systems in light liquid service (basis: cumulative increase)	Y	
Part 7	Initial Fugitive Count (basis: cumulative increase, toxics)	Y	
Part 8	Recordkeeping S-1510 (basis: recordkeeping)	Y	

**Table IV – B.12  
 Source-specific Applicable Requirements  
 S1555- REFORMAT SPLITTER UNIT**

<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 Condition 25476</b>			
Part 2	Throughput limit (basis: Cumulative Increase)	Y	
Part 24	Recordkeeping Requirements (basis: Cumulative Increase)	Y	

## IV. Source-Specific Applicable Requirements

### SECTION C COMBUSTION SOURCES SECTION C.1 COMBUSTION - BOILERS

**Table IV – C.1.1**  
**Source-specific Applicable Requirements**  
**S901- NO. 7 BOILER - FCCU CO BOILER**  
**ABATES S802**

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 (07/19/2006)</b>		
1-520	Continuous Emission Monitoring	Y	
1-520.5	SO <sub>2</sub> and opacity monitoring for catalyst regenerators for fluid catalytic cracking units <sup>5, 6</sup>	Y	
1-520.8	Monitors pursuant to Regulations 10, 12 and 2-1-403 <sup>7</sup>	Y	
1-521	Monitoring May Be Required	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	
1-522.9	recordkeeping requirements	Y	
1-522.10	Continuous Emission Monitoring and Recordkeeping Procedures	Y	
1-523	Parametric Monitoring and Recordkeeping Procedures	N	
1-523.1	Report periods of parametric monitor inoperation	Y	
1-523.2	Limits on periods of parametric monitor inoperation	Y	
1-523.3	Report exceedances	N	
1-523.4	Recordkeeping	Y	
1-523.5	Maintenance and calibration; written policy	N	
1-602	Area and Continuous Monitoring Requirements	N	
<b>SIP Regulation 1</b>	<b>General Provisions and Definitions (06/28/1999)</b>		

<sup>5</sup> Emission limits for opacity apply to S802 but are monitored at S901.

<sup>6</sup> Emission limits for SO<sub>2</sub> apply to S802 but are monitored at S901.

<sup>7</sup> Monitors are required by Regulation 10 (NSPS J) for opacity and SO<sub>2</sub> emissions limits that apply to S802 but are monitored at S901.

## IV. Source-Specific Applicable Requirements

**Table IV – C.1.1**  
**Source-specific Applicable Requirements**  
**S901- NO. 7 BOILER - FCCU CO BOILER**  
**ABATES S802**

<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	Continuous Emission Monitoring and Recordkeeping Procedures	Y	
1-522.7	emission limit exceedance reporting requirements	Y	
1-523	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.3	Report exceedances	Y	
<b>BAAQMD Regulation 6 Rule 1</b>	<b>Particulate Matter; General Requirements(12/05/2007)</b>		
6-1-301	Ringelmann No. 1 Limitation	N	
6-1-302	Opacity Limitation	Y	
6-1-304	Tube Cleaning	N	
6-1-305	Visible Particles	N	
6-1-310	Particle Weight Limitation	N	
6-1-310.3	Heat transfer operations	N	
6-1-311	General Operations (process weight rate limitation) <sup>8</sup>	N	
6-1-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions	N	
<b>SIP Regulation 6</b>	<b>Particulate Matter and Visible Emissions (09/04/1998)</b>		
6-301	Ringelmann No. 1 Limitation	Y	
6-302	Opacity Limitation	Y	
6-304	Tube Cleaning	Y	
6-305	Visible Particles	Y	
6-310	Particle Weight Limitation	Y	
6-310.3	Heat transfer operations	Y	
6-311	General Operations (process weight rate limitation)	Y	
6-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions	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 (07/17/2002)</b>		
9-10-303.1	Federal Interim Facility-wide NOx emission limit for CO Boilers	Y	
9-10-304	NOx emission limit for CO Boilers	N	
9-10-304.1	NOx emission limit for CO Boilers	N	

<sup>8</sup> Emission limits for particulate matter apply to S802 but are monitored at S901.  
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**IV. Source-Specific Applicable Requirements**

**Table IV – C.1.1  
 Source-specific Applicable Requirements  
 S901- No. 7 BOILER - FCCU CO BOILER  
 ABATES S802**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
9-10-305	CO emission limit	N	
9-10-502	Monitoring for sources subject to 9-10-301, 303, 304, and 305	N	
9-10-502.1	CEMS for NOx, CO, and O2	N	
9-10-502.2	Fuel flowmeters	N	
9-10-504	Recordkeeping	N	
9-10-504.1	Recordkeeping for sources subject to 9-10-301, 304, or 305, or effective 7/17/2007, 9-10-303	N	
9-10-505	Reporting for sources subject to 9-10-301, 303, 304, 305, and/or 306	N	
9-10-601	Determination of Nitrogen Oxides	Y	
9-10-602	Determination of Carbon Monoxide and Stack-Gas Oxygen	N	
9-10-603	Compliance Determination	Y	
9-10-604	Determination of Higher Heating Value	Y	
<b>SIP Regulation 9 Rule 10</b>	<b>Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon Monoxide from Boilers, Steam Generators, and Process Heaters in Petroleum Refineries (04/02/2008)</b>		
9-10-502	Monitoring for sources subject to 9-10-303	Y	
9-10-504.1	Recordkeeping for sources subject to 9-10-303	Y	
9-10-505	Reporting for sources subject to 9-10-303 and/or 306	Y	
<b>BAAQMD Manual of Procedures, Volume V</b>	<b>Continuous Emission Monitoring Policy and Procedures (01/20/1982)</b>	N	
<b>BAAQMD Condition 7397</b>		Y	
Part 1	Limit on Ammonia Injection at A-30 (basis: toxics)	Y	
Part 2	Requirement for Ammonia Flow Meter and Recorder Record Keeping (basis: toxics, cumulative increase, offsets)	Y	
Part 3	Gaseous Fuel Requirement (basis: Cumulative increase)	Y	
<b>BAAQMD Condition 8077</b>			
Part B1	Definitions (basis: definitions)	Y	
Part B2	Emissions (basis: cumulative increase, BACT, offsets)	Y	
Part B3	Emission reductions (basis: cumulative increase, offsets, bubble	Y	

## IV. Source-Specific Applicable Requirements

**Table IV – C.1.1**  
**Source-specific Applicable Requirements**  
**S901- NO. 7 BOILER - FCCU CO BOILER**  
**ABATES S802**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
Part B4	Monitoring	Y	
Part B4D	Monitoring per Table D of Appendix to this permit condition (cumulative increase, offsets)	Y	
Part B5	Reporting and Record Keeping (cumulative increase, offsets)	Y	
Part B10	Access (cumulative increase, offsets)	Y	
Part B11	Enforcement (basis: cumulative increase, offsets)	Y	
Part B12	Miscellaneous (basis: cumulative increase, offsets)	Y	
Part B12C	Maintain equipment in good working order (basis: cumulative increase, offsets)	Y	
Part B12D	Nothing in this condition shall be construed to allow violation of any other law or regulation (basis: cumulative increase, offsets)	Y	
Part B12E	Emission reductions required by this condition shall not be eligible for banking or credited as emission reductions against cumulative increases (basis: cumulative increase, offsets)	Y	
Part B12F	Annual limits in B2 shall be adjusted consistent with BAAQMD rule changes (basis: cumulative increase, offsets)	Y	
Part B12G	Baseline emissions (basis: cumulative increase, offsets)	Y	
Part B12J	Instrument downtime (basis: cumulative increase, offsets)	Y	
Part B12K	Breakdowns, malfunctions, and other causes for emission exceedances (basis: cumulative increase, offsets)	Y	
Part B12L	Adjustment of CO limits based on modeling (basis: cumulative increase, offsets)	Y	
Part B13	Severability (basis: cumulative increase, offsets)	Y	
Part B14	Environmental Management Plan (basis: cumulative increase, offsets)	Y	
<b>BAAQMD Condition 11433</b>			
Part 1	Requirement for abatement by A-30 Electrostatic Precipitator (basis: cumulative increase, BACT, offsets)	Y	
Part 2	Annual emission limits by pollutant (basis: cumulative increase, BACT, offsets)	Y	
Part 2A	NOx and SO2 CEM requirement (basis: cumulative increase, BACT)	Y	
Part 2B	Continuous Opacity Monitor (basis: Reg. 6-1-302)	Y	
Part 4	Requirement to monitor and calculate emissions (basis: cumulative increase, BACT, offsets)	Y	



## IV. Source-Specific Applicable Requirements

**Table IV – C.1.1**  
**Source-specific Applicable Requirements**  
**S901- NO. 7 BOILER - FCCU CO BOILER**  
**ABATES S802**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
Part 5	Procedure for development of new emission factors (basis: cumulative increase, offsets)	Y	
Part 6	Record keeping (basis: cumulative increase, offsets, BACT)	Y	
Part 8	Consent decree SO <sub>2</sub> Emission Limits (basis: Consent Decree §§ 82)	Y	
Part 9	Consent decree CO Emission Limits (basis: Consent Decree §§ 94)	Y	
Part 10	Consent decree Particulate Emission Limits (basis: Consent Decree §§ 95)	Y	
Part 11	Consent Decree NSPS Applicability and CEMS requirements: SO <sub>2</sub> , CO, opacity, particulate matter. NSPS limits not applicable during startup, shutdown or malfunction (basis: Consent Decree §§ 99, 102, 107A, 110)	Y	
Part 12	Consent Decree short-term NO <sub>x</sub> and SO <sub>2</sub> limits not applicable during hydrotreater outage, including startup, shutdown or malfunction (basis: Consent Decree §§ 85)	Y	
Part 14	Consent Decree SO <sub>2</sub> monitoring requirements (basis: Consent Decree §§ 90, 91)	Y	
Part 15	Consent Decree exemptions from NSPS notification requirements (basis: Consent Decree §§ 100, 108)	Y	
Part 16	Consent Decree CEMS accuracy test allowances (basis: Consent Decree §§ 62, 90, 101, 109)	Y	
<b>BAAQMD Condition 22150</b>			
Part 1	Continuous opacity monitoring of A-30 ESP (basis: Regulation 6-1-310, 2-6-503)	Y	
Part 2	Operate with opacity emissions no more than one 6-minute average in an hour that exceeds 30%. An exceedance of opacity limit deemed an exceedance of BAAQMD 6-1-310) (basis: Regulation 2-6-503)	Y	

## IV. Source-Specific Applicable Requirements

**Table IV – C.1.2**  
**Source-specific Applicable Requirements**  
**S904-No. 6 BOILER**  
**NSPS SUBPART J BY CONSENT DECREE CONDITION 23562**

<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 1</b>	<b>General Provisions and Definitions (07/19/2006)</b>		
1-520	Continuous Emission Monitoring	Y	
1-520.1	NOx, CO2, or O2 monitors for steam generators > 250 MMBtu/hr	Y	
1-520.8	Monitors pursuant to Regulations 10, 12 and 2-1-403	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	
1-522.9	recordkeeping requirements	Y	
1-522.10	Continuous Emission Monitoring and Recordkeeping Procedures	Y	
1-523	Parametric Monitoring and Recordkeeping Procedures	N	
1-523.1	Report periods of parametric monitor inoperation	Y	
1-523.2	Limits on periods of parametric monitor inoperation	Y	
1-523.3	Report exceedances	N	
1-523.4	Recordkeeping	Y	
1-523.5	Maintenance and calibration; written policy	N	
1-602	Area and Continuous Monitoring Requirements	N	
<b>SIP Regulation 1</b>	<b>General Provisions and Definitions (06/28/1999)</b>		
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	Y	
1-522.7	Excesses	Y	
1-523	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.3	Report exceedances	Y	
<b>BAAQMD Regulation 6 Rule 1</b>	<b>Particulate Matter; General Requirements (12/05/2007)</b>		
6-1-301	Ringelmann No. 1 Limitation	N	

## IV. Source-Specific Applicable Requirements

**Table IV – C.1.2**  
**Source-specific Applicable Requirements**  
**S904-No. 6 BOILER**  
**NSPS SUBPART J BY CONSENT DECREE CONDITION 23562**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
6-1-304	Tube Cleaning	N	
6-1-305	Visible Particles	N	
6-1-310	Particle Weight Limitation	N	
6-1-310.3	Heat transfer operations	N	
6-1-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions	N	
<b>SIP Regulation 6</b>	<b>Particulate Matter and Visible Emissions (09/04/1998)</b>		
6-301	Ringelmann No. 1 Limitation	Y	
6-304	Tube Cleaning	Y	
6-305	Visible Particles	Y	
6-310	Particle Weight Limitation	Y	
6-310.3	Heat transfer operations	Y	
6-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions	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 (07/17/2002)</b>		
9-10-301	Emission Limit for Facility, NOx	N	
9-10-303	Interim Emission Limit for Facility (Federal Requirements)	Y	
9-10-305	CO emission limit	N	
9-10-502	Monitoring for sources subject to 9-10-301, 303, 304, and 305	N	
9-10-502.1	CEMS for NOx, CO, and O2	N	
9-10-502.2	Fuel flowmeters	N	
9-10-504	Recordkeeping	N	
9-10-504.1	Recordkeeping for sources subject to 9-10-301, 304, or 305, or effective 7/17/2007, 9-10-303	N	
9-10-505	Reporting for sources subject to 9-10-301, 303, 304, 305, and/or 306	N	
9-10-601	Determination of Nitrogen Oxides	Y	
9-10-602	Determination of Carbon Monoxide and Stack-Gas Oxygen	N	
9-10-603	Compliance Determination	Y	
9-10-604	Determination of Higher Heating Value	Y	
<b>SIP Regulation 9 Rule 10</b>	<b>Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon Monoxide from Boilers, Steam Generators, and Process Heaters in Petroleum Refineries (04/12/2008)</b>		

## IV. Source-Specific Applicable Requirements

**Table IV – C.1.2**  
**Source-specific Applicable Requirements**  
**S904-No. 6 BOILER**  
**NSPS SUBPART J BY CONSENT DECREE CONDITION 23562**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
9-10-502	Monitoring for sources subject to 9-10-303	Y	
9-10-504.1	Recordkeeping for sources subject to 9-10-303	Y	
9-10-505	Reporting requirements for sources subject to 9-10-303 and/or 306	Y	
<b>BAAQMD Regulation 10</b>	<b>Standards of Performance for New Stationary Sources incorporated by reference (02/16/2000)</b> Applicability specified in Condition 23562		
10-14	Subpart J – Standards of Performance for Petroleum Refineries	Y	
<b>BAAQMD Manual of Procedures, Volume V</b>	<b>Continuous Emission Monitoring Policy and Procedures (01/20/1982)</b>	N	
<b>40 CFR 60 Subpart J</b>	<b>NSPS - Standards of Performance for Petroleum Refineries (06/24/2008)</b> <b>Applicability specified in Condition 23562</b>		
60.104	Standards for sulfur oxides	Y	
60.104(a)(1)	Limit on hydrogen sulfide content in fuel gas burned in fuel gas combustion devices	Y	
60.105	Monitoring of Emissions and Operations	Y	
60.105(a)	Continuous monitoring system requirements	Y	
60.105(a)(4)	Monitoring requirements 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(a)(4)(i)	Span value for H <sub>2</sub> S monitoring is 425 mg/dscm H <sub>2</sub> S	Y	
60.105(a)(4)(ii)	Fuel gas combustion devices having a common source of fuel gas may be monitored at only one location	Y	
60.105(a)(4)(iii)	Use Performance Specification 7 for performance evaluations and Method 11, 15, 15A, or 16 for relative accuracy evaluations	Y	
60.105(e)	Periods of excess emissions for 60.7(c)	Y	
60.105(e)(3)	Excess emissions of sulfur dioxide from fuel gas combustion	Y	
60.105(e)(3)(ii)	excess H <sub>2</sub> S in fuel gas as measured under 60.105(a)(4)	Y	
60.106	Test Methods and Procedures	Y	
60.106(a)	Performance test requirements	Y	
60.106(e)(1)	Compliance determination for H <sub>2</sub> S standards for fuel gas combustion devices	Y	
60.107	Reporting and recordkeeping requirements	Y	

## IV. Source-Specific Applicable Requirements

**Table IV – C.1.2**  
**Source-specific Applicable Requirements**  
**S904-No. 6 BOILER**  
**NSPS SUBPART J BY CONSENT DECREE CONDITION 23562**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
60.107(f)	Semiannual reporting	Y	
60.107(g)	Certification of semiannual report	Y	
<b>40 CFR 60 Appendix B</b>	<b>NSPS – Title 40 Part 60 Appendix B – Performance Specifications (10/17/2000)</b>		
Performance Specification 7	Specifications and Test Procedures for Hydrogen Sulfide Continuous Emission Monitoring Systems in Stationary Sources	Y	
<b>40 CFR 60 Appendix F</b>	<b>NSPS – Title 40 Part 60 Appendix F – Quality Assurance Procedures (06/13/2007)</b> Applicability specified in Condition 23562		
Procedure 1	QA Requirements for Gas Continuous Emission Monitoring Systems	Y	
<b>BAAQMD Condition 8077</b>			
Part B1	Definitions (basis: definitions)	Y	
Part B2	Emissions (basis: cumulative increase, BACT, offsets)	Y	
Part B3	Emission reductions (basis: cumulative increase, offsets, bubble)	Y	
Part B4	Monitoring	Y	
Part B4D	Monitoring per Table D of Appendix to this permit condition (cumulative increase, offsets)	Y	
Part B5	Reporting and Record Keeping (cumulative increase, offsets)	Y	
Part B10	Access (cumulative increase, offsets)	Y	
Part B11	Enforcement (basis: cumulative increase, offsets)	Y	
Part B12	Miscellaneous (basis: cumulative increase, offsets)	Y	
Part B12C	Maintain equipment in good working order (basis: cumulative increase, offsets)	Y	
Part B12D	Nothing in this condition shall be construed to allow violation of any other law or regulation (basis: cumulative increase, offsets)	Y	
Part B12E	Emission reductions required by this condition shall not be eligible for banking or credited as emission reductions against cumulative increases (basis: cumulative increase, offsets)	Y	
Part B12F	Annual limits in B2 shall be adjusted consistent with BAAQMD rule changes (basis: cumulative increase, offsets)	Y	
Part B12G	Baseline emissions (basis: cumulative increase, offsets)	Y	
Part B12J	Instrument downtime (basis: cumulative increase, offsets)	Y	

**IV. Source-Specific Applicable Requirements**

**Table IV – C.1.2  
 Source-specific Applicable Requirements  
 S904-No. 6 BOILER  
 NSPS SUBPART J BY CONSENT DECREE CONDITION 23562**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
Part B12K	Breakdowns, malfunctions, and other causes for emission exceedances (basis: cumulative increase, offsets)	Y	
Part B12L	Adjustment of CO limits based on modeling (basis: cumulative increase, offsets)	Y	
Part B13	Severability (basis: cumulative increase, offsets)	Y	
Part B14	Environmental Management Plan (basis: cumulative increase, offsets)	Y	
<b>BAAQMD Condition # 16685</b>	Firing rate limitations	Y	
Part 1	Daily Firing rate limitations (basis: cumulative increase, Regulation 2-1-403)	Y	
<b>BAAQMD Condition 17322</b>			
Part 1	Maximum Firing Rate (basis: cumulative increase, BACT, offsets)	Y	
Part 1a	Only gaseous fuels could be used (basis: cumulative increase)	Y	
Part 2	Requirement for abatement by A-904 SCR System (basis: Reg. 9-10)	Y	
Part 4	In stack CEM requirement (basis: Reg. 9-10)	Y	
Part 5	Ammonia emission limit (basis: toxics)	N	
Part 6	Semiannual ammonia source test	Y	
Part 6 A	Source test protocol	Y	
Part 6 B	Source test conditions	Y	
Part 6 C	Submittal of source test results	Y	
<b>BAAQMD Condition 18372</b>			
Part 27	Sources subject to refinery-wide NOx emission rate and CO concentration limit, (Regulation 9-10-301, 303, & 305)	Y	
Part 28	Sources subject to refinery-wide NOx emission rate and CO concentration limit (Regulation 9-10-301 & 305)	Y	
Part 36	Recordkeeping (Recordkeeping, Regulation 9-10-504)	Y	
<b>BAAQMD Condition 22590</b>			

#### IV. Source-Specific Applicable Requirements

**Table IV – C.1.2**  
**Source-specific Applicable Requirements**  
**S904-No. 6 BOILER**  
**NSPS SUBPART J BY CONSENT DECREE CONDITION 23562**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
Part 1	Natural gas line to pilots to have dedicated fuel flow meters (basis: cumulative increase)	Y	
Part 2	Maximum firing rate of 775 MMBtu/hr (HHV) (cumulative increase)	Y	
<b>BAAQMD Condition 23562</b>			
Part 1	NSPS J applicability and SSM requirements for fuel gas combustion devices. (Basis: NSPS Subparts A and J, EPA Consent Decree paragraphs 12, 117, 118, and 122.)	Y	
Part 2	Exemption from NSPS A and J notification requirements. (Basis: EPA Consent Decree paragraph 120.)	Y	
Part 3	Use CEMS or approved AMP to demonstrate compliance with NSPS Subpart J emission limit. (Basis: EPA Consent Decree paragraph 121.)	Y	
Part 4	CEMS accuracy test requirements. (Basis: EPA Consent Decree paragraph 121.)	Y	

**Table IV – C.1.3**  
**Source-specific Applicable Requirements**  
**S1550, S1551 AND S1553 BACKUP BOILERS**

<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 1</b>	<b>General Provisions and Definitions (07/19/2006)</b>		
1-523	Parametric Monitoring and Recordkeeping Procedures	N	
1-523.1	Report periods of parametric monitor inoperation	Y	
1-523.2	Limits on periods of parametric monitor inoperation	Y	
1-523.3	Report exceedances	N	
1-523.4	Recordkeeping	Y	
1-523.5	Maintenance and calibration; written policy	N	
<b>SIP Regulation 1</b>	<b>General Provisions and Definitions (06/28/1999)</b>		
1-523	Parametric Monitoring and Recordkeeping Procedures	Y	

## IV. Source-Specific Applicable Requirements

**Table IV – C.1.3**  
**Source-specific Applicable Requirements**  
**S1550, S1551 AND S1553 BACKUP BOILERS**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
1-523.3	Report exceedances	Y	
<b>BAAQMD Regulation 6 Rule 1</b>	<b>Particulate Matter; General Requirements (12/05/2007)</b>		
6-1-301	Ringelmann No. 1 Limitation	N	
6-1-305	Visible Particles	N	
6-1-310	Particle Weight Limitation	N	
6-1-310.3	Heat transfer operations	N	
6-1-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions	N	
<b>SIP Regulation 6</b>	<b>Particulate Matter and Visible Emissions (09/04/1998)</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	
6-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions	Y	
<b>40 CFR 60 Subpart Dc</b>	<b>Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units (1/28/2009)</b>		
60.40c	Applicability and delegation of authority	Y	
60.40c(a)	Applicability: Steam generating units constructed after June 9, 1989 with heat input capacity $\geq$ 10 MMBTU/hr and $<$ 100 MMBTU/hr	Y	
60.41c	Definitions	Y	
60.48c	Reporting and recordkeeping requirements	Y	
60.48c(a)	Reporting and recordkeeping: Notifications of construction dates and actual startups per 40 CFR 60.7. Notifications shall include:	Y	
60.48c(a)(1)	Design heat input capacity and fuels to be combusted	Y	
60.48c(a)(3)	Annual capacity factor anticipated for each fuel	Y	
60.48c(g)(2)	Alternative recordkeeping requirements – monthly natural gas use	Y	
60/48c(i)	Record retention requirements	Y	
<b>BAAQMD Condition 24491</b>			



## IV. Source-Specific Applicable Requirements

**Table IV – C.1.3  
 Source-specific Applicable Requirements  
 S1550, S1551 AND S1553 BACKUP BOILERS**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
Part 1	Fire only on natural gas. Firing rate limit. (Basis: Cumulative Increase, Offsets, Toxics, NSPS, BACT)	Y	
Part 2	Six consecutive month on-site limit per 12 consecutive months (Basis: BACT)	Y	
Part 4	SCR abatement requirements and exceptions for startups and shutdowns. (Basis: Cumulative Increase, Offsets, Toxics)	Y	
Part 5	Continuous fuel flow meter requirements. (Basis: Cumulative Increase, Offsets, Toxics)	Y	
Part 6	Fuel consumption limit per 12 consecutive months. (Basis: Cumulative Increase, Offsets, Toxics)	Y	
Part 7	NOx emission limit (except during allowable startup and shutdown periods). (Basis: Cumulative Increase, Offsets, BACT)	Y	
Part 8	NOx emission limit during allowable startup and shutdown periods. (Basis: Cumulative Increase, Offsets)	Y	
Part 9	CO emission limit. (Basis: Cumulative Increase, Offsets, BACT)	Y	
Part 10	Source test and source test report requirements. (Basis: Cumulative Increase, Offsets, BACT)	Y	
Part 11	Recordkeeping requirements. (Basis: Cumulative Increase, Offsets, Toxics, BACT)	Y	

## IV. Source-Specific Applicable Requirements

### SECTION C.2 COMBUSTION - FLARES

**Table IV – C.2.1**  
**Source-specific Applicable Requirements**  
**FLARES SUBJECT TO NSPS BY DATE OF CONSTRUCTION**  
**S854-EAST AIR FLARE, S992-EMERGENCY FLARE, S1012 WEST AIR FLARE,**  
**S1517 -COKER FLARE, S1524 50 UNIT FLARE**

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 (07/19/2006)</b>		
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	N	
1-522.10	Monitors required by Sections 1-521 or 2-1-403 shall meet the requirements specified by the APCO	Y	
1-523	Parametric Monitoring and Recordkeeping Procedures	N	
1-523.1	Report periods of parametric monitor inoperation	Y	
1-523.2	Limits on periods of parametric monitor inoperation	Y	
1-523.3	Report exceedances	N	
1-523.4	Recordkeeping	Y	
1-523.5	Maintenance and calibration; written policy	Y	
<b>SIP Regulation 1</b>	<b>General Provisions and Definitions (06/28/1999)</b>		
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	Y	
1-523	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.3	Report exceedances	Y	
<b>BAAQMD Regulation 6 Rule 1</b>	<b>Particulate Matter; General Requirements (12/05/2007)</b>		
6-1-301	Ringelmann Number 1 Limitation	N	
6-1-305	Visible Particles	N	
6-1-310	Particulate Weight Limitation	N	
6.1-401	Appearance of Emissions	N	
6-1-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions	N	
<b>SIP Regulation 6</b>	<b>Particulate Matter and Visible Emissions (09/04/1998)</b>		
6-301	Ringelmann Number 1 Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particulate Weight Limitation	Y	
6-401	Appearance of Emissions	Y	

## IV. Source-Specific Applicable Requirements

**Table IV – C.2.1**  
**Source-specific Applicable Requirements**  
**FLARES SUBJECT TO NSPS BY DATE OF CONSTRUCTION**  
**S854-EAST AIR FLARE, S992-EMERGENCY FLARE, S1012 WEST AIR FLARE,**  
**S1517 -COKER FLARE, S1524 50 UNIT FLARE**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
6-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions	Y	
<b>BAAQMD Regulation 10</b>	<b>Standards of Performance for New Stationary Sources incorporated by reference (02/16/2000)</b>		
10-14	Subpart J – Standards of Performance for Petroleum Refineries	Y	
<b>BAAQMD Regulation 12 Rule 11</b>	<b>Flare Monitoring at Petroleum Refineries (06/04/2003)</b>		
12-11-401	Flare Data Reporting Requirements	N	
12-11-402	Flow Verification Report	N	
12-11-501	Vent Gas Flow Monitoring	N	
12-11-502	Vent Gas Composition Monitoring	N	
12-11-502.3	Vent Gas Composition Monitoring	N	
12-11-503	Pilot Monitoring	N	
12-11-504	Pilot and Purge Gas Monitoring	N	
12-11-505	Recordkeeping Requirements	N	
12-11-506	General Monitoring Requirements	N	
12-11-506.1	Periods of Inoperation of Vent Gas Monitoring	N	
12-11-507	Video Monitoring	N	
12-11-601	Testing, Sampling, and Analytical Methods	N	
12-11-602	Flow Verification Test Methods	N	
<b>BAAQMD Regulation 12 Rule 12</b>	<b>Flares at Petroleum Refineries (04/05/2006)</b>		
12-12-301	Flare Minimization	N	
12-12-404	Update of Flare Minimization Plans	N	
12-12-405	Notification of Flaring	N	
12-12-406	Determination and Reporting of Cause	N	
12-12-408	Designation of Confidential Information	N	
12-12-501	Water Seal Integrity Monitoring	N	
<b>40 CFR 60 Subpart J</b>	<b>NSPS - Standards of Performance for Petroleum Refineries (06/24/2008)</b>		
60.100(a)	Applicability: FCCU Catalyst Regenerators, Fuel Gas Combustion Devices, and Claus Sulfur Recovery Plants (20 TPD)	Y	

## IV. Source-Specific Applicable Requirements

**Table IV – C.2.1**  
**Source-specific Applicable Requirements**  
**FLARES SUBJECT TO NSPS BY DATE OF CONSTRUCTION**  
**S854-EAST AIR FLARE, S992-EMERGENCY FLARE, S1012 WEST AIR FLARE,**  
**S1517 -COKER FLARE, S1524 50 UNIT FLARE**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
60.100(b)	Applicability: Constructed/reconstructed/modified after June 11, 1973 and before May 14, 2007	Y	
60.104	Standards for Sulfur Oxides	Y	
60.104(a)(1)	Limit on hydrogen sulfide content in fuel gas burned in fuel gas combustion devices: Exemption from fuel gas H2S concentration limit for the combustion in a flare of process upset gases or fuel gas that is released to the flare as a result of relief valve leakage or other emergency malfunctions.	Y	
60.105	Monitoring of emissions and operations	Y	
60.105 (a)(4)(iv)	Exemption from §60.105(a)(3) or (a)(4) for fuel gas streams exempt under §60.104(a)(1) and under this paragraph. Must comply with §60.105(a)(3) or (a)(4) within 15 days of loss of exemption.	Y	
60.105 (a)(4)(iv)(A)	Exemption for pilot gas for heaters and flares – presumed to be low sulfur content	Y	
60.107	Reporting and recordkeeping requirements	Y	
60.107(e)	Records of the specific exemption chosen under §60.105(a)(4)(iv)(A) for flare pilot gas.	Y	
<b>BAAQMD Condition 19528</b>			
Part 11B	Definition of "Flaring Event" and inspection frequency requirements (basis: Regulation 2-6-409.2)	Y	
Part 11C	Inspection procedure for "Flaring Event" (basis: Regulation 6-1-301; 2-1-403)	Y	
Part 11D	Requirements for "Visual Inspection" of a flaring event (basis: Regulation 2-6-403)	Y	
Part 11E	Recordkeeping of "Flaring Events" and visible emissions check (basis: Regulation 2-6-501; 2-6-409.2)	Y	
<b>BAAQMD Condition 23129</b>	<b>Applies to S1517 only</b>		
Part 51	Requirement to inject steam in flare (basis: BACT)	Y	
Part 52	POC abatement efficiency (basis: BACT)	Y	
Part 53	Flare pilots natural gas requirement and annual throughput (basis: cumulative increase)	Y	
Part 54	Comply with NSPS Subpart J (basis: 40 CFR 60 Subpart J)	Y	

## IV. Source-Specific Applicable Requirements

**Table IV – C.2.1**  
**Source-specific Applicable Requirements**  
**FLARES SUBJECT TO NSPS BY DATE OF CONSTRUCTION**  
**S854-EAST AIR FLARE, S992-EMERGENCY FLARE, S1012 WEST AIR FLARE,**  
**S1517 -COKER FLARE, S1524 50 UNIT FLARE**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
Part 55	H2S CEM (basis: Regulation 12, Rule 11)	Y	
Part 56	Flare purge natural gas requirement and annual throughput (basis: cumulative increase)	Y	
Part 57	Recordkeeping S-1517 (basis: Regulation 2-6-501)	Y	
<b>BAAQMD Condition 24323</b>	<b>Applies to S1524 only</b>		
Part 2	Operate S-1524 Flare only during upsets, malfunctions or emergencies. (basis: BACT, Cumulative Increase)	Y	
Part 3	Comply with NSPS Subpart J. (basis: NSPS)	Y	
Part 6	Requirement for steam assisted, staged combustion to minimize smoke. (basis: BACT)	Y	
Part 7	Flare hydrocarbon destruction efficiency >= 98% mass basis. (basis: BACT).	Y	
Part 8	Flare pilot natural gas throughput limit (basis: cumulative increase)	Y	
Part 9	Continuous H2S vent gas monitoring (basis: Regulation 12-11-501 and 12-11-506)	Y	
Part 10	Flare purge natural gas throughput limit (basis: cumulative increase)	Y	
Part 11	Recordkeeping requirements (basis: Regulation 2-6-501)	Y	
<b>BAAQMD Condition 24324</b>	<b>Applies to S854, S992, S1012 and S1517 only</b>		
<b>Part 1</b>	<b>Operate only when in compliance with NSPS (basis: Consent Decree §§ 231 and 238)</b>	Y	
Part 2	Comply with NSPS J by operating and maintaining flare gas recovery system. Exemption from H2S monitoring and recordkeeping in §§ 60.105(a)(4) and 60.7. [basis: Consent Decree §§ 233, 235(a)]	Y	
Part 3	Minimize emissions when performing maintenance on Flare Gas Recovery System (basis: Consent Decree § 263)	Y	
Part 4	Flare gas recovery system may be bypassed in event of an emergency, including unscheduled maintenance to ensure continued safe operation (basis: Consent Decree § 264)	Y	
Part 5	Exemption from 60.104(a)(1). [basis: Consent Decree §§ 241]	Y	

## IV. Source-Specific Applicable Requirements

**Table IV – C.2.2**  
**Source-specific Applicable Requirements**  
**S943- BUTANE TANK 691 SAFETY FLARE**

<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 6 Rule 1</b>	<b>Particulate Matter; General Requirements (12/05/2007)</b>		
6-1-301	Ringelmann Number 1 Limitation	N	
6-1-305	Visible Particles	N	
6-1-310	Particulate Weight Limitation	N	
6-1-401	Appearance of Emissions	N	
6-1-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions	N	
<b>SIP Regulation 6</b>	<b>Particulate Matter and Visible Emissions (09/04/1998)</b>		
6-301	Ringelmann Number 1 Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particulate Weight Limitation	Y	
6-401	Appearance of Emissions	Y	
6-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions	Y	
<b>BAAQMD Regulation 12 Rule 11</b>	<b>Flare Monitoring at Petroleum Refineries (06/04/2003)</b>		
12-11-110	Exemption, Organic Liquid Storage and Distribution	N	
<b>BAAQMD Regulation 12 Rule 12</b>	<b>Flares at Petroleum Refineries (04/05/2006)</b>		
12-12-110	Exemption, Organic Liquid Storage and Distribution	N	
<b>BAAQMD Condition 19528</b>			
Part 11B	Definition of "Flaring Event" and inspection frequency requirements (basis: Regulation 2-6-409.2)	Y	
Part 11C	Inspection procedure for "Flaring Event" (basis: Regulation 6-1-301; 2-1-403)	Y	
Part 11D	Requirements for "Visual Inspection" of a flaring event (basis: Regulation 2-6-403)	Y	

#### IV. Source-Specific Applicable Requirements

**Table IV – C.2.2**  
**Source-specific Applicable Requirements**  
**S943- BUTANE TANK 691 SAFETY FLARE**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 11E	Recordkeeping of "Flaring Events" and visible emissions check (basis: Regulation 2-6-501; 2-6-409.2)	Y	

NOTE – S943 OPERATION. S943 IS THE TANK 691 (REFRIGERATED BUTANE TANK S691) SAFETY FLARE. DURING ROUTINE OPERATION, THE BUTANE TANK IS ABATED BY A REFRIGERATION SYSTEM A21. A21 FUNCTIONS AS A FLARE GAS RECOVERY SYSTEM AND CONTROLS THE TEMPERATURE AND THUS THE PRESSURE IN THE TANK TO MAINTAIN THE BUTANE AS A LIQUID AND PREVENT RELEASE OF BUTANE VAPOR. BUTANE IS ROUTED TO AND FLARED IN S943 ONLY DURING NON-ROUTINE OPERATIONS WHEN THE TEMPERATURE AND PRESSURE IN THE TANK INCREASES AND BUTANE VAPOR IS RELEASED.

**Table IV – C.2.3**  
**Source-specific Applicable Requirements**  
**FLARES NOT SUBJECT TO NSPS**  
**S944-NORTH STEAM FLARE**  
**S945-SOUTH STEAM FLARE**

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 (07/19/2006)</b>		
1-523	Parametric Monitoring and Recordkeeping Procedures	N	
1-523.1	Report periods of parametric monitor inoperation	Y	
1-523.2	Limits on periods of parametric monitor inoperation	Y	
1-523.3	Report exceedances	N	
1-523.4	Recordkeeping	Y	
1-523.5	Maintenance and calibration; written policy	Y	
<b>SIP- Regulation 1</b>	<b>General Provisions and Definitions (06/28/1999)</b>		
1-523	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.3	Report exceedances	Y	
<b>BAAQMD Regulation 6 Rule 1</b>	<b>Particulate Matter; General Requirements (12/05/2007)</b>		
6-1-301	Ringelmann Number 1 Limitation	N	
6-1-305	Visible Particles	N	
6-1-310	Particulate Weight Limitation	N	
6-1-401	Appearance of Emissions	N	

**IV. Source-Specific Applicable Requirements**

**Table IV – C.2.3  
 Source-specific Applicable Requirements  
 FLARES NOT SUBJECT TO NSPS  
 S944-NORTH STEAM FLARE  
 S945-SOUTH STEAM FLARE**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
6-1-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions	N	
<b>SIP Regulation 6</b>	<b>Particulate Matter and Visible Emissions (09/04/1998)</b>		
6-301	Ringelmann Number 1 Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particulate Weight Limitation	Y	
6-401	Appearance of Emissions	Y	
6-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions	Y	
<b>BAAQMD Regulation 12 Rule 11</b>	<b>Flare Monitoring at Petroleum Refineries (06/04/2003)</b>		
12-11-401	Flare Data Reporting Requirements	N	
12-11-402	Flow Verification Report	N	
12-11-501	Vent Gas Flow Monitoring	N	
12-11-502	Vent Gas Composition Monitoring	N	
12-11-502.3	Vent Gas Composition Monitoring	N	
12-11-503	Pilot Monitoring	N	
12-11-504	Pilot and Purge Gas Monitoring	N	
12-11-505	Recordkeeping Requirements	N	
12-11-506	General Monitoring Requirements	N	
12-11-506.1	Periods of Inoperation of Vent Gas Monitoring	N	
12-11-507	Video Monitoring	N	
12-11-601	Testing, Sampling, and Analytical Methods	N	
12-11-602	Flow Verification Test Methods	N	
<b>BAAQMD Regulation 12 Rule 12</b>	<b>Flares at Petroleum Refineries (04/05/2006)</b>		
12-12-301	Flare Minimization	N	
12-12-404	Update of Flare Minimization Plans	N	
12-12-405	Notification of Flaring	N	
12-12-406	Determination and Reporting of Cause	N	
12-12-408	Designation of Confidential Information	N	



## IV. Source-Specific Applicable Requirements

**Table IV – C.2.3**  
**Source-specific Applicable Requirements**  
**FLARES NOT SUBJECT TO NSPS**  
**S944-NORTH STEAM FLARE**  
**S945-SOUTH STEAM FLARE**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
12-12-501	Water Seal Integrity Monitoring	N	
<b>BAAQMD Condition 19528</b>			
Part 11B	Definition of "Flaring Event" and inspection frequency requirements (basis: Regulation 2-6-409.2)	Y	
Part 11C	Inspection procedure for "Flaring Event" (basis: Regulation 6-1-301; 2-1-403)	Y	
Part 11D	Requirements for "Visual Inspection" of a flaring event (basis: Regulation 2-6-403)	Y	
Part 11E	Recordkeeping of "Flaring Events" and visible emissions check (basis: Regulation 2-6-501; 2-6-409.2)	Y	

**Table IV – C.2.4**  
**Source-specific Applicable Requirements**  
**ACID GAS FLARES SUBJECT TO NSPS**  
**S1013-AMMONIA PLANT FLARE**

<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 1</b>	<b>General Provisions and Definitions (07/19/2006)</b>		
1-523	Parametric Monitoring and Recordkeeping Procedures	N	
1-523.1	Report periods of parametric monitor inoperation	Y	
1-523.2	Limits on periods of parametric monitor inoperation	Y	
1-523.3	Report exceedances	N	
1-523.4	Recordkeeping	Y	
1-523.5	Maintenance and calibration; written policy	N	
<b>SIP Regulation 1</b>	<b>General Provisions and Definitions (06/28/1999)</b>		

## IV. Source-Specific Applicable Requirements

**Table IV – C.2.4**  
**Source-specific Applicable Requirements**  
**ACID GAS FLARES SUBJECT TO NSPS**  
**S1013-AMMONIA PLANT FLARE**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
1-523	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.3	Report exceedances	Y	
<b>BAAQMD Regulation 6 Rule 1</b>	<b>Particulate Matter; General Requirements (12/05/2007)</b>		
6-1-301	Ringelmann Number 1 Limitation	N	
6-1-305	Visible Particles	N	
6-1-310	Particulate Weight Limitation	N	
6.1-401	Appearance of Emissions	N	
6-1-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions	N	
<b>SIP Regulation 6</b>	<b>Particulate Matter and Visible Emissions (09/04/1998)</b>		
6-301	Ringelmann Number 1 Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particulate Weight Limitation	Y	
6-401	Appearance of Emissions	Y	
6-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions	Y	
<b>BAAQMD Regulation 10</b>	<b>Standards of Performance for New Stationary Sources incorporated by reference (02/16/2000)</b>		
10-14	Subpart J – Standards of Performance for Petroleum Refineries	Y	
<b>BAAQMD Regulation 12 Rule 11</b>	<b>Flare Monitoring at Petroleum Refineries (06/04/2003)</b>		
12-11-401	Flare Data Reporting Requirements	N	
12-11-402	Flow Verification Report	N	
12-11-501	Vent Gas Flow Monitoring	N	
12-11-502	Vent Gas Composition Monitoring	N	
12-11-502.3	Vent Gas Composition Monitoring	N	
12-11-503	Pilot Monitoring	N	
12-11-504	Pilot and Purge Gas Monitoring	N	
12-11-505	Recordkeeping Requirements	N	
12-11-506	General Monitoring Requirements	N	

## IV. Source-Specific Applicable Requirements

**Table IV – C.2.4**  
**Source-specific Applicable Requirements**  
**ACID GAS FLARES SUBJECT TO NSPS**  
**S1013-AMMONIA PLANT FLARE**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
12-11-506.1	Periods of Inoperation of Vent Gas Monitoring	N	
12-11-507	Video Monitoring	N	
12-11-601	Testing, Sampling, and Analytical Methods	N	
12-11-602	Flow Verification Test Methods	N	
<b>BAAQMD Regulation 12 Rule 12</b>	<b>Flares at Petroleum Refineries (04/05/2006)</b>		
12-12-301	Flare Minimization	N	
12-12-404	Update of Flare Minimization Plans	N	
12-12-405	Notification of Flaring	N	
12-12-406	Determination and Reporting of Cause	N	
12-12-408	Designation of Confidential Information	N	
12-12-501	Water Seal Integrity Monitoring	N	
<b>40 CFR 60 Subpart J</b>	<b>NSPS - Standards of Performance for Petroleum Refineries (06/24/2008)</b>		
60.100	Applicability	Y	
60.100(a)	Applicability: FCCU Catalyst Regenerators, Fuel Gas Combustion Devices, and Claus Sulfur Recovery Plants (20 TPD)	Y	
60.100(b)	Applicability: Constructed/reconstructed/modified after 6/11/1973 and before and before May 14, 2007	Y	
60.104	Standards for sulfur oxides	Y	
60.104(a)(1)	Limit on hydrogen sulfide content in fuel gas burned in fuel gas combustion devices: Exemption from fuel gas H <sub>2</sub> S concentration limit for the combustion in a flare of process upset gases or fuel gas that is released to the flare as a result of relief valve leakage or other emergency malfunctions.	Y	
60.105	Monitoring of emissions and operations	Y	
60.105 (a)(4)(iv)	Exemption from §60.105(a)(3) or (a)(4) for fuel gas streams exempt under §60.104(a)(1) and under this paragraph. Must comply with §60.105(a)(3) or (a)(4) within 15 days of loss of exemption.	Y	
60.105 (a)(4)(iv)(A)	Exemption for pilot gas for heaters and flares – presumed to be low sulfur content	Y	
60.107	Reporting and recordkeeping requirements	Y	
60.107(e)	Records of the specific exemption chosen under §60.105(a)(4)(iv)(A) for flare pilot gas.	Y	

## IV. Source-Specific Applicable Requirements

**Table IV – C.2.4**  
**Source-specific Applicable Requirements**  
**ACID GAS FLARES SUBJECT TO NSPS**  
**S1013-AMMONIA PLANT FLARE**

<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 Condition 19528</b>			
Part 11B	Definition of “Flaring Event” and inspection frequency requirements (basis: Regulation 2-6-409.2)	Y	
Part 11C	Inspection Procedure for “Flaring Event” (basis: Regulation 6-1-301; 2-1-403)	Y	
Part 11D	Requirements for “Visual Inspection” of a flaring event (basis: Regulation 2-6-403)	Y	
Part 11E	Recordkeeping of “Flaring Events” and visible emissions check (basis: Regulation 2-6-501; 2-6-409.2)	Y	

## IV. Source-Specific Applicable Requirements

### SECTION C.3 COMBUSTION - INTERNAL COMBUSTION ENGINES

**Table IV – C.3.1  
 Source-specific Applicable Requirements  
 Facility B2759  
 S56 ON-SHORE FIRE-WATER PUMP DIESEL ENGINE ,  
 S57 OFF-SHORE/WHARF FIRE-WATER PUMP DIESEL ENGINE**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<b>BAAQMD Regulation 6 Rule 1</b>	<b>Particulate Matter; General Requirements (12/05/2007)</b>		
6-1-303	Ringelmann Number 2 Limitation	N	
6-1-303.1	For Emergency Standby Engines	N	
6-1-305	Visible Particles	N	
6-1-310	Particulate Weight Limitation	N	
6-1-401	Appearance of Emissions	N	
6-1-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions	N	
<b>SIP Regulation 6</b>	<b>Particulate Matter and Visible Emissions (09/04/1998)</b>		
6-303	Ringelmann Number 2 Limitation	Y	
6-303.1	For Emergency Standby Engines	Y	
6-305	Visible Particles	Y	
6-310	Particulate Weight Limitation	Y	
6-401	Appearance of Emissions	Y	
6-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions	Y	
<b>BAAQMD Regulation 9 Rule 1</b>	<b>Inorganic Gaseous Pollutants - Sulfur Dioxide (03/15/1995)</b>		
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 (07/25/2007)</b>		
9-8-110	Exemptions	N	
9-8-110.5	Exemptions; Emergency Standby Engines	N	
9-8-330	Emergency Standby Engines, Hours of Operation	N	
9-8-330.1	Emergency Standby Engines, Hours of Operation	N	
9-8-330.2	Emergency Standby Engines, Hours of Operation	N	
9-8-330.3	Emergency Standby Engines, Hours of Operation	N	
9-8-502	Recordkeeping	N	
9-8-502.1	Monthly records of usage	N	
9-8-530	Emergency Standby Engines, Monitoring and Recordkeeping	N	
9-8-530.1	Emergency Standby Engines, Monitoring and Recordkeeping	N	
9-8-530.2	Emergency Standby Engines, Monitoring and Recordkeeping	N	

## IV. Source-Specific Applicable Requirements

**Table IV – C.3.1**  
**Source-specific Applicable Requirements**  
**Facility B2759**  
**S56 ON-SHORE FIRE-WATER PUMP DIESEL ENGINE ,**  
**S57 OFF-SHORE/WHARF FIRE-WATER PUMP DIESEL ENGINE**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
9-8-530.3	Emergency Standby Engines, Monitoring and Recordkeeping	N	
<b>CARB ATCM</b>	<b>Stationary Diesel Engine ATCM section 93115, Title 17, CA Code of Regulations Requirements for New Diesel-Fired Emergency Standby Fire-Pump Assemblies (Installed after January 1, 2005)</b>		
93115.1	Purpose	N	
93115.2	Applicability	N	
93115.4	Definitions	N	
93115.4(50)	New or New CI Engine – installed after January 1, 2005 or a 2004 or 2005 model year engine purchased prior to January 1, 2005 for use in California or reconstructed after January 1, 2005	N	
93115.5	Fuel and Fuel Additive Requirements for New and In-Use Stationary CI Engines That Have a Rated Brake Horsepower of Greater than 50 bhp	N	
93115.5(a)	Fuel and Fuel Additive Requirements: New stationary compression ignition engine requirements	N	
93115.5(a)(1)	Must use CARB Diesel Fuel	N	
93115.6	ATCM for Stationary CI Engines – Emergency Standby Diesel-Fueled CI Engine (>50 bhp) Operating Requirements and Emission Standards	N	
93115.6(a)	New Emergency Standby Diesel-Fueled Compression Engine (> 50 bhp) Operating Requirements and Emission Standards	N	
93115.6(a)(3)	New Engines	N	
93115.6(a)(3)(A)	New Engines : Diesel PM Standard & Hours of Operation	N	
93115.6(a)(3)(A)(1)	General Requirements – meet the more stringent of diesel PM standards in (a) and (b) and comply with (c)	N	
93115.6(a)(3)(A)(1)(a)	DPM <= 0.15 g/bhp-hr OR	N	
93115.6(a)(3)(A)(1)(b)	Meet DPM standard in 13CCR 2423	N	
93115.6(a)(3)(A)(1)(c)	Hours of Operation: 50 hrs/yr maintenance and testing. No limit for emergency and emission testing for compliance with this regulation	N	
93115.6(a)(3)(A)(2)	Alternate Requirements – Allowed 100 hours/year maintenance and testing if Diesel PM <= 0.01 g/bhp-hr.	N	
93115.6(a)(3)(B)	New Engines : Hydrocarbon, NMHC, NOx, CO Standards – Off-road Compression-Ignition Engine Standards (13 CCR 2423) or Tier 1 standards in 13 CCR 2423 if no applicable off-road CI engine standards..	N	
93115.6(a)(3)(C)	New Engines: District may establish more stringent limits and standards	N	
93115.6(a)(4)	New Direct-Drive Emergency Standby Fire Pump Engines – comply with 93115.6(a)(3) or 83115.6(a)(4)	N	

## IV. Source-Specific Applicable Requirements

**Table IV – C.3.1**  
**Source-specific Applicable Requirements**  
**Facility B2759**  
**S56 ON-SHORE FIRE-WATER PUMP DIESEL ENGINE ,**  
**S57 OFF-SHORE/WHARF FIRE-WATER PUMP DIESEL ENGINE**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
93115.6 (a)(4)(A)	New Direct-Drive Emergency Standby Fire Pump Engines: Standards & Hours of Operation	N	
93115.6 (a)(4)(A)(1)	New Direct-Drive Emergency Standby Fire Pump Engines: General Requirements	N	
93115.6 (a)(4)(A)(1)(a)	Compliance schedule for 13 CCR 2423 Tier 2, Tier 3, and Tier 4 standards	N	
93115.6 (a)(4)(A)(1)(b)	Hours of operation limited to hours necessary to comply with testing requirements of NFPA 25. No limit for emergency and emission testing for compliance with this regulation	N	
93115.6 (a)(4)(B)	New Direct-Drive Emergency Standby Fire Pump Engines: District may establish more stringent limits and standards	N	
93115.10	Recordkeeping, Reporting and Monitoring	N	
93115.10(d)	Monitoring equipment	N	
93115.10(d)(1)	Non resettable hour meter	N	
93115.10(d)(3)	District may require additional monitoring	N	
93115.10(f)	Reporting Requirements for Emergency Standby Engines	N	
93115.10(f)(1)	Records and monthly summary required	N	
93115.10(f)(2)	Record retention	N	
93115.15	Severability	N	
<b>40 CFR 63 Subpart ZZZZ</b>	<b>NESHAPS for Stationary Reciprocating Internal Combustion Engines (3/3/2010) Requirements for New Stationary RICE &gt; 500 bhp</b>		
63.6585	Applicability: stationary RICE at a major or area source of HAP emissions	Y	
63.6585(a)	Definition: stationary RICE	Y	
63.6585(b)	Definition: major source of HAPs	Y	
63.6590	Affected sources	Y	
63.6590(a)	Affected source is any existing, new, or reconstructed stationary RICE	Y	
63.6590(a)(2)	An new stationary RICE is:	Y	
63.6590 (a)(2) (i)	More than 500 bhp located at a major source of HAPs which commenced construction on or after December 19, 2002	Y	
63.6590(b)	Stationary RICE subject to limited requirements	Y	
63.6590(b)(1)	Stationary RICE subject to limited requirements must only meet initial notification requirements of 63.6645(f) if	Y	
63.6590 (b)(1) (i)	the stationary RICE is a new emergency RICE with a site rating of more than 500 bhp located at a major source of HAPs	Y	
63.6645	Notifications	Y	
63.6645(f)	Initial notification requirement when no other requirements apply	Y	
<b>BAAQMD Condition 23811</b>			

#### IV. Source-Specific Applicable Requirements

**Table IV – C.3.1**  
**Source-specific Applicable Requirements**  
**Facility B2759**  
**S56 ON-SHORE FIRE-WATER PUMP DIESEL ENGINE ,**  
**S57 OFF-SHORE/WHARF FIRE-WATER PUMP DIESEL ENGINE**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 1	Hours of operation limit for reliability-related activities [basis: “Stationary Diesel Engine ATCM” CA Code of Regulations, Title 17, Section 93115.6(b)(3)(A)2b and 93115.6(a)(3)(A)1c	Y	
Part 2	Emergency use [basis: Regulation 9-8-330, “Stationary Diesel Engine ATCM” CA Code of Regulations, Title 17, Section 93115.4(29)	Y	
Part 3	Totalizing Meter [basis: “Stationary Diesel Engine ATCM” CA Code of Regulations, Title 17, Section 93115.10(d)(1)	Y	
Part 4	Recordkeeping [basis: Regulation 9-8-530, “Stationary Diesel Engine ATCM” CA Code of Regulations, Title 17, Section 93115.10(f)	Y	

**Table IV – C.3.2**  
**Source-specific Applicable Requirements**  
**S952-INTERNAL COMBUSTION ENGINE, S953-INTERNAL COMBUSTION ENGINE,**  
**S954-INTERNAL COMBUSTION ENGINE, SPARK IGNITION, 4-STROKE, RICH BURN**  
**ENGINES, EACH ABATED BY NON-SELECTIVE CATALYTIC REDUCTION**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<b>BAAQMD Regulation 6 Rule 1</b>	<b>Particulate Matter; General Requirements (12/05/2007)</b>		
6-1-301	Ringelmann Number 1 Limitation	N	
6-1-305	Visible Particles	N	
6-1-310	Particulate Weight Limitation	N	
6-1-401	Appearance of Emissions	N	
6-1-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions	N	
<b>SIP Regulation 6</b>	<b>Particulate Matter and Visible Emissions (09/04/1998)</b>		
6-301	Ringelmann Number 1 Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particulate Weight Limitation	Y	
6-401	Appearance of Emissions	Y	



**IV. Source-Specific Applicable Requirements**

**Table IV – C.3.2  
 Source-specific Applicable Requirements  
 S952-INTERNAL COMBUSTION ENGINE, S953-INTERNAL COMBUSTION ENGINE,  
 S954-INTERNAL COMBUSTION ENGINE, SPARK IGNITION, 4-STROKE, RICH BURN  
 ENGINES, EACH ABATED BY NON-SELECTIVE CATALYTIC REDUCTION**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
6-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions	Y	
<b>BAAQMD Regulation 9 Rule 8</b>	<b>Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon Monoxide from Stationary Internal Combustion Engines (07/25/2007)</b>		
9-8-301	Emission Limits - Fossil Derived Fuel Gas	N	
9-8-301.1	NOx Limits for Rich Burn Engines - 25 ppmvd, corrected to 15% O2	N	
9-8-301.3	CO Limits - 2000 ppmvd, corrected to 15% O2	Y	
9-8-401	Compliance schedule – submit ATC as necessary to achieve compliance with NOx limits	N	
9-8-502	Recordkeeping	N	
9-8-502.3	Maintain records of quarterly monitoring data	N	
9-8-503	Quarterly NOx and CO compliance monitoring	N	
9-8-601	Determination of NOx Emissions	N	
9-8-602	Determination of CO and O2 Emissions	Y	
<b>SIP Regulation 9 Rule 8</b>	<b>Inorganic Gaseous Pollutants – Nitrogen Oxides and Carbon Monoxide from Stationary Internal Combustion Engines (12/15/1997)</b>		
9-8-301	Emission Limits – Fossil Derived Fuel Gas	Y	
9-8-301.1	NOx Limits for Rich Burn Engines – 56 ppmvd, corrected to 15% O2	Y	
9-8-601	Determination of NOx Emissions	Y	
<b>40 CFR 63 Subpart ZZZZ</b>	<b>NESHAPS for Stationary Reciprocating Internal Combustion Engines (3/3/2010) Requirements for Existing Stationary RICE</b>		
63.6585	Applicability: stationary RICE at a major or area source of HAP emissions	Y	
63.6585(a)	Definition: stationary RICE	Y	
63.6585(b)	Definition: major source of HAPs	Y	
63.6590	Affected sources	Y	
63.6590(a)	Affected source is any existing, new, or reconstructed stationary RICE	Y	
63.6590(a)(1)	An existing stationary RICE (at a major source of HAPs) is:	Y	
63.6590(a)(1)(ii)	<=500 bhp if commenced construction before June 12, 2006	Y	
63.6590(b)	Stationary RICE subject to limited requirements	Y	

#### IV. Source-Specific Applicable Requirements

**Table IV – C.3.2**  
**Source-specific Applicable Requirements**  
**S952-INTERNAL COMBUSTION ENGINE, S953-INTERNAL COMBUSTION ENGINE,**  
**S954-INTERNAL COMBUSTION ENGINE, SPARK IGNITION, 4-STROKE, RICH BURN**  
**ENGINES, EACH ABATED BY NON-SELECTIVE CATALYTIC REDUCTION**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
63.6590(b)(3)	Exempt from requirements of Subpart ZZZZ, including initial notification requirements: Existing SI 4SRB <= 500 bhp at major source	Y	
<b>BAAQMD Condition 8077</b>			
Part B1	Definitions	Y	
Part B2	Emissions (basis: cumulative increase, bubble, BACT)	Y	
Part B3A	Emission Reductions (basis: cumulative increase, bubble)	Y	
Part B3B	Emission Reductions (basis: cumulative increase, bubble)	Y	
Part B3C	Emission Reductions (basis: cumulative increase, bubble)	Y	
Part B3D	Emission Reductions (basis: cumulative increase, bubble)	Y	
Part B3E	Emission Reductions (basis: cumulative increase, bubble, offsets)	Y	
Part B3F	Emission Reductions (basis: cumulative increase, bubble, offsets)	Y	
Part B5A	Reporting and Record Keeping (basis: cumulative increase, offsets)	Y	
Part B5B	Reporting and Record Keeping (basis: cumulative increase, offsets)	Y	
Part B5C	Reporting and Record Keeping (basis: cumulative increase, offsets)	Y	
Part B8A	Vapors from compressor seals must be collected and vented directly to No. 3 HDS Unit hydrogen make-up compressors, or to a closed gas system (basis: cumulative increase, offsets, BACT)	Y	
Part B8A	Hydrocarbon Controls	Y	
Part B10	Access (basis: cumulative increase, offsets, BACT)	Y	
Part B11	Enforcement (basis: cumulative increase, offsets, BACT)	Y	
Part B12	Miscellaneous (basis: cumulative increase, offsets)	Y	
Part B13	Severability (basis: cumulative increase, offsets, BACT)	Y	
Part B14	Environmental Management Plan (basis: cumulative increase, offsets, BACT)	Y	
<b>BAAQMD Condition 15204</b>			
Part 1	Compressor engines shall be fired exclusively on natural gas (basis: cumulative increase)	Y	

#### IV. Source-Specific Applicable Requirements

**Table IV – C.3.3  
 Source-specific Applicable Requirements**

**S955-INTERNAL COMBUSTION ENGINE,  
 S956-INTERNAL COMBUSTION ENGINE, S957-INTERNAL COMBUSTION ENGINE,  
 S958-INTERNAL COMBUSTION ENGINE, S959-INTERNAL COMBUSTION ENGINE,  
 S960-INTERNAL COMBUSTION ENGINE, SPARK IGNITION, 2-STROKE LEAN BURN  
 ENGINES, EACH ABATED BY SELECTIVE CATALYTIC REDUCTION (SCR)**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<b>BAAQMD Regulation 6 Rule 1</b>	<b>Particulate Matter; General Requirements (12/05/2007)</b>		
6-1-301	Ringelmann Number 1 Limitation	N	
6-1-305	Visible Particles	N	
6-1-310	Particulate Weight Limitation	N	
6-1-401	Appearance of Emissions	N	
6-1-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions	N	
<b>SIP Regulation 6</b>	<b>Particulate Matter and Visible Emissions (09/04/1998)</b>		
6-301	Ringelmann Number 1 Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particulate Weight Limitation	Y	
6-401	Appearance of Emissions	Y	
6-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions	Y	
<b>BAAQMD Regulation 9 Rule 8</b>	<b>Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon Monoxide from Stationary Internal Combustion Engines (07/25/2007)</b>		
9-8-301	Emission Limits - Fossil Derived Fuel Gas	N	
9-8-301.2	NOx Limits for Lean Burn Engines – 65 ppmvd, corrected to 15% O2	N	
9-8-301.3	CO Limit – 2000 ppmvd, corrected to 15% O2	Y	
9-8-401	Compliance schedule – submit ATC as necessary to achieve compliance with NOx limits	N	
9-8-502	Recordkeeping	N	
9-8-502.3	Maintain records quarterly monitoring data	N	
9-8-503	Quarterly NOx and CO compliance monitoring	N	
9-8-601	Determination of NOx Emissions	N	
9-8-602	Determination of CO and O2 Emissions	Y	

## IV. Source-Specific Applicable Requirements

**Table IV – C.3.3  
 Source-specific Applicable Requirements**

**S955-INTERNAL COMBUSTION ENGINE,  
 S956-INTERNAL COMBUSTION ENGINE, S957-INTERNAL COMBUSTION ENGINE,  
 S958-INTERNAL COMBUSTION ENGINE, S959-INTERNAL COMBUSTION ENGINE,  
 S960-INTERNAL COMBUSTION ENGINE, SPARK IGNITION, 2-STROKE LEAN BURN  
 ENGINES, EACH ABATED BY SELECTIVE CATALYTIC REDUCTION (SCR)**

<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 9 Rule 8</b>	<b>Inorganic Gaseous Pollutants – Nitrogen Oxides and Carbon Monoxide from Stationary Internal Combustion Engines (12/5/97)</b>		
9-8-301	Emission Limits – Fossil Derived Fuel Gas	Y	
9-8-301.2	NOx Limits for Lean Burn Engines – 140 ppmvd, corrected to 15% O2	Y	
9-8-601	Determination of NOx Emissions	Y	
<b>40 CFR 63 Subpart ZZZZ</b>	<b>NESHAPS for Stationary Reciprocating Internal Combustion Engines (3/3/2010) Requirements for Existing Stationary RICE</b>		
63.6585	Applicability: stationary RICE at a major or area source of HAP emissions	Y	
63.6585(a)	Definition: stationary RICE	Y	
63.6585(b)	Definition: major source of HAPs	Y	
63.6590	Affected sources	Y	
63.6590(a)	Affected source is any existing, new, or reconstructed stationary RICE	Y	
63.6590(a)(1)	An existing stationary RICE (at a major source of HAPs) is:	Y	
63.6590(a)(1)(i)	>500 bhp if commenced construction before December 19, 2002	Y	
63.6590(b)	Stationary RICE subject to limited requirements	Y	
63.6590(b)(3)	Exempt from requirements of Subpart ZZZZ, including initial notification requirements: Existing SI 2SLB > 500 bhp	Y	
<b>BAAQMD Condition 13509</b>			
Part 1	Requirement to fire only natural gas (basis: toxics)	Y	

## IV. Source-Specific Applicable Requirements

**Table IV – C.3.4  
 Source-specific Applicable Requirements  
 S1469 AVON WHARF FIRE WATER PUMP ENGINE; DIESEL FIRED, S1471 LANDSEND FIRE  
 WATER PUMP ENGINE; DIESEL FIRED, S1472 TRACT 4 NORTH FIRE WATER PUMP  
 ENGINE; DIESEL FIRED, S1475 TRAILER 1 FIRE WATER PUMP ENGINE; DIESEL FIRED,  
 S1476 TRAILER 4 FIRE WATER PUMP ENGINE; DIESEL FIRED; PORTABLE**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<b>BAAQMD Regulation 6 Rule 1</b>	<b>Particulate Matter; General Requirements (12/05/2007)</b>		
6-1-303	Ringelmann Number 2 Limitation	N	
6-1-303.1	For emergency standby engines	N	
6-1-305	Visible Particles	N	
6-1-310	Particulate Weight Limitation	N	
6-1-401	Appearance of Emissions	N	
6-1-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions	N	
<b>SIP Regulation 6</b>	<b>Particulate Matter and Visible Emissions (09/04/1998)</b>		
6-303	Ringelmann Number 2 Limitation	Y	
6-303.1	Ringelmann Number 2 Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particulate Weight Limitation	Y	
6-401	Appearance of Emissions	Y	
6-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions	Y	
<b>BAAQMD Regulation 9 Rule 1</b>	<b>Inorganic Gaseous Pollutants - Sulfur Dioxide (03/15/1995)</b>		
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 (07/25/2007)</b>		
9-8-110	Exemptions	N	
9-8-110.5	Exemption emergency standby engines	N	
9-8-330	Emergency Standby Engines, Hours of Operation	N	
9-8-330.1	Emergency Standby Engines, Hours of Operation	N	
9-8-330.2	Emergency Standby Engines, Hours of Operation	N	
9-8-330.3	Emergency Standby Engines, Hours of Operation	N	
9-8-502	Recordkeeping	N	
9-8-502.1	Monthly records of usage	N	
9-8-530	Emergency Standby Engines, Monitoring and Recordkeeping	N	
9-8-530.1	Emergency Standby Engines, Monitoring and Recordkeeping	N	
9-8-530.2	Emergency Standby Engines, Monitoring and Recordkeeping	N	
9-8-530.3	Emergency Standby Engines, Monitoring and Recordkeeping	N	

**IV. Source-Specific Applicable Requirements**

**Table IV – C.3.4  
 Source-specific Applicable Requirements  
 S1469 AVON WHARF FIRE WATER PUMP ENGINE; DIESEL FIRED, S1471 LANDSEND FIRE  
 WATER PUMP ENGINE; DIESEL FIRED, S1472 TRACT 4 NORTH FIRE WATER PUMP  
 ENGINE; DIESEL FIRED, S1475 TRAILER 1 FIRE WATER PUMP ENGINE; DIESEL FIRED,  
 S1476 TRAILER 4 FIRE WATER PUMP ENGINE; DIESEL FIRED; PORTABLE**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<b>CARB ATCM</b>	<b>Stationary Diesel Engine ATCM section 93115, Title 17, CA Code of Regulations Requirements for In-Use Diesel-Fired Emergency Standby Fire-Pump Assemblies (Installed prior to January 1, 2005)</b>		
93115.1	Purpose	N	
93115.2	Applicability	N	
93115.3	Exemptions	N	
93115.3(n)	Operating limits in 93115.6(b)(3) do not apply to fire pumps driven by stationary CI engines and are only operated the number of hours necessary to comply with NFPA 25 testing requirements	N	
93115.4	Definitions	N	
93115.4(41)	"In-Use" means a CI engine that is not a "new" CI engine	N	
93115.4(50)	New or New CI Engine – installed after January 1, 2005 or a 2004 or 2005 model year engine purchased prior to January 1, 2005 for use in California or reconstructed after January 1, 2005	N	
93115.5	Fuel and Fuel Additive Requirements for New and In-Use Stationary CI Engines That Have a Rated Brake Horsepower of Greater than 50 bhp	N	
93115.5(b)	Fuel requirements for in-use emergency standby stationary diesel-fueled CI engines	N	
93115.5(b)(1)	Must use CARB Diesel Fuel	N	
93115.10	Recordkeeping, Reporting and Monitoring	N	
93115.10(c)	Notification of Loss of Exemption	N	
93115.10(c)(1)	Notification of Loss of Exemption – In-use engines	N	
93115.10(c)(1)(A)	Report loss of 93115.6 exemption [93115.3(n)] no later than 180 days after exemption no longer applies	N	
93115.10(d)	Monitoring equipment	N	
93115.10(d)(1)	Non resettable hour meter	N	
93115.10(d)(3)	District may require additional monitoring	N	
93115.10(f)	Reporting Requirements for Emergency Standby Engines	N	
93115.10(f)(1)	Records and monthly summary required	N	
93115.10(f)(2)	Record retention	N	
93115.15	Severability	N	
<b>40 CFR 63 Subpart ZZZZ</b>	<b>NESHAPS for Stationary Reciprocating Internal Combustion Engines (3/3/2010) Requirements for Existing Emergency Stationary RICE &lt;= 500 bhp</b>		
63.6585	Applicability: stationary RICE at a major or area source of HAP emissions	Y	
63.6585(a)	Definition: stationary RICE	Y	
63.6585(b)	Definition: major source of HAPs	Y	
63.6590	Affected sources	Y	
63.6590(a)	Affected source is any existing, new, or reconstructed stationary RICE	Y	
63.6590(a)(1)	An existing stationary RICE( at a major source of HAPs):	Y	

## IV. Source-Specific Applicable Requirements

**Table IV – C.3.4  
 Source-specific Applicable Requirements  
 S1469 AVON WHARF FIRE WATER PUMP ENGINE; DIESEL FIRED, S1471 LANDSEND FIRE  
 WATER PUMP ENGINE; DIESEL FIRED, S1472 TRACT 4 NORTH FIRE WATER PUMP  
 ENGINE; DIESEL FIRED, S1475 TRAILER 1 FIRE WATER PUMP ENGINE; DIESEL FIRED,  
 S1476 TRAILER 4 FIRE WATER PUMP ENGINE; DIESEL FIRED; PORTABLE**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.6590 (a)(1) (ii)	<= 500 bhp if commenced construction before June 12, 2006	Y	
63.6595	Compliance Dates	Y	
63.6595(a)	Affected Sources	Y	
63.6595(a)(1)	Existing stationary CI RICE with a site rating <= 500 bhp located at a major source of HAP emissions must comply with the applicable emission limitations and operating limitations no later than May 3, 2013.	Y	
63.6595(c)	Meet the notification requirements in 63.6645 and 40 CFR 63 Subpart A	Y	
63.6602	Emission limitations for existing stationary CI RICE <= 500 bhp – Comply with Table 2c.	Y	
63.6605	General compliance requirements	Y	
63.6605(a)	Comply with applicable requirements at all times	Y	
63.6605(b)	Operate at all times in a manner consistent with safety and good air pollution control practices.	Y	
63.6625	Monitoring, installation, collection, operation, and maintenance requirements for existing emergency stationary RICE not subject to numerical standards	Y	
63.6625(e)	Maintain the engine and after-treatment control device (if any) according to the manufacturer's emission-related written instructions or develop a maintenance plan that requires (to the extent practical) the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions.	Y	
63.6625(f)	Existing emergency stationary RICE <= 500 bhp at major source must install non-resettable hour meter	Y	
63.6625(h)	Minimize time spent at idle during startup and minimize startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the emission standards applicable to all times other than startup in Table 2c, apply.	Y	
63.6625(i)	Optional oil analysis program to extend the specified oil change requirement in Table 2c, item 1 for emergency CI RICE < 500 bhp at major source. Include analysis program in Maintenance Plan. Keep records of the parameters analyzes, analytical results, and oil changes for the engine.	Y	
63.6640	Continuous Compliance Requirements	Y	
63.6640(a)	Comply with applicable emission limitations and operating limitations in Table 2c according to Table 6 [Option 9 for existing stationary CI RICE not subject to any numerical emission standards]	Y	

## IV. Source-Specific Applicable Requirements

**Table IV – C.3.4  
 Source-specific Applicable Requirements  
 S1469 AVON WHARF FIRE WATER PUMP ENGINE; DIESEL FIRED, S1471 LANDSEND FIRE  
 WATER PUMP ENGINE; DIESEL FIRED, S1472 TRACT 4 NORTH FIRE WATER PUMP  
 ENGINE; DIESEL FIRED, S1475 TRAILER 1 FIRE WATER PUMP ENGINE; DIESEL FIRED,  
 S1476 TRAILER 4 FIRE WATER PUMP ENGINE; DIESEL FIRED; PORTABLE**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
63.6640(b)	Report each instance of failure to meet each applicable emission limitation and operating limitation in Table 2c as deviations per the reporting requirements in 63.6650	Y	
63.6640(e)	Exemption from Table 8	Y	
63.6640(f)	Operating requirements for existing emergency stationary RICE <= 500 bhp at major source:	Y	
63.6640(f)(1)	Any operation of emergency engines other than for emergency operation, maintenance and testing, and operation in non-emergency situations for 50 hours per year is prohibited.	Y	
63.6640(f)(2)	No time limit for emergency stationary RICE in emergency situations	Y	
63.6640(f)(3)	Operation for maintenance checks and readiness testing is permitted if the tests are recommended by Federal, State or local government, the manufacturer, vendor, or insurance company associated with engine. Maintenance checks and readiness testing is limited to 100 hours per year. Can operate beyond 100 hours per year if required by Federal, State, or local standards or if approval is requested and received.	Y	
63.6640(f)(4)	Operation in non-emergency situations limited to 50 hours per year, but the 50 hours count toward the 100 hours per year for maintenance and testing. Cannot be used for peak shaving or to generate income by supplying power, but can operate up to 15 hours per year as part of demand response program, subject to certain restrictions. The 15 hours count toward the 50 hour/year limit for non-emergency situations.	Y	
63.6645	Notifications	Y	
63.6645(a)(5)	Notifications – Existing stationary emergency CI RICE are not subject to 40 CFR 63 Subpart A notification requirements in 63.6645(a)	Y	
63.6650	Reports	Y	
63.6650(a)	Submit applicable reports in Table 7	Y	
63.6650(b)	Report submittal dates	Y	
63.6650(c)	Report contents	Y	
63.6650(d)	Report contents – deviations for sources without CMS	Y	
63.6650(f)	Report requirements for Title V permitted sources	Y	
63.6655	Recordkeeping	Y	
63.6655(d)	Recordkeeping – comply with Table 6	Y	
63.6655(e)	Recordkeeping – maintenance records	Y	
63.6655(e)(2)	Existing stationary emergency CI RICE	Y	
63.6655(f)	Hours of operation from non-resettable hour meter for various modes of operation	Y	
63.6655(f)(1)	Existing stationary emergency CI RICE	Y	



**IV. Source-Specific Applicable Requirements**

**Table IV – C.3.4  
 Source-specific Applicable Requirements  
 S1469 AVON WHARF FIRE WATER PUMP ENGINE; DIESEL FIRED, S1471 LANDSEND FIRE  
 WATER PUMP ENGINE; DIESEL FIRED, S1472 TRACT 4 NORTH FIRE WATER PUMP  
 ENGINE; DIESEL FIRED, S1475 TRAILER 1 FIRE WATER PUMP ENGINE; DIESEL FIRED,  
 S1476 TRAILER 4 FIRE WATER PUMP ENGINE; DIESEL FIRED; PORTABLE**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
63.6660	Record format and retention	Y	
63.6660(a)	Record format	Y	
63.6660(b)	Record retention period - 5 years	Y	
63.6660(c)	Record format and retention– hard copy or electronic for 5 years	Y	
Table 2c	Option 1: Emergency CI normal operation – Items 1a, 1b, and 1c can be delayed if engine cannot be shutdown during an emergency [can petition for alternative workpractices]	Y	
Table 6	Option 9: Continuous compliance for existing stationary CI RICE not subject to any numerical emission standards	Y	
Table 7	Reports	Y	
<b>BAAQMD Condition 18947</b>	S1475 ans S1476 only		
Part 1	Portability Requirements (basis: Regulation 2-1-220)	N	
Part 2	Fixed location requirements (basis: Regulation 2-1-220)	N	
Part 3	Reporting vilation of parts 1 and/or 2 to Compliance and Enforcement (basis: compliance verification)	N	
Part 4	Fuel limit (basis: cumulative increase)	N	
Part 6	Fuel requirements (basis: cumulative increase)	N	
Part 9	No operation within 1000 feet of a school without an application (basis: Regulation 2-1-412)	N	
Part 10	Recordkeeping (basis: recordkeeping)	N	
Part 11	Three day advance notice before non-emergency operation in a new location (basis: reporting)	N	
Part 12	Year end summary/report (basis: reporting)	N	
<b>BAAQMD Condition 22851</b>			
Part 1	Hours of operation limit for NFPA 25 reliability-related activities [basis: “Stationary Diesel Engine ATCM”, CA Code of Regulations, Title 17, Section 93115.3(n)]	N	
Part 2	Allowable use [basis: BAAQMD Regulation 9-8-330]	N	
Part 3	Totalizing Meter [Basis: BAAQMD Regulation 9-8-530, "Stationary Diesel Engine ATCM", CA Code of Regulations, Title 17, Section 93115.10(d)(1)]	N	
Part 4	Recordkeeping [basis: BAAQMD Regulation 9-8-530, 2-6-501, and "Stationary Diesel Engine ATCM", CA Code of Regulations, Title 17, Section 93115.10(f)]	N	

## IV. Source-Specific Applicable Requirements

**Table IV – C.3.5**  
**Source-specific Applicable Requirements**  
**S1487 TANK 38 FIRE-WATER PUMP DIESEL ENGINE ,**  
**S1488 CANAL FIRE-WATER PUMP DIESEL ENGINE**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<b>BAAQMD Regulation 6 Rule 1</b>	<b>Particulate Matter; General Requirements (12/05/2007)</b>		
6-1-303	Ringelmann Number 2 Limitation	N	
6-1-303.1	For Emergency Standby Engines	N	
6-1-305	Visible Particles	N	
6-1-310	Particulate Weight Limitation	N	
6-1-401	Appearance of Emissions	N	
6-1-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions	N	
<b>SIP Regulation 6</b>	<b>Particulate Matter and Visible Emissions (09/04/1998)</b>		
6-303	Ringelmann Number 2 Limitation	Y	
6-303.1	For Emergency Standby Engines	Y	
6-305	Visible Particles	Y	
6-310	Particulate Weight Limitation	Y	
6-401	Appearance of Emissions	Y	
6-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions	Y	
<b>BAAQMD Regulation 9 Rule 1</b>	<b>Inorganic Gaseous Pollutants - Sulfur Dioxide (03/15/1995)</b>		
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 (07/25/2007)</b>		
9-8-110	Exemptions	N	
9-8-110.5	Emergency Standby Engines	N	
9-8-330	Emergency Standby Engines, Hours of Operation	N	
9-8-330.1	Emergency Standby Engines, Hours of Operation	N	
9-8-330.2	Emergency Standby Engines, Hours of Operation	N	
9-8-330.3	Emergency Standby Engines, Hours of Operation	N	
9-8-502	Recordkeeping	N	
9-8-502.1	Monthly records of usage	N	
9-8-530	Emergency Standby Engines, Monitoring and Recordkeeping	N	
9-8-530.1	Emergency Standby Engines, Monitoring and Recordkeeping	N	
9-8-530.2	Emergency Standby Engines, Monitoring and Recordkeeping	N	
9-8-530.3	Emergency Standby Engines, Monitoring and Recordkeeping	N	
<b>CARB ATCM</b>	<b>Stationary Diesel Engine ATCM section 93115, Title 17, CA Code of Regulations Requirements for In-Use Diesel-Fired Emergency Standby Fire-Pump Assemblies (Installed prior to January 1, 2005)</b>		
93115.1	Purpose	N	

#### IV. Source-Specific Applicable Requirements

**Table IV – C.3.5  
 Source-specific Applicable Requirements  
 S1487 TANK 38 FIRE-WATER PUMP DIESEL ENGINE ,  
 S1488 CANAL FIRE-WATER PUMP DIESEL ENGINE**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
93115.2	Applicability	N	
93115.3	Exemptions	N	
93115.3(n)	Operating limits in 93115.6(b)(3) do not apply to fire pumps driven by stationary CI engines and are only operated the number of hours necessary to comply with NFPA 25 testing requirements	N	
93115.4	Definitions	N	
93115.4(41)	"In-Use" means a CI engine that is not a "new" CI engine	N	
93115.4(50)	New or New CI Engine – installed after January 1, 2005 or a 2004 or 2005 model year engine purchased prior to January 1, 2005 for use in California or reconstructed after January 1, 2005	N	
93115.5	Fuel and Fuel Additive Requirements for New and In-Use Stationary CI Engines That Have a Rated Brake Horsepower of Greater than 50 bhp	N	
93115.5(b)	Fuel requirements for in-sue emergency standby stationary diesel-fueled CI engines	N	
93115.5(b)(1)	Must use CARB Diesel Fuel	N	
93115.6	ATCM for Stationary CI Engines – Emergency Standby Diesel-Fueled CI Engine (>50 bhp) Operating Requirements and Emission Standards (S-1488 only)	N	
93115.6(b)	In-Use Emergency Standby Diesel-Fueled CI Engine (> 50 bhp) Operating Requirements and Emission Standards (S-1488 only)	N	
93115.6(b)(3)	Emission and operation standards (S-1488 only)	N	
93115.6(b)(3)(A)	Diesel PM Standard and Hours of Operation Limitations (S-1488 only)	N	
93115.6(b)(3)(A)(1)	General Requirements (S-1488 only)	N	
93115.6(b)(3)(A)(1)(b)	Operating for maintenance and testing limited to 30 hrs/year when PM emitted at a rate $\leq 0.40$ g/bhp-hr, except as provided in 93115.6(b)(3)(A)(2), excluding operating for emergency use and emissions testing (S-1488 only)	N	
93115.6(b)(3)(A)(2)	Operation for maintenance and testing allowed to be > 30 hrs/year when PM emitted at a rate $\leq 0.40$ g/bhp-hr (S-1488 only)	N	
93115.6(b)(3)(A)(2)(b)	Operation for maintenance and testing allowed to be 50 hrs/year when PM emitted at a rate $\leq 0.15$ g/bhp-hr (S-1488 only)	N	
93115.10	ATCM for Stationary CI Engines – Recordkeeping, Reporting, and Monitoring Requirements S-1488 only)	N	

## IV. Source-Specific Applicable Requirements

**Table IV – C.3.5  
 Source-specific Applicable Requirements  
 S1487 TANK 38 FIRE-WATER PUMP DIESEL ENGINE ,  
 S1488 CANAL FIRE-WATER PUMP DIESEL ENGINE**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
93115.10(c)	Notification of Loss of Exemption	N	
93115.10(c)(1)	Notification of Loss of Exemption – In-use engines	N	
93115.10(c)(1)(A)	Report loss of 93115.6 exemption [93115.3(n)] no later than 180 days after exemption no longer applies	N	
93115.10(d)	Monitoring Equipment (S-1488 only)	N	
93115.10(d)(1)	Install non-resettable hour meter with minimum display of 9,999 hours (S-1488 only)	N	
93115.10(d)(3)	District may require additional monitoring	N	
93115.10(f)	Reporting Requirements for Emergency Standby Engines	N	
93115.10(f)(1)	Records and monthly summary required	N	
93115.10(f)(2)	Record retention	N	
93115.15	Severability	N	
<b>40 CFR 63 Subpart ZZZZ</b>	<b>NESHAPS for Stationary Reciprocating Internal Combustion Engines (3/3/2010)                  Requirements for New Emergency Stationary RICE &gt; 500 bhp</b>		
63.6585	Applicability: stationary RICE at a major or area source of HAP emissions	Y	
63.6585(a)	Definition: stationary RICE	Y	
63.6585(b)	Definition: major source of HAPs	Y	
63.6590	Affected sources	Y	
63.6590(a)	Affected source is any existing, new, or reconstructed stationary RICE	Y	
63.6590(a)(2)	A New stationary RICE is:	Y	
63.6590(a)(2)(i)	More than 500 bhp located at a major source of HAPs which commenced construction on or after December 19, 2002	Y	
63.6590(b)(1)	Stationary RICE subject to limited requirements must only meet initial notification requirements of 63.6645(f) if	Y	
63.6590(b)(1)(i)	the stationary RICE is a new emergency RICE with a site rating of more than 500 bhp located at a major source of HAPs	Y	
63.6645	Notifications	Y	
63.6645(f)	Initial notification requirement when no other requirements apply	Y	
<b>BAAQMD Condition 20672</b>	S-1487: Parts A5, A6, and A8 S-1488: Parts B5, B6, B7, and B9		
Part A5	NOx limit of 9.65 g/bhp-hr (basis: BACT)	Y	
Part A6	CO limit of 1.71 g/bhp-hr (basis: BACT)	Y	
Part A8	Fuel requirements (basis: BACT)	Y	
Part B5	NOx limit of 8.0 g/bhp-hr (basis: BACT)	Y	
Part B6	CO limit of 1.15 g/bhp-hr (basis: BACT)	Y	
Part B7	PM10 limit of 0.22 g/bhp-hr (basis: BACT)	Y	
Part B9	Fuel requirements (basis: BACT)	Y	

#### IV. Source-Specific Applicable Requirements

**Table IV – C.3.5**  
**Source-specific Applicable Requirements**  
**S1487 TANK 38 FIRE-WATER PUMP DIESEL ENGINE ,**  
**S1488 CANAL FIRE-WATER PUMP DIESEL ENGINE**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<b>BAAQMD Condition 22851</b>			
Part 1	Hours of operation limit for NFPA 25 reliability-related activities [basis: "Stationary Diesel Engine ATCM", CA Code of Regulations, Title 17, Section 93115.3(n)]	N	
Part 2	Allowable use [basis: BAAQMD Regulation 9-8-330]	N	
Part 3	Totalizing Meter [Basis: BAAQMD Regulation 9-8-530, "Stationary Diesel Engine ATCM", CA Code of Regulations, Title 17, Section 93115.10(d)(1)]	N	
Part 4	Recordkeeping [basis: BAAQMD Regulation 9-8-530, 2-6-501, and "Stationary Diesel Engine ATCM", CA Code of Regulations, Title 17, Section 93115.10(f)]	N	

**Table IV – C.3.6**  
**Source-specific Applicable Requirements**  
**S1518 NORTH RESERVOIR WEST FIRE WATER PUMP ENGINE; DIESEL FIRED,**  
**S1519 – NORTH RESERVOIR EAST FIRE WATER PUMP ENGINE; DIESEL FIRED**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<b>BAAQMD Regulation 6 Rule 1</b>	<b>Particulate Matter; General Requirements (12/05/2007)</b>		
6-1-303	Ringelmann Number 2 Limitation	N	
6-1-303.1	For emergency Standby Engines	N	
6-1-305	Visible Particles	N	
6-1-310	Particulate Weight Limitation	N	
6-1-401	Appearance of Emissions	N	
6-1-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions	N	
<b>SIP Regulation 6</b>	<b>Particulate Matter and Visible Emissions (09/04/1998)</b>		
6-303	Ringelmann Number 2 Limitation	Y	
6-303.1	For emergency Standby Engines	Y	
6-305	Visible Particles	Y	
6-310	Particulate Weight Limitation	Y	
6-401	Appearance of Emissions	Y	

## IV. Source-Specific Applicable Requirements

**Table IV – C.3.6**  
**Source-specific Applicable Requirements**  
**S1518 NORTH RESERVOIR WEST FIRE WATER PUMP ENGINE; DIESEL FIRED,**  
**S1519 – NORTH RESERVOIR EAST FIRE WATER PUMP ENGINE; DIESEL FIRED**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
6-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions	Y	
<b>BAAQMD Regulation 9 Rule 1</b>	<b>Inorganic Gaseous Pollutants - Sulfur Dioxide (03/15/1995))</b>		
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 (07/25/2007)</b>		
9-8-110	Exemptions	N	
9-8-110.5	Exemption, Emergency Standby Engines	N	
9-8-330	Emergency Standby Engines, Hours of Operation	N	
9-8-330.1	Emergency Standby Engines, Hours of Operation	N	
9-8-330.2	Emergency Standby Engines, Hours of Operation	N	
9-8-330.3	Emergency Standby Engines, Hours of Operation	N	
9-8-502	Recordkeeping	N	
9-8-502.1	Monthly records of usage	N	
9-8-530	Emergency Standby Engines, Monitoring and Recordkeeping	N	
9-8-530.1	Emergency Standby Engines, Monitoring and Recordkeeping	N	
9-8-530.2	Emergency Standby Engines, Monitoring and Recordkeeping	N	
9-8-530.3	Emergency Standby Engines, Monitoring and Recordkeeping	N	
<b>CARB ATCM</b>	<b>Stationary Diesel Engine ATCM Section 93115, Title 17, CA Code of Regulations – Requirements for New Diesel-Fired Emergency Standby Fire-Pump Assemblies (Installed after January 1, 2005)</b>		
93115.1	Purpose	N	
93115.2	Applicability	N	
93115.4	Definitions	N	
93115.4(50)	New or New CI Engine – installed after January 1, 2005 or a 2004 or 2005 model year engine purchased prior to January 1, 2005 for use in California or reconstructed after January 1, 2005	N	
93115.5	Fuel and Fuel Additive Requirements for New and In-Use Stationary CI Engines That Have a Rated Brake Horsepower of Greater than 50 (> bhp)	N	
93115.5(a)	Fuel and Fuel Additive Requirements: New stationary compression ignition engine requirements	N	
93115.5(a)(1)	Must use CARB Diesel Fuel	N	
93115.6	ATCM for Stationary CI Engines – Emergency Standby Diesel-Fueled CI Engine (>50 bhp) Operating Requirements and Emission Standards	N	

## IV. Source-Specific Applicable Requirements

**Table IV – C.3.6**  
**Source-specific Applicable Requirements**  
**S1518 NORTH RESERVOIR WEST FIRE WATER PUMP ENGINE; DIESEL FIRED,**  
**S1519 – NORTH RESERVOIR EAST FIRE WATER PUMP ENGINE; DIESEL FIRED**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
93115.6(a)	New Emergency Standby Diesel-Fueled Compression Engine (> 50 bhp) Operating Requirements and Emission Standards	N	
93115.6(a)(3)	New Engines	N	
93115.6(a)(3)(A)	New Engines : Diesel PM Standard & Hours of Operation	N	
93115.6(a)(3)(A)(1)	General Requirements – meet the more stringent of diesel PM standards in (a) and (b) and comply with (c)	N	
93115.6(a)(3)(A)(1)(a)	DPM <= 0.15 g/bhp-hr OR	N	
93115.6(a)(3)(A)(1)(b)	Meet DPM standard in 13CCR 2423	N	
93115.6(a)(3)(A)(1)(c)	Hours of Operation: 50 hrs/yr maintenance and testing. No limit for emergency and emission testing for compliance with this regulation	N	
93115.6(a)(3)(A)(2)	Alternate Requirements – Allowed 100 hours/year maintenance and testing if Diesel PM <= 0.01 g/bhp-hr.	N	
93115.6(a)(3)(B)	New Engines : Hydrocarbon, NMHC, NOx, CO Standards – Off-road Compression-Ignition Engine Standards (13 CCR 2423) or Tier 1 standards in 13 CCR 2423 if no applicable off-road CI engine standards..	N	
93115.6(a)(3)(C)	New Engines: District may establish more stringent limits and standards	N	
93115.6(a)(4)	New Direct-Drive Emergency Standby Fire Pump Engines – comply with 93115.6(a)(3) or 83115.6(a)(4)	N	
93115.6(a)(4)(A)	New Direct-Drive Emergency Standby Fire Pump Engines: Standards & Hours of Operation	N	
93115.6(a)(4)(A)(1)	New Direct-Drive Emergency Standby Fire Pump Engines: General Requirements	N	
93115.6(a)(4)(A)(1)(a)	Compliance schedule for 13 CCR 2423 Tier 2, Tier 3, and Tier 4 standards	N	
93115.6(a)(4)(A)(1)(b)	Hours of operation limited to hours necessary to comply with testing requirements of NFPA 25. No limit for emergency and emission testing for compliance with this regulation	N	
93115.6(a)(4)(B)	New Direct-Drive Emergency Standby Fire Pump Engines: District may establish more stringent limits and standards	N	
93115.10	ATCM for Stationary CI Engines – Recordkeeping, Reporting, and Monitoring Requirements	N	
93115.10(d)	Monitoring Equipment	N	
93115.10(d)(1)	Install non-resettable hour meter with minimum display of 9,999 hours (S-1488 only)	N	
93115.10(d)(3)	District may require additional monitoring	N	
93115.10(f)	Reporting Requirements for Emergency Standby Engines	N	

## IV. Source-Specific Applicable Requirements

**Table IV – C.3.6**  
**Source-specific Applicable Requirements**  
**S1518 NORTH RESERVOIR WEST FIRE WATER PUMP ENGINE; DIESEL FIRED,**  
**S1519 – NORTH RESERVOIR EAST FIRE WATER PUMP ENGINE; DIESEL FIRED**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
93115.15	Severability	N	
<b>40 CFR 60 Subpart III</b>	<b>Standards of Performance for Stationary Compression Ignition Internal Combustion Engines (7/11/2006)</b>		
60.4200	Applicability	Y	
60.4200(a)	Applicable to owners/operators of stationary compression ignition (CI) internal combustion engines (ICE)	Y	
60.4200(a)(2)	Stationary CI ICE that were constructed after 7/11/2005 where	Y	
60.4200(a)(2)(ii)	Manufactured as a certified NFPA fire pump engine after 7/1/2006	Y	
60.4205	Emission standards for emergency stationary CI ICE	Y	
60.4205(c)	Fire pump engines with displacement less than 30 l per cylinder must meet emission standards in Table 4 for all pollutants	Y	
60.4206	Meet Table 4 emission standards for the life of the engine	Y	
60.4207	Fuel requirements for stationary CI ICE	Y	
60.4207(a)	Use diesel fuel that meets the requirements of 40 CFR 80.510(a)	Y	
60.4207(b)	Use diesel fuel that meets the requirements of 40 CFR 80.510(b) for nonroad diesel fuel	Y	
60.4207(c)	Option to petition EPA to use remaining non-compliant fuel	Y	
60.4209	Monitoring requirements for stationary CI ICE	Y	
60.4209(a)	Install a non-resettable hour meter prior to the startup of an emergency engine	Y	
60.4209(b)	Diesel particulate filter must be installed with backpressure monitor to indicate when the high backpressure limit of the engine is approached	Y	
60.4211(a)	Operate and maintain stationary CI ICE and control device per manufacturer's written instructions.	Y	
60.4211(e)	Operation for maintenance and readiness checks are limited to 100 hours per year. No limit on emergency use. Any operation other than for maintenance, readiness checks, or emergencies is prohibited.	Y	
60.4212	Compliance requirements for stationary compression ignition ICE	Y	
60.4214	Notification, reporting, and recordkeeping requirements for stationary CI ICE	Y	
60.4214(b)	Initial notification is not required for emergency engines.	Y	
60.4124(c)	Maintain records of any corrective action taken if backpressure monitor indicates that high backpressure limit has been approached	Y	
<b>40 CFR 63 Subpart ZZZZ</b>	<b>NESHAPS for Stationary Reciprocating Internal Combustion Engines (3/3/2010)</b>		
63.6585	Applicability stationary RICE at a major or area source of HAP emissions	Y	
63.6585(a)	Definition: stationary RICE	Y	
63.6585(b)	Definition: major source of HAPs	Y	



#### IV. Source-Specific Applicable Requirements

**Table IV – C.3.6**  
**Source-specific Applicable Requirements**  
**S1518 NORTH RESERVOIR WEST FIRE WATER PUMP ENGINE; DIESEL FIRED,**  
**S1519 – NORTH RESERVOIR EAST FIRE WATER PUMP ENGINE; DIESEL FIRED**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.6590	Affected sources	Y	
63.6590(a)	Affected source is any existing, new, or reconstructed stationary RICE located at major source of HAP emissions	Y	
63.6590(a)(2)	A New stationary RICE is:	Y	
63.6590(a)(2)(ii)	Rating < 500 bhp located at major source of HAP emissions, constructed on or after 6/12/2006	Y	
63.6590(c)	New Emergency Stationary RICE <= 500 bhp are subject only to 40 CFR 60 Subpart IIII for compression ignition engines	Y	
<b>BAAQMD Condition 23811</b>			
Part 1	Hours of operation limit for reliability-related activities [basis: “Stationary Diesel Engine ATCM” CA Code of Regulations, Title 17, Section 93115.6(b)(3)(A)2b and Section 93115.6(a)(3)(A)1c	Y	
Part 2	Emergency use [basis: Regulation 9-8-330, “Stationary Diesel Engine ATCM” CA Code of Regulations, Title 17, Section 93115.4(29)	Y	
Part 3	Totalizing Meter [basis: “Stationary Diesel Engine ATCM” CA Code of Regulations, Title 17, Section 93115.10(d)(1)	Y	
Part 4	Recordkeeping [basis: Regulation 9-8-530, “Stationary Diesel Engine ATCM” CA Code of Regulations, Title 17, Section 93115.10(f)	Y	

**Table IV – C.3.7**  
**Source-specific Applicable Requirements**  
**S1552--NO 1 PUMP STATION WATER PUMP ENGINE; DIESEL FIRED**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<b>BAAQMD Regulation 6 Rule 1</b>	<b>Particulate Matter; General Requirements (12/05/2007)</b>		
6-1-303	Ringelmann Number 2 Limitation	N	
6-1-303.1	For emergency Standby Engines	N	
6-1-305	Visible Particles	N	
6-1-310	Particulate Weight Limitation	N	
6-1-401	Appearance of Emissions	N	
6-1-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions	N	

## IV. Source-Specific Applicable Requirements

**Table IV – C.3.7**  
**Source-specific Applicable Requirements**  
**S1552--NO 1 PUMP STATION WATER PUMP ENGINE; DIESEL FIRED**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<b>SIP Regulation 6</b>	<b>Particulate Matter and Visible Emissions (09/04/1998)</b>		
6-303	Ringelmann Number 2 Limitation	Y	
6-303.1	For emergency Standby Engines	Y	
6-305	Visible Particles	Y	
6-310	Particulate Weight Limitation	Y	
6-401	Appearance of Emissions	Y	
6-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions	Y	
<b>BAAQMD Regulation 9 Rule 1</b>	<b>Inorganic Gaseous Pollutants - Sulfur Dioxide (03/15/1995)</b>		
9-1-301	Limitations on Ground Level Concentrations	Y	
9-1-302	General Emission Limitations	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 (07/25/2007)</b>		
9-8-110	Exemptions	N	
9-8-110.5	Exemption, Emergency Standby Engines	N	
9-8-330	Emergency Standby Engines, Hours of Operation	N	
9-8-330.1	Emergency Standby Engines, Hours of Operation	N	
9-8-330.2	Emergency Standby Engines, Hours of Operation	N	
9-8-330.3	Emergency Standby Engines, Hours of Operation	N	
9-8-502	Recordkeeping	N	
9-8-502.1	Monthly records of usage	N	
9-8-530	Emergency Standby Engines, Monitoring and Recordkeeping	N	
9-8-530.1	Emergency Standby Engines, Monitoring and Recordkeeping	N	
9-8-530.2	Emergency Standby Engines, Monitoring and Recordkeeping	N	
9-8-530.3	Emergency Standby Engines, Monitoring and Recordkeeping	N	
<b>CARB ATCM</b>	<b>Stationary Diesel Engine ATCM Section 93115, Title 17, CA Code of Regulations – Requirements for New Diesel-Fired Emergency Standby Fire-Pump Assemblies (Installed after January 1, 2005)</b>		
93115.1	Purpose	N	
93115.2	Applicability	N	
93115.4	Definitions	N	
93115.4(50)	New or New CI Engine – installed after January 1, 2005 or a 2004 or 2005 model year engine purchased prior to January 1, 2005 for use in California or reconstructed after January 1, 2005	N	

## IV. Source-Specific Applicable Requirements

**Table IV – C.3.7  
 Source-specific Applicable Requirements  
 S1552--NO 1 PUMP STATION WATER PUMP ENGINE; DIESEL FIRED**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
93115.5	Fuel and Fuel Additive Requirements for New and In-Use Stationary CI Engines That Have a Rated Brake Horsepower of Greater than 50 (> bhp)	N	
93115.5(a)	Fuel and Fuel Additive Requirements: New stationary compression ignition engine requirements	N	
93115.5(a)(1)	Must use CARB Diesel Fuel	N	
93115.6	ATCM for Stationary CI Engines – Emergency Standby Diesel-Fueled CI Engine (>50 bhp) Operating Requirements and Emission Standards	N	
93115.6(a)	New Emergency Standby Diesel-Fueled Compression Engine (> 50 bhp) Operating Requirements and Emission Standards	N	
93115.6(a)(3)	New Engines	N	
93115.6(a)(3)(A)	New Engines : Diesel PM Standard & Hours of Operation	N	
93115.6(a)(3)(A)(1)	General Requirements – meet the more stringent of diesel PM standards in (a) and (b) and comply with (c)	N	
93115.6(a)(3)(A)(1)(a)	DPM <= 0.15 g/bhp-hr OR	N	
93115.6(a)(3)(A)(1)(b)	Meet DPM standard in 13CCR 2423	N	
93115.6(a)(3)(A)(1)(c)	Hours of Operation: 50 hrs/yr maintenance and testing. No limit for emergency and emission testing for compliance with this regulation	N	
93115.6(a)(3)(A)(2)	Alternate Requirements – Allowed 100 hours/year maintenance and testing if Diesel PM <= 0.01 g/bhp-hr.	N	
93115.6(a)(3)(B)	New Engines : Hydrocarbon, NMHC, NOx, CO Standards – Off-road Compression-Ignition Engine Standards (13 CCR 2423) or Tier 1 standards in 13 CCR 2423 if no applicable off-road CI engine standards..	N	
93115.6(a)(3)(C)	New Engines: District may establish more stringent limits and standards	N	
93115.10	ATCM for Stationary CI Engines – Recordkeeping, Reporting, and Monitoring Requirements	N	
93115.10(d)	Monitoring Equipment	N	
93115.10(d)(1)	Install non-resettable hour meter with minimum display of 9,999 hours (S-1488 only)	N	
93115.10(d)(3)	District may require additional monitoring	N	
93115.10(f)	Reporting Requirements for Emergency Standby Engines	N	
93115.15	Severability	N	
<b>40 CFR 60 Subpart III</b>	<b>Standards of Performance for Stationary Compression Ignition Internal Combustion Engines (7/11/2006)</b>		
60.4200	Applicability	Y	
60.4200(a)	Applicable to owners/operators of stationary compression ignition (CI) internal combustion engines (ICE)	Y	

## IV. Source-Specific Applicable Requirements

**Table IV – C.3.7**  
**Source-specific Applicable Requirements**  
**S1552--NO 1 PUMP STATION WATER PUMP ENGINE; DIESEL FIRED**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.4200(a)(2)	Stationary CI ICE that were constructed after 7/11/2005 where	Y	
60.4200(a)(2)(i)	Manufactured April 1, 2006 and are not fire pump engines	Y	
60.4205	Emission standards for emergency stationary CI ICE	Y	
60.4205(a)	Pre-2007 model year and later emergency CI ICE with displacement less than 10 liters per cylinder that are not fire pump engines must meet emission standards In Table 1 of Subpart IIII	Y	
60.4206	Meet Table 4 emission standards for the life of the engine	Y	
60.4207	Fuel requirements for stationary CI ICE	Y	
60.4207(a)	Use diesel fuel that meets the requirements of 40 CFR 80.510(a)	Y	
60.4207(b)	Use diesel fuel that meets the requirements of 40 CFR 80.510(b) for nonroad diesel fuel	Y	
60.4207(c)	Option to petition EPA to use remaining non-compliant fuel	Y	
60.4209	Monitoring requirements for stationary CI ICE	Y	
60.4209(a)	Install a non-resettable hour meter prior to the startup of an emergency engine	Y	
60.4211(a)	Operate and maintain stationary CI ICE and control device per manufacturer's written instructions.	Y	
60.4211(b)	Compliance demonstration requirements	Y	
60.4211(e)	Operation for maintenance and readiness checks are limited to 100 hours per year. No limit on emergency use. Any operation other than for maintenance, readiness checks, or emergencies is prohibited.	Y	
60.4212	Compliance requirements for stationary compression ignition ICE	Y	
60.4214	Notification, reporting, and recordkeeping requirements for stationary CI ICE	Y	
60.4214(b)	Initial notification is not required for emergency engines.	Y	
<b>40 CFR 63 Subpart ZZZZ</b>	<b>NESHAPS for Stationary Reciprocating Internal Combustion Engines (3/3/2010)</b>		
63.6585	Applicability stationary RICE at a major or area source of HAP emissions	Y	
63.6585(a)	Definition: stationary RICE	Y	
63.6585(b)	Definition: major source of HAPs	Y	
63.6590	Affected sources	Y	
63.6590(a)	Affected source is any existing, new, or reconstructed stationary RICE located at major source of HAP emissions	Y	
63.6590(a)(2)	A New stationary RICE is:	Y	
63.6590(a)(2)(ii)	Rating < 500 bhp located at major source of HAP emissions, constructed on or after 6/12/2006	Y	
63.6590(c)(6)	New Emergency Stationary RICE <= 500 bhp are subject only to 40 CFR 60 Subpart IIII for compression ignition engines	Y	

#### IV. Source-Specific Applicable Requirements

**Table IV – C.3.7**  
**Source-specific Applicable Requirements**  
**S1552--NO 1 PUMP STATION WATER PUMP ENGINE; DIESEL FIRED**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<b>BAAQMD Condition 23811</b>			
Part 1	Hours of operation limit for reliability-related activities [basis: "Stationary Diesel Engine ATCM" CA Code of Regulations, Title 17, Section 93115.6(b)(3)(A)2b and Section 93115.6(a)(3)(A)1c	Y	
Part 2	Emergency use [basis: Regulation 9-8-330, "Stationary Diesel Engine ATCM" CA Code of Regulations, Title 17, Section 93115.4(29)	Y	
Part 3	Totalizing Meter [basis: "Stationary Diesel Engine ATCM" CA Code of Regulations, Title 17, Section 93115.10(d)(1)	Y	
Part 4	Recordkeeping [basis: Regulation 9-8-530, "Stationary Diesel Engine ATCM" CA Code of Regulations, Title 17, Section 93115.10(f)	Y	

## IV. Source-Specific Applicable Requirements

**Table IV – C.3.8**  
**Source-specific Applicable Requirements**  
**S1557-- EMERGENCY STANDBY GENERATOR ENGINE; DIESEL FIRED**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<b>BAAQMD Regulation 6 Rule 1</b>	<b>Particulate Matter; General Requirements (12/05/2007)</b>		
6-1-303	Ringelmann Number 2 Limitation	N	
6-1-303.1	For emergency Standby Engines	N	
6-1-305	Visible Particles	N	
6-1-310	Particulate Weight Limitation	N	
6-1-401	Appearance of Emissions	N	
6-1-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions	N	
<b>SIP Regulation 6</b>	<b>Particulate Matter and Visible Emissions (09/04/1998)</b>		
6-303	Ringelmann Number 2 Limitation	Y	
6-303.1	For emergency Standby Engines	Y	
6-305	Visible Particles	Y	
6-310	Particulate Weight Limitation	Y	
6-401	Appearance of Emissions	Y	
6-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions	Y	
<b>BAAQMD Regulation 9 Rule 1</b>	<b>Inorganic Gaseous Pollutants - Sulfur Dioxide (03/15/1995)</b>		
9-1-301	Limitations on Ground Level Concentrtrions	Y	
9-1-302	General Emission Limitations	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 (07/25/2007)</b>		
9-8-110	Exemptions	N	
9-8-110.5	Exemption, Emergency Standby Engines	N	
9-8-330	Emergency Standby Engines, Hours of Operation	N	
9-8-330.1	Emergency Standby Engines, Hours of Operation	N	
9-8-330.2	Emergency Standby Engines, Hours of Operation	N	
9-8-330.3	Emergency Standby Engines, Hours of Operation	N	
9-8-502	Recordkeeping	N	
9-8-502.1	Monthly records of usage	N	
9-8-530	Emergency Standby Engines, Monitoring and Recordkeeping	N	
9-8-530.1	Emergency Standby Engines, Monitoring and Recordkeeping	N	

## IV. Source-Specific Applicable Requirements

**Table IV – C.3.8**  
**Source-specific Applicable Requirements**  
**S1557-- EMERGENCY STANDBY GENERATOR ENGINE; DIESEL FIRED**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
9-8-530.2	Emergency Standby Engines, Monitoring and Recordkeeping	N	
9-8-530.3	Emergency Standby Engines, Monitoring and Recordkeeping	N	
<b>CARB ATCM</b>	<b>Stationary Diesel Engine ATCM Section 93115, Title 17, CA Code of Regulations – Requirements for New Diesel-Fired Emergency Standby Fire-Pump Assemblies (Installed after January 1, 2005)</b>		
93115.1	Purpose	N	
93115.2	Applicability	N	
93115.4	Definitions	N	
93115.4(50)	New or New CI Engine – installed after January 1, 2005 or a 2004 or 2005 model year engine purchased prior to January 1, 2005 for use in California or reconstructed after January 1, 2005	N	
93115.5	Fuel and Fuel Additive Requirements for New and In-Use Stationary CI Engines That Have a Rated Brake Horsepower of Greater than 50 (> bhp)	N	
93115.5(a)	Fuel and Fuel Additive Requirements: New stationary compression ignition engine requirements	N	
93115.5(a)(1)	Must use CARB Diesel Fuel	N	
93115.6	ATCM for Stationary CI Engines – Emergency Standby Diesel-Fueled CI Engine (>50 bhp) Operating Requirements and Emission Standards	N	
93115.6(a)	New Emergency Standby Diesel-Fueled Compression Engine (> 50 bhp) Operating Requirements and Emission Standards	N	
93115.6(a)(3)	New Engines	N	
93115.6(a)(3)(A)	New Engines : Diesel PM Standard & Hours of Operation	N	
93115.6(a)(3)(A)(1)	General Requirements – meet the more stringent of diesel PM standards in (a) and (b) and comply with (c)	N	
93115.6(a)(3)(A)(1)(a)	DPM <= 0.15 g/bhp-hr OR	N	
93115.6(a)(3)(A)(1)(b)	Meet DPM standard in 13CCR 2423	N	
93115.6(a)(3)(A)(1)(c)	Hours of Operation: 50 hrs/yr maintenance and testing. No limit for emergency and emission testing for compliance with this regulation	N	
93115.6(a)(3)(A)(2)	Alternate Requirements – Allowed 100 hours/year maintenance and testing if Diesel PM <= 0.01 g/bhp-hr.	N	
93115.6(a)(3)(B)	New Engines : Hydrocarbon, NMHC, NOx, CO Standards – Off-road Compression-Ignition Engine Standards (13 CCR 2423) or Tier 1 standards in 13 CCR 2423 if no applicable off-road CI engine standards..	N	
93115.6(a)(3)(C)	New Engines: District may establish more stringent limits and standards	N	
93115.10	ATCM for Stationary CI Engines – Recordkeeping, Reporting, and Monitoring Requirements	N	

## IV. Source-Specific Applicable Requirements

**Table IV – C.3.8**  
**Source-specific Applicable Requirements**  
**S1557-- EMERGENCY STANDBY GENERATOR ENGINE; DIESEL FIRED**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
93115.10(d)	Monitoring Equipment	N	
93115.10(d)(1)	Install non-resettable hour meter with minimum display of 9,999 hours (S-1488 only)	N	
93115.10(d)(3)	District may require additional monitoring	N	
93115.10(f)	Reporting Requirements for Emergency Standby Engines	N	
93115.15	Severability	N	
<b>40 CFR 60 Subpart III</b>	<b>Standards of Performance for Stationary Compression Ignition Internal Combustion Engines (7/11/2006)</b>		
60.4200	Applicability	Y	
60.4200(a)	Applicable to owners/operators of stationary compression ignition (CI) internal combustion engines (ICE)	Y	
60.4200(a)(2)	Stationary CI ICE that were constructed after 7/11/2005 where	Y	
60.4200(a)(2)(i)	Manufactured April 1, 2006 and are not fire pump engines	Y	
60.4200(a)(4)	Provisions of 60.4208 of this subpart are applicable to owner/operators of stationary CI ICE that commence construction after 7/11/05.	Y	
60.4202(a)	Stationary IC ICE manufacturers must certify 2007 and later emergency CI ICE with maximum engine power <= 3,000 bhp and a displacement < 10 L/cylinder that are not fire pump engines. This requirement is via 60.4205(b).	Y	
60.4202(a)(2)	For engines with maximum engine power >= 50 bhp, the certification emission standards are listed on 40 CFR 89.112 and 40 CFR 89.113. This requirement is via 60.4205(b).	Y	
60.4205	Emission standards for emergency stationary CI ICE	Y	
60.4205(b)	2007 model year and later emergency CI ICE with displacement less than 30 liters per cylinder that are not fire pump engines must meet emission standards for new non-road CI engines in 60.4202 for all pollutants for same model year and maximum engine power	Y	
60.4206	Meet emission standards for the life of the engine	Y	
60.4207	Fuel requirements for stationary CI ICE	Y	
60.4207(a)	Use diesel fuel that meets the requirements of 40 CFR 80.510(a)	Y	
60.4207(b)	Use diesel fuel that meets the requirements of 40 CFR 80.510(b) for nonroad diesel fuel	Y	
60.4209	Monitoring requirements for stationary CI ICE	Y	
60.4209(a)	Install a non-resettable hour meter prior to the startup of an emergency engine	Y	
60.4211	Compliance requirements for owners/operators	Y	
60.4211(a)	Operate and maintain stationary CI ICE and control device per manufacturer's written instructions.	Y	
60.4211(b)	Compliance demonstration requirements	Y	



## IV. Source-Specific Applicable Requirements

**Table IV – C.3.8**  
**Source-specific Applicable Requirements**  
**S1557-- EMERGENCY STANDBY GENERATOR ENGINE; DIESEL FIRED**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.4211(f)	Operation for maintenance and readiness checks are limited to 100 hours per year. No limit on emergency use. Any operation other than for maintenance, readiness checks, or emergencies is prohibited.	Y	
60.4212	Compliance requirements for stationary compression ignition ICE	Y	
60.4214	Notification, reporting, and recordkeeping requirements for stationary CI ICE	Y	
60.4214(b)	Initial notification is not required for emergency engines.	Y	
<b>40 CFR 63 Subpart ZZZZ</b>	<b>NESHAPS for Stationary Reciprocating Internal Combustion Engines (3/3/2010)</b>		
63.6585	Applicability stationary RICE at a major or area source of HAP emissions	Y	
63.6585(a)	Definition: stationary RICE	Y	
63.6585(b)	Definition: major source of HAPs	Y	
63.6590	Affected sources	Y	
63.6590(a)	Affected source is any existing, new, or reconstructed stationary RICE located at major source of HAP emissions	Y	
63.6590(a)(2)	A New stationary RICE is:	Y	
63.6590(a)(2)(ii)	Rating < 500 bhp located at major source of HAP emissions, constructed on or after 6/12/2006	Y	
63.6590(b)	Stationary RICE subject to limited requirements	Y	
63.6590(b)(1)	Affected source which meets criteria in paragraphs (b)(1)(i) through (ii) does not have to meet requirements of this subpart and of subpart A except for initial notification requirements of 63.6645(f)	Y	
<b>BAAQMD Condition 23811</b>			
Part 1	Hours of operation limit for reliability-related activities [basis: "Stationary Diesel Engine ATCM" CA Code of Regulations, Title 17, Section 93115.6(b)(3)(A)2b and Section 93115.6(a)(3)(A)1c	Y	
Part 2	Emergency use [basis: Regulation 9-8-330, "Stationary Diesel Engine ATCM" CA Code of Regulations, Title 17, Section 93115.4(29)	Y	
Part 3	Totalizing Meter [basis: "Stationary Diesel Engine ATCM" CA Code of Regulations, Title 17, Section 93115.10(d)(1)	Y	
Part 4	Recordkeeping [basis: Regulation 9-8-530, "Stationary Diesel Engine ATCM" CA Code of Regulations, Title 17, Section 93115.10(f)	Y	

## IV. Source-Specific Applicable Requirements

### SECTION C.4 COMBUSTION - PROCESS HEATERS AND FURNACES

**Table IV –C.4.1**  
**Source-specific Applicable Requirements**  
**S902-FCC START –UP HEATER,**  
**NSPS SUBPART J BY CONSENT DECREE CONDITION 23562**

<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 1</b>	<b>General Provisions and Definitions (07/19/2006)</b>		
1-520	Continuous Emission Monitoring	Y	
1-520.8	monitors pursuant to Regulation 2-1-403	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	
1-522.9	recordkeeping requirements	Y	
1-522.10	monitors required by Sections 1-521 or 2-1-403 shall meet the requirements specified by the APCO Continuous Emission Monitoring and Recordkeeping Procedures	Y	
1-602	Area and Continuous Monitoring Requirements	N	
<b>SIP Regulation 1</b>	<b>General Provisions and Definitions (06/28/1999)</b>		
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	Y	
1-522.7	Excesses	Y	
<b>BAAQMD Regulation 6 Rule 1</b>	<b>Particulate Matter; General Requirements (12/05/2007)</b>		
6-1-301	Ringelmann No. 1 Limitation	N	
6-1-305	Visible Particles	N	
6-1-310	Particle Weight Limitation	N	
6-1-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions	N	
<b>SIP Regulation 6</b>	<b>Particulate Matter and Visible Emissions (09/04/1998)</b>		
6-301	Ringelmann No. 1 Limitation	Y	

## IV. Source-Specific Applicable Requirements

**Table IV –C.4.1**  
**Source-specific Applicable Requirements**  
**S902-FCC START –UP HEATER,**  
**NSPS SUBPART J BY CONSENT DECREE CONDITION 23562**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
6-305	Visible Particles	Y	
6-310	Particle Weight Limitation	Y	
6-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions	Y	
<b>BAAQMD Regulation 10</b>	<b>Standards of Performance for New Stationary Sources incorporated by reference (02/16/2000)</b> Applicability specified in Condition 23562		
10-14	Subpart J – Standards of Performance for Petroleum Refineries	Y	
<b>BAAQMD Manual of Procedures, Volume V</b>	<b>Continuous Emission Monitoring Policy and Procedures (01/20/1982)</b>	N	
<b>40 CFR 60 Subpart J</b>	<b>NSPS - Standards of Performance for Petroleum Refineries (06/24/2008)</b> <b>Applicability specified in Condition 23562</b>		
60.104	Standards for sulfur oxides	Y	
60.104(a)(1)	Limit on hydrogen sulfide content in fuel gas burned in fuel gas combustion devices	Y	
60.105	Monitoring of Emissions and Operations	Y	
60.105(a)	Continuous monitoring system requirements	Y	
60.105(a)(4)	Monitoring requirements for H2S (dry basis) in fuel gas prior to combustion (in lieu of separate combustion device exhaust SO2 monitors as required by 60.105(a)(3))	Y	
60.105(a)(4)(i)	Span value for H2S monitoring is 425 mg/dscm H2S	Y	
60.105(a)(4)(ii)	Fuel gas combustion devices having a common source of fuel gas may be monitored at only one location	Y	
60.105(a)(4)(iii)	Use Performance Specification 7 for performance evaluations and Method 11, 15, 15A, or 16 for relative accuracy evaluations	Y	
60.105(e)	Periods of excess emissions for 60.7(c)	Y	
60.105(e)(3)	Excess emissions of sulfur dioxide from fuel gas combustion	Y	
60.105(e)(3)(ii)	excess H2S in fuel gas as measured under 60.105(a)(4)	Y	
60.106	Test Methods and Procedures	Y	
60.106(a)	Performance test requirements	Y	
60.106(e)(1)	Compliance determination for H2S standards for fuel gas combustion devices	Y	

## IV. Source-Specific Applicable Requirements

**Table IV –C.4.1  
 Source-specific Applicable Requirements  
 S902-FCC START –UP HEATER,  
 NSPS SUBPART J BY CONSENT DECREE CONDITION 23562**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
60.107	Reporting and recordkeeping requirements	Y	
60.107(f)	Semiannual reporting	Y	
60.107(g)	Certification of semiannual report	Y	
<b>40 CFR 60 Appendix B</b>	<b>NSPS - Title 40 Part 60 Appendix B – Performance Specifications (10/17/2000)</b>		
Performance Specification 7	Specifications and Test Procedures for Hydrogen Sulfide Continuous Emission Monitoring Systems in Stationary Sources	Y	
<b>40 CFR 60 -Appendix F</b>	<b>NSPS Title 40 Part 60 Appendix F – Quality Assurance Procedures (06/13/2007)</b> Applicability specified in Condition 23562		
Procedure 1	QA Requirements for Gas Continuous Emission Monitoring Systems	Y	
<b>BAAQMD Condition 23562</b>			
Part 1	NSPS J applicability and SSM requirements for fuel gas combustion devices. (Basis: NSPS Subparts A and J, EPA Consent Decree paragraphs 12, 117, 118, and 122.)	Y	
Part 2	Exemption from NSPS A and J notification requirements. (Basis: EPA Consent Decree paragraph 120.)	Y	
Part 3	Use CEMS or approved AMP to demonstrate compliance with NSPS Subpart J emission limit. (Basis: EPA Consent Decree paragraph 121.)	Y	
Part 4	CEMS accuracy test requirements. (Basis: EPA Consent Decree paragraph 121.)	Y	

## IV. Source-Specific Applicable Requirements

**Table IV – C.4.2  
 Source-specific Applicable Requirements**

**S908-No. 8 FURNACE, S909-No. 9 FURNACE, S912-No. 12 FURNACE, S913-No. 13 FURNACE, S915-No. 15 FURNACE, S916-No. 16 FURNACE, S920-No. 20 FURNACE, S921-No. 21 FURNACE, S922-No. 22 FURNACE, S926-No. 26 FURNACE, S927-No. 27 FURNACE, S928-No. 28 FURNACE, S-929-No. 29 FURNACE, S930-No. 30 FURNACE, S931-No. 31 FURNACE, S932-No. 32 FURNACE, S933-No. 33 FURNACE, S934-No. 34 FURNACE, S935-No. 35 FURNACE, S937-No. 1 HYDROGEN PLANT FURNACE, NSPS SUBPART J BY CONSENT DECREE CONDITION 23562**

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 (07/19/2006) Applies to all sources</b>		
1-520	Continuous Emission Monitoring	Y	
1-520.8	Monitors pursuant to Regulations 10, 12 and 2-1-403	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	
1-522.9	recordkeeping requirements	Y	
1-522.10	monitors required by Sections 1-521 or 2-1-403 shall meet the requirements specified by the APCO Continuous Emission Monitoring and Recordkeeping Procedures	Y	
1-523	Parametric Monitoring and Recordkeeping Procedures	N	
1-523.1	Report periods of parametric monitor inoperation	Y	
1-523.2	Limits on periods of parametric monitor inoperation	Y	
1-523.3	Report exceedances	N	
1-523.4	Recordkeeping	Y	
1-523.5	Maintenance and calibration; written policy	Y	
1-602	Area and Continuous Monitoring Requirements	N	
<b>SIP Regulation 1</b>	<b>General Provisions and Definitions (06/28/1999)</b>		
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	Y	
1-522.7	Excesses	Y	
1-523	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.3	Report exceedances	Y	

## IV. Source-Specific Applicable Requirements

**Table IV – C.4.2**  
**Source-specific Applicable Requirements**

**S908-No. 8 FURNACE, S909-No. 9 FURNACE, S912-No. 12 FURNACE, S913-No. 13 FURNACE, S915-No. 15 FURNACE, S916-No. 16 FURNACE, S920-No. 20 FURNACE, S921-No. 21 FURNACE, S922-No. 22 FURNACE, S926-No. 26 FURNACE, S927-No. 27 FURNACE, S928-No. 28 FURNACE, S-929-No. 29 FURNACE, S930-No. 30 FURNACE, S931-No. 31 FURNACE, S932-No. 32 FURNACE, S933-No. 33 FURNACE, S934-No. 34 FURNACE, S935-No. 35 FURNACE, S937-No. 1 HYDROGEN PLANT FURNACE, NSPS SUBPART J BY CONSENT DECREE CONDITION 23562**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<b>BAAQMD Regulation 6 Rule 1</b>	<b>Particulate Matter; General Requirements (12/07/2007)</b>		
6-1-301	Ringelmann No. 1 Limitation	N	
6-1-305	Visible Particles	N	
6-1-310	Particle Weight Limitation	N	
6-1-310.3	Heat transfer operations	N	
6-1-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions	N	
<b>SIP Regulation 6</b>	<b>Particulate Matter and Visible Emissions (09/04/1998)</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	
6-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions	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 (07/17/2002)</b>		
9-10-301	Emission Limit for Facility, NOx: 0.033 lb NOx/MMBTU	N	
9-10-303	Federal Interim Facility-wide NOx emission rate limit	Y	
9-10-305	CO emission limit	N	
9-10-502	Monitoring for sources subject to 9-10-301, 303, 304, and 305	N	
9-10-502.1	CEMS for NOx, CO, and O2	N	
9-10-502.2	Fuel flowmeters	N	
9-10-504	Recordkeeping	N	
9-10-504.1	Recordkeeping for sources subject to 9-10-301, 304, or 305, or effective 7/17/2007, 9-10-303	N	
9-10-505	Reporting for sources subject to 9-10-301, 303, 304, 305, and/or 306	N	
9-10-601	Determination of Nitrogen Oxides	Y	
9-10-602	Determination of Carbon Monoxide and Stack-Gas Oxygen	N	

**IV. Source-Specific Applicable Requirements**

**Table IV – C.4.2  
 Source-specific Applicable Requirements**

**S908-No. 8 FURNACE, S909-No. 9 FURNACE, S912-No. 12 FURNACE, S913-No. 13 FURNACE, S915-No. 15 FURNACE, S916-No. 16 FURNACE, S920-No. 20 FURNACE, S921-No. 21 FURNACE, S922-No. 22 FURNACE, S926-No. 26 FURNACE, S927-No. 27 FURNACE, S928-No. 28 FURNACE, S-929-No. 29 FURNACE, S930-No. 30 FURNACE, S931-No. 31 FURNACE, S932-No. 32 FURNACE, S933-No. 33 FURNACE, S934-No. 34 FURNACE, S935-No. 35 FURNACE, S937-No. 1 HYDROGEN PLANT FURNACE, NSPS SUBPART J BY CONSENT DECREE CONDITION 23562**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
9-10-603	Compliance Determination	Y	
9-10-604	Determination of Higher Heating Value	Y	
<b>SIP Regulation 9 Rule 10</b>	<b>Inorganic Gaseous Pollutants – Nitrogen Oxides and Carbon Monoxide from Boilers, Steam Generators, and Process Heaters in Petroleum Refineries (04/12/2008)</b>		
9-10-502	Monitoring for sources subject to 9-10-303	Y	
9-10-504.1	Recordkeeping for sources subject to 9-10-303	Y	
9-10-505	Reporting requirements for sources subject to 9-10-303 and/or 306	Y	
<b>BAAQMD Regulation 10</b>	<b>Standards of Performance for New Stationary Sources incorporated by reference (02/16/2000) Applicability specified in Condition 23562</b>		
10-14	Subpart J – Standards of Performance for Petroleum Refineries	Y	
<b>BAAQMD Manual of Procedures, Volume V</b>	<b>Continuous Emission Monitoring Policy and Procedures (01/20/1982)</b>	N	
<b>40 CFR 60 Subpart J</b>	<b>NSPS – Standards of Performance for Petroleum Refineries (06/24/2008) Applicability specified in Condition 23562</b>		
60.104	Standards for sulfur oxides	Y	
60.104(a)(1)	Limit on hydrogen sulfide content in fuel gas burned in fuel gas combustion devices	Y	
60.105	Monitoring of Emissions and Operations	Y	
60.105(a)	Continuous monitoring system requirements	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(a)(4)(i)	Span value for H <sub>2</sub> S monitoring is 425 mg/dscm H <sub>2</sub> S	Y	
60.105(a)(4)(ii)	Fuel gas combustion devices having a common source of fuel gas may be monitored at only one location	Y	
60.105(a)(4)(iii)	Use Performance Specification 7 for performance evaluations and Method 11, 15, 15A, or 16 for relative accuracy evaluations	Y	

**IV. Source-Specific Applicable Requirements**

**Table IV – C.4.2  
 Source-specific Applicable Requirements**

**S908-No. 8 FURNACE, S909-No. 9 FURNACE, S912-No. 12 FURNACE, S913-No. 13 FURNACE, S915-No. 15 FURNACE, S916-No. 16 FURNACE, S920-No. 20 FURNACE, S921-No. 21 FURNACE, S922-No. 22 FURNACE, S926-No. 26 FURNACE, S927-No. 27 FURNACE, S928-No. 28 FURNACE, S-929-No. 29 FURNACE, S930-No. 30 FURNACE, S931-No. 31 FURNACE, S932-No. 32 FURNACE, S933-No. 33 FURNACE, S934-No. 34 FURNACE, S935-No. 35 FURNACE, S937-No. 1 HYDROGEN PLANT FURNACE, NSPS SUBPART J BY CONSENT DECREE CONDITION 23562**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
60.105(e)	Periods of excess emissions for 60.7(c)	Y	
60.105(e)(3)	Excess emissions of sulfur dioxide from fuel gas combustion	Y	
60.105(e)(3)(ii)	excess H2S in fuel gas as measured under 60.105(a)(4)	Y	
60.106	Test Methods and Procedures	Y	
60.106(a)	Performance test requirements	Y	
60.106(e)(1)	Compliance determination for H2S standards for fuel gas combustion devices	Y	
60.107	Reporting and recordkeeping requirements	Y	
60.107(f)	Semiannual reporting	Y	
60.107(g)	Certification of semiannual report	Y	
<b>40 CFR 60 Appendix B</b>	<b>NSPS Title 40 Part 60 Appendix B – Performance Specifications (10/17/2000)</b>		
Performance Specification 7	Specifications and Test Procedures for Hydrogen Sulfide Continuous Emission Monitoring Systems in Stationary Sources	Y	
<b>40 CFR 60 Appendix F</b>	<b>NSPS – Title 40 Part 60 Appendix F – Quality Assurance Procedures (06/13/2007)</b> Applicability specified in Condition 23562		
Procedure 1	QA Requirements for Gas Continuous Emission Monitoring Systems	Y	
<b>BAAQMD Condition 677</b>	For S937 Only		
Part 1	NOx emissions, calculated as NO2, must not exceed 1,430 lb/stream day or 1,089 lb/calendar day (basis: cumulative increase, Bubble Condition 4357/8077 via Application 19647)	Y	
Part 2	NOx/O2 CEM requirement (basis: cumulative increase, Bubble Condition 4357/8077 via Application 19647)	Y	
<b>BAAQMD Condition 8077</b>			
Part B1	Definitions (basis: definitions)	Y	
Part B2	Emissions (basis: cumulative increase, BACT, offsets)	Y	
Part B3	Emission reductions (basis: cumulative increase, offsets, bubble	Y	



## IV. Source-Specific Applicable Requirements

**Table IV – C.4.2**  
**Source-specific Applicable Requirements**

**S908-No. 8 FURNACE, S909-No. 9 FURNACE, S912-No. 12 FURNACE, S913-No. 13 FURNACE, S915-No. 15 FURNACE, S916-No. 16 FURNACE, S920-No. 20 FURNACE, S921-No. 21 FURNACE, S922-No. 22 FURNACE, S926-No. 26 FURNACE, S927-No. 27 FURNACE, S928-No. 28 FURNACE, S-929-No. 29 FURNACE, S930-No. 30 FURNACE, S931-No. 31 FURNACE, S932-No. 32 FURNACE, S933-No. 33 FURNACE, S934-No. 34 FURNACE, S935-No. 35 FURNACE, S937-No. 1 HYDROGEN PLANT FURNACE, NSPS SUBPART J BY CONSENT DECREE CONDITION 23562**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part B4	Monitoring	Y	
Part B4B	Monitoring – NOx/O2 CEM (basis: cumulative increase, offsets) (S-908, S-922 S-934, and S-935 only)	Y	
Part B4C	Monitoring – Fuel Usage (basis: cumulative increase, offsets)	Y	
Part B4D	Monitoring per Table D of Appendix to this permit condition (cumulative increase, offsets) (All except for S-915, S-926, and S-927)	Y	
Part B5	Reporting and Record Keeping (cumulative increase, offsets)	Y	
Part B7A	NOx, CO emission limits (basis: cumulative increase, offsets, BACT) (S-908, S-922, S-927, S-934, and S-935 only)	Y	
Part B7C	NOx emissions < 160 lb/BBtu (basis: cumulative increase, offsets)	Y	
Part B7D	NOx Source Tests Requirements (basis: cumulative increase, offsets)	Y	
Part B10	Access (cumulative increase, offsets)	Y	
Part B11	Enforcement (basis: cumulative increase, offsets)	Y	
Part B12	Miscellaneous (basis: cumulative increase, offsets)	Y	
Part B12C	Maintain equipment in good working order (basis: cumulative increase, offsets)	Y	
Part B12D	Nothing in this condition shall be construed to allow violation of any other law or regulation (basis: cumulative increase, offsets)	Y	
Part B12E	Emission reductions required by this condition shall not be eligible for banking or credited as emission reductions against cumulative increases (basis: cumulative increase, offsets)	Y	
Part B12F	Annual limits in B2 shall be adjusted consistent with BAAQMD rule changes (basis: cumulative increase, offsets)	Y	
Part B12G	Baseline emissions (basis: cumulative increase, offsets)	Y	
Part B12J	Instrument downtime (basis: cumulative increase, offsets)	Y	
Part B12K	Breakdowns, malfunctions, and other causes for emission exceedances (basis: cumulative increase, offsets)	Y	
Part B12L	Adjustment of CO limits based on modeling (basis: cumulative increase, offsets)	Y	
Part B13	Severability (basis: cumulative increase, offsets)	Y	
Part B14	Environmental Management Plan (basis: cumulative increase, offsets)	Y	

## IV. Source-Specific Applicable Requirements

**Table IV – C.4.2**  
**Source-specific Applicable Requirements**

**S908-No. 8 FURNACE, S909-No. 9 FURNACE, S912-No. 12 FURNACE, S913-No. 13 FURNACE, S915-No. 15 FURNACE, S916-No. 16 FURNACE, S920-No. 20 FURNACE, S921-No. 21 FURNACE, S922-No. 22 FURNACE, S926-No. 26 FURNACE, S927-No. 27 FURNACE, S928-No. 28 FURNACE, S-929-No. 29 FURNACE, S930-No. 30 FURNACE, S931-No. 31 FURNACE, S932-No. 32 FURNACE, S933-No. 33 FURNACE, S934-No. 34 FURNACE, S935-No. 35 FURNACE, S937-No. 1 HYDROGEN PLANT FURNACE, NSPS SUBPART J BY CONSENT DECREE CONDITION 23562**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part C3	Firing rate limits for S-928 through S-933 (basis: cumulative increase)	Y	
Part C4	Firing rate limits for S-934 and S-935 (basis: cumulative increase)	Y	
<b>BAAQMD Condition 13605</b>	(S-908, S-909, S-912 Only)		
Part 4	40 # fuel gas system destruction efficiency source test every 5 years in the year prior to 5-year Title V renewal (basis: Cumulative Increase, Toxic Risk Screen, Offsets, Regulation 1-238)	Y	
<b>BAAQMD Condition # 16685</b>			
Part 1	Daily Firing rate limitations (basis: cumulative increase, , Regulation 2-1-403, Bubble Condition 4357/8077 for S917 via Application 19647)	Y	
<b>BAAQMD Condition 18372</b>			
Part 2	Natural Gas or Refinery Fuel Gas only (Basis: Regulation 9, Rule 10) (S-912, S-913, S-916, S-920, S-921, S-922, S-926, S-927)	Y	
Part 18	S927 to be abated by A1431, Exhaust gas requires NOx, O2, and CO CEMs (Basis: Regulation 9, Rule 10)	Y	
Part 22	S927 ammonia slip limit 20 ppmv (Basis: toxics)	Y	
Part 27	Sources subject to the refinery-wide NOx limit and the CO concentration limit in Regulation 9-10 (basis: Regulation 9-10-301, 303, & 305)	Y	
Part 28	O2 monitor and record requirement (basis: Regulation 9-10-502) (All except S-915, S-928, S-929, S-930, S-931, S-932, S-933 because they are < 25 mmBtu/hr)	Y	
Part 29	Operating condition requirements for sources without a NOx CEM (basis: Regulation 9-10-502) (S-909, S-912, S-913, S-915, S-916, S-920, S-921, S-926, S-928, S-929, S-930, S-931, S-932, S-933)	Y	

## IV. Source-Specific Applicable Requirements

**Table IV – C.4.2**  
**Source-specific Applicable Requirements**

**S908-No. 8 FURNACE, S909-No. 9 FURNACE, S912-No. 12 FURNACE, S913-No. 13 FURNACE, S915-No. 15 FURNACE, S916-No. 16 FURNACE, S920-No. 20 FURNACE, S921-No. 21 FURNACE, S922-No. 22 FURNACE, S926-No. 26 FURNACE, S927-No. 27 FURNACE, S928-No. 28 FURNACE, S-929-No. 29 FURNACE, S930-No. 30 FURNACE, S931-No. 31 FURNACE, S932-No. 32 FURNACE, S933-No. 33 FURNACE, S934-No. 34 FURNACE, S935-No. 35 FURNACE, S937-No. 1 HYDROGEN PLANT FURNACE, NSPS SUBPART J BY CONSENT DECREE CONDITION 23562**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
Part 30	NOx box establishment requirements (basis: Regulation 9-10-502) (S-909, S-912, S-913, S-915, S-916, S-920, S-921, S-926, S-928, S-929, S-930, S-931, S-932, S-933)	Y	
Part 31	NOx box ranges (basis: Regulation 9-10-502) (S-909, S-912, S-913, S-915, S-916, S-920, S-921, S-926, S-928, S-929, S-930, S-931, S-932, S-933)	Y	
Part 32	NOx Box Deviations (basis: Regulation 9-10-502) (S-909, S-912, S-913, S-915, S-916, S-920, S-921, S-926, S-928, S-929, S-930, S-931, S-932, S-933)	Y	
Part 33	Source test requirements (basis: Regulation 9-10-502) (S-909, S-912, S-913, S-915, S-916, S-920, S-921, S-926, S-928, S-929, S-930, S-931, S-932, S-933)	Y	
Part 33.A.1	Annual source test (S-915, S-928, S-929, S-930, S-931, S-932, S-933)	Y	
Part 33.A.2	Semiannual source test (S-909, S-912, S-913, S-916, S-920, S-921, S-926)	Y	
Part 33.A.3	Period allowed between source tests (S-909, S-912, S-913, S-915, S-916, S-920, S-921, S-926, S-928, S-929, S-930, S-931, S-932, S-933)	Y	
Part 33.B	Source test results > NOx box factor	Y	
Part 34	CO source test (basis: Regulation 9-10-502, 1-522) (S-908, S-922, S-934, S-935, S-927, S-937)	Y	
Part 35	CO results requires CEM (basis: Regulation 9-10-502, 1-522) (All except for S-915, S-928, S-929, S-930, S-931, S-932, S-933 because they are < 25 mmBtu/hr and S-927 because it has a CO CEM)	Y	
Part 36	Source test records (basis: recordkeeping; Regulation 9-10-504)	Y	
<b>BAAQMD Condition 18539</b>	S-908 only		
Part 8	NOx and O2 CEMS requirement (basis: cumulative increase, BACT, offsets)	Y	

## IV. Source-Specific Applicable Requirements

**Table IV – C.4.2**

**Source-specific Applicable Requirements**

**S908-No. 8 FURNACE, S909-No. 9 FURNACE, S912-No. 12 FURNACE, S913-No. 13 FURNACE, S915-No. 15 FURNACE, S916-No. 16 FURNACE, S920-No. 20 FURNACE, S921-No. 21 FURNACE, S922-No. 22 FURNACE, S926-No. 26 FURNACE, S927-No. 27 FURNACE, S928-No. 28 FURNACE, S-929-No. 29 FURNACE, S930-No. 30 FURNACE, S931-No. 31 FURNACE, S932-No. 32 FURNACE, S933-No. 33 FURNACE, S934-No. 34 FURNACE, S935-No. 35 FURNACE, S937-No. 1 HYDROGEN PLANT FURNACE, NSPS SUBPART J BY CONSENT DECREE CONDITION 23562**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
Part 16	Ammonia slip limit for A-908 of 20 ppmv, dry at 3% O2 (basis: toxics, cumulative increase, offsets, Bubble Condition 8077 per Application 19647))	Y	
Part 18	Recordkeeping (basis: cumulative increase, offsets)	Y	
Part 18A	Annual maximum firing rate (basis: cumulative increase)	Y	
<b>BAAQMD Condition 20099</b>	(S-908, S-909, S-912 Only)		
Part 6	40 # fuel gas system destruction efficiency source test of S-532 oil-water separator tank every 5 years in the year prior to 5-year Title V renewal (basis: Cumulative Increase, Toxic Risk Screen, Offsets, Regulation 1-238)	Y	
<b>BAAQMD Condition 21053</b>	(S-908, S-909, S-912 Only)		
Part 7	40 # fuel gas system destruction efficiency source test every 5 years in the year prior to 5-year Title V renewal	Y	
<b>BAAQMD Condition 21100</b>	(S-908, S-909, S-912 Only)		
Part 4	40 # fuel gas system destruction efficiency source test every 5 years in the year prior to 5-year Title V renewal (basis: Cumulative Increase, Toxic Risk Screen, Offsets, Regulation 1-238)	Y	
<b>BAAQMD Condition 21186</b>	S916 only		
Part 1	Sample fuel gas for total reduced sulfur (TDS) (basis: cumulative increase, BACT, offsets, Regulation 2-1-403)	Y	
Part 2	Analyze and record total reduced sulfur (TDS) (basis: cumulative increase, BACT, offsets Regulation 2-1-403)	Y	

**IV. Source-Specific Applicable Requirements**

**Table IV – C.4.2  
 Source-specific Applicable Requirements**

**S908-No. 8 FURNACE, S909-No. 9 FURNACE, S912-No. 12 FURNACE, S913-No. 13 FURNACE, S915-No. 15 FURNACE, S916-No. 16 FURNACE, S920-No. 20 FURNACE, S921-No. 21 FURNACE, S922-No. 22 FURNACE, S926-No. 26 FURNACE, S927-No. 27 FURNACE, S928-No. 28 FURNACE, S-929-No. 29 FURNACE, S930-No. 30 FURNACE, S931-No. 31 FURNACE, S932-No. 32 FURNACE, S933-No. 33 FURNACE, S934-No. 34 FURNACE, S935-No. 35 FURNACE, S937-No. 1 HYDROGEN PLANT FURNACE, NSPS SUBPART J BY CONSENT DECREE CONDITION 23562**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
Part 3	TRS limit of 300 ppmvd (basis: cumulative increase, BACT, offsets Regulation 2-1-403)	Y	
Part 4	Annual average TRS limit of 281 ppmvd (basis: cumulative increase, BACT, offsets Regulation 2-1-403)	Y	
Part 7	Recordkeeping	Y	
<b>BAAQMD Condition 21849</b>	(S-908, S-909, S-912 Only)		
Part 11.d	40 # fuel gas system destruction efficiency source test every 5 years in the year prior to 5-year Title V renewal (basis: Cumulative Increase, Toxic Risk Screen, Regulation 8-33-301, Regulation 1-238,BACT)	Y	
<b>BAAQMD Condition 22621</b>	<b>S-913 only</b>		
Part 7	Sample 100 pound fuel gas for total sulfur (basis: cumulative increase, offsets, Regulation 2-1-403)	Y	
Part 8	Recordkeeping (basis: cumulative increase, offsets, recordkeeping, Regulation 2-1-403)	Y	
Part 10	Procedure for calculating IERC's (basis: Regulation 9-10-301, Regulation 9-10-502, Regulation 2-9)	Y	
<b>BAAQMD Condition 23562</b>			
Part 1	NSPS J applicability and SSM requirements for fuel gas combustion devices. (Basis: NSPS Subparts A and J, EPA Consent Decree paragraphs 12, 117, 118, and 122.)	Y	
Part 2	Exemption from NSPS A and J notification requirements. (Basis: EPA Consent Decree paragraph 120.)	Y	
Part 3	Use CEMS or approved AMP to demonstrate compliance with NSPS Subpart J emission limit. (Basis: EPA Consent Decree paragraph 121.)	Y	
Part 4	CEMS accuracy test requirements. (Basis: EPA Consent Decree paragraph 121.)	Y	

**IV. Source-Specific Applicable Requirements**

**Table IV – C.4.2  
 Source-specific Applicable Requirements**

**S908-No. 8 FURNACE, S909-No. 9 FURNACE, S912-No. 12 FURNACE, S913-No. 13 FURNACE, S915-No. 15 FURNACE, S916-No. 16 FURNACE, S920-No. 20 FURNACE, S921-No. 21 FURNACE, S922-No. 22 FURNACE, S926-No. 26 FURNACE, S927-No. 27 FURNACE, S928-No. 28 FURNACE, S-929-No. 29 FURNACE, S930-No. 30 FURNACE, S931-No. 31 FURNACE, S932-No. 32 FURNACE, S933-No. 33 FURNACE, S934-No. 34 FURNACE, S935-No. 35 FURNACE, S937-No. 1 HYDROGEN PLANT FURNACE, NSPS SUBPART J BY CONSENT DECREE CONDITION 23562**

<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 Condition 25161</b>	Applies to S-909 and S-912 only		
Part 1	365-day firing rate limitations (Basis: Regulation 2-1-233 and 2-1-403, Application 23341)	Y	
Part 2	Daily Firing rate reporting limitations (Basis: Regulation 2-1-233 and 2-1-403, Application 23341)	Y	
Part 3	Recordkeeping requirement (Basis: Regulation 2-6-501)	Y	

**Table IV – C.4.3  
 Source-specific Applicable Requirements**

**S917 No. 17 FURNACE, S919 No. 19 FURNACE, S951 No. 51 FURNACE, S973–No. 55 FURNACE, S974–No. 56 FURNACE, NSPS SUBPART J BY DATE OF CONSTRUCTION, RECONSTRUCTION, MODIFICATION**

<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 1</b>	<b>General Provisions and Definitions (07/19/2006)</b>		
1-520	Continuous Emission Monitoring	Y	
1-520.8	Monitors pursuant to Regulations 10, 12 and 2-1-403	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	

## IV. Source-Specific Applicable Requirements

**Table IV – C.4.3**  
**Source-specific Applicable Requirements**  
**S917 NO. 17 FURNACE, S919 NO. 19 FURNACE, S951 NO. 51 FURNACE, S973–NO. 55**  
**FURNACE, S974–NO. 56 FURNACE,**  
**NSPS SUBPART J BY DATE OF CONSTRUCTION, RECONSTRUCTION, MODIFICATION**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
1-522.6	CEM accuracy requirements	Y	
1-522.7	emission limit exceedance reporting requirements	N	
1-522.8	monitoring data submittal requirements	Y	
1-522.9	recordkeeping requirements	Y	
1-522.10	monitors required by Sections 1-521 or 2-1-403 shall meet the requirements specified by the APCO	Y	
1-523	Parametric Monitoring and Recordkeeping Procedures	N	
1-523.1	Report periods of parametric monitor inoperation	Y	
1-523.2	Limits on periods of parametric monitor inoperation	Y	
1-523.3	Report exceedances	N	
1-523.4	Recordkeeping	Y	
1-523.5	Maintenance and calibration; written policy	Y	
1-602	Area and Continuous Monitoring Requirements	N	
<b>SIP Regulation 1</b>	<b>General Provisions and Definitions (06/28/1999)</b>		
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	Y	
1-522.7	emission limit exceedance reporting requirements	Y	
1-523	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.3	Report exceedances	Y	
<b>BAAQMD Regulation 6 Rule 1</b>	<b>Particulate Matter; General Requirements (12/05/2007)</b>		
6-1-301	Ringelmann No. 1 Limitation	N	
6-1-305	Visible Particles	N	
6-1-310	Particle Weight Limitation	N	
6-1-310.3	Heat transfer operations	N	
6-1-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions	N	
<b>SIP Regulation 6</b>	<b>Particulate Matter and Visible Emissions (09/04/1998)</b>		
6-301	Ringelmann No. 1 Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particle Weight Limitation	Y	

## IV. Source-Specific Applicable Requirements

**Table IV – C.4.3**  
**Source-specific Applicable Requirements**  
**S917 No. 17 FURNACE, S919 No. 19 FURNACE, S951 No. 51 FURNACE, S973–No. 55**  
**FURNACE, S974–No. 56 FURNACE,**  
**NSPS SUBPART J BY DATE OF CONSTRUCTION, RECONSTRUCTION, MODIFICATION**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
6-310.3	Heat transfer operations	Y	
6-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions	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 (07/17/2002)</b>		
9-10-301	Emission Limit for Facility, NOx: 0.033 lb NOx/MMBTU	N	
9-10-303	Federal Interim Facility-wide NOx emission rate limit	Y	
9-10-305	CO emission limit	N	
9-10-502	Monitoring for sources subject to 9-10-301, 303, 304, and 305	N	
9-10-502.1	CEMS for NOx, CO, and O2	N	
9-10-502.2	Fuel flowmeters	N	
9-10-504	Recordkeeping	N	
9-10-504.1	Recordkeeping for sources subject to 9-10-301, 304, or 305, or effective 7/17/2007, 9-10-303	N	
9-10-505	Reporting for sources subject to 9-10-301, 303, 304, 305, and/or 306	N	
9-10-601	Determination of Nitrogen Oxides	Y	
9-10-602	Determination of Carbon Monoxide and Stack-Gas Oxygen	N	
9-10-603	Compliance Determination	Y	
9-10-604	Determination of Higher Heating Value	Y	
<b>SIP Regulation 9 Rule 10</b>	<b>Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon Monoxide from Boilers, Steam Generators, and Process Heaters in Petroleum Refineries (04/12/2008)</b>		
9-10-502	Monitoring for sources subject to 9-10-303	Y	
9-10-504.1	Recordkeeping for sources subject to 9-10-303	Y	
9-10-505	Reporting requirements for sources subject to 9-10-303 and/or 306	Y	
<b>BAAQMD Regulation 10</b>	<b>Standards of Performance for New Stationary Sources incorporated by reference (02/16/2000)</b>		
10-14	Subpart J – Standards of Performance for Petroleum Refineries	Y	
<b>BAAQMD Manual of Procedures, Volume V</b>	<b>Continuous Emission Monitoring Policy and Procedures (01/20/1982)</b>	N	



## IV. Source-Specific Applicable Requirements

**Table IV – C.4.3**  
**Source-specific Applicable Requirements**  
**S917 NO. 17 FURNACE, S919 NO. 19 FURNACE, S951 NO. 51 FURNACE, S973–NO. 55**  
**FURNACE, S974–NO. 56 FURNACE,**  
**NSPS SUBPART J BY DATE OF CONSTRUCTION, RECONSTRUCTION, MODIFICATION**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
<b>40 CFR 60 Subpart J</b>	<b>NSPS - Standards of Performance for Petroleum Refineries (06/24/2008)</b>		
60.100	Applicability	Y	
60.100(a)	Applicability: FCCU Catalyst Regenerators, Fuel Gas Combustion Devices, and Claus Sulfur Recovery Plants (20 LTD)	Y	
60.100(b)	Applicability: Constructed/reconstructed/modified after 6/11/1973 and before May 14, 2007	Y	
60.104	Standards for Sulfur Oxides	Y	
60.104(a)(1)	Limit on hydrogen sulfide content in fuel gas burned in fuel gas combustion devices	Y	
60.105	Monitoring of Emissions and Operations	Y	
60.105(a)	Continuous monitoring system requirements	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(a)(4)(i)	Span value for H2S monitoring is 425 mg/dscm H2S	Y	
60.105(a)(4)(ii)	Fuel gas combustion devices having a common source of fuel gas may be monitored at only one location	Y	
60.105(a)(4)(iii)	Use Performance Specification 7 for performance evaluations and Method 11, 15, 15A, or 16 for relative accuracy evaluations	Y	
60.105(e)	Periods of excess emissions for 60.7(c)	Y	
60.105(e)(3)	Excess emissions of sulfur dioxide from fuel gas combustion	Y	
60.105(e)(3)(ii)	excess H2S in fuel gas as measured under 60.105(a)(4)	Y	
60.106	Test methods and procedures	Y	
60.106(a)	Performance test requirements	Y	
60.106(e)(1)	Compliance determination for H2S standards for fuel gas combustion devices	Y	
60.107	Reporting and recordkeeping requirements	Y	
60.107(f)	Semiannual reporting	Y	
60.107(g)	Certification of semiannual report	Y	
<b>40 CFR 60 Appendix B</b>	<b>NSPS Title 40 Part 60 Appendix B – Performance Specifications (10/17/2000)</b>		
Performance Specification 7	Specifications and Test Procedures for Hydrogen Sulfide Continuous Emission Monitoring Systems in Stationary Sources	Y	

## IV. Source-Specific Applicable Requirements

**Table IV – C.4.3**  
**Source-specific Applicable Requirements**  
**S917 NO. 17 FURNACE, S919 NO. 19 FURNACE, S951 NO. 51 FURNACE, S973–NO. 55**  
**FURNACE, S974–NO. 56 FURNACE,**  
**NSPS SUBPART J BY DATE OF CONSTRUCTION, RECONSTRUCTION, MODIFICATION**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
<b>40 CFR 60 Appendix F</b>	<b>NSPS Title 40 Part 60 Appendix F – Quality Assurance Procedures (06/13/2007)</b>		
Procedure 1	QA Requirements for Gas Continuous Emission Monitoring Systems	Y	
<b>BAAQMD Condition 8077</b>	<b>Listed conditions apply to sources noted</b>		
Part A2A (S974)	S-974 Start-Up and Shutdown Time and NOx Emission Limits (basis: cumulative increase, offsets)	Y	
Part A2B (S973) (S974)	Ammonia Injection Requirement at A-31 SCR abating S-973 and S-974	Y	
Part B1	Definitions (basis: definitions)	Y	
Part B2	Emissions (basis: cumulative increase, BACT, offsets)	Y	
Part B3	Emission reductions (basis: cumulative increase, offsets, bubble)	Y	
Part B4	Monitoring	Y	
Part B4A	NSPS Subpart J applicability and H2S CEMS requirements for fuel gas supply for S951, S971, S972, S973, and S974 (basis: NSPS)	Y	
Part B4B	Monitoring – NOx/O2 CEM (basis: cumulative increase, offsets) (S-973 and S-974 only)	Y	
Part B4D	Monitoring per Table D of Appendix to this permit condition (cumulative increase, offsets) (S-917, S-919, S-951, S-973, and S-974 only)	Y	
Part B5	Reporting and Record Keeping (cumulative increase, offsets)	Y	
Part B7A	NOx emission limits (basis: cumulative increase, offsets, BACT) (S-917, S-919, S-971, S-972, S-973, and S-974 only)	Y	
Part B7B	Maximum firing rate (basis: cumulative increase, offsets) (S-973 and S-974 only)	Y	
Part B9	Sulfur Recovery Facilities	Y	
Part B10	Access (cumulative increase, offsets)	Y	
Part B11	Enforcement (basis: cumulative increase, offsets)	Y	
Part B12	Miscellaneous (basis: cumulative increase, offsets)	Y	
Part B12C	Maintain equipment in good working order (basis: cumulative increase, offsets)	Y	

#### IV. Source-Specific Applicable Requirements

**Table IV – C.4.3**  
**Source-specific Applicable Requirements**  
**S917 NO. 17 FURNACE, S919 NO. 19 FURNACE, S951 NO. 51 FURNACE, S973–NO. 55**  
**FURNACE, S974–NO. 56 FURNACE,**  
**NSPS SUBPART J BY DATE OF CONSTRUCTION, RECONSTRUCTION, MODIFICATION**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
Part B12D	Nothing in this condition shall be construed to allow violation of any other law or regulation (basis: cumulative increase, offsets)	Y	
Part B12E	Emission reductions required by this condition shall not be eligible for banking or credited as emission reductions against cumulative increases (basis: cumulative increase, offsets)	Y	
Part B12F	Annual limits in B2 shall be adjusted consistent with BAAQMD rule changes (basis: cumulative increase, offsets)	Y	
Part B12G	Baseline emissions (basis: cumulative increase, offsets)	Y	
Part B12J	Instrument downtime (basis: cumulative increase, offsets)	Y	
Part B12K	Breakdowns, malfunctions, and other causes for emission exceedances (basis: cumulative increase, offsets)	Y	
Part B12L	Adjustment of CO limits based on modeling (basis: cumulative increase, offsets)	Y	
Part B13	Severability (basis: cumulative increase, offsets)	Y	
Part B14	Environmental Management Plan (basis: cumulative increase, offsets)	Y	
<b>BAAQMD Condition # 16685</b>			
Part 1	Daily Firing rate limitations (basis: cumulative increase, Regulation 2-1-403, Bubble Condition 8077 for S917 via Application 19647)	Y	
<b>BAAQMD Condition 18372</b>			
Part 2	Natural Gas or Refinery Fuel Gas only (Regulation 9-10)	Y	
Part 20	S971 to be abated by A1433, A1433 requires CEM (Regulation 9-10)	Y	
Part 22	S971 ammonia slip limit 20 ppmv (toxics)	Y	
Part 27	Sources subject to the refinery-wide NOx limit and the CO concentration limit in Regulation 9-10 (basis: Regulation 9-10-301, 303, & 305)	Y	
Part 28	O2 monitor and recorder requirement (basis: Regulation 9-10-502)	Y	
Part 29	Operating condition requirements for those sources without CEM (basis: Regulation 9-10-502) (S-917, S-919, and S-951 only)	Y	

## IV. Source-Specific Applicable Requirements

**Table IV – C.4.3**  
**Source-specific Applicable Requirements**  
**S917 NO. 17 FURNACE, S919 NO. 19 FURNACE, S951 NO. 51 FURNACE, S973–NO. 55**  
**FURNACE, S974–NO. 56 FURNACE,**  
**NSPS SUBPART J BY DATE OF CONSTRUCTION, RECONSTRUCTION, MODIFICATION**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
Part 30	NOx box establishment requirements (basis: Regulation 9-10-502) (S-917, S-919, and S-951 only)	Y	
Part 31	NOx box ranges (basis: Regulation 9-10-502) (S-917, S-919, and S-951 only)	Y	
Part 32	NOx Box Deviations (basis: Regulation 9-10-502) (S-917, S-919, and S-951 only)	Y	
Part 33	Source test requirements (basis: Regulation 9-10-502) (S-917, S-919, and S-951 only)	Y	
Part 34	CO source test (basis: Regulation 9-10-502, 1-522) (S-973, and S-974 only)	Y	
Part 35	CO results requires CEM (basis: Regulation 9-10-502, 1-522) (S-917, S-919, S-951, S-973, and S-974 only)	Y	
Part 36	Source test records (basis: recordkeeping; Regulation 9-10-504)	Y	
<b>BAAQMD Condition 21186</b>	S917 only		
Part 1	Sample fuel gas for total reduced sulfur (TRS) (basis: cumulative increase, BACT, offsets, Regulation 2-1-403)	Y	
Part 2	Analyze and record total reduced sulfur (TRS) (basis: cumulative increase, BACT, offsets, Regulation 2-1-403)	Y	
Part 3	TRS limit of 300 ppmvd (basis: cumulative increase, BACT, offsets, Regulation 2-1-403)	Y	
Part 4	Annual average TRS limit of 281 ppmvd (basis: cumulative increase, BACT, offsets, Regulation 2-1-403)	Y	
Part 7	Recordkeeping	Y	

## IV. Source-Specific Applicable Requirements

**Table IV – C.4.4**  
**Source-specific Applicable Requirements**  
**S950-No. 50 FURNACE**

**NSPS SUBPART J BY CONSENT DECREE CONDITION 23562**

**SUBJECT TO NESHAPS SUBPART FF (ABATES WASTEWATER UNIT S606, S607)**

<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 1</b>	<b>General Provisions and Definitions (07/19/2006)</b>		
1-520	Continuous Emission Monitoring	Y	
1-520.8	Monitors pursuant to Regulations 10, 12 and 2-1-403	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	
1-522.9	recordkeeping requirements	Y	
1-522.10	monitors required by Sections 1-521 or 2-1-403 shall meet the requirements specified by the APCO	Y	
1-523	Parametric Monitoring and Recordkeeping Procedures	N	
1-523.1	Report periods of parametric monitor inoperation	Y	
1-523.2	Limits on periods of parametric monitor inoperation	Y	
1-523.3	Report exceedances	N	
1-523.4	Recordkeeping	Y	
1-523.5	Maintenance and calibration; written policy	Y	
1-602	Area and Continuous Monitoring Requirements	N	
<b>SIP Regulation 1</b>	<b>General Provisions and Definitions (06/28/1999)</b>		
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	Y	
1-522.7	Excesses	Y	
1-523	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.3	Report exceedances	Y	
<b>BAAQMD Regulation 6 Rule 1</b>	<b>Particulate Matter; General Requirements (12/05/2007)</b>		
6-1-301	Ringelmann No. 1 Limitation	N	
6-1-305	Visible Particles	N	

## IV. Source-Specific Applicable Requirements

**Table IV – C.4.4**  
**Source-specific Applicable Requirements**  
**S950-NO. 50 FURNACE**

**NSPS SUBPART J BY CONSENT DECREE CONDITION 23562**  
**SUBJECT TO NESHAPS SUBPART FF (ABATES WASTEWATER UNIT S606, S607)**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
6-1-310	Particle Weight Limitation	N	
6-1-310.3	Heat transfer operations	N	
6-1-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions	N	
<b>SIP Regulation 6</b>	<b>Particulate Matter and Visible Emissions (09/04/1998)</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	
6-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions	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 (07/17/2002)</b>		
9-10-301	Emission Limit for Facility, NOx: 0.033 lb NOx/MMBTU	N	
9-10-303	Federal Interim Facility-wide NOx emission rate limit	Y	
9-10-305	CO emission limit	N	
9-10-502	Monitoring for sources subject to 9-10-301, 303, 304, and 305	N	
9-10-502.1	CEMS for NOx, CO, and O2	N	
9-10-502.2	Fuel flowmeters	Y	
9-10-504	Recordkeeping	N	
9-10-504.1	Recordkeeping for sources subject to 9-10-301, 304, or 305, or effective 7/17/2007, 9-10-303	N	
9-10-505	Reporting	N	
9-10-601	Determination of Nitrogen Oxides	Y	
9-10-602	Determination of Carbon Monoxide and Stack-Gas Oxygen	N	
9-10-603	Compliance Determination	Y	
9-10-604	Determination of Higher Heating Value	Y	
<b>SIP Regulation 9 Rule 10</b>	<b>Inorganic Gaseous Pollutants – Nitrogen Oxides and Carbon Monoxide from Boilers, Steam Generators, and Process Heaters in Petroleum Refineries (04/12/2008)</b>		
9-10-502	Monitoring for sources subject to 9-10-303	Y	
9-10-504.1	Recordkeeping for sources subject to 9-10-303	Y	

## IV. Source-Specific Applicable Requirements

**Table IV – C.4.4**  
**Source-specific Applicable Requirements**  
**S950-NO. 50 FURNACE**

**NSPS SUBPART J BY CONSENT DECREE CONDITION 23562**  
**SUBJECT TO NESHAPS SUBPART FF (ABATES WASTEWATER UNIT S606, S607)**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
9-10-505	Reporting requirements for sources subject to 9-10-303 and/or 306	Y	
<b>BAAQMD Regulation 10</b>	<b>Standards of Performance for New Stationary Sources incorporated by reference (02/16/2000)</b> <b>Applicability specified in Condition 23562</b>		
10-14	Subpart J – Standards of Performance for Petroleum Refineries	Y	
<b>BAAQMD Regulation 11 Rule 12</b>	<b>Hazardous Pollutants - National Emission Standard for Benzene Emissions From Benzene Transfer Operations and Benzene Waste Operations (Adopted 07/18/1990; Subpart FF last amended 01/05/1994)</b>	Y	
<b>BAAQMD Manual of Procedures, Volume V</b>	<b>Continuous Emission Monitoring Policy and Procedures (01/20/1982)</b>	N	
<b>40 CFR 60 Subpart J</b>	<b>NSPS – Standards of Performance for Petroleum Refineries (06/24/2008)</b> <b>Applicability specified in Condition 23562</b>		
60.104	Standards for sulfur oxides	Y	
60.104(a)(1)	Limit on hydrogen sulfide content in fuel gas burned in fuel gas combustion devices	Y	
60.105	Monitoring of Emissions and Operations	Y	
60.105(a)	Continuous monitoring system requirements	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(a)(4)(i)	Span value for H2S monitoring is 425 mg/dscm H2S	Y	
60.105(a)(4)(ii)	Fuel gas combustion devices having a common source of fuel gas may be monitored at only one location	Y	
60.105(a)(4)(iii)	Use Performance Specification 7 for performance evaluations and Method 11, 15, 15A, or 16 for relative accuracy evaluations	Y	
60.105(e)	Periods of excess emissions for 60.7(c)	Y	
60.105(e)(3)	Excess emissions of sulfur dioxide from fuel gas combustion	Y	
60.105(e)(3)(ii)	excess H2S in fuel gas as measured under 60.105(a)(4)	Y	
60.106	Test Methods and Procedures	Y	
60.106(a)	Performance test requirements	Y	
60.106(e)(1)	Compliance determination for H2S standards for fuel gas combustion devices	Y	
60.107	Reporting and recordkeeping requirements	Y	

## IV. Source-Specific Applicable Requirements

**Table IV – C.4.4**  
**Source-specific Applicable Requirements**  
**S950-NO. 50 FURNACE**

**NSPS SUBPART J BY CONSENT DECREE CONDITION 23562**  
**SUBJECT TO NESHAPS SUBPART FF (ABATES WASTEWATER UNIT S606, S607)**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.107(f)	Semiannual reporting	Y	
60.107(g)	Certification of semiannual report	Y	
<b>40 CFR 60 Appendix B</b>	<b>NSPS Title 40 Part 60 Appendix B – Performance Specifications (10/17/2000)</b>		
Performance Specification 7	Specifications and Test Procedures for Hydrogen Sulfide Continuous Emission Monitoring Systems in Stationary Sources	Y	
<b>40 CFR 60 Appendix F</b>	<b>NSPS Title 40 Part 60 Appendix F – Quality Assurance Procedures (06/13/2007)</b> Applicability specified in Condition 23562		
Procedure 1	QA Requirements for Gas Continuous Emission Monitoring Systems	Y	
<b>40 CFR 61 Subpart FF</b>	<b>NESHAPS - Benzene Waste Operations (12/04/2003)</b> <b>Abatement device for S606 and S607</b>		
61.340(a)	Applicability	Y	
61.349	Standards: Closed vent systems and control devices	Y	
61.349(a)	Standards: Closed vent systems and control devices	Y	
61.349(a)(1)(i)	Fugitives: Closed vent-vent system to operate with no detectable emissions as indicated by instrument reading of less than 500 ppmv as per method in 61.355(h)	Y	
61.349(a)(1)(iii)	Closed Vent System Gauging and Sampling Devices	Y	
61.349(a)(1)(iv)	Closed Vent System Devices Venting to Atmosphere	Y	
61.349(a)(2)	Standards: Closed vent systems and control devices; control device requirements	Y	
61.349(a)(2)(i)	Standards: Closed vent systems and control devices; control device requirements-enclosed combustion device	Y	
61.349(a)(2)(i)(A)	Standards: Closed vent systems and control devices; control device requirements-enclosed combustion device-OPTION-reduce organic concentration by 95 % or more (weight)	Y	
61.349(a)(2)(i)(B)	Standards: Closed vent systems and control devices; control device requirements-enclosed combustion device-OPTION-achieve total organic concentration of 20 ppmv per Method 18 on dry basis corrected to 3 percent oxygen	Y	
61.349(a)(2)(i)(C)	Standards: Closed vent systems and control devices; control device requirements-enclosed combustion device-OPTION-minimum residence time of 0.5 seconds at minimum temperature of 1500 F and introduce vent stream into flame zone of boiler or process heater	Y	
61.349(b)	Standards: Closed vent systems and control devices; operate at all times	Y	
61.349(c)	Standards: Closed vent systems and control devices; control device requirements – demonstration of compliance	Y	



## IV. Source-Specific Applicable Requirements

**Table IV – C.4.4**  
**Source-specific Applicable Requirements**  
**S950-NO. 50 FURNACE**

**NSPS SUBPART J BY CONSENT DECREE CONDITION 23562**  
**SUBJECT TO NESHAPS SUBPART FF (ABATES WASTEWATER UNIT S606, S607)**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
61.349(c)(1)	Standards: Closed vent systems and control devices; control device requirements – demonstration of compliance; Control Device Engineering Calculations	Y	
61.349(c)(2)	Standards: Closed vent systems and control devices; control device requirements – demonstration of compliance; performance tests per 61.355	Y	
61.349(e)	Standards: Closed vent systems and control devices; control device requirements – demonstration of compliance; administrator required	Y	
61.349(f)	Standards: Closed vent systems and control devices – quarterly visual inspections	Y	
61.349(g)	Standards: Closed vent systems and control devices – repair and delay of repair	Y	
61.349(h)	Standards: Closed vent systems and control devices; control device requirements – monitor control device per 61.354(c)	Y	
61.350	Standards: Delay of repair	Y	
61.350(a)	Standards: Delay of Repair: Allowed if technically impossible without complete or partial facility or unit shutdown.	Y	
61.350(b)	Standards: Delay of Repair: Repair shall occur before the end of the next facility or unit shutdown	Y	
61.354	Monitoring of operations	Y	
61.354(c)	Monitoring of operations; control device monitoring requirements	Y	
61.354(c)(5)	Monitoring of operations; control device monitoring requirements; boiler or process heater with heat input $\geq 150$ MMBTU/hr; install continuous parametric monitor to verify good combustion practices	Y	
61.355	Test methods, procedures, and compliance provisions	Y	
61.355(i)	Test methods, procedures, and compliance provisions; demonstrate compliance of control device with 61.349(a)(2) with performance test	Y	
61.356	Recordkeeping requirements	Y	
61.356(a)	Recordkeeping requirements; records and retention	Y	
61.356(f)	Recordkeeping requirements; closed vent system and control device records	Y	
61.356(f)(1)	Recordkeeping requirements; closed vent system and control device records; signed certification of design	Y	
61.356(f)(2)	Recordkeeping requirements; closed vent system and control device records: engineering calculations	Y	
61.356(f)(3)	Recordkeeping requirements; closed vent system and control device records; performance test records	Y	

**IV. Source-Specific Applicable Requirements**

**Table IV – C.4.4  
 Source-specific Applicable Requirements  
 S950-NO. 50 FURNACE**

**NSPS SUBPART J BY CONSENT DECREE CONDITION 23562  
 SUBJECT TO NESHAPS SUBPART FF (ABATES WASTEWATER UNIT S606, S607)**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
61.356(h)	Recordkeeping requirements; closed vent system and control device records; detectable emissions	Y	
61.356(j)	Recordkeeping requirements; closed vent system and control device operating records	Y	
61.356(j)(6)	Recordkeeping requirements; control device operating records – boiler or process heater – changes and periods when not operating as designed	Y	
61.357	Reporting requirements	Y	
61.357(d)	Reporting requirements; facilities with TAB > 10 Mg	Y	
61.357(d)(6)	Reporting requirements; facilities with TAB > 10 Mg; quarterly certification of inspections	Y	
61.357(d)(7)	Reporting requirements; facilities with TAB > 10 Mg; quarterly report	Y	
61.357(d)(7)(iv)	Reporting requirements; facilities with TAB > 10 Mg; quarterly report; control device monitored per 61.354(c)	Y	
61.357(d)(7)(iv)(G)	Reporting requirements; facilities with TAB > 10 Mg; quarterly report; control device monitored per 61.354(c); change in point of entry of vent stream	Y	
61.357(d)(8)	Reporting requirements; facilities with TAB > 10 Mg; annual summary of inspections	Y	
<b>BAAQMD Condition 7410</b>			
Part 1	S950 abatement for S-606 and S-607 air strippers (basis: cumulative increase, toxics)	Y	
Part 3	Limit on non-methane hydrocarbon emissions (basis: cumulative increase)	Y	
Part 4	Limit on hydrogen sulfide emissions (basis: toxics)	N	
Part 5	Minimum S950 operating temperature when abating S606 and/or S607 (basis: cumulative increase)	Y	
Part 6	Record keeping for operating temperature (basis: cumulative increase)	Y	
Part 7	Record keeping (basis: cumulative increase)	Y	
<b>BAAQMD Condition 8077</b>			
Part B1	Definitions (basis: definitions)	Y	
Part B2	Emissions (basis: cumulative increase, BACT, offsets)	Y	
Part B3	Emission reductions (basis: cumulative increase, offsets, bubble	Y	

## IV. Source-Specific Applicable Requirements

**Table IV – C.4.4**  
**Source-specific Applicable Requirements**  
**S950-NO. 50 FURNACE**

**NSPS SUBPART J BY CONSENT DECREE CONDITION 23562**  
**SUBJECT TO NESHAPS SUBPART FF (ABATES WASTEWATER UNIT S606, S607)**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
Part B4	Monitoring	Y	
Part B4A	Monitoring and Source Testing (toxics, NSPS)	Y	
Part B4D	Monitoring per Table D of Appendix to this permit condition (cumulative increase, offsets)	Y	
Part B5	Reporting and Record Keeping (cumulative increase, offsets)	Y	
Part B7	Combustion Controls (basis: cumulative increase, bubble, BACT, offsets)	Y	
Part B10	Access (cumulative increase, offsets)	Y	
Part B11	Enforcement (basis: cumulative increase, offsets)	Y	
Part B12	Miscellaneous (basis: cumulative increase, offsets)	Y	
Part B12C	Maintain equipment in good working order (basis: cumulative increase, offsets)	Y	
Part B12D	Nothing in this condition shall be construed to allow violation of any other law or regulation (basis: cumulative increase, offsets)	Y	
Part B12E	Emission reductions required by this condition shall not be eligible for banking or credited as emission reductions against cumulative increases (basis: cumulative increase, offsets)	Y	
Part B12F	Annual limits in B2 shall be adjusted consistent with BAAQMD rule changes (basis: cumulative increase, offsets)	Y	
Part B12G	Baseline emissions (basis: cumulative increase, offsets)	Y	
Part B12J	Instrument downtime (basis: cumulative increase, offsets)	Y	
Part B12K	Breakdowns, malfunctions, and other causes for emission exceedances (basis: cumulative increase, offsets)	Y	
Part B12L	Adjustment of CO limits based on modeling (basis: cumulative increase, offsets)	Y	
Part B13	Severability (basis: cumulative increase, offsets)	Y	
Part B14	Environmental Management Plan (basis: cumulative increase, offsets)	Y	
<b>BAAQMD Condition # 16685</b>			
Part 1	Daily Firing rate limitations (basis: cumulative increase, , Regulation 2-1-403, Bubble Condition 8077 for S917 via Application 19647)	Y	

## IV. Source-Specific Applicable Requirements

**Table IV – C.4.4**  
**Source-specific Applicable Requirements**  
**S950-NO. 50 FURNACE**

**NSPS SUBPART J BY CONSENT DECREE CONDITION 23562**  
**SUBJECT TO NESHAPS SUBPART FF (ABATES WASTEWATER UNIT S606, S607)**

<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 Condition 18372</b>			
Part 2	Natural Gas or Refinery Fuel Gas only (Regulation 9-10)	Y	
Part 19	S950 to be abated by A1432, A1432 requires CEM (Regulation 9-10)	Y	
Part 22	S950 ammonia slip limit 20 ppmv (toxics)	Y	
Part 27	Sources subject to the refinery-wide NOx limit and the CO concentration limit in Regulation 9-10 (basis: Regulation 9-10-301 & 305)	Y	
Part 28	O2 monitor and record requirement (basis: Regulation 9-10-502)	Y	
Part 34	CO source test (basis: Regulation 9-10-502, 1-522)	Y	
Part 36	Source test records (basis: recordkeeping; Regulation 9-10-504)	Y	
<b>BAAQMD Condition 23562</b>			
Part 1	NSPS J applicability and SSM requirements for fuel gas combustion devices. (Basis: NSPS Subparts A and J, EPA Consent Decree paragraphs 12, 117, 118, and 122.)	Y	
Part 2	Exemption from NSPS A and J notification requirements. (Basis: EPA Consent Decree paragraph 120.)	Y	
Part 3	Use CEMS or approved AMP to demonstrate compliance with NSPS Subpart J emission limit. (Basis: EPA Consent Decree paragraph 121.)	Y	
Part 4	CEMS accuracy test requirements. (Basis: EPA Consent Decree paragraph 121.)	Y	
<b>BAAQMD Condition 25161</b>			
Part 1	365-day firing rate limitations (Basis: Regulation 2-1-233 and 2-1-403, Application 23341)	Y	
Part 2	Daily Firing rate reporting limitations (Basis: Regulation 2-1-233 and 2-1-403, Application 23341)	Y	
Part 3	Recordkeeping requirement (Basis: Regulation 2-6-501)	Y	

## IV. Source-Specific Applicable Requirements

**Table IV – C.4.5  
 Source-specific Applicable Requirements  
 S1412 SULFURIC ACID PLANT START-UP HEATER  
 NSPS SUBPART J BY CONSENT DECREE CONDITION 23562**

<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 1</b>	<b>General Provisions and Definitions (07/19/2006)</b>		
1-520	Continuous Emission Monitoring	Y	
1-520.8	monitors pursuant to Regulation 2-1-403	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	
1-522.9	recordkeeping requirements	Y	
1-522.10	monitors required by Sections 1-521 or 2-1-403 shall meet the requirements specified by the APCO	Y	
1-602	Area and Continuous Monitoring Requirements	N	
<b>SIP Regulation 1</b>	<b>General Provisions and Definitions (06/28/1999)</b>		
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	Y	
1-522.7	Excesses	Y	
<b>BAAQMD Regulation 6 Rule 1</b>	<b>Particulate Matter; General Requirements (12/05/2007)</b>		
6-1-301	Ringelmann No. 1 Limitation	N	
6-1-305	Visible Particles	N	
6-1-310	Particle Weight Limitation	N	
6-1-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions	N	
<b>SIP Regulation 6</b>	<b>Particulate Matter and Visible Emissions(09/04/1998)</b>		
6-301	Ringelmann No. 1 Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particle Weight Limitation	Y	

## IV. Source-Specific Applicable Requirements

**Table IV – C.4.5**  
**Source-specific Applicable Requirements**  
**S1412 SULFURIC ACID PLANT START-UP HEATER**  
**NSPS SUBPART J BY CONSENT DECREE CONDITION 23562**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
6-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions	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 (07/17/2002)</b>		
9-10-112	Limited Exemption, Low Fuel Usage exempt from 9-10-301, 303, 305 and 308	N	
9-10-306	Small Unit requirements (comply with 9-10-306.1 OR 9-10-306.2 OR 9-10-306.3)	N	
9-10-306.2	Conduct tune-ups; or	Y	
9-10-502	Monitoring	N	
9-10-502.2	Fuel flow meter required	N	
9-10-504	Recordkeeping	N	
9-10-504.2	Recordkeeping (applies if complying with 9-10-306.2)	Y	
9-10-505	Reporting for sources subject to 9-10-301, 303, 304, 305, and/or 306	N	
9-10-505.1	Reporting violations of 9-10-301, 303, 304, 305, and/or 306	N	
9-10-505.2.2	Reporting excess emissions	N	
9-10-601	Determination of Nitrogen Oxides (if complying with 9-10-306.3)	Y	
9-10-602	Determination of Carbon Monoxide and Stack-Gas Oxygen (if complying with 9-10-306.3)	N	
9-10-603	Determination of Carbon Monoxide and Stack-Gas Oxygen (if complying with 9-10-306.3)	Y	
9-10-604	Determination of Higher Heating Value	Y	
9-10-605	Tune-up Procedures	Y	
<b>SIP Regulation 9 Rule 10</b>	<b>Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon Monoxide from Boilers, Steam Generators, and Process Heaters in Petroleum Refineries (04/12/2008)</b>		
9-10-111	Limited Exemption, Small Units exempt from 9-10-303	Y	
9-10-306	Small Unit requirements (comply with 9-10-306.1 OR 9-10-306.2)	Y	
9-10-505	Reporting for sources subject to 9-10-303 and/or 306	Y	
9-10-505.1	Reporting violations of 9-10-303 and/or 306	Y	
9-10-505.2.2	Reporting excess emissions	Y	
<b>BAAQMD Regulation 10</b>	<b>Standards of Performance for New Stationary Sources incorporated by reference (02/16/2000)</b> Applicability specified in Condition 23562		

## IV. Source-Specific Applicable Requirements

**Table IV – C.4.5**  
**Source-specific Applicable Requirements**  
**S1412 SULFURIC ACID PLANT START-UP HEATER**  
**NSPS SUBPART J BY CONSENT DECREE CONDITION 23562**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
10-14	Subpart J – Standards of Performance for Petroleum Refineries	Y	
<b>BAAQMD Manual of Procedures, Volume V</b>	<b>Continuous Emission Monitoring Policy and Procedures (01/20/1982)</b>	N	
<b>40 CFR 60 Subpart J</b>	<b>NSPS - Standards of Performance for Petroleum Refineries (06/24/2008)</b> <b>Applicability specified in Condition 23562</b>	Y	
60.104	Standards for sulfur oxides	Y	
60.104(a)(1)	Limit on hydrogen sulfide content in fuel gas burned in fuel gas combustion devices	Y	
60.105	Monitoring of Emissions and Operations	Y	
60.105(a)	Continuous monitoring system requirements	Y	
60.105(a)(4)	Monitoring requirements for H2S (dry basis) in fuel gas prior to combustion (in lieu of separate combustion device exhaust SO2 monitors as required by 60.105(a)(3))	Y	
60.105(a)(4)(i)	Span value for H2S monitoring is 425 mg/dscm H2S	Y	
60.105(a)(4)(ii)	Fuel gas combustion devices having a common source of fuel gas may be monitored at only one location	Y	
60.105(a)(4)(iii)	Use Performance Specification 7 for performance evaluations and Method 11, 15, 15A, or 16 for relative accuracy evaluations	Y	
60.105(e)	Periods of excess emissions for 60.7(c)	Y	
60.105(e)(3)	Excess emissions of sulfur dioxide from fuel gas combustion	Y	
60.105(e)(3)(ii)	excess H2S in fuel gas as measured under 60.105(a)(4)	Y	
60.106	Test Methods and Procedures	Y	
60.106(a)	Performance test requirements	Y	
60.106(e)(1)	Compliance determination for H2S standards for fuel gas combustion devices	Y	
60.107	Reporting and recordkeeping requirements	Y	
60.107(f)	Semiannual reporting	Y	
60.107(g)	Certification of semiannual report	Y	
<b>40 CFR 60 Appendix B</b>	<b>NSPS - Title 40 Part 60 Appendix B – Performance Specifications (01/12/2004)</b>		
Performance Specification 7	Specifications and Test Procedures for Hydrogen Sulfide Continuous Emission Monitoring Systems in Stationary Sources	Y	

**IV. Source-Specific Applicable Requirements**

**Table IV – C.4.5  
 Source-specific Applicable Requirements  
 S1412 SULFURIC ACID PLANT START-UP HEATER  
 NSPS SUBPART J BY CONSENT DECREE CONDITION 23562**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
<b>40 CFR 60 Appendix F</b>	<b>NSPS - Title 40 Part 60 Appendix F – Quality Assurance Procedures (01/12/2004)</b> Applicability specified in Condition 23562		
Procedure 1	QA Requirements for Gas Continuous Emission Monitoring Systems	Y	
<b>BAAQMD Condition 23562</b>			
Part 1	NSPS J applicability and SSM requirements for fuel gas combustion devices. (Basis: NSPS Subparts A and J, EPA Consent Decree paragraphs 12, 117, 118, and 122.)	Y	
Part 2	Exemption from NSPS A and J notification requirements. (Basis: EPA Consent Decree paragraph 120.)	Y	
Part 3	Use CEMS or approved AMP to demonstrate compliance with NSPS Subpart J emission limit. (Basis: EPA Consent Decree paragraph 121.)	Y	
Part 4	CEMS accuracy test requirements. (Basis: EPA Consent Decree paragraph 121.)	Y	
<b>BAAQMD Condition 25846</b>			
Part 1	Fire on natural gas or refinery fuel gas (basis: Cumulative Increase)	Y	
Part 2	Annual firing rate limit of 9000 MM Btu (basis: Cumulative Increase , Regulation 9-10-112)	Y	
Part 3	Recordkeeping requirement (basis: Cumulative Increase)	Y	
Part 4	NOx and CO Source Test requirements (basis: Total source emissions)	Y	



## IV. Source-Specific Applicable Requirements

**Table IV – C.4.6  
 Source-specific Applicable Requirements  
 S1106-No. 72 Furnace, S1470-No. 71 Furnace  
 Not Subject to Regulation 9, Rule 10**

<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 1</b>	<b>General Provisions and Definitions (07/19/2006)</b>		
1-520	Continuous Emission Monitoring	Y	
1-520.8	Monitors pursuant to Regulations 10, 12 and 2-1-403	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	
1-522.9	recordkeeping requirements	Y	
1-522.10	monitors required by Sections 1-521 or 2-1-403 shall meet the requirements specified by the APCO	Y	
1-523	Parametric Monitoring and Recordkeeping Procedures	N	
1-523.1	Report periods of parametric monitor inoperation	Y	
1-523.2	Limits on periods of parametric monitor inoperation	Y	
1-523.3	Report exceedances	N	
1-523.4	Recordkeeping	Y	
1-523.5	Maintenance and calibration; written policy	Y	
1-602	Area and Continuous Monitoring Requirements	N	
<b>SIP Regulation 1</b>	<b>General Provisions and Definitions (06/28/1999)</b>		
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	Y	
1-522.7	emission limit exceedance reporting requirements	Y	
1-523	Report exceedances	Y	
1-523.3	Parametric Monitoring and Recordkeeping Procedures	Y	
<b>BAAQMD Regulation 6 Rule 1</b>	<b>Particulate Matter; General Requirements (12/05/2007)</b>		
6-1-301	Ringelmann No. 1 Limitation	Y	
6-1-305	Visible Particles	Y	
6-1-310	Particle Weight Limitation	Y	
6-1-310.3	Heat transfer operations	Y	
6-1-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions	Y	

## IV. Source-Specific Applicable Requirements

**Table IV – C.4.6**  
**Source-specific Applicable Requirements**  
**S1106-No. 72 Furnace, S1470-No. 71 Furnace**  
**Not Subject to Regulation 9, Rule 10**

<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 6</b>	<b>Particulate Matter and Visible Emissions (09/04/1998)</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	
6-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions	Y	
<b>BAAQMD Regulation 10</b>	<b>Standards of Performance for New Stationary Sources incorporated by reference (02/16/2000)</b> <b>Applicable only when sources are firing refinery fuel gas</b>		
10-14	Subpart J – Standards of Performance for Petroleum Refineries	Y	
<b>BAAQMD Manual of Procedures, Volume V</b>	<b>Continuous Emission Monitoring Policy and Procedures (01/20/1982)</b>	N	
<b>40 CFR 60 Subpart J (S-1470 only)</b>	<b>NSPS - Standards of Performance for Petroleum Refineries (06/24/2008)</b> <b>Applicable only when sources are firing refinery fuel gas</b>		
60.100	Applicability	Y	
60.100(a)	Applicability: FCCU Catalyst Regenerators, Fuel Gas Combustion Devices, and Claus Sulfur Recovery Plants (20 LTD)	Y	
60.100(b)	Applicability: Constructed/reconstructed/modified after 6/11/1973 and before May 14, 2007	Y	
60.104	Standards for Sulfur Oxides	Y	
60.104(a)(1)	Limit on hydrogen sulfide content in fuel gas burned in fuel gas combustion devices	Y	
60.105	Monitoring of Emissions and Operations	Y	
60.105(a)	Continuous monitoring system requirements	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(a)(4)(i)	Span value for H <sub>2</sub> S monitoring is 425 mg/dscm H <sub>2</sub> S	Y	
60.105(a)(4)(ii)	Fuel gas combustion devices having a common source of fuel gas may be monitored at only one location	Y	
60.105(a)(4)(iii)	Use Performance Specification 7 for performance evaluations and Method 11, 15, 15A, or 16 for relative accuracy evaluations	Y	
60.105(e)	Periods of excess emissions for 60.7(c)	Y	

## IV. Source-Specific Applicable Requirements

**Table IV – C.4.6  
 Source-specific Applicable Requirements  
 S1106-No. 72 Furnace, S1470-No. 71 Furnace  
 Not Subject to Regulation 9, Rule 10**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
60.105(e)(3)	Excess emissions of sulfur dioxide from fuel gas combustion	Y	
60.105(e)(3)(ii)	Excess SO <sub>2</sub> emission definitions for 60.7(c)	Y	
60.106	Test methods and procedures	Y	
60.106(a)	Performance test requirements	Y	
60.106(e)(1)	Compliance determination for H <sub>2</sub> S standards for fuel gas combustion devices	Y	
60.107	Reporting and recordkeeping requirements	Y	
60.107(f)	Semiannual reporting	Y	
60.107(g)	Certification of semiannual report	Y	
<b>40 CFR 60 Appendix B</b>	<b>NSPS - Title 40 Part 60 Appendix B – Performance Specifications (10/17/2000)</b> <b>Applicable only when sources are firing refinery fuel gas</b>		
Performance Specification 7	Specifications and Test Procedures for Hydrogen Sulfide Continuous Emission Monitoring Systems in Stationary Sources	Y	
<b>40 CFR 60 Appendix F (S-1470 only)</b>	<b>NSPS - Title 40 Part 60 Appendix F – Quality Assurance Procedures (06/13/2007)</b> Applicable only when sources are firing refinery fuel gas Applicability as specified in the Consent Decree		
Procedure 1	QA Requirements for Gas Continuous Emission Monitoring Systems	Y	
<b>BAAQMD Condition 18539</b>	<b>Applies to S-1470 only</b>		
Part 1	Limitation on Fuel Use Type (basis: cumulative increase, toxics)	Y	
Part 2	Fuel Flow Meter Requirement (basis: cumulative increase)	Y	
Part 3A	Requirement for Calorimeter (basis: BACT, cumulative increase, offsets, toxics)	Y	
Part 3B	Requirement for Calorimeter (basis: BACT, cumulative increase, offsets, toxics)	Y	
Part 4	Total Reduced Sulfur Limit Annual Average (basis: cumulative increase, BACT, offsets)	Y	
Part 5	Total Reduced Sulfur Limit 24 Hour Average (basis: BACT)	Y	
Part 6	Total Reduced Sulfur Sampling Device Requirements (basis: BACT)	Y	
Part 7	Total Reduced Sulfur Sampling Frequency Requirement (basis: BACT)	Y	
Part 8	NO <sub>x</sub> Monitoring Requirement (basis: cumulative increase, BACT, offsets)	Y	
Part 9	Annual Fuel Use Limit (basis: cumulative increase, toxics, offsets)	Y	
Part 10	NO <sub>x</sub> Emission Limit (basis: BACT, cumulative increase, offsets)	Y	
Part 11	CO Emission Limit (basis: BACT, cumulative increase, offsets)	Y	

## IV. Source-Specific Applicable Requirements

**Table IV – C.4.6**  
**Source-specific Applicable Requirements**  
**S1106-No. 72 Furnace, S1470-No. 71 Furnace**  
**Not Subject to Regulation 9, Rule 10**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
Part 12	POC Emission Limit (basis: cumulative increase, offsets)	Y	
Part 13	PM-10 Emission Limit (basis: cumulative increase, offsets)	Y	
Part 14	SO2 Emission Limit (basis: cumulative increase, BACT, offsets)	Y	
Part 15	Requirement that S1470 be Abated by A-908 (basis: BACT)	Y	
Part 16	Ammonia Slip Limitation and Annual Source Test requirement(basis: toxics, cumulative increase, offsets, Bubble Condition 8077 per Application 19647)	Y	
Part 17A	Annual CO Source Test (basis: Regulation 2-1-403, Regulation 9-10)	Y	
Part 17B	Source Test Report Submittal (basis: Regulation 2-1-403, Regulation 9-10)	Y	
Part 18	Recordkeeping for fuel usage, and H2S/TRS fuel content (basis: cumulative increase, offsets)	Y	
Part 18A	Maximum Annual Firing Rate Limit (basis: cumulative increase)	Y	
Part 20	Offsets Required If Emissions Exceeded (basis: offsets)	Y	
<b>BAAQMD Condition 19199</b>	<b>Applies to S-1106 only</b>		
Part H0	Maximum fuel firing rate limitation (basis: cumulative increase)	Y	
Part H1	Natural gas only (basis: cumulative increase, toxics)	Y	
Part H2	Requirement for fuel flowmeter (basis: cumulative increase, toxics)	Y	
Part H3	Maximum annual fuel use (basis: cumulative increase, toxics, offsets)	Y	
Part H4	NOx Emission Limit (basis: BACT, cumulative increase, offsets)	Y	
Part H5	CO Emission Limit (basis: BACT, cumulative increase, offsets)	Y	
Part H6	POC Emission Limit (basis: cumulative increase, offsets)	Y	
Part H7	PM-10 Emission Limit (basis: cumulative increase, offsets)	Y	
Part H8	SO2 Emission Limit (basis: cumulative increase, BACT, offsets)	Y	
Part H9	Abatement requirements for startup and shutdown (basis: BACT)	Y	
Part H10	Ammonia Slip Limitation (basis: toxics)	Y	
Part H11	NOx CEM requirements (basis: cumulative increase, BACT, offsets)	Y	
Part H12	CO Source test requirements (basis: startup, offsets, BACT, cumulative increase, toxics)	Y	
Part H13	NOx, CO, POC, SO2, ammonia, and PM10 source test requirements (basis: start-up, offsets, BACT, cumulative increase, toxics)	Y	
Part H14	Recordkeeping (basis: cumulative increase, offsets)	Y	
Part H15	Offsets requirements (basis: offsets)	Y	

## IV. Source-Specific Applicable Requirements

**Table IV –C.4.7**  
**Source-specific Applicable Requirements**  
**Delayed Coker Heaters**  
**Abated by Selective Catalytic Reduction Systems**  
**S1511 (F78) Abated by A1511**  
**S1512 (F79) Abated by A1512**

<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 1</b>	<b>General Provisions and Definitions (07/19/2006)</b>		
1-520	Continuous Emission Monitoring	Y	
1-520.8	Monitors pursuant to Regulations 10, 12 and 2-1-403	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	
1-522.9	recordkeeping requirements	Y	
1-522.10	monitors required by Sections 1-521 or 2-1-403 shall meet the requirements specified by the APCO	Y	
1-523	Parametric Monitoring and Recordkeeping Procedures	N	
1-523.1	Report periods of parametric monitor inoperation	Y	
1-523.2	Limits on periods of parametric monitor inoperation	Y	
1-523.3	Report exceedances	N	
1-523.4	Recordkeeping	Y	
1-523.5	Maintenance and calibration; written policy	N	
1-602	Area and Continuous Monitoring Requirements	N	
<b>SIP Regulation 1</b>	<b>General Provisions and Definitions (06/28/1999)</b>		
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	Y	
1-522.7	Continuous Emission Monitoring and Recordkeeping Procedures	Y	
1-523	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.3	Report exceedances	Y	

## IV. Source-Specific Applicable Requirements

**Table IV –C.4.7**  
**Source-specific Applicable Requirements**  
**Delayed Coker Heaters**  
**Abated by Selective Catalytic Reduction Systems**  
**S1511 (F78) Abated by A1511**  
**S1512 (F79) Abated by A1512**

<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 6 Rule 1</b>	<b>Particulate Matter; General Requirements (12/07/2007)</b>		
6-1-301	Ringelmann No. 1 Limitation	N	
6-1-305	Visible Particles	N	
6-1-310	Particle Weight Limitation	N	
6-1-310.3	Heat transfer operations	N	
6-1-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions	N	
<b>SIP Regulation 6</b>	<b>Particulate Matter and Visible Emissions (09/04/1998)</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	
6-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions	Y	
<b>BAAQMD Regulation 10</b>	<b>Standards of Performance for New Stationary Sources incorporated by reference (02/16/2000)</b> Applicable only when sources are firing refinery fuel gas		
10-14	Subpart J – Standards of Performance for Petroleum Refineries	Y	
<b>40 CFR 60 Subpart J</b>	<b>NSPS - Standards of Performance for Petroleum Refineries (06/24/2008)</b> <b>Applicable only when sources are firing refinery fuel gas</b>		
60.100(a)	Applicability: FCCU Catalyst Regenerators, Fuel Gas Combustion Devices, and Claus Sulfur Recovery Plants (20 TPD)	Y	
60.100(b)	Applicability: Constructed/reconstructed/modified after 6/11/1973 and before and before May 14, 2007	Y	
60.104	Standards for Sulfur Oxides	Y	
60.104(a)(1)	Limit on hydrogen sulfide content in fuel gas burned in fuel gas combustion devices	Y	
60.105	Monitoring of Emissions and Operations	Y	

## IV. Source-Specific Applicable Requirements

**Table IV –C.4.7**  
**Source-specific Applicable Requirements**  
**Delayed Coker Heaters**  
**Abated by Selective Catalytic Reduction Systems**  
**S1511 (F78) Abated by A1511**  
**S1512 (F79) Abated by A1512**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
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(a)(4)(i)	Span value for H <sub>2</sub> S monitoring is 425 mg/dscm H <sub>2</sub> S	Y	
60.105(a)(4)(ii)	Fuel gas combustion devices having a common source of fuel gas may be monitored at only one location	Y	
60.105(a)(4)(iii)	Use Performance Specification 7 for performance evaluations and Method 11, 15, 15A, or 16 for relative accuracy evaluations	Y	
60.105(e)	Periods of excess emissions for 60.7(c)	Y	
60.105(e)(3)(ii)	Excess emission definitions for 60.7(c)	Y	
60.106	Test Methods and Procedures	Y	
60.106(a)	Performance test requirements	Y	
60.106(e)(1)	Compliance determination for H <sub>2</sub> S standards for fuel gas combustion devices	Y	
60.107	Reporting and recordkeeping requirements	Y	
60.107(f)	Semiannual reporting	Y	
60.107(g)	Certification of semiannual report	Y	
<b>40 CFR 60 Appendix B</b>	<b>NSPS – Title 40 Part 60 Appendix B – Performance Specifications (01/12/2004)</b> <b>Applicable only when sources are firing refinery fuel gas</b>		
Performance Specification 7	Specifications and Test Procedures for Hydrogen Sulfide Continuous Emission Monitoring Systems in Stationary Sources	Y	
<b>BAAQMD Condition 23129</b>			
Part 9	Ringelmann No. 1.0 limit (basis: Regulation 6-1)	Y	
Part 10	Fuel type limit (basis: cumulative increase, BACT)	Y	
Part 11	Fuel gas TRS limits (daily and annual) (basis: BACT)	Y	
Part 12	NO <sub>x</sub> and CO emission limits (basis: BACT)	Y	
Part 12a	NO <sub>x</sub> and CO emission limits during SSM (basis: cumulative increase, offsets)	Y	
Part 12b	CO emission limit for up to 100 days per year (basis: cumulative increase, offsets)	Y	

## IV. Source-Specific Applicable Requirements

**Table IV –C.4.7**  
**Source-specific Applicable Requirements**  
**Delayed Coker Heaters**  
**Abated by Selective Catalytic Reduction Systems**  
**S1511 (F78) Abated by A1511**  
**S1512 (F79) Abated by A1512**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
Part 13	Ammonia emission limit (basis: cumulative increase, toxics)	Y	
Part 14	Annual firing rate limit (basis: cumulative increase)	Y	
Part 15	Natural gas total sulfur limit – PG&E records (basis: BACT for SO2 and PM10 when firing natural gas)	Y	
Part 17	Sulfuric acid mist emissions (SAM) (basis: PSD)	Y	
Part 19	TRS CEM (basis: BACT)	Y	
Part 20	S-1511 & S-1512 abatement requirements (basis: cumulative increase)	Y	
Part 21	NOx CEM (basis: cumulative increase, BACT, offsets)	Y	
Part 22	CO CEM (basis: cumulative increase, BACT, offsets)	Y	
Part 23	O2 CEM (basis: cumulative increase, BACT, offsets)	Y	
Part 24	Fuel flow meter (basis: cumulative increase)	Y	
Part 25	Fuel gas calorimeter (basis: BACT, cumulative increase, offsets, toxics)	Y	
Part 26	Initial source test (4 test conditions) (basis: compliance demonstration, PSD avoidance, source test compliance verification)	Y	
Part 27	Record format and retention (basis: Regulation 2-6-501)	Y	
Part 28	Recordkeeping S-1511 & S-1512 (basis: BACT, offsets, cumulative increase)	Y	



## IV. Source-Specific Applicable Requirements

**Table IV – C.4.8**  
**Source-specific Applicable Requirements**  
**S971–No. 53 FURNACE, S972–No. 54 FURNACE,**

**NSPS SUBPART JA BY DATE OF CONSTRUCTION, RECONSTRUCTION, MODIFICATION**

<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 1</b>	<b>General Provisions and Definitions (07/19/2006)</b>		
1-520	Continuous Emission Monitoring	Y	
1-520.8	Monitors pursuant to Regulations 10, 12 and 2-1-403	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	
1-522.9	recordkeeping requirements	Y	
1-522.10	monitors required by Sections 1-521 or 2-1-403 shall meet the requirements specified by the APCO	Y	
1-523	Parametric Monitoring and Recordkeeping Procedures	N	
1-523.1	Report periods of parametric monitor inoperation	Y	
1-523.2	Limits on periods of parametric monitor inoperation	Y	
1-523.3	Report exceedances	N	
1-523.4	Recordkeeping	Y	
1-523.5	Maintenance and calibration; written policy	Y	
1-602	Area and Continuous Monitoring Requirements	N	
<b>SIP Regulation 1</b>	<b>General Provisions and Definitions (06/28/1999)</b>		
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	Y	
1-522.7	emission limit exceedance reporting requirements	Y	
1-523	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.3	Report exceedances	Y	
<b>BAAQMD Regulation 6 Rule 1</b>	<b>Particulate Matter; General Requirements (12/05/2007)</b>		
6-1-301	Ringelmann No. 1 Limitation	N	
6-1-305	Visible Particles	N	

## IV. Source-Specific Applicable Requirements

**Table IV – C.4.8**  
**Source-specific Applicable Requirements**  
**S971–No. 53 FURNACE, S972–No. 54 FURNACE,**

**NSPS SUBPART JA BY DATE OF CONSTRUCTION, RECONSTRUCTION, MODIFICATION**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
6-1-310	Particle Weight Limitation	N	
6-1-310.3	Heat transfer operations	N	
6-1-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions	N	
<b>SIP Regulation 6</b>	<b>Particulate Matter and Visible Emissions (09/04/1998)</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	
6-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions	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 (07/17/2002)</b>		
9-10-301	Emission Limit for Facility, NOx: 0.033 lb NOx/MMBTU	N	
9-10-303	Federal Interim Facility-wide NOx emission rate limit	Y	
9-10-305	CO emission limit	N	
9-10-502	Monitoring for sources subject to 9-10-301, 303, 304, and 305	N	
9-10-502.1	CEMS for NOx, CO, and O2	N	
9-10-502.2	Fuel flowmeters	N	
9-10-504	Recordkeeping	N	
9-10-504.1	Recordkeeping for sources subject to 9-10-301, 304, or 305, or effective 7/17/2007, 9-10-303	N	
9-10-505	Reporting for sources subject to 9-10-301, 303, 304, 305, and/or 306	N	
9-10-601	Determination of Nitrogen Oxides	Y	
9-10-602	Determination of Carbon Monoxide and Stack-Gas Oxygen	N	
9-10-603	Compliance Determination	Y	
9-10-604	Determination of Higher Heating Value	Y	
<b>SIP Regulation 9 Rule 10</b>	<b>Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon Monoxide from Boilers, Steam Generators, and Process Heaters in Petroleum Refineries (04/12/2008)</b>		
9-10-502	Monitoring for sources subject to 9-10-303	Y	
9-10-504.1	Recordkeeping for sources subject to 9-10-303	Y	
9-10-505	Reporting requirements for sources subject to 9-10-303 and/or 306	Y	

## IV. Source-Specific Applicable Requirements

**Table IV – C.4.8  
 Source-specific Applicable Requirements  
 S971–No. 53 FURNACE, S972–No. 54 FURNACE,**

**NSPS SUBPART JA BY DATE OF CONSTRUCTION, RECONSTRUCTION, MODIFICATION**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
BAAQMD Manual of Procedures, Volume V	Continuous Emission Monitoring Policy and Procedures (01/20/1982)	N	
<b>40 CFR 60 Subpart Ja</b>	<b>NSPS – Standards of Performance for Petroleum Refineries for which Construction, Reconstruction, or Modification commenced after May 14, 2007</b>		
60.100a	Applicability	<u>Y</u>	
60.100a(a)	Applicability: fluid catalytic cracking units (FCCU), fluid coking units (FCU), delayed coking units, fuel gas combustion devices (including process heaters), flares and sulfur recovery plants.	<u>Y</u>	
60.100a(b)	Applicability: Modification after 5/14/2007 for SO <sub>2</sub> emissions.	<u>Y</u>	
60.102a	Emission Limitations (hydrogen sulfide only)	<u>Y</u>	
60.102a(g)(1)(ii)	Hydrogen Sulfide emission limits.	<u>Y</u>	
60.103a	Design, equipment, work practice or operational standards	<u>Y</u>	
60.103a(c-e)	Root Cause Analysis and Corrective Action Requirements:	<u>Y</u>	
60.104a(a)	Performance Test Requirements	<u>Y</u>	
60.104a(j)(1-4)	Test methods and procedures to demonstrate compliance with the applicable H <sub>2</sub> S emissions limit.	<u>Y</u>	
60.107a(a)	Monitoring of emissions and operations for fuel gas combustion devices.	<u>Y</u>	
60.107a(a)(2)	Continuously monitoring and recording the concentration by volume (dry basis) of H <sub>2</sub> S in the fuel gases before being burned in any fuel gas combustion device.	<u>Y</u>	
60.107a(i)(1)(ii) and (3)	Excess Emissions of Hydrogen Sulfide	<u>Y</u>	
60.108a	Recordkeeping and reporting requirements	<u>Y</u>	
60.108a(c)	Recordkeeping requirements	<u>Y</u>	
60.108a(d)	Semiannual reporting	<u>Y</u>	
<b>40 CFR 60 Appendix B</b>	<b>NSPS Title 40 Part 60 Appendix B – Performance Specifications (10/17/2000)</b>		
Performance Specification 7	Specifications and Test Procedures for Hydrogen Sulfide Continuous Emission Monitoring Systems in Stationary Sources	Y	
<b>40 CFR 60 Appendix F</b>	<b>NSPS Title 40 Part 60 Appendix F – Quality Assurance Procedures (06/13/2007)</b>		
Procedure 1	QA Requirements for Gas Continuous Emission Monitoring Systems	Y	

## IV. Source-Specific Applicable Requirements

**Table IV – C.4.8**  
**Source-specific Applicable Requirements**  
**S971–No. 53 FURNACE, S972–No. 54 FURNACE,**

**NSPS SUBPART JA BY DATE OF CONSTRUCTION, RECONSTRUCTION, MODIFICATION**

<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 Condition 8077</b>	<b>Listed conditions apply to sources noted</b>		
Part B1	Definitions (basis: definitions)	Y	
Part B2	Emissions (basis: cumulative increase, BACT, offsets)	Y	
Part B3	Emission reductions (basis: cumulative increase, offsets, bubble	Y	
Part B4	Monitoring	Y	
Part B4A	NSPS Subpart J applicability and H2S CEMS requirements for fuel gas supply for S951, S971, S972, S973, and S974 (basis: NSPS)	Y	
Part B5	Reporting and Record Keeping (cumulative increase, offsets)	Y	
Part B7A	NOx emission limits (basis: cumulative increase, offsets, BACT) (S-917, S-919, S-971, S-972, S-973, and S-974 only)	Y	
Part B9	Sulfur Recovery Facilities	Y	
Part B10	Access (cumulative increase, offsets)	Y	
Part B11	Enforcement (basis: cumulative increase, offsets)	Y	
Part B12	Miscellaneous (basis: cumulative increase, offsets)	Y	
Part B12C	Maintain equipment in good working order (basis: cumulative increase, offsets)	Y	
Part B12D	Nothing in this condition shall be construed to allow violation of any other law or regulation (basis: cumulative increase, offsets)	Y	
Part B12E	Emission reductions required by this condition shall not be eligible for banking or credited as emission reductions against cumulative increases (basis: cumulative increase, offsets)	Y	
Part B12F	Annual limits in B2 shall be adjusted consistent with BAAQMD rule changes (basis: cumulative increase, offsets)	Y	
Part B12G	Baseline emissions (basis: cumulative increase, offsets)	Y	
Part B12J	Instrument downtime (basis: cumulative increase, offsets)	Y	
Part B12K	Breakdowns, malfunctions, and other causes for emission exceedances (basis: cumulative increase, offsets)	Y	
Part B12L	Adjustment of CO limits based on modeling (basis: cumulative increase, offsets)	Y	
Part B13	Severability (basis: cumulative increase, offsets)	Y	
Part B14	Environmental Management Plan (basis: cumulative increase, offsets)	Y	
<b>BAAQMD Condition 16685</b>			

## IV. Source-Specific Applicable Requirements

**Table IV – C.4.8**  
**Source-specific Applicable Requirements**  
**S971–No. 53 FURNACE, S972–No. 54 FURNACE,**

**NSPS SUBPART JA BY DATE OF CONSTRUCTION, RECONSTRUCTION, MODIFICATION**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
Part 1	Daily Firing rate limitations (basis: cumulative increase, Regulation 2-1-403, Bubble Condition 8077 for S917 via Application 19647)	Y	
<b>BAAQMD Condition 18372</b>			
Part 2	Natural Gas or Refinery Fuel Gas only (Regulation 9-10)	Y	
Part 20	S971 to be abated by A1433, A1433 requires CEM (Regulation 9-10)	Y	
Part 22	S971 ammonia slip limit 20 ppmv (toxics)	Y	
Part 27	Sources subject to the refinery-wide NOx limit and the CO concentration limit in Regulation 9-10 (basis: Regulation 9-10-301, 303, & 305)	Y	
Part 28	O2 monitor and recorder requirement (basis: Regulation 9-10-502)	Y	
<b>BAAQMD Condition 25476</b>			
Part 3	Firing Rate Limitations on S-971: 300MMBtu/hour, 7,200 MMBtu/day, 2,628,000 MMBtu in any consecutive 12-month period. (Basis: cumulative increase, toxics)	Y	
Part 4	Firing Rate Limitations on S-972: 45 MMBtu/hour, 1,080 MMBtu/day, and 394,200 MMBtu in any consecutive 12-month period. (Basis: cumulative increase, toxics)	Y	
Part 7	Burn only natural gas or refinery fuel gas in S-971 and S-972. (basis: cumulative increase, BACT, toxics)	Y	
Part 8	Annual POC emissions from S-971 and S-972 shall not exceed 7.085 and 1.063 tons, respectively, per rolling consecutive 12 month period. (Basis: cumulative increase, offsets)	Y	
Part 9	Annual PM10 emissions from S-971 and S-972 shall not exceed 2.444 and 0.367 tons, respectively, per rolling consecutive 12 month period. (Basis: cumulative increase, offsets)	Y	
Part 10	NOx emissions from S-971 shall not exceed 166 pounds per calendar day and 30.353 tons per rolling consecutive 12 month period. (Basis: RACT, cumulative increase)	Y	
Part 11	NOx emissions from S-972 shall not exceed 26.9 pounds per calendar day and 4.914 tons per rolling consecutive 12 month period. (Basis: RACT, cumulative increase)	Y	

## IV. Source-Specific Applicable Requirements

**Table IV – C.4.8**  
**Source-specific Applicable Requirements**  
**S971–No. 53 FURNACE, S972–No. 54 FURNACE,**

**NSPS SUBPART JA BY DATE OF CONSTRUCTION, RECONSTRUCTION, MODIFICATION**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
Part 12	CO emissions from S-971 shall not exceed 75.423 tons per rolling consecutive 12 month period. (Basis: cumulative increase)	Y	
Part 13	CO emissions from S-972 shall not exceed 12.211 tons per rolling consecutive 12 month period. (Basis: cumulative increase)	Y	
Part 14	Operate S-971 and S-972 when applicable requirements of 40CFR60 Subpart Ja are met. (Basis: NSPS)	Y	
Part 15	Abate S-971 with SCR, not including startup and shutdown periods. (Basis: cumulative increase)	Y	
Part 16	Calibrate, maintain and operate NOx CEMS except as allowed in District's Manual of Procedures, which includes maintenance and malfunction (Basis: Monitoring)	Y	
Part 17	Calibrate, maintain and operate CO CEMS except as allowed in District's Manual of Procedures, which includes maintenance and malfunction (Basis: Monitoring)	Y	
Part 18	Calibrate, maintain and operate O2 CEMS except as allowed in District's Manual of Procedures, which includes maintenance and malfunction (Basis: Monitoring)	Y	
Part 19	Natural gas burned at S-971 and S-972 shall be PUC quality gas. (basis: BACT for SO2 and BACT for PM10 when firing natural gas)	Y	
Part 20	Refinery fuel gas combusted at S-971 and S-972 shall not exceed 50 ppmv H2S, based on consecutive 365 day average, or 100 ppmv total reduced sulfur content, based on consecutive 365 day average. (Basis: BACT for SO2 when firing refinery fuel gas)	Y	
Part 21	Ammonia Slip from the SCR abating S-971 shall not exceed 20 ppmvd at 3% O2. (basis: toxics)	Y	
Part 24	Records maintained for 5 years. Daily NOx mass emissions from S-971 and S-972 shall be included in the monthly CEM reports required by BAAQMD 1-522. (basis: recordkeeping)	Y	
Part 25	Source Test ammonia from combined stack of S-971 and S-972 at firing rates at normal operation. Repeat test for 3 years then if no exceedences, reduce frequency to 5 years. (Basis: cumulative increase, offsets, toxics)	Y	
Part 26	Source test S-972 for POC, PM10, CO and NOx at a firing rate greater than or equal to 80% of maximum one year after the initial tests. If limits in Parts 8, 9, 11 and 13 are not exceeded, repeat testing every 5 years. (Basis: Cumulative Increase, Offsets, BACT, Regulation 1-107)	Y	

## IV. Source-Specific Applicable Requirements

**Table IV – C.4.8**  
**Source-specific Applicable Requirements**  
**S971–No. 53 FURNACE, S972–No. 54 FURNACE,**

**NSPS SUBPART JA BY DATE OF CONSTRUCTION, RECONSTRUCTION, MODIFICATION**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
Part 27	Source test both S-971 and S-972 for POC and PM10 at a firing rate greater than or equal to 80% of maximum one year after the initial tests. If limits in Parts 8, 9, 10 and 12 are not exceeded, repeat testing every 5 years. (Basis: Cumulative Increase, Offsets, BACT, Regulation 1-107)	Y	
Part 28	Increase or decrease in POC or PM-10 emissions as demonstrated in Part 26 and 27 will result in adjustments to plant's cumulative emissions and offsets. (Basis: Offsets)	Y	
Part 29	Source Tests in Parts 25, 26 and 27 performed simultaneously. (Basis: Cumulative Increase, Offsets, BACT, Regulation 1-107)	Y	

## IV. Source-Specific Applicable Requirements

### SECTION C.5 COMBUSTION – GAS TURBINES

**Table IV – C.5.1**  
**Source-Specific Applicable Requirements**  
**S963 Alkylation Plant Gas Turbine 177**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<b>BAAQMD Regulation 6 Rule 1</b>	<b>Particulate Matter; General Requirements (12/05/2007)</b>		
6-1-301	Ringelmann No. 1 Limitation	N	
6-1-305	Visible Particles	N	
6-1-310	Particulate Weight Limitation	N	
6-1-401	Appearance of emissions	N	
6-1-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions	N	
<b>SIP Regulation 6</b>	<b>Particulate Matter and Visible Emissions (09/04/1998)</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	
6-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions	Y	
<b>BAAQMD Regulation 9 Rule 9</b>	<b>Inorganic Gaseous Pollutants, NOx from stationary gas turbines. (12/06/2006)</b>		
9-9-113	Exemption, Inspection and Maintenance Periods	N	
9-9-113.1	Exemption, Inspection and Maintenance Periods Limited to 48 hours	N	
9-9-113.2	Exemption, Inspection and Maintenance Period Limits for non-boiler inspection years	N	
9-9-113.3	Exemption, Inspection and Maintenance Period Limits for boiler inspection years	N	
9-9-114	Exemption, Start-up and Shutdown Periods	N	
9-9-115	Limited Exemption, Minor Inspection and Maintenance Work	N	
9-9-301.2	Alternative NOx Emission Limits for Gas Turbines >50 – 150 MMBtu/hr (input)	N	
9-9-301.4	Rebuttal Option for Alternative NOx Emission Limits	N	
9-9-504	Annual Demonstration of Compliance for Turbines Without NOx CEMS	N	
9-9-601	Determination of Emissions	N	
9-9-602	Determination of Stack Gas Oxygen	Y	
9-9-603	Continuous Emission Monitoring (establishes three-hour averaging period)	N	
9-9-604	Determination of HHV and LHV	N	



## IV. Source-Specific Applicable Requirements

**Table IV – C.5.1  
 Source-Specific Applicable Requirements  
 S963 Alkylation Plant Gas Turbine 177**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
9-9-605	Compliance with Output Based NOx Emission Standards	N	
<b>SIP Regulation 9 Rule 9</b>	<b>Inorganic Gaseous Pollutants, NOx from stationary gas turbines. (12/15/1997)</b>		
9-9-113	Exemption, Inspection and Maintenance Periods	Y	
9-9-113.1	Exemption, Inspection and Maintenance Periods Limited to 48 hours	Y	
9-9-113.2	Exemption, Inspection and Maintenance Period Limits for non-boiler inspection years	Y	
9-9-113.3	Exemption, Inspection and Maintenance Period Limits for boiler inspection years	Y	
9-9-114	Exemption, Start-up and Shutdown Periods	Y	
9-9-301.1	NOx Emission Limit for Gas Turbines 0.3 MW to less than 10 MW (output)	Y	
9-9-601	Determination of Emissions	Y	
<b>40 CFR 63 Subpart YYYY</b>	<b>National Emission Standards for Hazardous Air Pollutants for Stationary Combustion Turbines (3/5/2004)</b>		
63.6085	Am I subject to this subpart	Y	
63.6085(a)	Definition of stationary combustion turbine for Subpart YYYY	Y	
63.6090	What parts of my plant does this subpart cover?	Y	
63.6090(a)	Affected source: any existing, new, or reconstructed stationary combustion turbine at major source of HAPS	Y	
63.6090(1)(1)	Definition of existing stationary combustion turbine for Subpart YYYY	Y	
63.6090(b)	Subcategories with limited requirements	Y	
63.6090(b)(4)	Subcategories with limited requirements: Existing stationary combustion turbines do not have to meet requirements of this subpart and of subpart A of this part. No initial notification is necessary for any existing stationary combustion turbine	Y	
<b>40 CFR 64</b>	<b>Compliance Assurance Monitoring (10/22/1997)</b>		
64.1	Definitions	Y	
64.2(a)	General Applicability	Y	
64.2(a)(1)	General Applicability: Subject to an emission limitation or standard for regulated air pollutant	Y	
64.2(a)(2)	General Applicability: Uses a control device to achieve compliance with emission limitation	Y	
64.2(a)(3)	General Applicability: Has pre-control device potential to emit $\geq$ major source threshold	Y	
64.3	Monitoring design criteria	Y	
64.3(a)	General criteria	Y	

## IV. Source-Specific Applicable Requirements

**Table IV – C.5.1  
 Source-Specific Applicable Requirements  
 S963 Alkylolation Plant Gas Turbine 177**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
64.3(b)	Performance criteria	Y	
64.3(c)	Evaluation factors	Y	
64.4	Submittal requirements	Y	
64.4(a)	Submit monitoring that satisfies requirements in section 64.3	Y	
64.4(b)	Submit justification for the proposed monitoring elements. Detailed justification not needed for presumptively acceptable monitoring	Y	
64.4(c)	Submit existing operating parameter data from applicable compliance or performance test on control device.	Y	
64.5	Deadlines for submittals	Y	
64.5(a)	Large pollutant-specific emissions units	Y	
64.5(b)	Other pollutant-specific emissions units	Y	
64.5(c)	Effective date to submit information under 64.4	Y	
64.5(d)	Requirements prior to approval of CAM	Y	
64.7	Operation of approved monitoring	Y	
64.7(a)	Commencement of operation	Y	
64.7(b)	Proper maintenance	Y	
64.7(c)	Continued operation	Y	
64.7(d)	Response to excursions or exceedances	Y	
64.7(e)	Documentation of need for improved monitoring	Y	
64.8	Quality improvement plan (QIP) requirements	Y	
64.8(a)	When QIP is required	Y	
64.8(b)	Elements of a QIP	Y	
64.8(c)	Preparation and implementation requirements for QIP	Y	
64.8(d)	When QIP modification is required	Y	
64.8(e)	QIP does not replace other regulatory requirements	Y	
64.9	Reporting and recordkeeping requirements	Y	
64.9(a)	General reporting requirements	Y	
64.9(b)	General recordkeeping requirements	Y	
<b>BAAQMD Condition 8077</b>			
Part B1	Definitions (basis: definitions)	Y	
Part B2	Emissions (basis: cumulative increase, BACT, offsets)	Y	
Part B3	Emission reductions (basis: cumulative increase, offsets, bubble)	Y	
Part B4	Monitoring	Y	
Part B4A	Monitoring and Source Testing (toxics, NSPS)	Y	
Part B4D	Monitoring per Table D of Appendix to this permit condition (cumulative increase, offsets)	Y	

## IV. Source-Specific Applicable Requirements

**Table IV – C.5.1  
 Source-Specific Applicable Requirements  
 S963 Alkylation Plant Gas Turbine 177**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
Part B5	Reporting and Record Keeping (cumulative increase, offsets)	Y	
Part B7	Combustion Controls (basis: cumulative increase, bubble, BACT, offsets)	Y	
Part B10	Access (cumulative increase, offsets)	Y	
Part B11	Enforcement (basis: cumulative increase, offsets)	Y	
Part B12	Miscellaneous (basis: cumulative increase, offsets)	Y	
Part B12C	Maintain equipment in good working order (basis: cumulative increase, offsets)	Y	
Part B12D	Nothing in this condition shall be construed to allow violation of any other law or regulation (basis: cumulative increase, offsets)	Y	
Part B12E	Emission reductions required by this condition shall not be eligible for banking or credited as emission reductions against cumulative increases (basis: cumulative increase, offsets)	Y	
Part B12F	Annual limits in B2 shall be adjusted consistent with BAAQMD rule changes (basis: cumulative increase, offsets)	Y	
Part B12G	Baseline emissions (basis: cumulative increase, offsets)	Y	
Part B12J	Instrument downtime (basis: cumulative increase, offsets)	Y	
Part B12K	Breakdowns, malfunctions, and other causes for emission exceedances (basis: cumulative increase, offsets)	Y	
Part B12L	Adjustment of CO limits based on modeling (basis: cumulative increase, offsets)	Y	
Part B13	Severability (basis: cumulative increase, offsets)	Y	
Part B14	Environmental Management Plan (basis: cumulative increase, offsets)	Y	
<b>BAAQMD Condition 19528</b>			
Part 19	Annual source test – NOx emission limit compliance [Basis: Regulation 9-9-301.1]	Y	
Part 21	Monitoring Requirements (basis: Regulations 2-1-403, 2-6-503, 40 CFR 64)	Y	
Part 22	Recordkeeping Requirements (basis: Regulations 2-1-403, 2-6-503, 40 CFR 64)	Y	
Part 23	Reporting Requirements (basis: Regulations 2-1-403, 2-6-503, 40 CFR 64.9)	Y	

## IV. Source-Specific Applicable Requirements

### SECTION D LIQUID LOADING

**Table IV – D.1  
 Source-specific Applicable Requirements  
 Facility B2759 S55 – AMORCO WHARF TERMINAL  
 Unloading Only**

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 Tank Vessel Operations (12/07/2005)</b>		
8-44-110	Exemption: small loading events	N	
8-44-111	Exemption: marine vessel fueling	N	
8-44-115	Exemption: safety/emergency operations	N	
8-44-116	Limited Exemption: equipment leaks – Can comply with BAAQMD 8-18 rather than 8-44-305	N	
8-44-301	Limitations on Marine Tank Vessel Loading and Lightering	N	
8-44-301.1	Loading regulated organic liquid in marine tank vessel must comply with control requirements in 8-44-304	N	
8-44-301.2	Loading any liquid into marine tank vessel must comply with control requirements in 8-44-304 when last load in vessel was regulated organic liquid	N	
8-44-302	Limitations on Marine Tank Vessel Ballasting in vessels where last load was regulated organic liquid	N	
8-44-303	Limitations on Marine Tank Vessel Venting for regulated organic liquids or where last load was regulated organic liquid	N	
8-44-304	Emission Control Requirements for loading (8-44-301), Ballasting (8-44-302), and Venting (8-44-303) [must comply with both requirements]	N	
8-44-304.1	Comply with emissions limit: 5.7 g/cubic meter (2 lb/1000 barrels loaded) or reduce emissions by 95%; AND	N	
8-44-304.2	Use emission control equipment	N	
8-44-305	Equipment Leaks (Exempt per 8-44-116 – Complies with Regulation 8-18)	N	
8-44-403	Notification Regarding Safety/Emergency Exemption	N	
8-44-501	Record keeping – Marine Terminals	N	
8-44-501.1	Record keeping – Marine Terminals; Loading Event (8-44-301) Records	N	
8-44-501.2	Record keeping – Marine Terminals; Ballasting Event (8-44-302) Records	N	
8-44-501.3	Record keeping – Marine Terminals; Venting Event (8-44-303) Records	N	
8-44-503	Recordkeeping - Exemptions	N	
8-44-503.1	Recordkeeping – Exemptions – 8-44-110	N	
8-44-503.2	Recordkeeping – Exemptions – 8-44-111	N	
8-44-503.3	Recordkeeping – Exemptions – 8-44-115	N	
8-44-504	Burden of proof	N	
8-44-601	Determination of Emission Factors and Emission Control Equipment Efficiencies	N	
8-44-603	Leak Determinations	N	
8-44-604	Flash Point Determinations	N	

## IV. Source-Specific Applicable Requirements

**Table IV – D.1  
 Source-specific Applicable Requirements  
 Facility B2759 S55 – AMORCO WHARF TERMINAL  
 Unloading Only**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<b>SIP Regulation 8 Rule 44</b>	<b>Organic Compounds - Marine Vessel Loading Terminals (08/30/1993)</b>		
8-44-110	Exemption: loading events	Y	
8-44-111	Exemption: marine vessel fueling	Y	
8-44-301	Marine Terminal Loading Limit	Y	
8-44-301.1	Limited to 5.7 gram per cubic meter (2 lb per 1000 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	
8-44-402	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	
8-44-601	Determination of Emissions	Y	
8-44-602	Efficiency and Mass Emission Determination (Vapor Processing System)	Y	
8-44-603	Leak Tests and Gas Tight Determinations	Y	
<b>40 CFR 63 Subpart Y</b>	<b>NESHAPS for Marine Vessel Loading of Organic Liquids (04/20/2006)                      S55 is normally used for unloading only. S55 is exempt from Subpart Y unless loading material with vapor pressure of 1.5 psia or higher.</b>		
63.560	Applicability and designation of affected source	Y	
63.560(a)	Maximum Achievable Control Technology (MACT) Applicability	Y	
63.560(a)(2)	Maximum Achievable Control Technology (MACT) Applicability; Existing sources with emissions less than 10 and 25 tons are not subject to MACT Standards	Y	
63.560(a)(3)	Maximum Achievable Control Technology (MACT) Applicability; Existing sources with emissions less than 10 and 25 tons are subject to recordkeeping at 63.567(j)(4) and emissions estimates at 63.565(l)	Y	
63.560(b)	Reasonably Achievable Control Technology (RACT) Applicability	Y	

## IV. Source-Specific Applicable Requirements

**Table IV – D.1  
 Source-specific Applicable Requirements  
 Facility B2759 S55 – AMORCO WHARF TERMINAL  
 Unloading Only**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
63.560(b)(2)	Reasonably Achievable Control Technology (RACT) Applicability: Sources with throughputs less than 10 M barrels (gasoline) and 200M barrels (crude oil) are not subject to RACT Standards	Y	
63.560(c)	Comply with 40 CFR 63 Subpart A per Table 1	Y	
63.560(d)	Exemptions from MACT & RACT Standards	Y	
63.560(d)(1)	Exemptions from MACT & RACT Standards – Sources are exempt from Subpart Y when loading commodities with vapor pressure less than 1.5 psia at standard conditions (20 C and atmospheric pressure)	Y	
63.560(d)(3)	Exemptions from MACT and RACT Standards – marine tank vessel loading operations at sources subject to 40 CFR 63 Subpart CC are exempt from Subpart Y except as required by Subpart CC	Y	
63.560(d)(7)	Exemptions from MACT & RACT Standards – marine tank vessel ballasting operations are exempt from Subpart Y	Y	
63.561	Definitions	Y	
63.562	Standards	Y	
63.562(b)	Vapor collection system required	Y	
63.562(b)(2)	MACT for existing sources: Destruction efficiency > 97% by weight	Y	
63.565	Test Methods and Procedures	Y	
63.565(l)	Test Methods and Procedures: Emissions estimation procedures	Y	
63.567	Recordkeeping and reporting requirements	Y	
63.567(b)	Recordkeeping and reporting requirements; Notification requirements of 63.9	Y	
63.567(b)(1)	Recordkeeping and reporting requirements; Notification requirements; Applicability changes and source becomes subject to subpart	Y	
63.567(j)	Recordkeeping and reporting requirements: Emission estimation reporting and recordkeeping procedures.	Y	
63.567(j)(4)	Recordkeeping and reporting requirements: Emission estimation reporting and recordkeeping procedures; for sources subject to 63.560(a)(3); retain records of emissions estimates determined in §65.565(l) and records of actual throughputs by commodity, for 5 years.	Y	
<b>40 CFR 63 Subpart CC</b>	<b>NESHAPS for Source Categories - Petroleum Refineries (06/23/2003)</b>		
63.640(a)	Applicability and Designation of Affected Sources	Y	
63.640(c)(6)	Applicability and Designation of Affected Sources: Marine Terminals	Y	
63.651	Marine Vessel Tank Loading Operations Provisions	Y	
63.651(a)	Marine Vessel Tank Loading Operations Provisions; comply with 63 Subpart Y [63.560 through 63.567]	Y	
63.651(b)	Marine Vessel Tank Loading Operations Provisions; definitions	Y	
63.651(c)	Marine Vessel Tank Loading Operations Provisions; exceptions from 63 Subpart Y – initial notification report	Y	
63.651(d)	Marine Vessel Tank Loading Operations Provisions; exceptions from 63 Subpart Y – compliance time	Y	

#### IV. Source-Specific Applicable Requirements

**Table IV – D.1  
 Source-specific Applicable Requirements  
 Facility B2759 S55 – AMORCO WHARF TERMINAL  
 Unloading Only**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<b>BAAQMD Condition 8077</b>			
Part B2	Emissions – see Table A of Appendix A	Y	
Part B2A	Emissions Cap – annual limits	Y	
Part B2B	Emissions Cap – monthly limits	Y	
Part B2C	Emissions Cap – monthly compensatory emission limits	Y	
Part B2D	Emissions Cap – total accumulated emissions in calendar year limit	Y	
Part B5	Reporting and Recordkeeping	Y	
Appendix A.1	Emission points covered by the hydrocarbon limits of Part B2	Y	
Appendix A.2	Emission points covered by the nitrogen oxide limits of Part B2	Y	
Appendix A.3	Emission points covered by the sulfur oxide limits of Part B2	Y	
Appendix A.4	Emission points covered by the carbon monoxide limits of Part B2	Y	
Appendix A.5	Emission points covered by the particulate limits of Part B2	Y	
Appendix B	Data for determining emissions from marine activity	Y	
<b>BAAQMD Condition 22455</b>			
Part 8	Throughput Limit (basis: cumulative increase, offsets, toxic risk screen)	Y	
Part 10	Shall not transfer material received at wharf to another refinery via pipeline	Y	
Part 11	Prohibition on crude shipping	Y	
Part 12	Records	Y	

**Table IV – D.2  
 Source-specific Applicable Requirements  
 S100 – AVON WHARF LOADING BERTH NO. 1  
 WITH A-14 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 Tank Vessel Operations (12/07/2005)</b>		
8-44-110	Exemption: small loading events	N	
8-44-111	Exemption: marine vessel fueling	N	
8-44-115	Exemption: safety/emergency operations	N	

## IV. Source-Specific Applicable Requirements

**Table IV – D.2**  
**Source-specific Applicable Requirements**  
**S100 – AVON WHARF LOADING BERTH NO. 1**  
**WITH A-14 VAPOR RECOVERY**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
8-44-116	Limited Exemption: equipment leaks – Can comply with BAAQMD 8-18 rather than 8-44-305	N	
8-44-301	Limitations on Marine Tank Vessel Loading and Lightering	N	
8-44-301.1	Loading regulated organic liquid in marine tank vessel must comply with control requirements in 8-44-304	N	
8-44-301.2	Loading any liquid into marine tank vessel must comply with control requirements in 8-44-304 when last load in vessel was regulated organic liquid	N	
8-44-302	Limitations on Marine Tank Vessel Ballasting in vessels where last load was regulated organic liquid	N	
8-44-303	Limitations on Marine Tank Vessel Venting for regulated organic liquids or where last load was regulated organic liquid	N	
8-44-304	Emission Control Requirements for loading (8-44-301), Ballasting (8-44-302), and Venting (8-44-303) [must comply with both requirements]	N	
8-44-304.1	Comply with emissions limit: 5.7 g/cubic meter (2 lb/1000 barrels loaded) or reduce emissions by 95%; AND	N	
8-44-304.2	Use emission control equipment	N	
8-44-305	Equipment Leaks	N	
8-44-403	Notification Regarding Safety/Emergency Exemption	N	
8-44-501	Record keeping – Marine Terminals	N	
8-44-501.1	Record keeping – Marine Terminals; Loading Event (8-44-301) Records	N	
8-44-501.2	Record keeping – Marine Terminals; Ballasting Event (8-44-302) Records	N	
8-44-501.3	Record keeping – Marine Terminals; Venting Event (8-44-303) Records	N	
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	
8-44-503	Recordkeeping - Exemptions	N	
8-44-503.1	Recordkeeping – Exemptions – 8-44-110	N	
8-44-503.2	Recordkeeping – Exemptions – 8-44-111	N	
8-44-503.3	Recordkeeping – Exemptions – 8-44-115	N	
8-44-504	Burden of proof	N	



## IV. Source-Specific Applicable Requirements

**Table IV – D.2**  
**Source-specific Applicable Requirements**  
**S100 – AVON WHARF LOADING BERTH NO. 1**  
**WITH A-14 VAPOR RECOVERY**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
8-44-601	Determination of Emission Factors and Emission Control Equipment Efficiencies	N	
8-44-603	Leak Determinations	N	
8-44-604	Flash Point Determinations	N	
<b>SIP Regulation 8 Rule 44</b>	<b>Organic Compounds - Marine Vessel Loading Terminals (08/30/1993)</b>		
8-44-110	Exemption: loading events	Y	
8-44-111	Exemption: marine vessel fueling	Y	
8-44-301	Marine Terminal Loading Limit	Y	
8-44-301.1	Limited to 5.7 gram per cubic meter (2 lb per 1000 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	
8-44-402	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	
8-44-601	Determination of Emissions	Y	
8-44-602	Efficiency and Mass Emission Determination (Vapor Processing System)	Y	
8-44-603	Leak Tests and Gas Tight Determinations	Y	

## IV. Source-Specific Applicable Requirements

**Table IV – D.2**  
**Source-specific Applicable Requirements**  
**S100 – AVON WHARF LOADING BERTH NO. 1**  
**WITH A-14 VAPOR RECOVERY**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
<b>40 CFR 63 Subpart Y</b>	<b>NESHAPS for Marine Vessel Loading of Organic Liquids (04/20/2006)</b>		
63.560(a)	Maximum Achievable Control Technology (MACT) Applicability	Y	
63.560(a)(2)	Maximum Achievable Control Technology (MACT) Applicability; Existing sources with emissions less than 10 and 25 tons are not subject to MACT Standards	Y	
63.560(a)(3)	Maximum Achievable Control Technology (MACT) Applicability; Existing sources with emissions less than 10 and 25 tons are subject to recordkeeping at 63.567(j)(4) and emissions estimates at 63.565(l)	Y	
63.560(b)	Reasonably Achievable Control Technology (RACT) Applicability	Y	
63.560(b)(2)	Reasonably Achievable Control Technology (RACT) Applicability; Sources with throughputs less than 10 M barrels (gasoline) and 200M barrels (crude oil) are not subject to RACT Standards	Y	
63.560(c)	Comply with 40 CFR 63 Subpart A per Table 1	Y	
63.560(d)(3)	Exemptions from MACT and RACT Standards – marine tank vessel loading operations at sources subject to 40 CFR 63 Subpart CC are exempt from Subpart Y except as required by Subpart CC	Y	
63.560(d)(7)	Exemptions from MACT & RACT Standards – marine tank vessel ballasting operations are exempt from Subpart Y	Y	
63.561	Definitions	Y	
63.562	Standards	Y	
63.562(b)	Vapor collection system required	Y	
63.562(b)(2)	MACT for existing sources: Destruction efficiency > 97% by weight	Y	
63.560(d)(7)	Exemptions from MACT & RACT Standards – marine tank vessel ballasting operations are exempt from Subpart Y	Y	
63.561	Definitions	Y	
63.560(d)(7)	Exemptions from MACT & RACT Standards – marine tank vessel ballasting operations are exempt from Subpart Y	Y	
63.561	Definitions	Y	
63.560(d)(7)	Exemptions from MACT & RACT Standards – marine tank vessel ballasting operations are exempt from Subpart Y	Y	
63.561	Definitions	Y	
63.560(d)(7)	Exemptions from MACT & RACT Standards – marine tank vessel ballasting operations are exempt from Subpart Y	Y	

## IV. Source-Specific Applicable Requirements

**Table IV – D.2**  
**Source-specific Applicable Requirements**  
**S100 – AVON WHARF LOADING BERTH NO. 1**  
**WITH A-14 VAPOR RECOVERY**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
<b>40 CFR 63 Subpart CC</b>	<b>NESHAPS for Source Categories - Petroleum Refineries (06/23/2003)</b>		
63.640(a)	Applicability and Designation of Affected Sources	Y	
63.640(c)(6)	Applicability and Designation of Affected Sources: Marine Terminals	Y	
63.640(d)	Applicability and Designation of Affected Sources: Exclusions	Y	
63.640(d)(5)	The affected source subject to this subpart does not include emission points routed to a fuel gas system	Y	
63.651	Marine Vessel Tank Loading Operations Provisions	Y	
63.651(a)	Marine Vessel Tank Loading Operations Provisions; comply with 63 Subpart Y [63.560 through 63.567]	Y	
63.651(b)	Marine Vessel Tank Loading Operations Provisions; definitions	Y	
63.651(c)	Marine Vessel Tank Loading Operations Provisions; exceptions from 63 Subpart Y – initial notification report	Y	
63.651(d)	Marine Vessel Tank Loading Operations Provisions; exceptions from 63 Subpart Y – compliance time	Y	
<b>BAAQMD Condition 878</b>			
Part 1	Emission factors (basis: cumulative increase)	Y	
Part 2	Requirement for pressure recorder/controller, related record keeping, and record retention (basis: cumulative increase)	Y	
Part 3	Leak testing requirement (basis: cumulative increase)	Y	
Part 4	Use of “Non-Vapor Recovery” emission factors (basis: cumulative increase)	Y	
Part 5	Data for determining emissions from marine activity	Y	
<b>BAAQMD Condition 8077</b>			
Part B2	Emissions – see Table A of Appendix A	Y	
Part B2A	Emissions Cap – annual limits	Y	
Part B2B	Emissions Cap – monthly limits	Y	
Part B2C	Emissions Cap – monthly compensatory emission limits	Y	
Part B2D	Emissions Cap – total accumulated emissions in calendar year limit	Y	
Part B5	Reporting and Recordkeeping	Y	
Appendix A.1	Emission points covered by the hydrocarbon limits of Section B2	Y	

#### IV. Source-Specific Applicable Requirements

**Table IV – D.2**  
**Source-specific Applicable Requirements**  
**S100 – AVON WHARF LOADING BERTH NO. 1**  
**WITH A-14 VAPOR RECOVERY**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
Appendix A.2	Emission points covered by the nitrogen oxide limits of Section B2	Y	
Appendix A.3	Emission points covered by the sulfur oxide limits of Section B2	Y	
Appendix A.4	Emission points covered by the carbon monoxide limits of Section B2	Y	
Appendix A.5	Emission points covered by the particulate limits of Section B2	Y	
Appendix B	Data for determining emissions from marine activity	Y	

**Table IV – D.3**  
**Source-specific Applicable Requirements**  
**S101 – TRUCK UNLOADING RACK – TRACT 2**

<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 (02/02/1994)</b>		
8-6-101	Description: applicability	Y	
8-6-110	Exemption, Low Vapor Pressure Organic Liquids – this rule does not apply to loading and delivery of any organic liquid with TVP < 0.5 psia	Y	
8-6-114	Exemption, Maintenance and Repair	Y	
8-6-304	Deliveries to Storage Tanks	Y	
8-6-305	Delivery Vehicle Requirements	Y	
8-6-306	Equipment Maintenance	Y	
8-6-307	Operating practices	Y	
8-6-501	Records	Y	
8-6-502	Portable Hydrocarbon Detector	Y	
8-6-503	Burden of Proof for exemptions	Y	
8-6-601	Efficiency and Rate Determination	Y	
8-6-603	Analysis of Samples, True Vapor Pressure	Y	
8-6-604	Determination of Applicability	Y	

## IV. Source-Specific Applicable Requirements

**Table IV – D.4**  
**Source-specific Applicable Requirements**  
**S108 – AVON WHARF LOADING BERTH NO. 5**  
**MARINE BULK PLANT**

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 Tank Vessel Operations (12/07/2005)</b>		
8-44-110	Exemption: small loading events	N	
8-44-111	Exemption: marine vessel fueling	N	
8-44-115	Exemption: safety/emergency operations	N	
8-44-116	Limited Exemption: equipment leaks – Can comply with BAAQMD 8-18 rather than 8-44-305	N	
8-44-301	Limitations on Marine Tank Vessel Loading and Lightering	N	
8-44-302	Limitations on Marine Tank Vessel Ballasting	N	
8-44-303	Limitations on Marine Tank Vessel Venting	N	
8-44-304	Emission Control Requirements [must comply with both requirements to load, ballast, or vent involving regulated organic liquids]	N	
8-44-304.1	Emission Control Requirements for regulated organic liquids: Comply with emissions limit: 5.7 g/cubic meter (2 lb/1000 barrels loaded) or reduce emissions by 95%; AND	N	
8-44-304.2	Emission Control Requirements for regulated organic liquids: Use emission control equipment	N	
8-44-305	Equipment Leaks	N	
8-44-403	Notification Regarding Safety/Emergency Exemption	N	
8-44-501	Record keeping – Marine Terminals	N	
8-44-501.1	Record keeping – Marine Terminals; Loading Event Records	N	
8-44-501.2	Record keeping – Marine Terminals; Ballasting Event Records	N	
8-44-501.3	Record keeping – Marine Terminals; Venting Event Records	N	
8-44-503	Recordkeeping - Exemptions	N	
8-44-503.1	Recordkeeping – Exemptions – 8-44-110	N	
8-44-503.2	Recordkeeping – Exemptions – 8-44-111	N	
8-44-503.3	Recordkeeping – Exemptions – 8-44-115	N	
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	

## IV. Source-Specific Applicable Requirements

**Table IV – D.4**  
**Source-specific Applicable Requirements**  
**S108 – AVON WHARF LOADING BERTH NO. 5**  
**MARINE BULK PLANT**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
8-44-504	Burden of proof	N	
8-44-601	Determination of Emission Factors and Emission Control Equipment Efficiencies	N	
8-44-603	Leak Determinations	N	
8-44-604	Flash Point Determinations	N	
<b>SIP Regulation 8 Rule 44</b>	<b>Organic Compounds - Marine Vessel Loading Terminals (08/30/1993)</b>		
8-44-110	Exemption: loading events	Y	
8-44-111	Exemption: marine vessel fueling	Y	
8-44-301	Marine Terminal Loading Limit	Y	
8-44-301.1	Limited to 5.7 gram per cubic meter (2 lb per 1000 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	
8-44-402	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	
8-44-601	Determination of Emissions	Y	
8-44-602	Efficiency and Mass Emission Determination (Vapor Processing System)	Y	
8-44-603	Leak Tests and Gas Tight Determinations	Y	

## IV. Source-Specific Applicable Requirements

**Table IV – D.4**  
**Source-specific Applicable Requirements**  
**S108 – AVON WHARF LOADING BERTH NO. 5**  
**MARINE BULK PLANT**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<b>40 CFR 63 Subpart Y</b>	<b>NESHAPS for Marine Vessel Loading of Organic Liquids (04/20/2006)</b>		
63.560(a)	Maximum Achievable Control Technology (MACT) Applicability	Y	
63.560(a)(2)	Maximum Achievable Control Technology (MACT) Applicability; Existing sources with emissions less than 10 and 25 tons are not subject to MACT Standards	Y	
63.560(a)(3)	Maximum Achievable Control Technology (MACT) Applicability; Existing sources with emissions less than 10 and 25 tons are subject to recordkeeping at 63.567(j)(4) and emissions estimates at 63.565(l)	Y	
63.560(b)	Reasonably Achievable Control Technology (RACT) Applicability	Y	
63.560(b)(2)	Reasonably Achievable Control Technology (RACT) Applicability: Sources with throughputs less than 10 M barrels (gasoline) and 200M barrels (crude oil) are not subject to RACT Standards	Y	
63.560(c)	Comply with 40 CFR 63 Subpart A per Table 1	Y	
63.560(d)(1)	Exemptions from MACT & RACT Standards – Sources are exempt from Subpart Y when loading commodities with vapor pressure less than 1.5 psia at standard conditions (20 C and atmospheric pressure)	Y	
63.560(d)(3)	Exemptions from MACT and RACT Standards – marine tank vessel loading operations at sources subject to 40 CFR 63 Subpart CC are exempt from Subpart Y except as required by Subpart CC	Y	
63.560(d)(7)	Exemptions from MACT & RACT Standards – marine tank vessel ballasting operations are exempt from Subpart Y	Y	
63.561	Definitions	Y	
63.562	Standards	Y	
63.562(b)	Vapor collection system required	Y	
63.562(b)(2)	MACT for existing sources: Destruction efficiency > 97% by weight	Y	
63.565	Test Methods and Procedures	Y	
63.565(l)	Test Methods and Procedures: Emissions estimation procedures	Y	
63.567	Recordkeeping and reporting requirements	Y	
63.567(b)	Recordkeeping and reporting requirements; Notification requirements of 63.9	Y	
63.567(b)(1)	Recordkeeping and reporting requirements; Notification requirements; Applicability changes and source becomes subject to subpart	Y	
63.567(j)	Recordkeeping and reporting requirements: Emission estimation reporting and recordkeeping procedures.	Y	
63.567(j)(4)	Recordkeeping and reporting requirements: Emission estimation reporting and recordkeeping procedures; for sources subject to 63.560(a)(3); retain records of emissions estimates determined in §63.565(l) and records of actual throughputs by commodity, for 5 years.	Y	
<b>40 CFR 63 Subpart CC</b>	<b>NESHAPS for Source Categories - Petroleum Refineries (06/23/2003)</b>		

## IV. Source-Specific Applicable Requirements

**Table IV – D.4**  
**Source-specific Applicable Requirements**  
**S108 – AVON WHARF LOADING BERTH NO. 5**  
**MARINE BULK PLANT**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
63.640(a)	Applicability and Designation of Affected Sources	Y	
63.640(c)(6)	Applicability and Designation of Affected Sources: Marine Terminals	Y	
63.651	Marine Vessel Tank Loading Operations Provisions	Y	
63.651(a)	Marine Vessel Tank Loading Operations Provisions; comply with 63 Subpart Y [63.560 through 63.567]	Y	
63.651(b)	Marine Vessel Tank Loading Operations Provisions; definitions	Y	
63.651(c)	Marine Vessel Tank Loading Operations Provisions; exceptions from 63 Subpart Y – initial notification report	Y	
63.651(d)	Marine Vessel Tank Loading Operations Provisions; exceptions from 63 Subpart Y – compliance time	Y	
<b>BAAQMD Condition 8077</b>			
Part B2	Emissions – see Table A of Appendix A	Y	
Part B2A	Emissions Cap – annual limits	Y	
Part B2B	Emissions Cap – monthly limits	Y	
Part B2C	Emissions Cap – monthly compensatory emission limits	Y	
Part B2D	Emissions Cap – total accumulated emissions in calendar year limit	Y	
Part B5	Reporting and Recordkeeping	Y	
Appendix A.1	Emission points covered by the hydrocarbon limits of Part B2	Y	
Appendix A.2	Emission points covered by the nitrogen oxide limits of Part B2	Y	
Appendix A.3	Emission points covered by the sulfur oxide limits of Part B2	Y	
Appendix A.4	Emission points covered by the carbon monoxide limits of Part B2	Y	
Appendix A.5	Emission points covered by the particulate limits of Part B2	Y	
Appendix B	Data for determining emissions from marine activity	Y	



## IV. Source-Specific Applicable Requirements

**Table IV – D.5**  
**Source-specific Applicable Requirements**  
**S115 – BULK PLANT TRUCK/RAIL**  
**CAUSTIC WASTE LOADING RACK**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<b>BAAQMD Regulation 8 Rule 6</b>	<b>Organic Compounds - Organic Liquid Bulk Terminals and Bulk Plants (02/02/1994)</b>		
8-6-101	Description: applicability	Y	
8-6-110	Exemption, Low Vapor Pressure Organic Liquids – this rule does not apply to loading and delivery of any organic liquid with TVP < 0.5 psia	Y	
8-6-114	Exemption, Maintenance and Repair	Y	
8-6-302	Bulk plant limitations	Y	
8-6-305	Delivery vehicle requirements	Y	
8-6-306	Equipment Maintenance	Y	
8-6-307	Operating practices	Y	
8-6-501	Records	Y	
8-6-502	Portable Hydrocarbon Detector	Y	
8-6-503	Burden of Proof for exemptions	Y	
8-6-601	Efficiency and Rate Determination	Y	
8-6-603	Analysis of Samples, True Vapor Pressure	Y	
8-6-604	Determination of Applicability	Y	

**Table IV – D.6**  
**Source-specific Applicable Requirements**  
**S126, S127 – EXEMPT LPG LOADING RACKS**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<b>BAAQMD Regulation 8 Rule 6</b>	<b>Organic Compounds - Organic Liquid Bulk Terminals and Bulk Plants (02/02/1994)</b>		
8-6-101	Description: applicability	Y	
8-6-117	Exemption, Liquified Organic Gases	Y	
8-6-503	Burden of Proof	Y	

**IV. Source-Specific Applicable Requirements**

**Table IV – D.7  
 Source-specific Applicable Requirements  
 S1025-BULK PLANT TRUCK  
 BOTTOM LOADING RACK – GASOLINE, NAPHTHA, KEROSENE, FUEL OIL AND DIESEL  
 ABATED BY A14 VAPOR RECOVERY**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
<b>Applicable to Non-Gasoline Loading Only</b>			
<b>BAAQMD Regulation 8 Rule 6</b>	<b>Organic Compounds - Organic Liquid Bulk Terminals and Bulk Plants (02/02/1994)</b>		
8-6-101	Description: applicability	Y	
8-6-110	Exemption, Low Vapor Pressure Organic Liquids – this rule does not apply to loading and delivery of any organic liquid with TVP < 0.5 psia	Y	
8-6-114	Exemption, Maintenance and Repair	Y	
8-6-301	Bulk terminal limitations	Y	
8-6-304	Deliveries to Storage Tanks	Y	
8-6-305	Delivery vehicle requirements	Y	
8-6-306	Equipment Maintenance	Y	
8-6-307	Operating practices	Y	
8-6-501	Records	Y	
8-6-502	Portable Hydrocarbon Detector	Y	
8-6-503	Burden of Proof for exemptions	Y	
8-6-601	Efficiency and Rate Determination	Y	
8-6-603	Analysis of Samples, True Vapor Pressure	Y	
8-6-604	Determination of Applicability	Y	
<b>Applicable to Gasoline Loading Only</b>			
<b>BAAQMD Regulation 8 Rule 33</b>	<b>Organic Compounds - Gasoline Bulk Terminals And Gasoline Delivery Vehicles (04/15/2009)</b>		
8-33-101	Description: applicability	N	
8-33-112	Exemption: Tank Gauging and Inspection	N	
8-33-113	Exemption: Maintenance and Repair	N	
8-33-114	Exemption, CARB Certification	N	
8-33-116	Limited Exemption, Source Test Requirements -- emissions routed to fuel gas system exempt from 8-33-309.4 emission factor source test requirement if other requirements met	N	
8-33-205	Liquid Leak Free: < 3 drops/minute or 10 mL per disconnect	N	
8-33-216	Vapor Leak Free: < 3,000 ppm or 6% of LEL	N	

## IV. Source-Specific Applicable Requirements

**Table IV – D.7**  
**Source-specific Applicable Requirements**  
**S1025-BULK PLANT TRUCK**  
**BOTTOM LOADING RACK – GASOLINE, NAPHTHA, KEROSENE, FUEL OIL AND DIESEL**  
**ABATED BY A14 VAPOR RECOVERY**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
8-33-301	Final gasoline bulk terminal limitations	N	
8-33-301.1	CARB certified vapor recovery system required	N	
8-33-301.2	VOC limitation: 0.04 lb/1000 gallons of organic liquid loaded	N	
8-33-303	Bottom fill requirement	N	
8-33-304	Gasoline Cargo Tank Requirements	N	
8-33-304.1	Vapor Integrity Requirement	N	
8-33-304.2	Vapor recovery requirement	N	
8-33-304.4	Purging requirement	N	
8-33-304.5	Drainage Requirement	N	
8-33-304.6	Vapor Tight Requirement	N	
8-33-304.7	Vapor Leak Requirement	N	
8-33-304.8	Liquid Leak Requirements	N	
8-33-304.9	Compatible Connectors Requirement	N	
8-33-304.10	Vapor Hose Storage Requirement	N	
8-33-304.11	Maintenance Requirement	N	
8-33-305	Gasoline Bulk Terminal Equipment Maintenance and Repair	N	
8-33-305.1	Good Working Order	N	
8-33-305.2	Transfer retained gasoline to portable maintenance containers or slop tank prior to maintenance, openings in a closed position	N	
8-33-305.3	Leak free portable maintenance containers	N	
8-33-305.4	Backpressure monitors	N	
8-33-306	Operating practices	N	
8-33-307	Loading practices	N	
8-33-307.1	Compatible Connectors Requirement	N	
8-33-307.2	CARB-certified vapor recovery system requirement	N	
8-33-309	Gasoline Bulk Terminal Vapor Recovery System Requirements	N	
8-33-309.1	CARB Certified Vapor Recovery System requirement	N	
8-33-309.2	Cargo tank/vapor hose interface gauge pressure requirement	N	
8-33-309.3	Good working order	N	
8-33-309.5	Vapor Leak Requirement	N	
8-33-309.6	Liquid Leak Requirements	N	
8-33-309.7	Block or vapor check valve requirement	N	
8-33-309.8	Daily inspection of P/V valves, liquid fill, and vapor hose connections	N	

## IV. Source-Specific Applicable Requirements

**Table IV – D.7**  
**Source-specific Applicable Requirements**  
**S1025-BULK PLANT TRUCK**  
**BOTTOM LOADING RACK – GASOLINE, NAPHTHA, KEROSENE, FUEL OIL AND DIESEL**  
**ABATED BY A14 VAPOR RECOVERY**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
8-33-309.9	Vapor hose hanger requirement	N	
8-33-309.10	Install backpressure monitor, conduct annual correlation test	N	
8-33-309.11	Backpressure monitoring and limiting system requirement	N	
8-33-309.11.1	Option 1: Install an alarm and recording system	N	
8-33-309.12	Backpressure exceedance - shutdown and notification requirement	N	
8-33-309.13	Parametric monitoring requirement	N	
8-33-309.13.2	Option 2: Alternate parametric monitoring protocol	N	
8-33-309.14	Monitor parametric limits and parametric exceedance notification	N	
8-33-309.15	P/V sample line requirement	N	
8-33-401	Equipment installation and modification	N	
8-33-401.1	Comply with Reg. 2, Rule 1	N	
8-33-401.2	Submit CARB certification application before undertaking:	N	
8-33-401.2.1	Operation of a new or replacement vapor recovery system	N	
8-33-401.2.2	Replacement or modification of equipment that will exceed CARB throughput limits	N	
8-33-401.2.3	Operation of a vapor recovery system in a non-certified CARB mode	N	
8-33-401.2.4	Submittal of an application for a revised BAAQMD Permit to Operate	N	
8-33-403	Bulk Terminal Monitoring, Inspection, Notification and Reporting Requirements – develop a plan that meets the following requirements	N	
8-33-403.1	40 CFR Part 60, Subpart XX, §60.502	N	
8-33-403.2	40 CFR Part 63, Subpart R, §63.424, §63.425, §63.427, §63.428	N	
8-33-403.4	Sections 8-33-309.8, 309.11, 309.12, and 309.14	N	
8-33-501	Burden of proof (exemptions)	N	
8-33-504	Pressure/Vacuum Valve, Liquid Fill and Vapor Hose Connector Leak Check Records	N	
8-33-505	Loading Rack Backpressure Records	N	
8-33-506	Parametric Correlation Records	N	
8-33-507	Parametric Variable Monitoring Records	N	
8-33-601	Emission Rate Determination (Vapor Processing Systems)	N	
8-33-603	Back Pressure Determination from Vapor Recovery Systems	N	
8-33-604	Vapor Tight (Gasoline Cargo Tanks)	N	
8-33-605	Analysis of Samples	N	
8-33-606	Vapor Leak Concentration Determination	N	

**IV. Source-Specific Applicable Requirements**

**Table IV – D.7  
 Source-specific Applicable Requirements  
 S1025-BULK PLANT TRUCK  
 BOTTOM LOADING RACK – GASOLINE, NAPHTHA, KEROSENE, FUEL OIL AND DIESEL  
 ABATED BY A14 VAPOR RECOVERY**

<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 33</b>	<b>Organic Compounds - Gasoline Bulk Terminals And Gasoline Delivery Vehicles (04/03/95)</b>		
8-33-101	Description: Applicability	Y	
8-33-113	Exemption: Maintenance and Repair	Y	
8-33-301	Final gasoline bulk terminal limitations	Y	
8-33-303	Bottom fill requirement	Y	
8-33-304	Delivery vehicle requirements	Y	
8-33-304.1	Vapor Integrity Requirement	Y	
8-33-304.2	Vapor Recovery Requirement	Y	
8-33-304.4	Purging requirement	Y	
8-33-305	Equipment Maintenance	Y	
8-33-306	Operating Practices	Y	
8-33-307	Loading Practices	Y	
8-33-309	Vapor Recovery System Requirements – Loading Rack	Y	
8-33-401	Equipment installation and modification	Y	
8-33-501	Burden of proof (exemptions)	Y	
8-33-601	Emission Rate Determination (Vapor Processing Systems)	Y	
8-33-605	Analysis of Samples	Y	
<b>40 CFR 63 Subpart CC</b>	<b>NESHAPS for Source Categories - Petroleum Refineries (06/23/2003)</b>		
63.640(a)	Applicability and designation of affected source; petroleum refining process units and to related emissions points specified in paragraphs (c)(5) through (c)(8)	Y	
63.640(a)(1)	At major source	Y	
63.640(a)(2)	Contain HAPs listed in Table 1	Y	
63.640(c)	Emission points included in affected source	Y	
63.640(c)(5)	Gasoline Loading Racks	Y	
63.640(d)	Emission points excluded from affected source	Y	
63.640(d)(5)	The affected source subject to this subpart does not include emission points routed to a fuel gas system. No testing, monitoring, recordkeeping, or reporting is required for refinery fuel gas systems or emission points routed to refinery fuel gas systems.	Y	
63.641	Definitions	Y	

## IV. Source-Specific Applicable Requirements

**Table IV – D.7**  
**Source-specific Applicable Requirements**  
**S1025-BULK PLANT TRUCK**  
**BOTTOM LOADING RACK – GASOLINE, NAPHTHA, KEROSENE, FUEL OIL AND DIESEL**  
**ABATED BY A14 VAPOR RECOVERY**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.650	Gasoline loading rack provisions	Y	
63.650(a)	Refinery Gasoline loading rack shall comply with 40 CFR 63 Subpart R §§63.421, 63.422 (a) through (c) and (e), 63.425 (a) through (c) and (i), 63.425 (e) through (h), 63.427 (a) and (b), and 63.428 (b), (c), (g)(1), (h)(1) through (h)(3), and (k).	Y	
<b>40 CFR 63 Subpart R</b>	<b>NESHAPS for Source Categories - Gasoline Distribution Facilities (Bulk Gasoline Terminals and Pipeline Breakout Stations) (12/22/2008)</b> (Subject only to sections that apply to truck loading operations as referenced from 40 CFR 63 Subpart CC, 63.650(a))		
63.420(i)	Exemption, Bulk Gasoline Terminals Subject to 40 CFR 63 Subpart CC, unless specified in Subpart CC	Y	
63.421	Definitions	Y	
63.422(a)	Comply with 60.502, except not (b), (c), and (j)	Y	
63.422(c)	Comply with 60.502(e)	Y	
63.428	Reporting and Recordkeeping requirements	Y	
63.428(b)	Gasoline cargo tank test results (can comply with alternative requirement in 63.428(k))	Y	
63.428(g)	Semiannual report	Y	
63.428(g)(1)	Semiannual report; Each loading of a gasoline cargo tank for which vapor tightness documentation had not been previously obtained by the facility	Y	
63.428(h)	Excess emissions report (required whether or not a CMS is installed at the facility)	Y	
63.428(h)(2)	Each instance of a non vapor-tight gasoline cargo tank loading at the facility in which the owner or operator failed to take steps to assure that such cargo tank would not be reloaded at the facility before vapor tightness documentation for that cargo tank was obtained.	Y	
63.428(h)(3)	Each reloading of a nonvapor-tight gasoline cargo tank at the facility before vapor tightness documentation for that cargo tank is obtained by the facility in accordance with §63.422(c)(2).	Y	
63.428(k)	Alternatives to keeping records at the terminal of each gasoline cargo tank test result as required in paragraph 63.428(b) :	Y	

**IV. Source-Specific Applicable Requirements**

**Table IV – D.7  
 Source-specific Applicable Requirements  
 S1025-BULK PLANT TRUCK  
 BOTTOM LOADING RACK – GASOLINE, NAPHTHA, KEROSENE, FUEL OIL AND DIESEL  
 ABATED BY A14 VAPOR RECOVERY**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
63.428(k)(2)	Alternative 2: For facilities that use a terminal automation system to prevent gasoline cargo tanks that do not have valid cargo tank vapor tightness documentation from loading (e.g., via a card lock-out system), a copy of the documentation is available for inspectors within a mutually agreeable time frame.	Y	
<b>40 CFR 60 Subpart XX</b>	<b>NSPS – Bulk Gasoline Terminals</b> (Subject only to Section 60.502 as referenced from 40 CFR 63 Subpart R, 63.422(a))		
60.502	Standards for VOC	Y	
60.502(a)	Vapor Collection system requirement	Y	
60.502(e)	Requirements for ensuring only vapor-tight gasoline tank trucks are loaded	Y	
60.502(f)	Truck and loading rack vapor collection equipment must be compatible	Y	
60.502(g)	Owner/operator shall ensure truck and loading rack vapor collection equipment is connected	Y	
60.502(h)	Pressure limit in delivery tank	Y	
60.502(i)	Pressure-vacuum valve set point requirements	Y	
<b>Applicable to All Loading Events</b>			
<b>BAAQMD Condition 21849</b>			
Part 8	Apply for proper certification from CARB for A-14 prior to startup (basis: Reg. 8-33-301, 302)	Y	
Part 9	Throughput limits (basis: cumulative increase, offsets, toxics risk screen)	Y	
Part 10	Material to be transferred (basis: cumulative increase, offsets, toxics risk screen)	Y	
Part 11	Limit of 0.08 lb POC per 1000 gal of material transferred: a) vent to S-613 or A-14 b) sample line from pressure-vacuum valves c) pressure switch at knockout pot, V-61 d) source tests (basis: cumulative increase, toxics risk screen, reg. 8-33-301, Reg. 1-238, BACT)	Y	
Part 12	Records and reporting	Y	

## IV. Source-Specific Applicable Requirements

**Table IV – D.8**  
**Source-specific Applicable Requirements**  
**S1504 – ETHANOL UNLOADING RACK**  
**S1528 – ALKYLATE RAILCAR UNLOADING RACK**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<b>BAAQMD Regulation 8 Rule 6</b>	<b>Organic Compounds - Organic Liquid Bulk Terminals and Bulk Plants (02/02/1994)</b>		
8-6-101	Description: applicability	Y	
8-6-114	Exemption, Maintenance and Repair	Y	
8-6-301	Bulk terminal limitations	Y	
8-6-302	Bulk plant limitations	Y	
8-6-302.1	Vapor Recovery Requirement	Y	
8-6-302.2	Submerged Fill Requirement	Y	
8-6-304	Deliveries to Storage Tanks	Y	
8-6-305	Delivery vehicle requirements	Y	
8-6-306	Equipment Maintenance	Y	
8-6-307	Operating practices	Y	
8-6-501	Records	Y	
8-6-502	Portable Hydrocarbon Detector	Y	
8-6-503	Burden of Proof for exemptions	Y	
8-6-601	Efficiency and Rate Determination	Y	
8-6-603	Analysis of Samples, True Vapor Pressure	Y	
8-6-604	Determination of Applicability	Y	
<b>BAAQMD Condition 13605</b>	Applies to S1528 only		
Part 1	Throughput limitations (basis: cumulative increase)	Y	
Part 5	Recordkeeping	Y	
<b>BAAQMD Condition 21849</b>	Applies to S1504 only		
Part 13	Throughput limits (basis: cumulative increase, offsets, toxic risk screen)	Y	
Part 14	Material throughput(basis: cumulative increase, offsets, toxic risk screen)	Y	
Part 15	Records (basis: Cumulative Increase, Toxic Risk Screen, Offsets, Regulation 1-441, Regulation 1-238, Regulation 8-6-501)	Y	



## IV. Source-Specific Applicable Requirements

**Table IV – D.9**  
**Source-specific Applicable Requirements**  
**S1525 NON-RETAIL SERVICE STATION 1 NOZZLE**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<b>BAAQMD Regulation 8 Rule 7</b>	<b>Organic Compounds - Gasoline Dispensing Facilities (11/17/1999)</b>		
8-7-113	Tank Gauging and Inspection Exemption	Y	
8-7-301	Phase I Requirements	Y	
8-7-301.1	Requirement for CARB certified Phase I Vapor Recovery System	Y	
8-7-301.2	Install Phase I equipment per CARB Requirements and meet Phase I vapor recovery efficiency standards	Y	
8-7-301.3	Requirement for submerged fill pipe	Y	
8-7-301.5	Maintain Phase I equipment per manufacturer and/or CARB Executive Order	Y	
8-7-301.6	Leak-Free, Vapor-Tight		
8-7-301.7	Requirement for CARB-certified poppeted fitting on vapor return	Y	
8-7-301.8	Coaxial Hose Prohibition	Y	
8-7-301.9	Requirement for CARB-certified anti-rotational coupler or swivel adapter	Y	
8-7-301.10	Requirement for Phase I vapor recovery system rate	Y	
8-7-301.12	Requirement for drain valves to be permanently plugged	Y	
8-7-301.13	Phase I Vapor Recovery System – Vapor Tightness Test	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 required on bellows-equipped vapor recovery nozzles	Y	
8-7-302.7	Built-In Vapor Check Valve required on vapor recovery nozzle on balance system	Y	
8-7-302.8	Minimum Liquid Removal Rate	Y	
8-7-302.9	Coaxial Hose Prohibition	Y	
8-7-302.10	Galvanized Piping or Flexible Tubing requirements	Y	
8-7-302.12	Liquid Retainment Limit and CARB test procedure	Y	
8-7-302.13	Spitting Limit and CARB test procedure	Y	
8-7-303	Topping Off	Y	

#### IV. Source-Specific Applicable Requirements

**Table IV – D.9**  
**Source-specific Applicable Requirements**  
**S1525 NON-RETAIL SERVICE STATION 1 NOZZLE**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
8-7-304	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	CARB Certification requirements for New or Modified Phase II Installations	Y	
8-7-313.1	CARB certification test emission limit on nozzle fill interface, Storage tank vent pipes and pressure-related fugitives	Y	
8-7-313.2	CARB certification test emission limit on spillage	Y	
8-7-313.3	CARB certification test emission limit on liquid retain and spitting	Y	
8-7-316	Pressure Vacuum Valve Requirement, Aboveground Storage Tanks and Vaulted Below-Grade Storage Tanks	Y	
8-7-401	Equipment Installation and Modification	Y	
8-7-406	Testing Requirements, New and Modified Installations	Y	
8-7-407	Periodic Testing Requirements	Y	
8-7-408	Periodic Testing Notification and Submission Requirements	Y	
8-7-501	Burden of Proof	Y	
8-7-502	Right of Access	Y	
8-7-503	Recordkeeping 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	
8-7-602	Determination of Equipment in Compliance with Vapor Tightness requirements	Y	
8-7-603	Determination of Equipment in Compliance with Phase I Vapor Recovery Efficiency	Y	
8-7-604	Determination of Equipment in Compliance with Liquid Removal Requirements	Y	
8-7-606	Determination of Applicability	Y	
<b>BAAQMD Condition 16516</b>			
Part 1	Conduct Static Pressure Performance Test (Leak Test) ST-38 annually.	Y	
Part 2	Notify BAAQMD Source Test 48 hours before source tests. Submit test results within 30 days in specified format.	Y	

#### IV. Source-Specific Applicable Requirements

**Table IV – D.9**  
**Source-specific Applicable Requirements**  
**S1525 NON-RETAIL SERVICE STATION 1 NOZZLE**

<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 Condition 24171</b>			
Part 1	Phase I equipment installation requirements	Y	
Part 2	Tank and Phase II equipment installation requirements	Y	
Part 3	Initial Leak Test requirement	Y	
Part 4	Initial Leak Test notification and test results submittal requirements	Y	
<b>BAAQMD Condition 24172</b>			
Part 1	Annual throughput limit for S1525 (basis: District Toxic Risk Management Policy)	Y	

**Table IV – D.10**  
**Source-specific Applicable Requirements**  
**S613 VAPOR STORAGE TANK**  
**Vented to A14 Vapor Recovery**

<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 33</b>	<b>Organic Compounds - Gasoline Bulk Terminals And Gasoline Delivery Vehicles (04/15/2009)</b>		
8-33-308	Vapor Storage Tank Requirements	N	
8-33-308.1	TOC emissions in airspace above vapor storage tank diaphragm: < 3,000 ppm (C1)	N	
8-33-308.2	Monitor TOC weekly	N	
8-33-502	Vapor Storage Tank Emissions Records	N	
<b>SIP Regulation 8 Rule 33</b>	<b>Organic Compounds - Gasoline Bulk Terminals And Gasoline Delivery Vehicles (04/03/95)</b>		
8-33-308	Vapor Diaphragm Requirements	Y	

## IV. Source-Specific Applicable Requirements

### SECTION E SOLIDS HANDLING

**Table IV - E.1**  
**Source-specific Applicable Requirements**  
**S97-CATALYST FINES HOPPER**  
**S98-FCCU: CATALYST FINES HOPPER**  
**S99-FCCU: CATALYST FINES HOPPER**  
**ABATED BY A30 ESP OR BY A3/A4 CYCLONE & BAGHOUSE**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<b>BAAQMD Regulation 6 Rule 1</b>	<b>Particulate Matter; General Requirements (12/05/2007)</b>		
6-1-301	Ringelmann Number 1 Limitation	N	
6-1-305	Visible Particles	N	
6-1-310	Particulate Weight Limitation	N	
6-1-311	General Operations	N	
6-1-401	Appearance of Emissions	N	
6-1-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions	N	
<b>SIP Regulation 6</b>	<b>Particulate Matter and Visible Emissions (09/04/1998)</b>		
6-301	Ringelmann Number 1 Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particulate Weight Limitation	Y	
6-311	General Operations	Y	
6-401	Appearance of Emissions	Y	
6-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions	Y	
<b>BAAQMD Condition 19528</b>			
Part 13	Monitoring for A3/A4 (basis: Regulation 2-1-403; Regulation 2-6-503)	Y	
Part 13A	Monitoring for A3/A4 (basis: Regulation 2-1-403; Regulation 2-6-503)	Y	
<b>BAAQMD Condition 22150</b>	When abated by A30		

**IV. Source-Specific Applicable Requirements**

**Table IV - E.1**  
**Source-specific Applicable Requirements**  
**S97-CATALYST FINES HOPPER**  
**S98-FCCU: CATALYST FINES HOPPER**  
**S99-FCCU:CATALYST FINES HOPPER**  
**ABATED BY A30 ESP OR BY A3/A4 CYCLONE & BAGHOUSE**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
Part 1	Continuous ESP opacity monitoring for assurance of compliance with Regulations 6-310. (basis: Regulation 6-310, 2-6-503)	Y	
Part 2	Opacity limit; Each time the opacity exceeds the established range of compliance, the owner/operator shall conduct a source test to determine compliance with Regulations 6-310. The source test shall be within 45 days of the detection of the exceedance.(basis: Regulation 2-6-503)	Y	

**Table IV – E.2**  
**Source-specific Applicable Requirements**  
**S659- COKE STORAGE , S660- COKE STORAGE,**  
**ABATED BY A-9 BAGHOUSE**  
**Deleted. Sources Demolished**

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

**IV. Source-Specific Applicable Requirements**

**Table IV – E.3  
 Source-specific Applicable Requirements  
 S809 – COKER SLURRY SETTLER ABATED BY A6 SCRUBBER  
 S810-FLUID COKE PILE LOADING SYSTEM,  
 S821-FLUID COKE STORAGE PILE**

<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 6 Rule 1</b>	<b>Particulate Matter; General Requirements (12/05/2007)</b>		
6-1-301	Ringelmann Number 1 Limitation	N	
6-1-305	Visible Particles	N	
6-1-310	Particulate Weight Limitation	N	
6-1-311	General Operations (process weight rate limitation)	N	
6-1-401	Appearance of Emissions	N	
6-1-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions	N	
<b>SIP Regulation 6</b>	<b>Particulate Matter and Visible Emissions (09/04/1998)</b>		
6-301	Ringelmann Number 1 Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particulate Weight Limitation	Y	
6-311	General Operations (process weight rate limitation)	Y	
6-401	Appearance of Emissions	Y	
6-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions	Y	
<b>BAAQMD Condition 19528</b>			
Part 14	Monitoring (basis: Regulation 2-1-403; Regulation 2-6-503)	Y	

## IV. Source-Specific Applicable Requirements

**Table IV – E.4**  
**Source-specific Applicable Requirements**  
**S846-No. 3 HDS COOLING TOWER,**  
**S975-No. 4 GAS PLANT COOLING TOWER,**  
**S976-No. 5 GAS PLANT COOLING TOWER,**  
**S977-CRUDE UNIT COOLING TOWER**  
**S978-FOUL WATER STRIPPER COOLING TOWER,**  
**S979-No. 2 FEED PREP COOLING TOWER,**  
**S980-HYDROCRACKER COOLING TOWER**  
**S981-No. 1 HDS COOLING TOWER,**  
**S982-No. 2 HDS COOLING TOWER**  
**S983-ALKY AND NO. 2 REFORMER COOLING TOWER**  
**S985-No. 1 GAS PLANT COOLING TOWER,**  
**S987-No. 50 UNIT COOLING TOWER**  
**S988-No. 3 REFORMER COOLING TOWER**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<b>BAAQMD Regulation 6 Rule 1</b>	<b>Particulate Matter; General Requirements (12/05/2007)</b>		
6-1-301	Ringelmann Number 1 Limitation	N	
6-1-305	Visible Particles	N	
6-1-310	Particulate Weight Limitation	N	
6-1-311	General Operations	N	
6-1-401	Appearance of Emissions	N	
6-1-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions	N	
<b>SIP Regulation 6</b>	<b>Particulate Matter and Visible Emissions (09/04/1998)</b>		
6-301	Ringelmann Number 1 Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particulate Weight Limitation	Y	
6-311	General Operations	Y	
6-401	Appearance of Emissions	Y	
6-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions	Y	
<b>BAAQMD Condition 19199</b>	<b>Section D – Applies to S975 only</b> <b>Section E – Applies to S982 only</b>		
Part D1	S975 Water recirculation rate limits (basis: cumulative increase, offsets, BACT)	Y	

**IV. Source-Specific Applicable Requirements**

**Table IV – E.4  
 Source-specific Applicable Requirements  
 S846-NO. 3 HDS COOLING TOWER,  
 S975-NO. 4 GAS PLANT COOLING TOWER,  
 S976-NO. 5 GAS PLANT COOLING TOWER,  
 S977-CRUDE UNIT COOLING TOWER  
 S978-FOUL WATER STRIPPER COOLING TOWER,  
 S979-NO. 2 FEED PREP COOLING TOWER,  
 S980-HYDROCRACKER COOLING TOWER  
 S981-NO. 1 HDS COOLING TOWER,  
 S982-NO. 2 HDS COOLING TOWER  
 S983-ALKY AND NO. 2 REFORMER COOLING TOWER  
 S985-NO. 1 GAS PLANT COOLING TOWER,  
 S987-NO. 50 UNIT COOLING TOWER  
 S988-NO. 3 REFORMER COOLING TOWER**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
Part D3	S975 Total dissolved solids content limit (basis: cumulative increase, offsets)	Y	
Part D4	S975 Quarterly analysis: total dissolved solids (basis: cumulative increase, offsets)	Y	
Part D5	S975 POC concentration limit and test method (basis: BACT)	Y	
Part D6	S975 Weekly POC analysis (basis BACT)	Y	
Part D7	S975 District shall approve sample point (basis: BACT)	Y	
Part D8	S975 Record keeping (basis: cumulative increase, offsets, BACT)	Y	
Part E1	S982 Water recirculation rate limits (basis: cumulative increase, offsets, BACT)	Y	
Part E3	S982 Total dissolved solids content limit limits (basis: cumulative increase, offsets)	Y	
Part E4	S982 Quarterly analysis: total dissolved solids (basis: cumulative increase, offsets)	Y	
Part E5	S982 POC concentration limit and test method (basis: BACT)	Y	
Part E6	S982 Weekly POC analysis (basis BACT)	Y	
Part E7	S982 District shall approve sample point (basis: BACT)	Y	
Part E8	S982 Record keeping (basis: cumulative increase, offsets, BACT)	Y	



## IV. Source-Specific Applicable Requirements

**Table IV – E.5**  
**Source-specific Applicable Requirements**  
**DELAYED COKER SCREEN/CRUSHER (S-1513) & CONVEYORS & DEWATERING PAD**

<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 6 Rule 1</b>	<b>Particulate Matter; General Requirements (12/05/2007)</b>		
6-1-301	Ringelmann No. 1 limitation	N	
6-1-305	Visible Particles	N	
6-1-310	Particulate Weight Limitation	N	
6-1-311	General Operations (process weight rate limitation)	N	
6-1-401	Appearance of Emissions	N	
6-1-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions	N	
<b>SIP Regulation 6</b>	<b>Particulate Matter and Visible Emissions (09/04/1998)</b>		
6-301	Ringelmann Number 1 Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particulate Weight Limitation	Y	
6-311	General Operations (process weight rate limitation)	Y	
6-401	Appearance of Emissions	Y	
6-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions	Y	
<b>BAAQMD Condition 23129</b>			
Part 29	Throughput limit S-1513 (basis: cumulative increase, BACT)	Y	
Part 30	Coke moisture content (basis: cumulative increase)	Y	
Part 31	Emission opacity limits (basis: Regulation 6-1)	Y	
Part 32	Compliance methods for Regulation 6-1 (basis: Regulation 6-1, BACT)	Y	
Part 33	Enclose conveyors and use water sprays (basis: BACT)	Y	
Part 34	Daily visible emissions inspection. Recordkeeping. (basis: Regulation 2-1-403, Regulation 2-6-503)	Y	
Part 35	Methods to minimize particulate emissions from coke piles on Coke Dewatering Pad (basis: BACT)	Y	
Part 37	Recordkeeping S-1513 (basis: recordkeeping)	Y	

## IV. Source-Specific Applicable Requirements

**Table IV – E.6**  
**Source-specific Applicable Requirements**  
**DELAYED COKE SILOS ABATED BY BAGHOUSES**  
**S-1514 (SILO #1 ABATED BY A-1514)**  
**S-1515 (SILO #2 ABATED BY A-1515)**

<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 6 Rule 1</b>	<b>Particulate Matter; General Requirements (12/05/2007)</b>		
6-1-301	Ringelmann No. 1 limitation	N	
6-1-305	Visible Particles	N	
6-1-310	Particulate Weight Limitation	N	
6-1-311	General Operations (process weight rate limitation)	N	
6-1-401	Appearance of Emissions	N	
6-1-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions	N	
<b>SIP Regulation 6</b>	<b>Particulate Matter and Visible Emissions (09/04/1998)</b>		
6-301	Ringelmann Number 1 Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particulate Weight Limitation	Y	
6-311	General Operations (process weight rate limitation)	Y	
6-401	Appearance of Emissions	Y	
6-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions	Y	
<b>BAAQMD Condition 23129</b>			
Part 38	Visible particulates emission limits (basis: Regulation 6-1 and Regulation 1)	Y	
Part 39	S-1514 & S-1515 abatement requirements (basis: cumulative increase)	Y	
Part 40	Bag failure warning devices for A-1514 & A-1515 (basis: cumulative increase)	Y	
Part 41	Baghouse exhaust air flow rate limits (basis: cumulative increase)	Y	
Part 42	Recordkeeping S-1514 & S-1515 (basis: cumulative increase)	Y	

## IV. Source-Specific Applicable Requirements

**Table IV – E.7**  
**Source-specific Applicable Requirements**  
**DELAYED COKER TRUCK LOADOUT (S-1516)**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<b>BAAQMD Regulation 6 Rule 1</b>	<b>Particulate Matter; General Requirements (12/05/2007)</b>		
6-1-301	Ringelmann No. 1 limitation	N	
6-1-305	Visible Particles	N	
6-1-310	Particulate Weight Limitation	N	
6-1-311	General Operations (process weight rate limitation)	N	
6-1-401	Appearance of Emissions	N	
6-1-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions	N	
<b>SIP Regulation 6</b>	<b>Particulate Matter and Visible Emissions (09/04/1998)</b>		
6-301	Ringelmann Number 1 Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particulate Weight Limitation	Y	
6-311	General Operations (process weight rate limitation)	Y	
6-401	Appearance of Emissions	Y	
6-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions	Y	
<b>BAAQMD Condition 23129</b>			
Part 43	Visible particulates emission limits (basis: Regulation 6-1 and Regulation 1)	Y	
Part 44	Throughput limit S-1516 (basis: cumulative increase, BACT)	Y	
Part 45	Truck loading requirements – enclosed structure (basis: BACT)	Y	
Part 46	Truck loading requirements – prevention of fugitive dust emissions during transport (basis: BACT)	Y	
Part 47	Truck loading requirements – truck wheel washer (basis: BACT)	Y	
Part 48	Truck loading requirements – Coke truck route daily sweeping (Basis: BACT)	Y	
Part 49	Recordkeeping S-1516 (Basis: cumulative increase)	Y	

**IV. Source-Specific Applicable Requirements**

**SECTION F TANKS**

**Section F.1: Tanks – Source Listing and Applicable Permit Conditions**

<b>Table IV – F.1</b>					
<b>Source-specific Applicable Requirements</b>					
<b>TANKS – SOURCE LISTING AND APPLICABLE PERMIT CONDITIONS</b>					
<b>S-#</b>	<b>Description</b>	<b>Group</b>	<b>BAAQMD Cond #</b>	<b>Condition Description</b>	<b>FE</b>
3	Tank A-03	101B	None		
26	Tank A-26, White Gasoline	201A	None		
33	Tank A-33, White Gasoline	201A	None		
57	Tank A-57	101B	8077-B8C	Abatement requirement and vapor pressure limit.	Y
134	Tank A-134, Light Green, Recovered Oil	401D	20923-1	Throughput limit (basis: cumulative increase)	Y
			20923-2	Materials allowed for storage (basis: cumulative increase)	Y
			20923-3	Requirement for abatement (basis: cumulative increase)	Y
			20923-4	Record keeping (basis: cumulative increase)	Y
			21053-6	Monitoring requirements for control device (basis: 60.113b(c)(2))	Y
135	Tank A-135, Fuel Oil, Jet “A”, Gas Oil, Recovered Oil	201A	None		
137	Tank A-137, Light Green Recovered Oil	401C	10984-1	Requirement for abatement (basis: cumulative increase)	Y
			10984-2	Throughput limit (basis: cumulative increase)	Y
			10984-3	Materials allowed for storage (basis: cumulative increase)	Y
			10984-4	Record keeping (basis: cumulative increase)	Y
			21053-6	Monitoring requirements for control device (basis: 60.113b(c)(2))	Y
198	Odorant Tank	101C	None		
217	Tank A-217, White Gasoline	201A	None		
258	Tank A-258	101B	None		
270	Tank A-270	101B	None		
272	Tank A-272	101B	None		
274	Tank A-274	101B	None		
323	Tank A-323, White Gasoline, Alkylate Gasoline Blending Components	401A	8077-B8C	Abatement requirement	Y
			13605-1	S323 throughput limit	Y
			13605-2	S323 material stored	Y
			13605-3	S323 abatement requirements	Y
			13605-4	S323 source test	Y
			13605-5	S323 recordkeeping	Y
			21053-3	S323 source test	Y
21053-6	Monitoring requirements for control device (basis: 60.113b(c)(2))	Y			
327	Tank A-327 Caustic Waste	101D	None		
429	Tank A-429	101B	None		

**IV. Source-Specific Applicable Requirements**

**Table IV – F.1  
 Source-specific Applicable Requirements  
 TANKS – SOURCE LISTING AND APPLICABLE PERMIT CONDITIONS**

<b>S-#</b>	<b>Description</b>	<b>Group</b>	<b>BAAQMD Cond #</b>	<b>Condition Description</b>	<b>FE</b>
432	Tank A-432 Ethyl Alcohol, Distillate Oil, Gasoline, Naphtha	401A	21053-6	Monitoring requirements for control device (basis: 63.646(a), 63.120(d)(5))	Y
467	Tank A-467 Fresh Caustic	None	None		
494	Tank A-494	101A	None		
495	Tank A-495	101A	None		
514	Tank A-514, LPG Sphere	501	None		
515	Tank A-515, LPG Sphere	501	None		
516	Tank A-516, LPG Sphere	501	None		
517	Tank A-517	101B	None		
554	Tank A-554, LPG Sphere	501	None		
572	Tank A-572, LPG Sphere	501	None		
585	Tank A-585	101B	None		
598	Tank A-598, LPG Sphere	501	None		
599	Tank A-599, LPG Sphere	501	None		
601	Tank A-601, Black Recovered Oil	302C	None		
603	Tank A-603, Black Organic Liquid – other/not Spec; #50 Unit Desalter Break Tank	401B	21053-6	Monitoring requirements for control device (basis: 63.646(a), 63.120(d)(5))	Y
604	Tank A-604	101B	None		
612	Tank A-612 White Ethyl Alcohol	301A	6740-3	Throughput limit (basis: cumulative increase, toxics)	Y
			6740-4	Material to be stored (basis: cumulative increase, toxics)	Y
			6740-5	Record keeping (cumulative increase, toxics)	Y
618	Tank A-618 LPG Sphere	501	None		
620	Tank A-620	101B	None		
621	Tank A-621	101B	None		
622	Tank A-622, Light grey Mixture of Diesel and Kerosene	101B	None		
629	Tank A-629, Aqueous Ammonia	100	None		

#### IV. Source-Specific Applicable Requirements

**Table IV – F.1**  
**Source-specific Applicable Requirements**  
**TANKS – SOURCE LISTING AND APPLICABLE PERMIT CONDITIONS**

<b>S-#</b>	<b>Description</b>	<b>Group</b>	<b>BAAQMD Cond #</b>	<b>Condition Description</b>	<b>FE</b>
631	Tank A-631 Light Green, Crude Oil, Bunker C Fuel Oil, FCC Fresh Feed, Refinery, Fuel Oil #2, Gas Oil	201A	None		
637	Tank A-637, White Naphtha	201A	None		
638	Tank A-638, White Naphtha, Gas Oil, Gasoline	201A	None		
639	Tank A-639, White Naphtha	201A	None		
640	Tank A-640, White Distillate Oil, Gasoline	201A	None		
641	Tank A-641, White Distillate Oil, Gasoline	201A	None		
642	Tank A-642, White Hydrocarbon, Gas Oil	203A	None		
646	Tank A-646, LPG Bullet	501	None		
647	Tank A-647, LPG Bullet	501	None		
648	Tank A-648, LPG Bullet	501	None		
649	Tank A-649, LPG Bullet	501	None		
650	Tank A-650 Refinery Sour Waste Water	203C	None		
651	Tank A-651 Oil/Water Mixture	201A	None		
652	Tank A-652, LPG Sphere	501	None		
656	Tank A-846, Foul Water Stripper Charge Tank, Refinery Sour Waste Water	401C	10696-1	Requirement for abatement by A-12	Y

#### IV. Source-Specific Applicable Requirements

**Table IV – F.1**  
**Source-specific Applicable Requirements**  
**TANKS – SOURCE LISTING AND APPLICABLE PERMIT CONDITIONS**

S-#	Description	Group	BAAQMD Cond #	Condition Description	FE
658	Tank A-847, Foul Water Stripper Charge Tank, Refinery Sour Waste Water	401C	10696-1	Requirement for abatement by A-12	Y
662	Tank A-662	101B	None		
664	Tank A-664, White Gasoline	201A	None		
666	Tank A-666, LPG Bullet	501	None		
667	Tank A-667, LPG Bullet	501	None		
668	Tank A-668, LPG Bullet	501	None		
669	Tank A-669, LPG Bullet	501	None		
670	Tank A-670, LPG Bullet	501	None		
690	Tank A-690, White Crude Oil	201A	27424-1	Throughput and vapor pressure limit (basis: cumulative increase)	Y
			27424-2	POC Emissions Limit (basis: cumulative increase, toxics, offsets)	Y
			27424-3	Record keeping (cumulative increase, toxics)	Y
691	Tank A-691	502	None		
692	Tank A-692, White Gasoline	201A	None		
694	Tank A-694, White Crude Oil	201A	None		
695	Tank A-695, LPG Sphere	501	None		
696	Tank A-696, White Gasoline	301A	None		
701	Tank A-701, White Crude Oil	201A	None		
702	Tank A-702, White Gasoline	201A	None		
705	Tank A-705, Light Green Crude Oil	202	None		
706	Tank 113-A-706, Blue Crude Oil	202	None		

#### IV. Source-Specific Applicable Requirements

**Table IV – F.1**  
**Source-specific Applicable Requirements**  
**TANKS – SOURCE LISTING AND APPLICABLE PERMIT CONDITIONS**

S-#	Description	Group	BAAQMD Cond #	Condition Description	FE
707	Tank 113-A-707, Medium grey Crude Oil, Hydrocarbon	202	None		
708	Tank 113-A-708, Blue Crude Oil	202	None		
709	Tank 113-A-709, Green Crude Oil, Waste Oil	202	None		
710	Tank A-710, Green Alkylate, Gasoline	202	None		
711	Tank 80-A-711, Green Crude Oil, Gasoline	202	None		
714	Tank A-714, White Organic Liquid – other/not Spec, Hydrocarbon	401A	8538-1	Requirement for abatement (basis: cumulative increase)	Y
			8538-2	A14 abatement requirement	Y
			8538-3	Materials to be stored	Y
			8538-4	True vapor pressure limit	Y
			8538-5	Throughput limit	Y
			8538-6	Recordkeeping	Y
749	Diesel Tank	101A	None		
771	Tank 2-A-713, White DEA (Alcohol, Amine)	101B	None		
775	Tank A-849 Gasoline	302A	19762-A1	Throughput limit (basis: cumulative increase, toxics, offsets)	Y
			19762-A2	True vapor pressure limitation (basis: BACT, Regulation 8-5, cumulative increase, toxics, offsets)	Y
			19762-A5	Requirements for storage of materials other than gasoline (basis: cumulative increase, toxics, offsets)	Y
			19762-A6	Record keeping (basis: cumulative increase, toxics, offsets)	Y
795	#3 Reformer V- 307, Tan Perchloroethylene	501	5711-1	Throughput limit (basis: toxics, cumulative increase)	Y
			5711-2	Materials to be stored (basis: toxics, cumulative increase)	Y
			5711-3	Requirement for abatement (basis: toxics, cumulative increase)	Y
			5711-4	Record keeping (basis: toxics, cumulative increase)	Y
871	Tank A-871 Crude, Low Sulfur Vacuum Gas Oil	203B	21393-1	Throughput limit (basis: cumulative increase, toxic risk screen, BACT)	Y
			21393-2	Materials to be stored (basis: Cumulative increase, toxic risk screen)	Y
			21393-4	Records and reporting (basis: cumulative increase, reg 1-441, Reg 8-5-501)	Y
872	Tank A-872	101B	None		



#### IV. Source-Specific Applicable Requirements

**Table IV – F.1**  
**Source-specific Applicable Requirements**  
**TANKS – SOURCE LISTING AND APPLICABLE PERMIT CONDITIONS**

S-#	Description	Group	BAAQMD Cond #	Condition Description	FE
873	Tank A-895	101B	None		
896	Tank A-896, Off-white, Slop oil	203C	23263-1	Throughput limit (basis: cumulative increase)	Y
			23263-2	Materials to be stored (basis: Cumulative increase, toxics, Offsets)	Y
			23263-3	Records and reporting (basis: cumulative increase, Toxics)	Y
			23263-4	Construction design requirements for fittings and roof penetrations (basis: BACT)	Y
990	Tank 749, Green, Rich DEA	101B	None		
1416	Tank A-746, SAP Spent Acid	101B	None		
1418	Tank 750, Green, Rich DEA	101B	None		
1421	Tank 757, ARU Feed	202	13282-1	Throughput Limit (basis: cumulative increase, offsets)	Y
			13282-2	Material Stored (basis: cumulative increase, toxics)	Y
			13282-4	Recordkeeping (basis: cumulative increase, toxics, Regulation 8-5, offsets)	Y
1422	Tank M-782, ARU Feed	202	None		
1461	Tank A-866, White Crude Oil	203A	17477-A1	Throughput Limit (basis: cumulative increase, toxics)	Y
			17477-A2	True Vapor Pressure Limit (basis: cumulative increase)	Y
			17477-A5	Requirements for Alternative Material Storage (basis: cumulative increase, toxics)	Y
			17477-A6	Record keeping (basis: cumulative increase, toxics)	Y
1463	Tank A-867, Silver Crude Oil, HDS Gas Oil	203A	17477-C1	Throughput Limit (basis: cumulative increase, toxics)	Y
			17477-C2	True Vapor Pressure Limit (basis: cumulative increase)	Y
			17477-C5	Requirements for Alternative Material Storage (basis: cumulative increase, toxics)	Y
			17477-C6	Record keeping (basis: cumulative increase, toxics)	Y
1464	Tank A-868, Off White Diesel, Jet A, Kerosene	203A	17477-D1	Throughput Limit (basis: cumulative increase, toxics)	Y
			17477-D2	True Vapor Pressure Limit (basis: cumulative increase)	Y
			17477-D4	Requirements for Alternative Material Storage (basis: cumulative increase, toxics)	Y
			17477-D5	Record keeping (basis: cumulative increase, toxics)	Y
1465	Tank A-869, Off-white Jet A, Diesel, Kerosene	203A	17477-E1	Throughput Limit (basis: cumulative increase, toxics)	Y
			17477-E2	True Vapor Pressure Limit (basis: cumulative increase)	Y
			17477-E4	Requirements for Alternative Material Storage (basis: cumulative increase, toxics)	Y
			17477-E5	Record keeping (basis: cumulative increase, toxics)	Y
1468	Tank A-877 Spent Sulfidic Caustic	101B	None		

**IV. Source-Specific Applicable Requirements**

<b>Table IV – F.1</b>					
<b>Source-specific Applicable Requirements</b>					
<b>TANKS – SOURCE LISTING AND APPLICABLE PERMIT CONDITIONS</b>					
<b>S-#</b>	<b>Description</b>	<b>Group</b>	<b>BAAQMD Cond #</b>	<b>Condition Description</b>	<b>FE</b>
1473	Storage Tank Ethyl Mercaptan Odorant	501	19197-1	Abatement at all times (basis: cumulative increase)	Y
			19197-2	Throughput limit (basis: cumulative increase)	Y
			19197-7	Throughput records (basis: cumulative increase)	Y
1485	Tank A-870 Gasoline Blending Components	302A	20520-1	Throughput limit (basis: cumulative increase)	Y
			20520-2	Vapor pressure limits (basis: cumulative increase, toxics, offsets)	Y
			20520-5	Material to be stored (basis: cumulative increase, toxics, offsets)	Y
			20520-6	Record keeping and reporting	Y
1489	Fixed Volume Portable Tank #1, White, Slop Oil and Water Mixture	404	21536-1	Throughput limit for S1489 (basis: cumulative increase, toxic risk screen)	Y
			21536-2	Throughput limit for S1490 (basis: cumulative increase, toxic risk screen)	Y
			21536-3	Abatement at all times with an overall collection and adsorption efficiency of at least 95% by weight POC (basis: cumulative increase, toxic risk screen).	Y
			21536-4	Materials to be stored (basis: cumulative increase, toxic risk screen)	Y
			21536-5	Monitoring (basis: cumulative increase, toxic risk screen)	Y
			21536-6	Monitoring log, frequency of change-out (basis: cumulative increase, toxic risk screen)	Y
			21536-7	Vessel breakthrough of first carbon vessel (basis: cumulative increase, toxic risk screen)	Y
			21536-8	Last carbon vessel changeout (basis: cumulative increase, toxic risk screen)	Y
			21536-9	Exceedance reporting (basis: cumulative increase, toxic risk screen)	Y
			21536-10	Record keeping and reporting (basis: cumulative increase, recordkeeping)	Y
1490	Fixed Volume Portable Tank #2, White, Slop Oil and Water Mixture	404	21536-1	Throughput limit for S1489 (basis: cumulative increase, toxic risk screen)	Y
			21536-2	Throughput limit for S1490 (basis: cumulative increase, toxic risk screen)	Y
			21536-3	Abatement at all times with an overall collection and adsorption efficiency of at least 95% by weight POC (basis: cumulative increase, toxic risk screen).	Y
			21536-4	Materials to be stored (basis: cumulative increase, toxic risk screen)	Y
			21536-5	Monitoring (basis: cumulative increase, toxic risk screen)	Y
			21536-6	Monitoring log, frequency of change-out (basis: cumulative increase, toxic risk screen)	Y
			21536-7	Vessel breakthrough of first carbon vessel (basis: cumulative increase, toxic risk screen)	Y
			21536-8	Last carbon vessel changeout(basis: cumulative increase, toxic risk screen)	Y
			21536-9	Exceedance reporting (basis: cumulative increase, toxic risk screen)	Y
			21536-10	Record keeping and reporting (basis: cumulative increase, recordkeeping)	Y

#### IV. Source-Specific Applicable Requirements

<b>Table IV – F.1</b>					
<b>Source-specific Applicable Requirements</b>					
<b>TANKS – SOURCE LISTING AND APPLICABLE PERMIT CONDITIONS</b>					
<b>S-#</b>	<b>Description</b>	<b>Group</b>	<b>BAAQMD Cond #</b>	<b>Condition Description</b>	<b>FE</b>
1491	Fixed Volume Portable Tank #3, White, Slop Oil and Water Mixture	404	21535-1	Throughput limit (basis: cumulative increase, toxic risk screen)	Y
			21535-2	Abatement at all times with an overall collection and adsorption efficiency of at least 95% by weight POC (basis: cumulative increase, toxic risk screen).	Y
			21535-3	Materials to be stored (basis: cumulative increase, toxic risk screen)	Y
			21535-4	Monitoring (basis: cumulative increase, toxic risk screen)	Y
			21535-5	Monitoring log, frequency of change-out (basis: cumulative increase, toxic risk screen)	Y
			21535-6	Vessel breakthrough of first carbon vessel (basis: cumulative increase, toxic risk screen)	Y
			21535-7	Last carbon vessel changeout (basis: cumulative increase, toxic risk screen)	Y
			21535-8	Exceedance reporting (basis: cumulative increase, toxic risk screen)	Y
			21535-9	Record keeping and reporting (basis: cumulative increase, recordkeeping)	Y
1496	Tank A-876 Heavy reformat with pentanes, straight run heavy naphtha	401C	21053-6	Monitoring requirements for control device (basis: 60.113b(c)(2))	Y
			21100-1	Throughput limit (basis: cumulative increase, toxic risk screen, offsets)	Y
			21100-2	99.5% abatement by vapor recovery shall be used (basis: cumulative increase, toxic risk screen, offsets, Reg 8-5, NSPS, reg 10 Subpart Kb)	Y
			21100-3	Materials stored (basis: cumulative increase, toxic risk screen, offsets)	Y
			21100-4	Source test requirements (basis: cumulative increase, toxic risk screen, offsets, Reg 1-238)	Y
			21100-5	Record keeping and reporting (basis: cumulative increase, toxic risk screen, offsets, Reg 1-441, Reg 8-5-501, Reg 1-238)	Y
1498	KI-75, KI-85	101A	None		
1505	Tank A-777	101C	None		
1506	Tank A-893 Gasoline, Gasoline Blending Stock	203A	22640-1	Throughput Limit (basis: cumulative increase, toxics, BACT)	Y
			22640-2	True Vapor Pressure Limit (basis: cumulative increase, toxics)	Y
			22640-4	Record keeping (basis: Cumulative Increase, Regulation 1-441, Regulation 8-5-501)	Y
1507	Tank A-894 Gasoline, Gasoline Blending Stock	203A	22640-1	Throughput Limit (basis: cumulative increase, toxics, BACT)	Y
			22640-2	True Vapor Pressure Limit (basis: cumulative increase, toxics)	Y
			22640-4	Record keeping (basis: Cumulative Increase, Regulation 1-441, Regulation 8-5-501)	Y
1508	Tank A-906 Avon Wharf Recovered Oil Tank, Berth 1	402A	23486-1	Throughput limit (basis: Cumulative Increase)	Y
			23486-2	Materials collected in S-1508 & S-1509	Y
			23486-4	Record keeping	Y
1509	Tank A-907 Avon Wharf Recovered Oil Tank, Berth 5	402A	23486-1	Throughput limit (basis: Cumulative Increase)	Y
			23486-2	Materials collected in S-1508 & S-1509 (basis: Cumulative Increase)	Y
			23486-4	Record keeping (basis: Cumulative Increase, Regulation 1-441)	Y
1521	Tank A-904	203A	23739-1	Throughput Limit (basis: Cumulative Increase, Toxics)	Y
			23739-2	True Vapor Pressure Limit (basis: Cumulative Increase, Toxics)	Y
			23739-3	Recordkeeping Requirements (basis: Cumulative Increase, Toxics)	Y

#### IV. Source-Specific Applicable Requirements

**Table IV – F.1**  
**Source-specific Applicable Requirements**  
**TANKS – SOURCE LISTING AND APPLICABLE PERMIT CONDITIONS**

<b>S-#</b>	<b>Description</b>	<b>Group</b>	<b>BAAQMD Cond #</b>	<b>Condition Description</b>	<b>FE</b>
1549	Tank 890	101B	24649-1	Throughput Limit (basis: Cumulative Increase)	Y
			24649-2	Recordkeeping Requirements (basis: Cumulative Increase, Toxics)	Y
1554	Tank A-943 High Sulfur Vacuum Gas Oil	401C	25025-1	Throughput and True Vapor Pressure Limit (Basis: Cumulative Increase)	Y
			25025-2	Operational Flexibility with POC, NPOC and Toxic Emissions Limit (Basis: Cumulative Increase, Toxics)	Y
			25025-3	Abatement Requirement (Basis: Cumulative Increase, Toxics)	Y
			25025-4	Fugitive Emissions Limit (Basis: Cumulative Increase, Offsets)	Y
B54	Amorco Wharf Slop Tank	402B	None		

## IV. Source-Specific Applicable Requirements

### Section F.2: Tanks – Groups And Group Descriptions

<b>Table IV – F.2</b>			
<b>Source-specific Applicable Requirements</b>			
<b>TANKS – GROUPS AND GROUP DESCRIPTIONS</b>			
<b>Tank Group</b>	<b>Tank Type</b>	<b>Group Description</b>	<b>Sources</b>
100	Non-Regulated	Permitted Tanks with no Applicable Regulations	S629
101	8-5 Exempt	8-5 Exempt (Content or Size)	This group includes sources from 101A, 101B, 101C and 101D
101A	8-5 Exempt	8-5 Exempt (Content), MACT Exempt (Size)	S494, S495, S749, S1498
101B	8-5 Exempt	8-5 Exempt (Content), MACT Group 2	S3, S258, S270, S272, S274, S429, S517, S585, S604, S620, S621, S622, S662, S771, S872, S873, S990, S1416, S1418, S1468, S1549
101C	8-5 Exempt	8-5 Exempt (Size), MACT Exempt (Size)	S198, S1505
101D	8-5 Exempt	8-5 Exempt (Content), MACT Exempt (Abated by Vapor Recovery System)	S327
201	8-5-304 EFR	MACT Group 1	This group includes sources from 201A and 201B
201A	8-5-304 EFR	Welded, MACT Group 1	S26, S33, S135, S217, S631, S637, S638, S639, S640, S641, S651, S664, S690, S692, S694, S701, S702
201B	8-5-304 EFR	Riveted, MACT Group 1	None
202	8-5-304 EFR	NSPS Ka, MACT Overlap 63.640(n)(5) - Group 1	S705, S706, S707, S708, S709, S710, S711, S1421, S1422
203	8-5-304 EFR	NSPS Kb, MACT Overlap 63.640(n)(1)	This group includes sources from 203A, 203B, and 203C
203A	8-5-304 EFR	NSPS Kb, MACT Overlap 63.640(n)(1) and (8) - Group 1 – Slotted	S642, S1461, S1463, S1464, S1465, S1506, S1507, S1521
203B	8-5-304 EFR	NSPS Kb, MACT Overlap 63.640(n)(1) and (8) - Group 1 – Slotted and Solid	S871
203C	8-5-304 EFR	NSPS Kb, MACT Overlap 63.640(n)(1), BWON 61 Subpart FF	S896, S650
301	8-5-305 IFR	MACT Group 1	This group includes sources from 301A and 301B
301A	8-5-305 IFR	Welded, MACT Group 1	S612, S696
301B	8-5-305 IFR	Riveted, MACT Group 1	S315
302	8-5-305 IFR	NSPS Kb, MACT Overlap 63.640(n)(1)	This group includes sources from 302A, 302B, and 302C
302A	8-5-305 IFR	Welded, NSPS Kb, MACT Overlap 63.640(n)(1), (3), and (8) - Group 1	S775, S1485
302B	8-5-305 IFR	Reserved for Riveted, NSPS Kb, MACT Overlap 63.640(n)(1), (3), and (8) - Group 1	No Sources
302C	8-5-305 IFR	NSPS Kb, MACT WW 63.647(a), BWON 61 Subpart FF	S601
401	8-5-306 Fixed Roof	MACT Exempt (Abated by Vapor Recovery System)	This group includes sources from 401A, 401B, 401C, and 401D
401A	8-5-306 Fixed Roof	Non Ka/Kb, MACT Exempt (Abated by Vapor Recovery System)	S323, S432, S714

#### IV. Source-Specific Applicable Requirements

<b>Table IV – F.2 Source-specific Applicable Requirements TANKS – GROUPS AND GROUP DESCRIPTIONS</b>			
<b>Tank Group</b>	<b>Tank Type</b>	<b>Group Description</b>	<b>Sources</b>
401B	8-5-306 Fixed Roof	Non Ka/Kb, MACT Exempt (Abated by Vapor Recovery System), BWON 61 Subpart FF	S603
401C	8-5-306 Fixed Roof	NSPS Kb, MACT Exempt (Abated by Vapor Recovery System)	S137, S318, S367, S656, S658, S1496, S1554
401D	8-5-306 Fixed Roof	NSPS Kb, MACT Exempt (Abated by Vapor Recovery System), BWON 61 Subpart FF	S134
402	8-5-302 Fixed Roof	MACT and NSPS Kb Exempt (size),	This group includes sources from 402A and 402B
402A	8-5-302 Fixed Roof	MACT and NSPS Kb Exempt (size), BWON 61 Subpart FF (Uncontrolled wastestream), Submerged Fill - Top Fill and Pressure Vacuum Vent	S1508, S1509
402B	8-5-302 Fixed Roof	MACT and NSPS Kb Exempt (size), BWON 61 Subpart FF (Uncontrolled wastestream), Submerged Fill - Side Fill , no Pressure Vacuum Vent	B54
403	Reserved		
404	8-5-306 Fixed Roof	NSPS Kb, MACT Exempt (not related to process units), Abated by Carbon. Can be used in BWON 61 Subpart FF service.	S1489, S1490, S1491 (Portable tanks used for temporary hazardous waste management)
501	8-5-307 Pressure Tank	MACT Exempt (Pressure Tanks)	S514, S515, S516, S554, S572, S598, S599, S618, S646, S647, S648, S649, S652, S666, S667, S668, S669, S670, S695, S795, S1473
502	8-5-306 Fixed Roof	MACT Exempt (Butane Refrigerated Dome Tank)	S691

Note: Sources with a “B” instead of “S” are for facility B2759.

## IV. Source-Specific Applicable Requirements

### Section F.3: Tanks – Tank Group Applicable Requirements

<b>Table IV – F.3</b> <b>Source-specific Applicable Requirements</b> <b>TANK GROUP APPLICABLE REQUIREMENTS</b>														
Regulation	Description	FE Y/N	101 ABCD	201 AB	202	203 ABC	301 AB	302 ABC	401 ABCD	402 AB	403 (Reserved)	404	501	502
<b>BAAQMD Regulation 8 Rule 5</b>	<b>Organic Compounds - Storage of Organic Liquids (10/18/2006)</b>													
8-5-100	General	Y		X	X	X	X	X	X	X		X	X	X
8-5-101	Description	Y		X	X	X	X	X	X	X		X	X	X
8-5-110	Exemptions	Y												
8-5-110.1	Exemptions; Tanks < 264 gallons	Y	C											
8-5-110.2	Exemptions; Tanks installed before 1/4/67	Y												
8-5-110.3	Exemptions; Above ground gasoline tanks < 2,008 gallons	Y												
8-5-111	Limited Exemption, Tank Removal From and Return to Service	N		X	X	X	X	X	X	X		X	X	X
8-5-111.1	Limited Exemption, Tank Removal From and Return to Service, Notification	Y		X	X	X	X	X	X	X		X	X	X
8-5-111.1.1	Limited Exemption, Tank Removal From and Return to Service, Notification	Y		X	X	X	X	X	X	X		X	X	X
8-5-111.1.2	Limited Exemption, Tank Removal From and Return to Service, Notification	Y		X	X	X	X	X	X	X		X	X	X
8-5-111.2	Limited Exemption, Tank Removal From and Return to Service; Tank in compliance at time of notification	N		X	X	X	X	X	X	X		X	X	X
8-5-111.3	Limited Exemption, Tank Removal From and Return to Service; Filling, emptying, refilling floating roof tanks	Y		X	X	X	X	X						
8-5-111.4	Limited Exemption, Tank Removal From and Return to Service; Use vapor recovery during filling and emptying on tanks so equipped	Y							X			X	X	X
8-5-111.5	Limited Exemption, Tank Removal From and Return to Service; Minimize emissions and, if required, degas per 8-5-328	N		X	X	X	X	X	X	X		X	X	X
8-5-111.6	Limited Exemption, Tank Removal From and Return to Service; Self report if out of compliance during exemption period	N		X	X	X	X	X	X	X		X	X	X
8-5-112	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation	N		X	X	X	X	X	X	X		X	X	X
8-5-112.1	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Notification	Y		X	X	X	X	X	X	X		X	X	X
8-5-112.1.1	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Notification	Y		X	X	X	X	X	X	X		X	X	X
8-5-112.1.2	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Notification	Y		X	X	X	X	X	X	X		X	X	X

**IV. Source-Specific Applicable Requirements**

<b>Table IV – F.3 Source-specific Applicable Requirements TANK GROUP APPLICABLE REQUIREMENTS</b>														
Regulation	Description	FE Y/N	101 ABCD	201 AB	202	203 ABC	301 AB	302 ABC	401 ABCD	402 AB	403 (Reserved)	404	501	502
8-5-112.2	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Tank in compliance at time of notification	N		X	X	X	X	X	X	X		X	X	X
8-5-112.3	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; No product movement, Minimize emissions	Y		X	X	X	X	X	X	X		X	X	X
8-5-112.4	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Not to exceed 7 days	N		X	X	X	X	X	X	X		X	X	X
8-5-112.5	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Self report if out of compliance during exemption period	N		X	X	X	X	X	X	X		X	X	X
8-5-112.6	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Keep records for each exemption	N		X	X	X	X	X	X	X		X	X	X
8-5-112.6.1	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Keep records for each exemption	N		X	X	X	X	X	X	X		X	X	X
8-5-112.6.2	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Keep records for each exemption	N		X	X	X	X	X	X	X		X	X	X
8-5-112.6.3	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Keep records for each exemption	N		X	X	X	X	X	X	X		X	X	X
8-5-112.6.4	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Keep records for each exemption	N		X	X	X	X	X	X	X		X	X	X
8-5-117	Limited Exemption, Low Vapor Pressure	N	A B D	X	X	X	X	X	X	X		X	X	X
8-5-118	Limited Exemption, Gas Tight Requirements	N							X			X		X
8-5-119	Limited Exemption, Repair Period - Optional	N		X	X	X	X	X	X	X		X	X	X
8-5-119.1	Limited Exemption, Repair Period - Optional	N		X	X	X	X	X	X	X		X	X	X
8-5-119.2	Limited Exemption, Repair Period - Optional	N		X	X	X	X	X	X	X		X	X	X
8-5-119.3	Limited Exemption, Repair Period - Optional	N		X	X	X	X	X	X	X		X	X	X
8-5-301	Storage Tank Control Requirements	N		X	X	X	X	X	X	X		X	X	X
8-5-302	Requirements for Submerged Fill Pipes	Y								X				
8-5-302.1	Requirements for Submerged Fill Pipes; Top fill	Y								A				
8-5-302.2	Requirements for Submerged Fill Pipes; Side fill	Y								B				
8-5-303	Requirements for Pressure Vacuum Valves	N							X	A		X		X
8-5-303.1	Requirements for Pressure Vacuum Valves; Set pressure	N							X	A		X		X
8-5-303.2	Requirements for Pressure Vacuum Valves; Gas tight requirement or abatement	N							X	A		X		X
8-5-304	Requirements for External Floating Roof Tanks	N		X	X	X								
8-5-304.1	Requirements for External Floating Roofs; Tank fittings	Y		X	X	X								



**IV. Source-Specific Applicable Requirements**

<b>Table IV – F.3 Source-specific Applicable Requirements TANK GROUP APPLICABLE REQUIREMENTS</b>														
Regulation	Description	FE Y/N	101 ABCD	201 AB	202	203 ABC	301 AB	302 ABC	401 ABCD	402 AB	403 (Reserved)	404	501	502
8-5-304.2	Requirements for External Floating Roofs; Primary seal (8-5-321)	Y		X	X	X								
8-5-304.3	Requirements for External Floating Roofs; Secondary seal (8-5-322)	Y		X	X	X								
8-5-304.4	Requirements for External Floating Roofs; Floating roof	N		X	X	X								
8-5-304.5	Requirements for External Floating Roofs; Tank shell	N		X	X	X								
8-5-304.6	Requirements for External Floating Roofs; Pontoons – no leaks	N		X	X	X								
8-5-304.6.1	Requirements for External Floating Roofs; Pontoons – make gas tight if leaking	N		X	X	X								
8-5-304.6.2	Requirements for External Floating Roofs; Pontoons-repair all leaks at next removal from service	N		X	X	X								
8-5-305	Requirements for Internal Floating roofs	N					X	X						
8-5-305.1	Requirements for Internal Floating roofs; Seals installed before 2/1/93	Y												
8-5-305.1.1	Requirements for Internal Floating roofs; Seals installed before 2/1/93	Y												
8-5-305.1.2	Requirements for Internal Floating roofs; Seals installed before 2/1/93	Y												
8-5-305.1.3	Requirements for Internal Floating roofs; Seals installed before 2/1/93	Y												
8-5-305.2	Requirements for Internal Floating roofs; Seals installed after 2/1/1993	Y					X	X						
8-5-305.3	Requirements for Internal Floating roofs; Viewports in fixed roof tank; not required if dome roof has translucent panels	Y					X	X						
8-5-305.4	Requirements for Internal Floating roofs; Tank fitting requirements	Y					X	X						
8-5-305.5	Requirements for Internal Floating roofs; Floating roof requirements	N					X	X						
8-5-305.6	Requirements for Internal Floating roofs; Tank shell	N					X	X						
8-5-306	Requirements for Approved Emission Control Systems	N							X			X		X
8-5-306.1	Requirements for Approved Emission Control Systems: Abatement efficiency >= 95%	N							X			X		X
8-5-306.2	Requirements for Approved Emission Control Systems: It must be gas tight	N							X			X		X
8-5-307	Requirements for Fixed Roof Tanks, Pressure Tanks and Blanketed Tanks	N							X	X		X	X	X
8-5-307.1	Requirements for Fixed Roof Tanks, Pressure Tanks and Blanketed Tanks: no liquid leakage through shell	N							X	X		X	X	X
8-5-307.2	Requirements for Fixed Roof Tanks, Pressure Tanks and Blanketed Tanks: Pressure tank working pressure	N											X	
8-5-307.3	Requirements for Fixed Roof Tanks, Pressure Tanks and Blanketed Tanks: Pressure tanks and blanketed tanks PRD requirements	N											X	

**IV. Source-Specific Applicable Requirements**

<b>Table IV – F.3 Source-specific Applicable Requirements TANK GROUP APPLICABLE REQUIREMENTS</b>														
Regulation	Description	FE Y/N	101 ABCD	201 AB	202	203 ABC	301 AB	302 ABC	401 ABCD	402 AB	403 (Reserved)	404	501	502
8-5-320	Floating Roof Tank Fitting Requirements	N		X	X	X	X	X						
8-5-320.2	Floating Roof Tank Fitting Requirements; Projection below liquid surface	N		X	X	X	X	X						
8-5-320.3	Floating Roof Tank Fitting Requirements; Gasketed covers, seals, lids	N		X	X	X	X	X						
8-5-320.3.1	Floating Roof Tank Fitting Requirements; Gasketed covers, seals, lids - Gap requirements	Y		X	X	X	X	X						
8-5-320.3.2	Floating Roof Tank Fitting Requirements; Internal floating roof inaccessible opening requirements	Y					X	X						
8-5-320.4	Floating Roof Tank Fitting Requirements; Solid sampling or gauging wells--	Y				B								
8-5-320.4.1	Floating Roof Tank Fitting Requirements; Solid sampling or gauging wells--projection below liquid surface	Y				B								
8-5-320.4.2	Floating Roof Tank Fitting Requirements; Solid sampling or gauging wells--cover, seal, or lid	Y				B								
8-5-320.4.3	Floating Roof Tank Fitting Requirements; Solid sampling or gauging wells-- total secondary seal gap must include well gap	Y				B								
8-5-320.5	Floating Roof Tank Fitting Requirements; Slotted sampling or gauging wells	N		X	X	X	X	X						
8-5-320.5.1	Floating Roof Tank Fitting Requirements; Slotted sampling or gauging wells -projection below liquid surface	Y		X	X	X	X	X						
8-5-320.5.2	Floating Roof Tank Fitting Requirements; Slotted sampling or gauging wells -cover, gasket, pole sleeve, pole wiper for EFR wells	N		X	X	X	X	X						
8-5-320.5.3	Floating Roof Tank Fitting Requirements; Slotted sampling or gauging wells-total secondary seal gap must include well gap	Y		X	X	X	X	X						
8-5-320.6	Floating Roof Tank Fitting Requirements; Emergency roof drain requirements	Y												
8-5-321	Primary Seal Requirements	N		X	X	X	X	X						
8-5-321.1	Primary Seal Requirements; No holes, tears, other openings	Y		X	X	X	X	X						
8-5-321.2	Primary Seal Requirements; The seal shall be metallic shoe or liquid mounted except as provided in 8-5-305.1.3	Y		X	X	X	X	X						
8-5-321.3	Primary Seal Requirements; Metallic-shoe-type seal requirements	N		X	X	X	X	X						
8-5-321.3.1	Primary Seal Requirements; Metallic-shoe-type seal requirements--geometry of shoe	Y		X	X	X	X	X						
8-5-321.3.2	Primary Seal Requirements; Metallic-shoe-type seal requirements--welded tanks	Y		A	X	X	A	A C						
8-5-321.3.3	Primary Seal Requirements; Metallic-shoe-type seal requirements--riveted tanks	Y		B			B	B						

**IV. Source-Specific Applicable Requirements**

<b>Table IV – F.3 Source-specific Applicable Requirements TANK GROUP APPLICABLE REQUIREMENTS</b>														
Regulation	Description	FE Y/N	101 ABCD	201 AB	202	203 ABC	301 AB	302 ABC	401 ABCD	402 AB	403 (Reserved)	404	501	502
8-5-321.4	Primary Seal Requirements; Resilient-toroid-type seal gap requirements	N					X	X						
8-5-322	Secondary Seal Requirements	N		X	X	X	X	X						
8-5-322.1	Secondary Seal Requirements; No holes, tears, other openings	Y		X	X	X	X	X						
8-5-322.2	Secondary Seal Requirements; Insertion of probes	Y		X	X	X	X	X						
8-5-322.3	Secondary seal requirements; Seal gaps (applicable as long as secondary seal is not zero-gap seal as defined in 8-5-322.5)	Y												
8-5-322.4	Secondary seal requirements; Riveted tanks seal requirements	Y		B			B	B						
8-5-322.5	Secondary Seal Requirements; Gap requirements for welded external floating roof tanks with seals installed after 9/4/1985	Y		A	X	X	A	A C						
8-5-322.6	Secondary Seal Requirements; Extent of seal	Y		X	X	X	X	X						
8-5-328	Tank Degassing Requirements	N		X	X	X	X	X	X	X		X	X	X
8-5-328.1	Tank Degassing Requirements; Tanks > 75 cubic meters	N		X	X	X	X	X	X	X		X	X	X
8-5-328.2	Tank Degassing Requirements; Ozone Excess Day Prohibition	Y		X	X	X	X	X	X	X		X	X	X
8-5-328.3	Tank Degassing Requirements; BAAQMD notification required	N		X	X	X	X	X	X	X		X	X	X
8-5-331	Tank Cleaning Requirements	N		X	X	X	X	X	X	X		X	X	X
8-5-331.1	Tank Cleaning Requirements; Cleaning material properties	N		X	X	X	X	X	X	X		X	X	X
8-5-331.2	Tank Cleaning Requirements; Steam cleaning prohibition	N		X	X	X	X	X	X	X		X	X	X
8-5-331.3	Tank Cleaning Requirements; Steam cleaning exceptions	N		X	X	X	X	X	X	X		X	X	X
8-5-401	Inspection Requirements for External Floating Roof Tanks	N		X	X	X								
8-5-401.1	Inspection Requirements for External Floating Roof Tanks; Primary and Secondary Seal Inspections	N		X	X	X								
8-5-401.2	Inspection Requirements for External Floating Roof Tanks; Tank Fittings Inspections	N		X	X	X								
8-5-402	Inspection Requirements for Internal Floating Roof Tanks	N					X	X						
8-5-402.1	Inspection Requirements for Internal Floating Roof Tanks; Primary and Secondary Seal Inspections – Seal gaps	Y					X	X						
8-5-402.2	Inspection Requirements for Internal Floating Roof Tanks; Visual Inspection of Outer Most Seal	N					X	X						
8-5-402.3	Inspection Requirements for Internal Floating Roof Tanks; Tank Fitting Inspection	N					X	X						
8-5-403	Inspection Requirements for Pressure Relief Devices	N							X	X		X	X	X
8-5-403.1	Inspection Requirements for Pressure Relief Devices; pressure vacuum valves	N							X	X		X		X

**IV. Source-Specific Applicable Requirements**

<b>Table IV – F.3 Source-specific Applicable Requirements TANK GROUP APPLICABLE REQUIREMENTS</b>														
Regulation	Description	FE Y/N	101 ABCD	201 AB	202	203 ABC	301 AB	302 ABC	401 ABCD	402 AB	403 (Reserved)	404	501	502
8-5-403.2	Inspection Requirements for Pressure Relief Devices; PRDs except pressure vacuum valves	N							X	X		X	X	
8-5-404	Inspection, Abatement Efficiency Determination, and Source Test Reports	N		X	X	X	X	X	X	X		X	X	X
8-5-411	Enhanced Monitoring Program (Optional)	N		X	X	X	X	X	X	X		X	X	X
8-5-411.3	Enhanced Monitoring Program (Optional); Performance requirements	N		X	X	X	X	X	X	X		X	X	X
8-5-412	Monitoring of Leaking Pontoons	N		X	X	X								
8-5-501	Records	N		X	X	X	X	X	X	X		X	X	X
8-5-501.1	Records; Type and amounts of liquid, type of blanket gas, TVP - Retain 24 months	Y		X	X	X	X	X	X	X		X	X	X
8-5-501.2	Records; Internal and External Floating Roof Tanks, Seal Replacement Records - Retain 10 years	Y		X	X	X	X	X						
8-5-501.3	Records; Retention	N		X	X	X	X	X	X	X		X	X	X
8-5-501.4	Records; New PV setpoints	N							X	A		X		X
8-5-502	Source Test Requirements and exemption for sources vented to fuel gas	N							X			X	X	X
8-5-502.1	Source Test Requirements; Annual source test for approved emission control systems and abatement devices for 8-5-303.2, 8-5-306.1, 8-5-307.3	N										X	X	X
8-5-502.2	Source Test Requirements; 12-month source test for approved emission control systems and abatement devices for 8-5-328.1 or 331.	N		X	X	X	X	X	X	X		X	X	X
8-5-601	Analysis of Samples, Reid Vapor Pressure	Y												
8-5-602	Analysis of Samples, True Vapor Pressure	Y		X	X	X	X	X	X	X		X	X	X
8-5-603	Determination of Abatement Efficiency	N							X			X	X	X
8-5-604	Determination of Applicability Based on True Vapor Pressure	Y		X	X	X	X	X	X	X		X	X	X
8-5-605	Measurement of Leak Concentration and Residual Concentrations	N		X	X	X	X	X	X	X		X	X	X
8-5-605.1	Measurement of Leak Concentration and Residual Concentrations; EPA Method 21 Instrument	N		X	X	X	X	X	X	X		X	X	X
8-5-605.2	Measurement of Leak Concentration and Residual Concentrations; Test Methods	N		X	X	X	X	X	X	X		X	X	X
8-5-606	Analysis of Samples, Tank Cleaning Agents	N		X	X	X	X	X	X	X		X	X	X
8-5-606.1	Analysis of Samples, Tank Cleaning Agents; IBP	N		X	X	X	X	X	X	X		X	X	X
8-5-606.2	Analysis of Samples, Tank Cleaning Agents; TVP	N		X	X	X	X	X	X	X		X	X	X
8-5-606.3	Analysis of Samples, Tank Cleaning Agents; VOC	N		X	X	X	X	X	X	X		X	X	X
<b>SIP Regulation 8 Rule 5</b>	<b>Organic Compounds - Storage of Organic Liquids (06/05/2003)</b>													
8-5-111	Limited Exemption, Tank Removal From and Return to Service	Y		X	X	X	X	X	X	X		X	X	X
8-5-111.2	Limited Exemption, Tank Removal From and Return to Service, Tank in compliance prior to notification	Y		X	X	X	X	X	X	X		X	X	X
8-5-111.5	Limited Exemption, Tank Removal From and Return to Service, Minimize emissions	Y		X	X	X	X	X	X	X		X	X	X

### IV. Source-Specific Applicable Requirements

<b>Table IV – F.3</b> <b>Source-specific Applicable Requirements</b> <b>TANK GROUP APPLICABLE REQUIREMENTS</b>														
Regulation	Description	FE Y/N	101 ABCD	201 AB	202	203 ABC	301 AB	302 ABC	401 ABCD	402 AB	403 (Reserved)	404	501	502
8-5-111.6	Limited Exemption, Tank Removal From and Return to Service, Notice of completion not required	Y		X	X	X	X	X	X	X		X	X	X
8-5-111.7	Limited Exemption, Tank Removal From and Return to Service, Satisfy requirements of 8-5-328	Y		X	X	X	X	X	X	X		X	X	X
8-5-112	Limited Exemption, Tanks in Operation	Y		X	X	X	X	X	X	X		X	X	X
8-5-112.2	Limited Exemption, Tanks in Operation, Tank in compliance prior to start of work. Certified per 8-5-404	Y		X	X	X	X	X	X	X		X	X	X
8-5-112.4	Limited Exemption, Tanks in Operation, Not to exceed 7 days	Y		X	X	X	X	X	X	X		X	X	X
8-5-116	Exemption, Gasoline Storage Tanks at Gasoline Dispensing Facilities	Y												
8-5-117	Exemption, Low Vapor Pressure	Y	A B D	X	X	X	X	X	X	X		X	X	X
8-5-301	Storage Tank Control Requirements	Y		X	X	X	X	X	X	X		X	X	X
8-5-303	Requirements for Pressure Vacuum Valves	Y							X	A		X		X
8-5-303.1	Requirements for Pressure Vacuum Valves	Y							X	A		X		X
8-5-303.2	Requirements for Pressure Vacuum Valves	Y							X	A		X		X
8-5-304	Requirements for External Floating Roofs; Floating roof requirements	Y		X	X	X								
8-5-304.4	Requirements for External Floating Roofs; Floating roof requirements	Y		X	X	X								
8-5-305	Requirements for Internal Floating roofs	Y					X	X						
8-5-305.5	Requirements for Internal Floating roofs; Floating roof requirements	Y					X	X						
8-5-306	Requirements for Approved Emission Control Systems	Y							X			X		X
8-5-307	Requirements for Pressure Tanks and Blanketed Tanks	Y											X	
8-5-320	Tank Fitting Requirements	Y		X	X	X	X	X						
8-5-320.2	Tank Fitting Requirements – Floating roof tanks, Gasketed covers, seals, lids – Projection below surface except p/v valves and vacuum breaker vents	Y		X	X	X	X	X						
8-5-320.3	Tank Fitting Requirements; Gasketed covers, seals, lids	Y		X	X	X	X	X						
8-5-320.5	Tank Fitting Requirements; Slotted sampling or gauging wells	Y		X	X	X	X	X						
8-5-320.5.2	Tank Fitting Requirements; Slotted sampling or gauging wells -cover, gasket, pole sleeve, pole wiper for EFR wells	Y		X	X	X	X	X						
8-5-321	Primary Seal Requirements	Y		X	X	X	X	X						
8-5-321.3	Primary Seal Requirements; Metallic-shoe-type seal requirements	Y		X	X	X								
8-5-321.4	Primary Seal Requirements; Resilient-toroid-type seal gap requirements	Y					X	X						
8-5-322	Secondary Seal Requirements	Y		X	X	X	X	X						

**IV. Source-Specific Applicable Requirements**

<b>Table IV – F.3 Source-specific Applicable Requirements TANK GROUP APPLICABLE REQUIREMENTS</b>														
Regulation	Description	FE Y/N	101 ABCD	201 AB	202	203 ABC	301 AB	302 ABC	401 ABCD	402 AB	403 (Reserved)	404	501	502
8-5-328	Tank degassing requirements	Y		X	X	X	X	X	X	X		X	X	X
8-5-328.1	Tank degassing requirements; Tanks > 75 cubic meters	Y		X	X	X	X	X	X			X	X	X
8-5-328.1.1	Tank degassing requirements; Liquid Balancing	Y												
8-5-328.1.2	Tank degassing requirements; Concentration of <10,000 ppm as methane after degassing	Y		X	X	X	X	X	X			X	X	X
8-5-401	Inspection Requirements for External Floating Roof Tanks			X	X	X								
8-5-401.1	Inspection Requirements for External Floating Roof Tanks; Primary and Secondary Seal Inspections	Y		X	X	X								
8-5-401.2	Inspection Requirements for External Floating Roof Tanks; Tank Fittings Inspections	Y		X	X	X								
8-5-402	Inspection Requirements for Internal Floating Roof Tanks	Y					X	X						
8-5-402.2	Inspection Requirements for Internal Floating Roof Tanks; Visual Inspection of Outer Most Seal	Y					X	X						
8-5-402.3	Inspection Requirements for Internal Floating Roof Tanks; Tank Fitting Inspection	Y					X	X						
8-5-403	Inspection Requirements for Pressure Vacuum Valves	Y							X	A		X		X
8-5-404	Certification	Y		X	X	X	X	X	X	A		X	X	X
8-5-405	Report	Y		X	X	X	X	X	X	X		X	X	X
8-5-405.1	Information required	Y		X	X	X	X	X	X	X		X	X	X
8-5-405.2	Information required	Y		X	X	X	X	X	X	X		X	X	X
8-5-405.3	Information required	Y		X	X	X	X	X	X	X		X	X	X
8-5-501	Records	Y		X	X	X	X	X	X	X		X	X	X
8-5-503	Portable Hydrocarbon Detector	Y		X	X	X	X	X	X	X		X	X	X
8-5-603	Determination of Emissions	Y							X			X		X
8-5-603.1	Determination of Emissions; Method to test emission control system (8-5-306)	Y							X			X		X
8-5-605	Pressure-Vacuum Valve Gas Tight Determination	Y							X	A		X	X	X
<b>BAAQMD Regulation 10</b>	<b>Standards of Performance for New Stationary Sources incorporated by reference (02/16/2000)</b>													
10-16	Subpart Ka – Standards of Performance for Storage Vessels for Petroleum Liquids for which Construction, Reconstruction, or Modification Commence After June 11, 1973 and Prior to May 19, 1978	Y			X									
10-17	Subpart Kb--Standards Of Performance For Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) For Which Construction, Reconstruction, Or Modification Commenced After July 23, 1984	Y				X		X	C D			X		

### IV. Source-Specific Applicable Requirements

<b>Table IV – F.3</b> <b>Source-specific Applicable Requirements</b> <b>TANK GROUP APPLICABLE REQUIREMENTS</b>																							
Regulation	Description	FE	Y/N	101	ABCD	201	AB	202	203	ABC	301	AB	302	ABC	401	ABCD	402	AB	403 (Reserved)	404	501	502	
<b>BAAQMD Regulation 11, Rule 12</b>	<b>Hazardous Pollutants - National Emission Standard for Benzene Emissions From Benzene Transfer Operations and Benzene Waste Operations (Adopted 07/18/1990; Subpart FF last amended 01/05/1994)</b>	Y							C		C	B	D	X				X					
<b>40 CFR 60 Subpart Ka</b>	<b>NSPS – Standards of Performance for Storage Vessels for Petroleum Liquids for which Construction, Reconstruction, or Modification Commence After June 11, 1973 and Prior to May 19, 1978</b>																						
60.110a(a)	Applicability and Designation of Affected Facility; Volatile organic liquid storage vessels > or = to 40,000 gallons, after 5/18/1978	Y				X																	
<b>40 CFR 60 Subpart Kb</b>	<b>NSPS – Standards of Performance for Storage Vessels for Petroleum Liquids for which Construction, Reconstruction, or Modification Commence After May 18, 1978, and Prior to July 23, 1984</b>																						
60.110b	Applicability and Designation of Affected Facility	Y						A		A	B	C	D					X					
60.110b(a)	Applicability and Designation of Affected Facility; Volatile organic liquid storage vessels > or = to 75 cu m, after 7/23/1984	Y						A		A	B	C	D					X					
60.110b(b)	Applicability and Designation of Affected Facility – Exemption for low vapor pressure; NSPS Kb does not apply to vessels with capacity > 151 cu m and TVP < 3.5 kPa or to vessels with capacity >= 75 cu m and <= 151 cu m and TVP < 15.0 kPa.	Y						A		A	B	C	D					X					
60.110b(d)	This subpart does not apply to the following:	Y																					
60.110b(d)(2)	Pressure vessels designed to operate in excess of 204.9 kPa and without emissions to the atmosphere.	Y																					
60.110b(d)(4)	Vessels with a design capacity less than or equal to 1,589.874 m3 used for petroleum or condensate stored, processed, or treated prior to custody transfer.	Y																					
60.110b(d)(8)	Vessels subject to subpart GGGG of 40 CFR part 63.	Y																					
60.112b	Standard for Volatile Organic Compounds (VOC)	Y						X		X		C	D					X					
60.112b(a)	Standard for Volatile Organic Compounds (VOC); Requirement for tanks-- > 151 cu m with maximum TVP >=5.2 kPa and <76.6; or >= 75 cu m and < 151 cu m with maximum TVP >= 27.6 kPa and < 76.6 kPa	Y						X		X		C	D					X					
60.112b(a)(1)	Standard for Volatile Organic Compounds (VOC); Fixed roof with internal floating roof option	Y								X													
60.112b(a)(1)(i)	Standard for Volatile Organic Compounds (VOC); Internal floating roof requirements	Y								X													

**IV. Source-Specific Applicable Requirements**

<p align="center"><b>Table IV – F.3</b>  <b>Source-specific Applicable Requirements</b>  <b>TANK GROUP APPLICABLE REQUIREMENTS</b></p>														
Regulation	Description	FE Y/N	101 ABCD	201 AB	202	203 ABC	301 AB	302 ABC	401 ABCD	402 AB	403 (Reserved)	404	501	502
60.112b(a)(1)(ii)	Standard for Volatile Organic Compounds (VOC); Internal floating roof seal requirements	Y						X						
60.112b(a)(1)(ii) (A)	A foam-or liquid-filled seal mounted in contact with the liquid (liquid-mounted seal). A liquid-mounted seal means a foam-or liquid-filled seal mounted in contact with the liquid between the wall of the storage vessel and the	Y												
60.112b(a)(1)(ii) (B)	Standard for Volatile Organic Compounds (VOC); Internal floating roof double seal option	Y						X						
60.112b(a)(1)(ii) (C)	A mechanical shoe seal. A mechanical shoe seal is a metal sheet held vertically against the wall of the storage vessel by springs or weighted levers and is connected by braces to the floating roof. A flexible coated fabric (envelope)	Y												
60.112b(a)(1)(iii)	Standard for Volatile Organic Compounds (VOC); Internal floating roof openings-projections below roof surface	Y						X						
60.112b(a)(1)(iv)	Standard for Volatile Organic Compounds (VOC); Internal floating roof openings covers	Y						X						
60.112b(a)(1)(v)	Standard for Volatile Organic Compounds (VOC); Internal floating roof automatic bleeder vents	Y						X						
60.112b(a)(1)(vi)	Standard for Volatile Organic Compounds (VOC); Internal floating roof rim space vents	Y						X						
60.112b(a)(1)(vii)	Standard for Volatile Organic Compounds (VOC); Internal floating roof sampling penetrations	Y						X						
60.112b(a)(1)(viii)	Standard for Volatile Organic Compounds (VOC); Internal floating roof support column penetrations	Y						X						
60.112b(a)(1)(ix)	Standard for Volatile Organic Compounds (VOC); Internal floating roof ladder penetrations	Y						X						
60.112b(a)(2)	Standard for Volatile Organic Compounds (VOC); External floating roof option	Y				X								
60.112b(a)(2)(i)	Standard for Volatile Organic Compounds (VOC); External floating roof seal requirements	Y				X								
60.112b(a)(2)(i) (A)	Standard for Volatile Organic Compounds (VOC); External floating roof primary seal requirements	Y				X								
60.112b(a)(2)(i) (B)	Standard for Volatile Organic Compounds (VOC); External floating roof secondary seal requirements	Y				X								
60.112b(a)(2)(ii)	Standard for Volatile Organic Compounds (VOC); External floating roof openings requirements	Y				X								
60.112b(a)(2)(iii)	Standard for Volatile Organic Compounds (VOC); External floating roof floating requirements	Y				X								
60.112b(a)(3)	Standard for Volatile Organic Compounds (VOC); Closed vent system and control device	Y				X			C D			X		
60.112b(a)(3)(i)	Standard for Volatile Organic Compounds (VOC); Closed vent system and control device no detectable emissions	Y							C D			X		



### IV. Source-Specific Applicable Requirements

<b>Table IV – F.3</b> <b>Source-specific Applicable Requirements</b> <b>TANK GROUP APPLICABLE REQUIREMENTS</b>														
Regulation	Description	FE Y/N	101 ABCD	201 AB	202	203 ABC	301 AB	302 ABC	401 ABCD	402 AB	403 (Reserved)	404	501	502
60.112b(a)(3)(ii)	Standard for Volatile Organic Compounds (VOC); Closed vent system and control device >= 95% inlet VOC emission reduction.	Y							C D			X		
60.112b(b)	Standard for Volatile Organic Compounds (VOC); Requirements for tanks >= 75 cu m and maximum TVP >= 76.6 kPa	Y												
60.112b(b)(1)	Standard for Volatile Organic Compounds (VOC); Closed vent system and control device option	Y												
60.112b(b)(2)	A system equivalent to that described in paragraph (b)(1) as provided in §60.114b of this subpart.	Y												
60.113b	Testing and Procedures	Y				X		X	C D			X		
60.113b(a)	Testing and Procedures; Internal floating roof	Y						X						
60.113b(a)(1)	Testing and Procedures; Internal floating roof visual inspection before	Y						X						
60.113b(a)(2)	Testing and Procedures; Internal floating roof tanks with liquid mounted or mechanical shoe primary seal, annual inspection	Y						X						
60.113b(a)(3)	For vessels equipped with a double-seal system as specified in §60.112b(a)(1)(ii)(B):	Y												
60.113b(a)(3)(i)	Visually inspect the vessel as specified in paragraph (a)(4) of this section at least every 5 years; or	Y												
60.113b(a)(3)(ii)	Testing and Procedures; Internal floating roof with double seal system, annual inspection	Y						X						
60.113b(a)(4)	Testing and Procedures; Internal floating roof inspections after emptied and degassed – at least every 10 years	Y						X						
60.113b(a)(5)	Testing and Procedures; Internal floating roof, 30 day notification for filling after inspection	Y						X						
60.113b(b)	Testing and Procedures; External floating roof	Y				X								
60.113b(b)(1)	Testing and Procedures; External floating roof seal gap measurement frequency	Y				X								
60.113b(b)(1)(i)	Testing and Procedures; External floating roof primary seal gaps measurement frequency	Y				X								
60.113b(b)(1)(ii)	Testing and Procedures; External floating roof secondary seal gaps measurement frequency	Y				X								
60.113b(b)(1)(iii)	Testing and Procedures; External floating roof reintroduction of VOL	Y				X								
60.113b(b)(2)	Testing and Procedures; External floating roof seal gap measurement procedures	Y				X								
60.113b(b)(2)(i)	Testing and Procedures; External floating roof measure seal gaps when roof is floating	Y				X								
60.113b(b)(2)(ii)	Testing and Procedures; External floating roof measure seal gaps around entire circumference	Y				X								
60.113b(b)(2)(iii)	Testing and Procedures; External floating roof seal method to determine surface area of seal gaps	Y				X								

### IV. Source-Specific Applicable Requirements

<b>Table IV – F.3</b>														
<b>Source-specific Applicable Requirements</b>														
<b>TANK GROUP APPLICABLE REQUIREMENTS</b>														
Regulation	Description	FE Y/N	101 ABCD	201 AB	202	203 ABC	301 AB	302 ABC	401 ABCD	402 AB	403 (Reserved)	404	501	502
60.113b(b)(3)	Testing and Procedures; External floating roof method to calculate total surface area ratio	Y				X								
60.113b(b)(4)	Testing and Procedures; External floating roof seal gap repair requirements	Y				X								
60.113b(b)(4)(i)	Testing and Procedures; External floating roof primary seal gap limitations	Y				X								
60.113b(b)(4)(i)(A)	Testing and Procedures; External floating roof mechanical shoe primary seal requirements	Y				X								
60.113b(b)(4)(i)(B)	Testing and Procedures; External floating roof primary seals no holes, tears, openings	Y				X								
60.113b(b)(4)(ii)	Testing and Procedures; External floating roof secondary seal	Y				X								
60.113b(b)(4)(ii)(A)	Testing and Procedures; External floating roof secondary seal installation	Y				X								
60.113b(b)(4)(ii)(B)	Testing and Procedures; External floating roof secondary seal gap	Y				X								
60.113b(b)(4)(ii)(C)	Testing and Procedures; External floating roof secondary seals no holes, tears, openings	Y				X								
60.113b(b)(4)(iii)	Testing and Procedures; External floating roof 30-day extension request for seal gap repairs	Y				X								
60.113b(b)(5)	Testing and Procedures; External floating roof seal gap inspections 30 day notification	Y				X								
60.113b(b)(6)	Testing and Procedures; External floating roof visual inspection when emptied and degassed	Y				X								
60.113b(b)(6)(i)	Testing and Procedures; External floating roof--roof or seal defect repairs	Y				X								
60.113b(b)(6)(ii)	Testing and Procedures; External floating roof notification prior to filling	Y				X								
60.113b(c)	Testing and Procedures; Closed vent system and control device (not flare)	Y							C D			X		
60.113b(c)(1)	Testing and Procedures; Closed vent system and control device (not flare) operating plan submission	Y							C D			X		
60.113b(c)(1)(i)	Testing and Procedures; Closed vent system and control device (not flare) operating plan--efficiency demonstration	Y							C D			X		
60.113b(c)(1)(ii)	Testing and Procedures; Closed vent system and control device (not flare) operating plan--monitoring parameters	Y							C D			X		
60.113b(c)(2)	Testing and Procedures; Closed vent system and control device (not flare) operate in accordance with operating plan	Y							C D			X		
60.115b	Recordkeeping and Reporting Requirements	Y				X		X	C D			X		
60.115b(a)	Reporting and Recordkeeping Requirements; 60.112b(a) internal floating	Y						X						

**IV. Source-Specific Applicable Requirements**

<b>Table IV – F.3 Source-specific Applicable Requirements TANK GROUP APPLICABLE REQUIREMENTS</b>														
<b>Regulation</b>	<b>Description</b>	<b>FE Y/N</b>	<b>101 ABCD</b>	<b>201 AB</b>	<b>202</b>	<b>203 ABC</b>	<b>301 AB</b>	<b>302 ABC</b>	<b>401 ABCD</b>	<b>402 AB</b>	<b>403 (Reserved)</b>	<b>404</b>	<b>501</b>	<b>502</b>
60.115b(a)(1)	Reporting and Recordkeeping Requirements; 60.112b(a) internal floating roof control equipment description and certification	Y						X						
60.115b(a)(2)	Reporting and Recordkeeping Requirements; 60.112b(a) internal floating roof inspection records	Y						X						
60.115b(a)(3)	Reporting and Recordkeeping Requirements; 60.112b(a) internal floating roof annual inspection defects report	Y						X						
60.115b(a)(4)	Reporting and Recordkeeping Requirements; 60.112b(a) internal floating roof double seal system inspection defects report	Y						X						
60.115b(b)	Reporting and Recordkeeping Requirements; 60.112b(a) external floating	Y				X								
60.115b(b)(1)	Reporting and Recordkeeping Requirements; 60.112b(a) external floating roof control equipment description and certification	Y				X								
60.115b(b)(2)	Reporting and Recordkeeping Requirements; 60.112b(a) external floating	Y				X								
60.115b(b)(2)(i)	Reporting and Recordkeeping Requirements; 60.112b(a) external floating roof seal gap measurement report--date of measurement	Y				X								
60.115b(b)(2)(ii)	Reporting and Recordkeeping Requirements; 60.112b(a) external floating roof seal gap measurement report--raw data	Y				X								
60.115b(b)(2)(iii)	Reporting and Recordkeeping Requirements; 60.112b(a) external floating roof seal gap measurement report--calculations	Y				X								
60.115b(b)(3)	Reporting and Recordkeeping Requirements; 60.112b(a) external floating roof seal gap measurement records	Y				X								
60.115b(b)(3)(i)	Reporting and Recordkeeping Requirements; 60.112b(a) external floating roof seal gap measurement records--date of measurement	Y				X								
60.115b(b)(3)(ii)	Reporting and Recordkeeping Requirements; 60.112b(a) external floating roof seal gap measurement records--raw data	Y				X								
60.115b(b)(3)(iii)	Reporting and Recordkeeping Requirements; 60.112b(a) external floating roof seal gap measurement records--calculations	Y				X								
60.115b(b)(4)	Reporting and Recordkeeping Requirements; 60.112b(a) external floating roof seal gap exceedance report	Y				X								
60.115b(c)	Reporting and Recordkeeping Requirements; Closed vent system and control device (not flare)	Y							C D			X		
60.115b(c)(1)	Reporting and Recordkeeping Requirements; Closed vent system and control device (not flare) operating plan copy	Y							C D			X		

**IV. Source-Specific Applicable Requirements**

<p align="center"><b>Table IV – F.3</b>  <b>Source-specific Applicable Requirements</b>  <b>TANK GROUP APPLICABLE REQUIREMENTS</b></p>														
Regulation	Description	FE Y/N	101 ABCD	201 AB	202	203 ABC	301 AB	302 ABC	401 ABCD	402 AB	403 (Reserved)	404	501	502
60.115b(c)(2)	Reporting and Recordkeeping Requirements; Closed vent system and control device (not flare) operating records	Y							C D			X		
60.116b	Monitoring of Operations	Y				X		X	C D			X		
60.116b(a)	Monitoring of Operations; Record retention	Y				X		X	C D			X		
60.116b(b)	Monitoring of Operations; Permanent record requirements	Y				X		X	C D			X		
60.116b(c)	Monitoring of Operations; VOL storage record requirements	Y				X		X						
60.116b(d)	Monitoring of Operations; Notify within 30 days when the maximum TVP is exceeded	Y				X		X						
60.116b(e)	Monitoring of Operations; Maximum true vapor pressure (TVP)	Y				X		X	C D			X		
60.116b(e)(1)	Monitoring of Operations; TVP Determination Criteria	Y				X		X	C D			X		
60.116b(e)(2)	Monitoring of Operations; TVP Determination Criteria, Crude Oil	Y				A		A B	C D			X		
60.116b(e)(2)(i)	Monitoring of Operations; Determine TVP-crude oil or refined petroleum products by API method	Y				A		A B	C D			X		
60.116b(e)(2)(ii)	Monitoring of Operations; Determine TVP-crude oil or refined petroleum products other than API method	Y				A		A B	C D			X		
60.116b(e)(3)	Monitoring of Operations; Determine TVP	Y				X		X	C D			X		
60.116b(e)(3)(i)	Monitoring of Operations; Determine TVP-other liquids-standard reference texts	Y				X		X	C D			X		
60.116b(e)(3)(ii)	Monitoring of Operations; Determine TVP-other liquids-ASTM method	Y				X		X	C D			X		
60.116b(e)(3)(iii)	Monitoring of Operations; Determine TVP-other liquids-other approved measurement method	Y				X		X	C D			X		
60.116b(e)(3)(iv)	Monitoring of Operations; Determine TVP-other liquids-other approved calculation method	Y				X		X	C D			X		
60.116b(f)	Monitoring of Operations; Waste storage tanks (indeterminate or variable composition)	Y				C		C	C D			X		
60.116b(f)(1)	Monitoring of Operations; Waste storage tanks-Determine maximum possible TVP	Y				C		C	C D			X		
60.116b(f)(2)	Monitoring of Operations; Waste storage tanks-Vapor pressure tests	Y				C		C	C D			X		
60.116b(f)(2)(i)	Monitoring of Operations; Waste storage tanks-Vapor pressure tests ASTM D 2879 method	Y				C		C	C D			X		
60.116b(f)(2)(ii)	Monitoring of Operations; Waste storage tanks-Vapor pressure tests ASTM D 323 method	Y				C		C	C D			X		
60.116b(f)(2)(iii)	Monitoring of Operations; Waste storage tanks-Vapor pressure tests-other approved method	Y				C		C	C D			X		
60.116b(g)	Monitoring of Operations; Exemption from 116b(c) and 116b(d)	Y							C D			X		

### IV. Source-Specific Applicable Requirements

<b>Table IV – F.3 Source-specific Applicable Requirements TANK GROUP APPLICABLE REQUIREMENTS</b>														
Regulation	Description	FE Y/N	101 ABCD	201 AB	202	203 ABC	301 AB	302 ABC	401 ABCD	402 AB	403 (Reserved)	404	501	502
<b>40 CFR 63 Subpart G</b>	<b>NESHAPS for Source Categories: SOCMHON G Requirements for Tanks subject to 40 CFR 63 Subpart CC</b>													
63.119	Storage Vessel Provisions--Reference Control Technology	Y		X	X		X							
63.119(a)	Storage Vessel Provisions -- Reference Control Technology	Y		X	X		X							
63.119(a)(1)	Storage Vessel Provisions -- Reference Control Technology--Group 1, TVP < 76.6 kPa (11psi)	Y		X	X		X							
63.119(b)	Storage Vessel Provisions - Reference Control Technology - Fixed Roof with Internal Floating Roof	Y					X							
63.119(b)(1)	Storage Vessel Provisions - Reference Control Technology - Fixed Roof with Internal Floating Roof; Leg Support	Y					X							
63.119(b)(1)(i)	Storage Vessel Provisions - Reference Control Technology - Fixed Roof with Internal Floating Roof ; Initial Fill	Y					X							
63.119(b)(1)(ii)	Storage Vessel Provisions - Reference Control Technology - Fixed Roof with Internal Floating Roof; Empty and Degassed	Y					X							
63.119(b)(1)(iii)	Storage Vessel Provisions - Reference Control Technology - Fixed Roof with Internal Floating Roof; Completely Empty	Y					X							
63.119(b)(2)	Storage Vessel Provisions - Reference Control Technology - Fixed Roof with Internal Floating Roof Resting on Leg Support	Y					X							
63.119(b)(3)	Storage Vessel Provisions - Reference Control Technology - Fixed Roof with Internal Floating Roof Closure Device	Y					X							
63.119(b)(3)(i)	Storage Vessel Provisions - Reference Control Technology - Fixed Roof with Internal Floating Roof Liquid Mounted Seal	Y					X							
63.119(b)(3)(ii)	Storage Vessel Provisions - Reference Control Technology - Fixed Roof with Internal Floating Roof Metallic Shoe Seal	Y					X							
63.119(b)(3)(iii)	Two seals mounted one above the other so that each forms a continuous closure that completely covers the space between the wall of the storage vessel and the edge of the internal floating roof. The lower seal may be vapor-mounted, but both must be continuous seals	Y					X							
63.119(b)(4)	Storage Vessel Provisions - Reference Control Technology - Fixed Roof with Internal Floating Roof Automatic Bleeder Vent	Y					X							
63.119(c)	Storage Vessel Provisions . Reference Control Technology--External floating roof	Y		X	X									
63.119(c)(1)	Storage Vessel Provisions . Reference Control Technology--External floating roof seals	Y		X	X									

**IV. Source-Specific Applicable Requirements**

<b>Table IV – F.3 Source-specific Applicable Requirements TANK GROUP APPLICABLE REQUIREMENTS</b>														
Regulation	Description	FE Y/N	101 ABCD	201 AB	202	203 ABC	301 AB	302 ABC	401 ABCD	402 AB	403 (Reserved)	404	501	502
63.119(c)(1)(i)	Storage Vessel Provisions . Reference Control Technology--External floating roof double seals required	Y		X	X									
63.119(c)(1)(ii)	Storage Vessel Provisions . Reference Control Technology--External floating roof primary seal requirements	Y		X	X									
63.119(c)(1)(iii)	Storage Vessel Provisions . Reference Control Technology--External floating roof primary and secondary seal requirements	Y		X	X									
63.119(c)(3)	Storage Vessel Provisions . Reference Control Technology--External floating roof – roof must rest on liquid	Y		X	X									
63.119(c)(3)(i)	Storage Vessel Provisions . Reference Control Technology--External floating roof exception	Y		X	X									
63.119(c)(3)(ii)	Storage Vessel Provisions . Reference Control Technology--External floating roof exception	Y		X	X									
63.119(c)(3)(iii)	Storage Vessel Provisions . Reference Control Technology--External floating roof exception	Y		X	X									
63.119(c)(4)	Storage Vessel Provisions . Reference Control Technology--External Floating Roof Operations, when not floating	Y		X	X									
63.120	Storage Vessel Provisions - Procedures To Determine Compliance.	Y		X	X		X							
63.120(a)	Storage Vessel Provisions - Procedures To Determine Compliance - Fixed Roof with Internal Floating Roof	Y					X							
63.120(a)(1)	Storage Vessel Provisions - Procedures To Determine Compliance - Fixed Roof with Internal Floating Roof Seal Inspection Schedule	Y					X							
63.120(a)(2)	Storage Vessel Provisions - Procedures To Determine Compliance - Fixed Roof with Internal Floating Roof with Single Seal System	Y					X							
63.120(a)(2)(i)	Storage Vessel Provisions - Procedures To Determine Compliance - Fixed Roof with Internal Floating Roof Seal Inspection through Manhole	Y					X							
63.120(a)(2)(ii)	Storage Vessel Provisions - Procedures To Determine Compliance - Fixed Roof with Internal Floating Roof Seal Inspection once every 12 months or during Empty and Degassing	Y					X							
63.120(a)(3)	Storage Vessel Provisions - Procedures To Determine Compliance - Fixed Roof with Internal Floating Roof with Double Seal System	Y					X							
63.120(a)(3)(i)	Storage Vessel Provisions - Procedures To Determine Compliance - Fixed Roof with Internal Floating Roof Seal Inspection once During Empty and Degassing and Once Every 5 Years	Y					X							

**IV. Source-Specific Applicable Requirements**

<b>Table IV – F.3</b>														
<b>Source-specific Applicable Requirements</b>														
<b>TANK GROUP APPLICABLE REQUIREMENTS</b>														
Regulation	Description	FE Y/N	101 ABCD	201 AB	202	203 ABC	301 AB	302 ABC	401 ABCD	402 AB	403 (Reserved)	404	501	502
63.120(a)(3)(ii)	Storage Vessel Provisions - Procedures To Determine Compliance - Fixed Roof with Internal Floating Roof Seal Inspection through Manhole at Least Once Every 12 Months	Y					X							
63.120(a)(3)(iii)	Storage Vessel Provisions - Procedures To Determine Compliance - Fixed Roof with Internal Floating Roof Seal Inspection once During Empty and Degassing and Once Every 10 Years	Y					X							
63.120(a)(4)	Storage Vessel Provisions - Procedures To Determine Compliance - Repair within 45 days or Extension Needed	Y					X							
63.120(a)(5)	Storage Vessel Provisions - Procedures To Determine Compliance - Notify at least 30 days prior to filling	Y					X							
63.120(a)(6)	Storage Vessel Provisions - Procedures To Determine Compliance - Unplanned Inspection	Y					X							
63.120(a)(7)	Storage Vessel Provisions - Procedures To Determine Compliance - Inspect Every 5 Years for Secondary and Primary Seals	Y					X							
63.120(b)	Storage Vessel Provisions . Procedures to Determine Compliance--Compliance Demonstration--External floating roof	Y		X	X									
63.120(b)(1)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR seal gap measurement	Y		X	X									
63.120(b)(1)(i)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR with double seals primary seal gap measurement	Y		X	X									
63.120(b)(1)(ii)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR with double seals secondary seal gap	Y		X	X									
63.120(b)(1)(iii)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR seal inspections prior to tank refill after service	Y		X	X									
63.120(b)(1)(iv)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR and seal gap determination methods	Y		X	X									
63.120(b)(2)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR and seal gap determination methods	Y		X	X									
63.120(b)(2)(i)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR and seal gap determination methods	Y		X	X									
63.120(b)(2)(ii)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR with double seals secondary seal gap	Y		X	X									
63.120(b)(2)(iii)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR and seal gap determination methods	Y		X	X									

**IV. Source-Specific Applicable Requirements**

<b>Table IV – F.3 Source-specific Applicable Requirements TANK GROUP APPLICABLE REQUIREMENTS</b>														
<b>Regulation</b>	<b>Description</b>	<b>FE Y/N</b>	<b>101 ABCD</b>	<b>201 AB</b>	<b>202</b>	<b>203 ABC</b>	<b>301 AB</b>	<b>302 ABC</b>	<b>401 ABCD</b>	<b>402 AB</b>	<b>403 (Reserved)</b>	<b>404</b>	<b>501</b>	<b>502</b>
63.120(b)(3)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR primary seal gap calculation method	Y		X	X									
63.120(b)(4)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR secondary seal gap calculation method	Y		X	X									
63.120(b)(5)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR primary seal requirements	Y		X	X									
63.120(b)(5)(i)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR primary seal requirements metallic shoe	Y		X	X									
63.120(b)(5)(ii)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR primary seal, no holes	Y		X	X									
63.120(b)(6)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR secondary seal requirements	Y		X	X									
63.120(b)(6)(i)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR secondary seal location	Y		X	X									
63.120(b)(6)(ii)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR secondary seal, no holes	Y		X	X									
63.120(b)(7)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR unsafe to perform seal measurements	Y		X	X									
63.120(b)(7)(i)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR unsafe to perform seal measurements	Y		X	X									
63.120(b)(7)(ii)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR unsafe to perform seal measurements	Y		X	X									
63.120(b)(8)	Storage Vessel Provisions -- Procedures to Determine Compliance External FR Repairs	Y		X	X									
63.120(b)(9)	Storage Vessel Provisions -- Procedures to Determine Compliance External FR seal gap measurement 30 day notification	Y		X	X									
63.120(b)(10)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR and seals visual inspection each time emptied	Y		X	X									
63.120(b)(10)(i)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR and seal repairs [does not apply to gaskets slotted membranes, or sleeve seals for Group 1 Refinery MACT per 40 CFR 63.646(e)]	Y		X	X									
63.120(b)(10)(ii)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR and seal inspections 30 day notification	Y		X	X									
63.120(b)(10)(iii)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR and seal inspections - Notification for unplanned	Y		X	X									



**IV. Source-Specific Applicable Requirements**

<b>Table IV – F.3 Source-specific Applicable Requirements TANK GROUP APPLICABLE REQUIREMENTS</b>														
Regulation	Description	FE Y/N	101 ABCD	201 AB	202	203 ABC	301 AB	302 ABC	401 ABCD	402 AB	403 (Reserved)	404	501	502
63.123	Storage Vessel Provisions--Recordkeeping.	Y		X	X		X							
63.123(a)	Storage Vessel Provisions . Recordkeeping--Group 1 and Group 2	Y		X	X		X							
63.123(c)	Storage Vessel Provisions . Recordkeeping - Group 1 Fixed Roof with Internal Floating Roof	Y					X							
63.123(d)	Storage Vessel Provisions . Recordkeeping--Group 1 External floating Roof	Y		X	X									
63.123(g)	Storage Vessel Provisions -- Recordkeeping, Extensions	Y		X	X		X							
<b>40 CFR 63 Subpart CC</b>	<b>NESHAPS for Source Categories - Petroleum Refineries (MACT) (06/03/2003)</b>													
63.640	Applicability	Y	B D	X	X	X	X	X	X					
63.640(c)(2)	Applicability and Designation of Storage Vessels	Y	B D	X	X	A B	X	A B	A C					
63.640(c)(3)	Wastewater streams and treatment operations associated with petroleum refining process units meeting the criteria of section 63.640(a)	Y				C		C	B D					
63.640(d)	Applicability and Designation of Affected Sources: Exclusions	Y	D						X					
63.640(d)(5)	Exclusion for emission points routed to fuel gas system.. No testing, monitoring, recordkeeping, or reporting is required for refinery fuel gas systems or emission points routed to refinery fuel gas systems.	Y	D						X					
63.640(n)	Applicability and Designation of Affected Source Overlap for Storage Vessels	Y			X	A B		X						
63.640(n)(1)	Applicability and Designation of Affected Source Overlap for Storage Vessels--Existing Group 1 or Group 2 also subject to Kb only subject to Kb and 63.640(n)(8).	Y				A B		X						
63.640(n)(5)	Applicability and Designation of Affected Source Overlap for Storage Vessels—Existing Group 1 also subject to K or Ka only subject to this subpart	Y			X									
63.640(n)(8)	Applicability and Designation of Affected Source Overlap for Storage Vessels--Additional requirements for Kb storage vessels	Y				A B		X						
63.640(n)(8)(i)	Applicability and Designation of Affected Source Overlap for Storage Vessels--Additional requirements for Kb storage vessels - Secondary Seal Exemption	Y				A B		X						
63.640(n)(8)(ii)	Applicability and Designation of Affected Source Overlap for Storage Vessels--Additional requirements for Kb storage vessels - Unsafe to perform gap measurement or inspection	Y				A B		X						
63.640(n)(8)(iii)	Applicability and Designation of Affected Source Overlap for Storage Vessels--Additional requirements for Kb storage vessels - Repair failure within 45 days or use extension	Y				A B		X						

**IV. Source-Specific Applicable Requirements**

<b>Table IV – F.3 Source-specific Applicable Requirements TANK GROUP APPLICABLE REQUIREMENTS</b>														
Regulation	Description	FE Y/N	101 ABCD	201 AB	202	203 ABC	301 AB	302 ABC	401 ABCD	402 AB	403 (Reserved)	404	501	502
63.640(n)(8)(iv)	Applicability and Designation of Affected Source Overlap for Storage Vessels--Additional requirements for Kb storage vessels - Report extension utilized	Y				A B		X						
63.640(n)(8)(v)	Applicability and Designation of Affected Source Overlap for Storage Vessels--Additional requirements for Kb storage vessels - Submit Kb inspection records as part of CC Report	Y				A B		X						
63.640(n)(8)(vi)	Applicability and Designation of Affected Source Overlap for Storage Vessels--Additional requirements for Kb storage vessels - Rim seal inspection report	Y				A B		X						
63.641	Definitions:	Y	B	X	X	X	X	X	X					
63.646	Storage Vessel Provisions	Y	B	X	X		X							
63.646(a)	Storage Vessel Provisions--Group 1, Comply with Subpart G 63.119 through 63.121.	Y		X	X		X							
63.646(b)(1)	Storage Vessel Provisions--Determine stored liquid % OHAP for group determination	Y	B	X	X		X							
63.646(b)(2)	Storage Vessel Provisions--Determine stored liquid % OHAP-method 18 to resolve disputes	Y	B	X	X		X							
63.646(c)	Storage Vessel Provisions--40 CFR 63 exclusions for storage vessels 63.119(b)(5); (b)(6); (c)(2); and (d)(2) are not applicable	Y		X	X		X							
63.646(d)	Storage Vessel Provisions--How to handle references in 40 CFR 63 Subpart G for storage vessels	Y		X	X		X							
63.646(e)	Storage Vessel Provisions--Compliance with inspection requirements of 63.120 of Subpart G for gaskets, slotted membranes, and sleeve seals	Y		X	X		X							
63.646(f)	Storage Vessel Provisions—Group 1 floating roof requirements	Y		X	X		X							
63.646(f)(1)	Storage Vessel Provisions—Group 1 floating roof requirements--Cover or lid	Y		X	X		X							
63.646(f)(2)	Storage Vessel Provisions—Group 1 floating roof requirements--Rim space	Y		X	X		X							
63.646(f)(3)	Storage Vessel Provisions—Group 1 floating roof requirements--Automatic bleeder vents	Y		X	X		X							
63.646(g)	Storage Vessel Provisions—Failure to perform inspections and monitoring required by this section shall constitute a violation of the applicable standard of this subpart.	Y		X	X		X							
63.646(h)	Storage Vessel Provisions—References in 63.119 through 63.121 to 63.122(g)(1), 63.151, and references to initial notification requirements do not apply	Y		X	X		X							
63.646(i)	Storage Vessel Provisions—References to the Implementation Plan in 63.120, paragraphs (d)(2) and (d)(3)(i) shall be replaced with the Notification of Compliance Status report.	Y												

**IV. Source-Specific Applicable Requirements**

<b>Table IV – F.3 Source-specific Applicable Requirements TANK GROUP APPLICABLE REQUIREMENTS</b>														
Regulation	Description	FE Y/N	101 ABCD	201 AB	202	203 ABC	301 AB	302 ABC	401 ABCD	402 AB	403 (Reserved)	404	501	502
63.646(j)	Storage Vessel Provisions—References to the Notification of Compliance Status Report in 63.152(b) shall be replaced with 63.654(f).	Y		X	X		X							
63.646(k)	Storage Vessel Provisions—References to the Periodic Reports in 63.152(c) shall be replaced with 63.654(g).	Y		X	X		X							
63.646(l)	Storage Vessel Provisions--State or local permitting agency notification requirements	Y		X	X		X							
63.647	Wastewater Provisions	Y				C		C	B D					
63.647(a)	Wastewater Provisions--Group 1 wastewater streams must comply with 61.340-61.355 (Subpart FF)	Y				C		C	B D					
63.647(c)	Wastewater Provisions--Owners/operators required under subpart FF of 40 CFR part 61 to perform periodic measurement of benzene concentration in wastewater, etc., shall operate consistently with the permitted concentration or operating parameter values.	Y				C		C	B D					
63.654	Reporting and Recordkeeping Requirements	Y		X	X	X	X	X	B D					
63.654(a)	Reporting and Recordkeeping Requirements--Group 1 wastewater streams must comply with 61.356 and 61.357 (Subpart FF)	Y				C		C	B D					
63.654(f)	Reporting and Recordkeeping Requirements--Notice of compliance status report requirements	Y		X	X		X							
63.654(f)(1)(i)(A)	Reporting and Recordkeeping Requirements--Notice of compliance status report requirements--Reporting--storage vessels	Y		X	X		X							
63.654(f)(1)(i)(A)(1)	Reporting and Recordkeeping Requirements--Notice of compliance status report requirements--Reporting--storage vessels	Y		X	X		X							
63.654(g)	Reporting and Recordkeeping Requirements—Periodic Reports	Y		X	X	X	X	X						
63.654(g)(1)	Periodic Reporting and Recordkeeping Requirements-Periodic Reports-storage vessels	Y		X	X	X	X	X						
63.654(g)(2)	Periodic Reporting and Recordkeeping Requirements-storage vessels with fixed roof with internal floating roofs	Y					X							
63.654(g)(2)(i)	Periodic Reporting and Recordkeeping Requirements-storage vessels with fixed roof with internal floating roofs	Y					X							
63.654(g)(2)(i)(C)	Periodic Reporting and Recordkeeping Requirements-storage vessels with fixed roof with internal floating roofs	Y					X							

**IV. Source-Specific Applicable Requirements**

<b>Table IV – F.3 Source-specific Applicable Requirements TANK GROUP APPLICABLE REQUIREMENTS</b>														
Regulation	Description	FE Y/N	101 ABCD	201 AB	202	203 ABC	301 AB	302 ABC	401 ABCD	402 AB	403 (Reserved)	404	501	502
63.654(g)(2)(ii)	Periodic Reporting and Recordkeeping Requirements--storage vessels with fixed roof with internal floating roofs	Y					X							
63.654(g)(2)(ii)(B)	Periodic Reporting and Recordkeeping Requirements--storage vessels with fixed roof with internal floating roofs	Y					X							
63.654(g)(3)	Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs	Y		X	X									
63.654(g)(3)(i)	Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs	Y		X	X									
63.654(g)(3)(i)(A)	Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs	Y		X	X									
63.654(g)(3)(i)(B)	Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs	Y		X	X									
63.654(g)(3)(i)(C)	Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs	Y		X	X									
63.654(g)(3)(i)(D)	Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs	Y		X	X									
63.654(g)(3)(ii)	Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs	Y		X	X									
63.654(g)(3)(iii)	Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs	Y		X	X									
63.654(g)(3)(iii)(B)	Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs	Y		X	X									
63.654(g)(5)	Reporting and Recordkeeping Requirements—storage vessels with closed vent systems and control devices	Y												
63.654(g)(5)(i)	Reporting and Recordkeeping Requirements—storage vessels with closed vent systems and control devices	Y												
63.654(g)(5)(i)(A)	Reporting and Recordkeeping Requirements—storage vessels with closed vent systems and control devices	Y												
63.654(g)(5)(i)(B)	Reporting and Recordkeeping Requirements—storage vessels with closed vent systems and control devices	Y												
63.654(g)(5)(ii)	Reporting and Recordkeeping Requirements—storage vessels with closed vent systems and control devices	Y												
63.654(h)(2)	Reporting and Recordkeeping Requirements--Other reports--Storage vessel notification of inspections.	Y		X	X		X							
63.654(h)(2)(i)	Reporting and Recordkeeping Requirements--Other reports--Storage vessel notification of inspections.	Y		X	X		X							
63.654(h)(2)(i)(A)	Reporting and Recordkeeping Requirements--Other reports--Storage vessel notification of inspections.	Y		X	X		X							
63.654(h)(2)(i)(B)	Reporting and Recordkeeping Requirements--Other reports--Storage vessel notification of inspections.	Y		X	X		X							
63.654(h)(2)(i)(C)	Reporting and Recordkeeping Requirements--Other reports--Storage vessel notification of inspections.	Y		X	X		X							
63.654(h)(2)(ii)	Reporting and Recordkeeping Requirements--Other reports--Storage vessel notification of inspections.	Y		X	X		X							

**IV. Source-Specific Applicable Requirements**

<b>Table IV – F.3 Source-specific Applicable Requirements TANK GROUP APPLICABLE REQUIREMENTS</b>														
Regulation	Description	FE Y/N	101 ABCD	201 AB	202	203 ABC	301 AB	302 ABC	401 ABCD	402 AB	403 (Reserved)	404	501	502
63.654(h)(6)	Reporting and Recordkeeping Requirements--Other reports--Determination of Applicability	Y	B	X	X		X							
63.654(h)(6)(ii)	Reporting and Recordkeeping Requirements--Other reports--Determination of Applicability	Y	B	X	X		X							
63.654(i)(1)	Reporting and Recordkeeping Requirements--Recordkeeping for storage vessels	Y	B	X	X		X							
63.654(i)(1)(i)	Reporting and Recordkeeping Requirements--Recordkeeping for storage vessels	Y	B	X	X		X							
63.654(i)(1)(iv)	Reporting and Recordkeeping Requirements--Recordkeeping for Group 2 storage vessels	Y	B	X	X		X							
63.654(i)(2)	Reporting and Recordkeeping Requirements—Performance test records	Y												
63.654(i)(4)	Reporting and Recordkeeping Requirements—Record retention	Y	B	X	X		X							
<b>40 CFR 61 Subpart FF</b>	<b>NESHAPS – Benzene Waste Operations (12/04/2003)</b>													
61.340	Applicability	Y				C		C	B D	X		X		
61.340(a)	Applicability: Petroleum Refineries	Y				C		C	B D	X		X		
61.340(d)	Exemption: gaseous stream from a waste management unit, treatment process, or wastewater treatment system routed to a fuel gas system are exempt from Subpart FF	Y							B D					
61.342(c)(1)	Standards: General; For 61.342(e) 6BQ facility, treat non-aqueous benzene-containing waste streams in accordance with 61.342(c)(1)(i), 61.342(c)(1)(ii) and 61.342(c)(1)(iii)	Y							B D					
61.342(c)(1)(i)	Standards: General; Remove or destroy benzene in accordance with 61.348	Y							B D					
61.342(c)(1)(ii)	Standards: General; Comply with 61.343 through 61.347 for waste management units that manage wastes prior to and during treatment per 61.342(c)(1)(i)	Y							B D					
61.342(c)(1)(iii)	Standards: General; Comply with 61.343 through 61.347 for waste management units for wastes to be recycled. After recycling, wastes no longer subject to 61.342(c)(1)	Y							B D					
61.342(e)	Standards: General; Compliance option - Treat to 6 or 6BQ Option	Y								X				
61.342(e)(1)	Standards: General; Requirements for Treat to 6 (6BQ) facility; Treat non-aqueous waste (flow-weighted annual average water content of less than 10%) per 61.342(c)(1)	Y							B D					
61.342(e)(2)	Standards: General; Requirements for treating aqueous wastes (greater than 10% water) for compliance with 61.342(e) compliance option;	Y								X				

### IV. Source-Specific Applicable Requirements

<b>Table IV – F.3</b> <b>Source-specific Applicable Requirements</b> <b>TANK GROUP APPLICABLE REQUIREMENTS</b>																							
Regulation	Description	FE	Y/N	101	ABCD	201	AB	202	203	ABC	301	AB	302	ABC	401	ABCD	402	AB	403 (Reserved)	404	501	502	
61.342(e)(2)(i)	Standards: General; [Uncontrolled] 61.342(e)(2) Waste shall not contain more than 6.0 Mg/yr benzene (target benzene quantity (TBQ)).	Y															X						
61.342(e)(2)(ii)	Standards: General; Determine 61.342(e)(2) benzene quantity in each uncontrolled aqueous waste stream per 61.355(k).	Y															X						
61.343	Standards: Tanks	Y													B	D					X		
61.343(a)	Standards: Tanks; Benzene-containing wastes, comply with (a)(1) or (a)(2)	Y													B	D					X		
61.343(a)(1)	The owner or operator shall install, operate, and maintain a fixed-roof and closed-vent system that routes all organic vapors vented from the tank to a control device.	Y													B	D					X		
61.343(a)(1)(i)(A)	Standards: Tanks---No detectable emissions >= 500 ppmv; annual inspection	Y													B	D					X		
61.343(a)(1)(i)(B)	Standards: Tanks; Fixed Roof--No openings	Y													B	D					X		
61.343(a)(1)(ii)	Standards: Tanks; Closed-vent systems and control device are subject to 61.349	Y													B	D					X		
61.343(c)	Standards: Tanks; Fixed roof quarterly inspection	Y													B	D					X		
61.343(d)	Standards: Tanks; Fixed roof repairs	Y													B	D					X		
61.349	Standards: Closed-Vent Systems and Control Devices	Y													B	D					X		
61.349(a)	Standards: Closed-Vent Systems and Control Devices; Applicability	Y													B	D					X		
61.349(a)(1)(i)	Standards: Closed-Vent Systems and Control Devices--Closed vent systems---No detectable emissions >= 500 ppmv; annual inspection	Y																			X		
61.349(a)(1)(ii)(B)	Car-sealed valves on bypass lines in closed-vent system	Y													B	D					X		
61.349(a)(1)(iii)	Gauging/sampling devices are gas-tight	Y													B	D					X		
61.349(a)(1)(iv)	Safety valve provisions	Y													B	D					X		
61.349(a)(2)(ii)	Controlled by vapor recovery: 95% VOC or 98% benzene control	Y																			X		
61.349(b)	Operated at all times.	Y																			X		
61.349(c)(1)	Demonstrate efficiency required in 61.349(a)(2)	Y																			X		
61.349(e)	Standards: Closed-Vent Systems and Control Devices; Control Device Performance Demonstration--Administrator-specified methods	Y																			X		
61.349(f)	Visually inspect for leaks quarterly	Y													B	D					X		

### IV. Source-Specific Applicable Requirements

<b>Table IV – F.3 Source-specific Applicable Requirements TANK GROUP APPLICABLE REQUIREMENTS</b>														
Regulation	Description	FE Y/N	101 ABCD	201 AB	202	203 ABC	301 AB	302 ABC	401 ABCD	402 AB	403 (Reserved)	404	501	502
61.349(g)	Repair leaks: 5 days for first attempt; 15 days for complete repair	Y							B D			X		
61.349(h)	Monitor per 61.354(c)	Y										X		
61.351	Alternative Standards for Tanks	Y				C		C						
61.351(a)(1)	Alternative Standards for Tanks; Internal floating roof meeting requirements of 60.112b(a)(1)	Y						C						
61.351(a)(2)	Alternative Standards for Tanks; External floating roof meeting requirements of 60.112b(a)(2)	Y				C								
61.351(b)	Alternative Standards for Tanks; Tanks subject to 61.351 and exempt from 61.343	Y				C		C						
61.354	Monitoring of Operations	Y							B D			X		
61.354(c)	Monitoring of Operations; Closed-vent systems and control devices--Continuously monitor control device operation	Y							B D			X		
61.354(d)	Monitoring of Operations; Closed-vent systems and control devices--Non-regenerate carbon adsorption system requirements	Y										X		
61.354(f)(1)	Visually inspect carseal/valve positions monthly	Y							B D			X		
61.355	Test methods, procedures, and compliance provisions	Y							B D			X		
61.355(h)	Test methods, procedures, and compliance provisions; NDE inspection (Method 21)	Y							B D			X		
61.355(i)	Test methods, procedures, and compliance provisions; demonstrate compliance of control device with 61.349(a)(2) with performance test	Y										X		
61.356	Recordkeeping Requirements	Y				C		C	B D			X		
61.356(a)	Recordkeeping requirements; records and retention	Y							B D			X		
61.356(f)	Recordkeeping Requirements: Closed vent system and control device – life retention records	Y										X		
61.356(f)(3)	Recordkeeping Requirements: Closed vent system and control device – life retention records – Performance tests	Y										X		
61.356(g)	Recordkeeping requirements; visual inspections for 61.343 through 61.347	Y							B D			X		
61.356(h)	Recordkeeping Requirements: NDE test results	Y							B D			X		
61.356(j)	Recordkeeping Requirements: Closed vent system and control device operating records	Y							B D			X		
61.356(j)(1)	Recordkeeping Requirements: Control device – startup and shutdown dates	Y										X		
61.356(j)(2)	Recordkeeping Requirements: Control device – operating parameter	Y										X		

#### IV. Source-Specific Applicable Requirements

<b>Table IV – F.3</b> <b>Source-specific Applicable Requirements</b> <b>TANK GROUP APPLICABLE REQUIREMENTS</b>														
Regulation	Description	FE Y/N	101 ABCD	201 AB	202	203 ABC	301 AB	302 ABC	401 ABCD	402 AB	403 (Reserved)	404	501	502
61.356(j)(3)	Recordkeeping Requirements: Control device – periods when not operated as designed	Y							B D			X		
61.356(j)(3)(i)	Recordkeeping Requirements: Control device – periods and duration when any valve car-seal required under 61.349(a)(1)(ii) is broken or the bypass line valve position has changed.	Y							B D			X		
61.356(j)(9)	Recordkeeping Requirements: Control device – If a carbon adsorber is used, maintain records from monitoring device of concentration of organics or concentration of benzene in control device outlet gas stream. Other recordkeeping requirements	Y										X		
61.356(j)(10)	Recordkeeping Requirements: Control device – If a carbon adsorber that is not regenerated directly on site in the control device is used, then maintain records of dates and times when the control device is monitored, when breakthrough is measured, and the dates and times of carbon replacement.	Y										X		
61.356(k)	Recordkeeping Requirements: 61.351 control equipment must comply with 60.115b	Y				C		C						
61.357	Reporting Requirements	Y				C		C	B D					
61.357(d)	Reporting Requirements: Required report submittals	Y							B D			X		
61.357(d)(6)	Reporting requirements: Quarterly certification of inspections	Y							B D			X		
61.357(d)(7)	Reporting Requirements: Quarterly reports	Y										X		
61.357(d)(7)(iv)	Reporting Requirements: Quarterly reports; control device information	Y										X		
61.357(d)(7)(iv)(D)	Reporting Requirements: Quarterly reports; control device information – Carbon emission exceedances	Y										X		
61.357(d)(7)(iv)(I)	Reporting Requirements: Quarterly reports; control device information – Carbon not replaced when required	Y										X		
61.357(d)(8)	Reporting Requirements: Annual report – summary of NDE inspections and required repairs	Y							B D			X		
61.357(e)	Reporting Requirements: Notification required for election to comply with 61.351 or 61.352 alternative standards.	Y				C		C						
61.357(f)	Reporting Requirements: 61.351 control equipment must comply with 60.115b	Y				C		C						



## IV. Source-Specific Applicable Requirements

### SECTION G - WASTEWATER SOURCES

**Table IV – G.1  
 Source-Specific Applicable Requirements  
 WASTEWATER COMPONENTS SUBJECT TO BAAQMD 8-8**

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 Collection and Separation Systems (09/15/2004)</b>		
8-8-101	Description, Applicability	N	
8-8-116	Limited Exemption, Oil-water Separation Trenches	N	
8-8-308	Junction Box: Equipped with either a solid, gasketed, fixed cover totally enclosing the junction box or a solid manhole cover. May include openings in covers/vent pipes if total open area does not exceed 12.6 square inches and vent pipes are 3 ft long.	Y	
8-8-312	Controlled Wastewater Collection System Components at Petroleum Refineries	N	
8-8-313	Uncontrolled Wastewater Collection System Components at Petroleum Refineries; comply with 8-8-313.1 or 8-8-313.2 for uncontrolled sources	N	
8-8-313.2	Uncontrolled Wastewater Collection System Components at Petroleum Refineries; Inspection and Maintenance Plan Option	N	
8-8-314	New Wastewater Collection System Components at Petroleum Refineries ; equip new components with water seal or equivalent control	N	
8-8-402	Wastewater Inspection and Maintenance Plans at Petroleum Refineries	N	
8-8-402.1	Wastewater Inspection and Maintenance Plans at Petroleum Refineries : ID all components and submit to BAAQMD	N	
8-8-402.2	Wastewater Inspection and Maintenance Plans at Petroleum Refineries ; complete initial inspection of components	N	
8-8-402.3	Wastewater Inspection and Maintenance Plans at Petroleum Refineries ; implement 8-8-313.2 Inspection and Maintenance Plan	N	
8-8-402.4	Wastewater Inspection and Maintenance Plans at Petroleum Refineries ; semi-annual inspections of controlled equipment	N	
8-8-402.5	Wastewater Inspection and Maintenance Plans at Petroleum Refineries ; keep records per 8-8-505	N	
8-8-502	Wastewater Critical Organic Compound Concentration or Temperature Records	Y	
8-8-504	Portable Hydrocarbon Detector	Y	
8-8-505	Records for Wastewater Collection System Components at Petroleum Refineries	N	
8-8-505.1	Records for Wastewater Collection System Components at Petroleum Refineries	N	

## IV. Source-Specific Applicable Requirements

**Table IV – G.1**  
**Source-Specific Applicable Requirements**  
**WASTEWATER COMPONENTS SUBJECT TO BAAQMD 8-8**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
8-8-505.2	Records for Wastewater Collection System Components at Petroleum Refineries	N	
8-8-505.3	Records for Wastewater Collection System Components at Petroleum Refineries	N	
8-8-505.4	Records for Wastewater Collection System Components at Petroleum Refineries	N	
8-8-601	Wastewater Analysis for Critical Organic Compounds	N	
8-8-603	Inspection Procedures	N	
<b>SIP Regulation 8 Rule 8</b>	<b>Organic Compounds, Wastewater (Oil-Water) Separators (08/29/1994)</b>		
8-8-101	Description, Applicability	Y	
8-8-601	Wastewater Analysis for Critical OCs	Y	
8-8-603	Inspection Procedures	Y	

## IV. Source-Specific Applicable Requirements

**Table IV – G.2**  
**Source-Specific Applicable Requirements**  
**INDIVIDUAL DRAIN SYSTEMS SUBJECT TO 40 CFR 60, SUBPART QQQ**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<b>BAAQMD Regulation 10</b>	<b>Standards of Performance for New Stationary Sources incorporated by reference (02/16/2000)</b>		
10-69	Subpart QQQ - Standards of Performance for VOC Emission From Petroleum Refinery Wastewater Systems	Y	
<b>40 CFR 60 Subpart QQQ</b>	<b>NSPS - Standards of Performance for VOC Emissions From Petroleum Refinery Wastewater Systems (10/17/2000)</b>		
60.690	Applicability and designation of affected facility	Y	
60.690(a)(1)	Affected facilities located in petroleum refineries; construction, modification, or reconstruction commenced after May 4, 1987	Y	
60.690(a)(2)	An individual drain system is a separate affected facility [all process drains connected to the first common downstream junction box. The term includes all such drains and common junction box, together with their associated sewer lines and other junction boxes, down to the receiving oil-water separator]	Y	
60.690(a)(4)	An aggregate facility is a separate affected facility [individual drain system together with ancillary downstream sewer lines and oil-water separators, down to and including the secondary oil-water separator, as applicable]	Y	
60.691	Definitions	Y	
60.692-1	Standards: General	Y	
60.692-1(a)	Standards: General; Comply except during periods of startup, shutdown, or malfunction	Y	
60.692-1(b)	Standards: General; Determination of compliance	Y	
60.692-1(c)	Standards: General; Alternative means of compliance	Y	
60.692-1(d)	Standards: General; Exemptions	Y	
60.692-2	Standards: Individual drain systems	Y	
60.692-2(a)(1)	Standards: Individual drain systems; equip each drain with water seal	Y	
60.692-2(a)(2)	Standards: Individual drain systems; Drains in active service - Monthly visual or physical inspections for low water level or other problem	Y	
60.692-2(a)(3)	Standards: Individual drain systems; Drains out of active service - Weekly visual or physical inspections for low water level or other problem	Y	
60.692-2(a)(4)	Standards: Individual drain systems; Drains out of active service – Alternative to weekly inspection – tightly sealed cap or plug with semiannual inspections	Y	
60.692-2(a)(5)	Standards: Individual drain systems; Repair – first attempt within 24 hours of detection unless delay of repair (60.692-6)	Y	
60.692-2(b)(1)	Standards: Individual drain systems; Junction box requirements – vent pipes	Y	
60.692-2(b)(2)	Standards: Individual drain systems; Junction box requirements – sealed covers	Y	

## IV. Source-Specific Applicable Requirements

**Table IV – G.2**  
**Source-Specific Applicable Requirements**  
**INDIVIDUAL DRAIN SYSTEMS SUBJECT TO 40 CFR 60, SUBPART QQQ**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
60.692-2(b)(3)	Standards: Individual drain systems; Junction box requirements – sealed covers - semiannual visual inspections	Y	
60.692-2(b)(4)	Standards: Individual drain systems; Junction box requirements – Repairs – first attempt within 15 calendar days after detection except delay of repair (60.692-6)	Y	
60.692-2(c)(1)	Standards: Individual drain systems; Sewer line requirements – no visual gaps or cracks	Y	
60.692-2(c)(2)	Standards: Individual drain systems; Sewer line requirements – semiannual inspections of unburied sewer lines	Y	
60.692-2(c)(3)	Standards: Individual drain systems; Sewer line requirements – Repairs – first attempt within 15 calendar days after detection except delay of repair (60.692-6)	Y	
60.692-2(d)	Standards: Individual drain systems; Exemption for systems with catch basins installed prior to May 4, 1987	Y	
60.692-2(e)	Standards: Individual drain systems; Refinery wastewater routed through new process drains and a new first common downstream junction box as part of new or existing individual drain system, shall not be routed through a downstream catch basin.	Y	
60.692-4	Standards: Aggregate facility	Y	
60.692-6	Standards: Delay of repair	Y	
60.692-6(a)	Standards: Delay of repair; Allowances for delay or repair	Y	
60.692-6(b)	Standards: Delay of repair; Complete repairs before end of next refinery or process unit shutdown	Y	
60.697	Recordkeeping requirements	Y	
60.697(a)	Recordkeeping requirements; retention	Y	
60.697(b)(1)	Recordkeeping requirements; individual drain systems – records of corrective actions when inspections detect dry water seals or other problems	Y	
60.697(b)(2)	Recordkeeping requirements; junction boxes – records of corrective actions when inspections detect problems	Y	
60.697(b)(3)	Recordkeeping requirements; sewer lines – records of corrective actions when inspections detect r problems	Y	
60.697(e)(1)	Recordkeeping requirements; delay of repair - expected date of repair	Y	
60.697(e)(2)	Recordkeeping requirements; delay of repair – reason for delay	Y	
60.697(e)(3)	Recordkeeping requirements; delay of repair – signature of delay of repair decision maker [owner/operator/designee]	Y	
60.697(e)(4)	Recordkeeping requirements; delay of repair - actual date of repair	Y	
60.697(f)(1)	Recordkeeping requirements; design specifications – retain for life of equipment	Y	
60.697(f)(2)	Recordkeeping requirements; design specifications – information required	Y	

## IV. Source-Specific Applicable Requirements

**Table IV – G.2**  
**Source-Specific Applicable Requirements**  
**INDIVIDUAL DRAIN SYSTEMS SUBJECT TO 40 CFR 60, SUBPART QQQ**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
60.697(g)	Recordkeeping requirements; plans showing location of drains with caps and plugs – retain for life of facility	Y	
60.697(h)	Recordkeeping Requirements for exemptions	Y	
60.697(i)	Recordkeeping Requirements for exemptions	Y	
60.697(j)	Recordkeeping Requirements for exemptions	Y	
60.698	Reporting requirements	Y	
60.698(b)(1)	Reporting requirements; semiannual certification of required inspections	Y	
60.698(c)	Reporting requirements; semiannual summary of all inspections that detected dry water seals, missing or incorrectly installed drain cap or plug, or other problems including repairs and corrective actions	Y	
<b>40 CFR 61 Subpart FF</b>	<b>NESHAPS - Benzene Waste Operations (12/04/2003) Requirements for uncontrolled 6BQ wastestream [61.342(e)(2)]</b>		
61.340(a)	Applicability: Chemical Manufacturing, Coke by-product recovery, petroleum refineries	Y	
61.342(e)	Standards: General; Requirements for Treat to 6 (6BQ) facility	Y	
61.342(e)(2)	Standards: General; Requirements for treating aqueous wastes (greater than 10% water) for compliance with 61.342(e) compliance option;	Y	
61.342(e)(2)(i)	Standards: General; [Uncontrolled] 61.342(e)(2) Waste shall not contain more than 6.0 Mg/yr benzene (target benzene quantity (TBQ)).	Y	
61.342(e)(2)(ii)	Standards: General; Determine 61.342(e)(2) benzene quantity in each uncontrolled aqueous waste stream per 61.355(k).	Y	
61.346	Standards: Individual drain systems	Y	
61.346(b)	Standards: Alternate compliance for individual drain systems	Y	
61.346(b)(3)	Standards: Alternate compliance for individual drain systems; Unburied Sewer Design	Y	
61.346(b)(4)(iv)	Standards: Alternate compliance for individual drain systems; Unburied Sewer Quarterly Visual Inspection	Y	
61.346(b)(5)	Standards: Alternate compliance for individual drain systems; Unburied Sewer Repair	Y	
<b>40 CFR 63 Subpart CC</b>	<b>NESHAPS for Source Categories - Petroleum Refineries (06/23/2003) Requirements for Group 2 wastewater streams</b>		
63.640(a)	Applicability	Y	
63.640(c)(3)	Applicability – wastewater source	Y	
63.640(o)(1)	Group 2 Wastewater stream to comply with the provisions of 40 CFR part 60, subpart QQQ.	Y	
63.641	Definitions	Y	

## IV. Source-Specific Applicable Requirements

**Table IV – G.3**  
**Source-specific Applicable Requirements**  
**S513 – Tank A-513**  
**Wastewater Sludge Tank –Abated by A14 Vapor Recovery**

<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 8</b>	<b>Organic Compounds – Wastewater Collection and Separation Systems (09/15/2004)</b>		
8-8-101	Description, Applicability	N	
8-8-303	Gauging and Sampling Devices	Y	
8-8-304	Sludge-dewatering Unit – 95% control requirement	N	
8-8-504	Portable Hydrocarbon Detector	Y	
8-8-602	Determination of Emission	N	
8-8-603	Inspection Procedures	N	
<b>SIP Regulation 8 Rule 8</b>	<b>Organic Compounds – Wastewater (Oil-Water) Separators (08/29/1994)</b>		
8-8-101	Description, Applicability	Y	
8-8-304	Sludge-dewatering Unit – 95% control requirement	Y	
8-8-602	Determination of Emission	Y	
8-8-603	Inspection Procedures	Y	
<b>BAAQMD Regulation 10</b>	<b>Standards of Performance for New Stationary Sources incorporated by reference (02/16/2000)</b>		
10-17	Subpart Kb – Standards of Performance for Storage Vessels for Petroleum Liquids for which Construction, Reconstruction, or Modification Commence After May 18, 1978, and Prior to July 23, 1984	Y	
<b>BAAQMD Regulation 11 Rule 12</b>	<b>Hazardous Pollutants - National Emission Standard for Benzene Emissions From Benzene Transfer Operations and Benzene Waste Operations (Adopted 07/18/1990; Subpart FF last amended 01/05/1994)</b>	Y	
<b>40 CFR 60 Subpart Kb</b>	<b>NSPS – Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction or Modification Commenced After July 23, 1984. (10/15/2003)</b> <b>Requirements For Fixed Roof Tanks</b>		
60.110b(a)	Applicability and designation of affected facility; applicable storage vessels	Y	
60.112b	Standard for VOC	Y	
60.112b(a)	Standard for VOC; storage vessel equipment requirements	Y	
60.112b(a)(3)	Standard for VOC; storage vessel equipment requirements; closed vent system and control device	Y	

## IV. Source-Specific Applicable Requirements

**Table IV – G.3**  
**Source-specific Applicable Requirements**  
**S513 – Tank A-513**  
**Wastewater Sludge Tank –Abated by A14 Vapor Recovery**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
60.112b (a)(3)(i)	Standard for VOC; storage vessel equipment requirements; closed vent system and control device; closed vent system – no detectable emissions [< 500 ppm by Method 21]	Y	
60.112b (a)(3) (ii)	Standard for VOC; storage vessel equipment requirements; closed vent system and control device; control device with 95% abatement efficiency	Y	
60.113b	Testing and procedures	Y	
60.113b(c)	Testing and procedures; closed vent system and control device (other than a flare) – exempt from 60.8; requirements	Y	
60.113b(c)(1)	Testing and procedures; closed vent system and control device; operating plan submittal	Y	
60.113b (c)(1)(i)	Testing and procedures; closed vent system and control device; operating plan contents – meet requirements for enclosed combustion device	Y	
60.113b (c)(1) (ii)	Testing and procedures; closed vent system and control device; operating plan contents	Y	
60.115b	Reporting and recordkeeping requirements	Y	
60.115b(c)	Reporting and recordkeeping requirements; closed vent system and control device (other than a flare)	Y	
60.115b(c)(1)	Reporting and recordkeeping requirements; closed vent system and control device (other than a flare), copy of operating plan	Y	
60.116b	Monitoring of operations	Y	
60.116b(a)	Monitoring of operations; record retention	Y	
60.116b(b)	Monitoring of operations; permanent record requirements	Y	
60.116b(g)	Monitoring of operations; Vessel equipped with closed vent system and control device is exempt from 60.116b(c) and (d)	Y	
<b>40 CFR 61 Subpart FF</b>	<b>NESHAPS - Benzene Waste Operations (12/04/2003) Requirements for controlled 6BQ wastestream [61.342(e)(1)]</b>		
61.340(a)	Applicability	Y	
61.340(d)	Exemption: gaseous stream from a waste management unit, treatment process, or wastewater treatment system routed to a fuel gas system are exempt from Subpart FF	Y	
61.342(c)(1)	Standards: General; For 61.342(e) 6BQ facility, treat non-aqueous benzene-containing waste streams in accordance with 61.342(c)(1)(i), 61.342(c)(1)(ii) and 61.342(c)(1)(iii)	Y	
61.342(c)(1)(i)	Standards: General; Remove or destroy benzene in accordance with 61.348	Y	
61.342(c)(1)(ii)	Standards: General; Comply with 61.343 through 61.347 for waste management units that manage wastes prior to and during treatment per 61.342(c)(1)(i)	Y	

## IV. Source-Specific Applicable Requirements

**Table IV – G.3**  
**Source-specific Applicable Requirements**  
**S513 – Tank A-513**  
**Wastewater Sludge Tank –Abated by A14 Vapor Recovery**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
61.342(c)(1) (iii)	Standards: General; Comply with 61.343 through 61.347 for waste management units for wastes to be recycled. After recycling, wastes no longer subject to 61.342(c)(1)	Y	
61.342(e)	Standards: General; Requirements for Treat to 6 (6BQ) facility	Y	
61.342(e)(1)	Standards: General; Requirements for Treat to 6 (6BQ) facility; Treat non-aqueous waste (flow-weighted annual average water content of less than 10%) per 61.342(c)(1)	Y	
61.343	Standards: Tanks	Y	
61.343(a)	Standards: Tanks; Benzene-containing wastes, comply with (a)(1) or (a)(2)	Y	
61.343(a)(1)	The owner or operator shall install, operate, and maintain a fixed-roof and closed-vent system that routes all organic vapors vented from the tank to a control device.	Y	
61.343 (a)(1)(i)(A)	Standards: Tanks---No detectable emissions >= 500 ppmv; annual inspection	Y	
61.343 (a)(1)(i)(B)	Standards: Tanks; Fixed Roof--No openings	Y	
61.343 (a)(1)(ii)	Standards: Tanks; Closed-vent systems and control device are subject to 61.349	Y	
61.343(c)	Standards: Tanks; Fixed roof quarterly inspection	Y	
61.343(d)	Standards: Tanks; Fixed roof repairs	Y	
61.349	Standards: Closed vent systems and control devices	Y	
61.349(a)	Standards: Closed vent systems and control devices	Y	
61.349 (a)(1)(ii)	Standards: Closed vent systems and control devices; closed vent system requirements – bypass line requirements	Y	
61.349 (a)(1)(ii)(A)	Standards: Closed vent systems and control devices; closed vent system requirements – bypass line requirements; OPTION: flow indicator	Y	
61.349 (a)(1)(ii)(B)	Standards: Closed vent systems and control devices; closed vent system requirements – bypass line requirements; OPTION: car-seal or lock and key	Y	
61.349 (a)(1) (iii)	Standards: Closed vent systems and control devices; closed vent system requirements - gauging and sampling devices gas-tight	Y	
61.349 (a)(1) (iv)	Standards: Closed vent systems and control devices; closed vent system requirements - atmospheric vents	Y	
61.349(f)	Standards: Closed vent systems and control devices; quarterly visual inspections	Y	
61.349(g)	Standards: Closed vent systems and control devices; repairs and delay of repair	Y	
61.350	Standards: Delay of repair	Y	



## IV. Source-Specific Applicable Requirements

**Table IV – G.3**  
**Source-specific Applicable Requirements**  
**S513 – Tank A-513**  
**Wastewater Sludge Tank –Abated by A14 Vapor Recovery**

<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(a)	Standards: Delay of Repair: Allowed if technically impossible without complete or partial facility or unit shutdown.	Y	
61.350(b)	Standards: Delay of Repair: Repair shall occur before the end of the next facility or unit shutdown	Y	
61.354	Monitoring of Operations	Y	
61.354(f)	Monitoring of operations; closed-vent system with bypass line	Y	
61.354(f)(1)	Monitoring of operations; closed-vent system with bypass line – monthly inspections if car-seal OPTION used	Y	
61.354(f)(2)	Monitoring of operations; closed-vent system with bypass line – daily inspections if flow indicator OPTION is used	Y	
61.355	Test methods, procedures, and compliance provisions	Y	
61.355(h)	Test methods, procedures, and compliance provisions; NDE inspection (Method 21)	Y	
61.356	Recordkeeping Requirements	Y	
61.356(a)	Recordkeeping requirements; records and retention	Y	
61.356(g)	Recordkeeping requirements; visual inspections for 61.343 through 61.347	Y	
61.356(h)	Recordkeeping Requirements: NDE test results	Y	
61.356(j)	Recordkeeping Requirements: Control device	Y	
61.356(j)(3)	Recordkeeping requirements; closed vent system and control device operating records – periods when not operating as designed	Y	
61.356(j)(3)(i)	Recordkeeping requirements; closed vent system and control device operating records – periods when not operating as designed – defects if car-seal OPTION is used	Y	
61.356(j)(3)(ii)	Recordkeeping requirements; closed vent system and control device operating records – periods when not operating as designed – defects if flow indicator OPTION is used	Y	
61.357	Reporting Requirements	Y	
61.357(d)(6)	Reporting requirements: Quarterly certification of inspections	Y	
61.357(d)(8)	Reporting Requirements: Annual report – summary of NDE inspections and required repairs	Y	
<b>40 CFR 63 Subpart CC</b>	<b>NESHAPS for Source Categories - Petroleum Refineries (06/23/2003) Requirements for Group 2 wastewater streams</b>		
63.640(a)	Applicability	Y	
63.640(c)(3)	Applicability – wastewater source	Y	
63.640(d)	Applicability and Designation of Affected Sources: Exclusions	Y	

## IV. Source-Specific Applicable Requirements

**Table IV – G.3**  
**Source-specific Applicable Requirements**  
**S513 – Tank A-513**  
**Wastewater Sludge Tank –Abated by A14 Vapor Recovery**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
63.640(d)(5)	The affected source subject to this subpart does not include emission points routed to a fuel gas system. No testing, monitoring, recordkeeping, or reporting is required for refinery fuel gas systems or emission points routed to refinery fuel gas systems.	Y	
63.641	Definitions	Y	
63.647	Wastewater provisions	Y	
63.647(a)	Wastewater provisions; Group 1 WW streams comply with 61.340 through 61.355 in 40 CFR 61 Subpart FF	Y	
63.647(b)	Wastewater provisions; Definitions	Y	
63.647(c)	Wastewater provisions; Operation consistent with minimum or maximum permitted concentrations or operating parameter values	Y	
63.654	Reporting and recordkeeping requirements	Y	
63.654(a)	Reporting and recordkeeping requirements; Group 1 WW streams comply with 61.356 and 61.357 in 40 CFR 61 Subpart FF	Y	
63.654(i)(4)	Reporting and recordkeeping requirements; Retention	Y	
<b>BAAQMD Condition 21053</b>			
Part 6	Monitoring requirements for control device (basis: 60.113b(c)(2))	Y	
Part 7	40 # fuel gas system destruction efficiency source test every 5 years in the year prior to 5-year Title V renewal (S-908, S-909, S-912 only)	Y	

## IV. Source-Specific Applicable Requirements

**Table IV – G.4**  
**Source-specific Applicable Requirements**  
**S532-OIL WATER SEPARATOR; TANK T-532 - 50 UNIT DESALTER SKIM TANK**  
**S1484-OIL WATER SEPARATOR – 50 UNIT DESALTER OWS**  
**ABATED BY A14 VAPOR RECOVERY**

<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 8</b>	<b>Organic Compounds – Wastewater Collection and Separation Systems (09/15/2004)</b>		
8-8-101	Description, Applicability	N	
8-8-301	Wastewater separators rated capacity greater than 760 Liters per Day and Smaller than 18.9 liters per seconds (300 gal/min), must be equipped with one of the following:	Y	
8-8-301.3	An organic compound vapor recovery system with a combined collection and destruction efficiency of at least 95% by weight	N	
8-8-303	Gauging and Sampling Devices	Y	
8-8-503	Inspection and Repair Records	Y	
8-8-504	Portable Hydrocarbon Detector	Y	
8-8-601	Wastewater Analysis for Critical Organic Compounds	N	
8-8-602	Determination of Emissions	N	
8-8-603	Inspection Procedures	N	
<b>SIP Regulation 8 Rule 8</b>	<b>Organic Compounds – Wastewater (Oil-Water) Separators (08/29/1994)</b>		
8-8-101	Description, Applicability	Y	
8-8-301.3	An organic compound vapor recovery system with a combined collection and destruction efficiency of at least 95% by weight	Y	
8-8-601	Wastewater Analysis for Critical Organic Compounds	Y	
8-8-602	Determination of Emissions	Y	
8-8-603	Inspection Procedures	Y	
<b>BAAQMD Regulation 11 Rule 12</b>	<b>Hazardous Pollutants - National Emission Standard for Benzene Emissions From Benzene Transfer Operations and Benzene Waste Operations (Adopted 07/18/1990; Subpart FF last amended 01/05/1995)</b>	Y	
<b>40 CFR 61 Subpart FF</b>	<b>NESHAPS - Benzene Waste Operations (12/04/2003) Requirements for controlled 6BQ wastestream [61.342(e)(1)]</b>		
61.340(a)	Applicability: Chemical Manufacturing, Coke by-product recovery, petroleum refineries	Y	
61.340(d)	Exemption: Any gaseous stream from a waste management unit, treatment process, or wastewater treatment system routed to a fuel gas system, as defined in §61.341, is exempt from this subpart	Y	
61.342(e)	Standards: General; Requirements for Treat to 6 (6BQ) facility	Y	

## IV. Source-Specific Applicable Requirements

**Table IV – G.4**  
**Source-specific Applicable Requirements**  
**S532-OIL WATER SEPARATOR; TANK T-532 - 50 UNIT DESALTER SKIM TANK**  
**S1484-OIL WATER SEPARATOR – 50 UNIT DESALTER OWS**  
**ABATED BY A14 VAPOR RECOVERY**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
61.342(e)(2)	Standards: General; Requirements for treating aqueous wastes (greater than 10% water) for compliance with 61.342(e) compliance option;	Y	
61.342(e)(2)(i)	Standards: General; [Uncontrolled] 61.342(e)(2) Waste shall not contain more than 6.0 Mg/yr benzene (target benzene quantity (TBQ)).	Y	
61.342(e)(2)(ii)	Standards: General; Determine 61.342(e)(2) benzene quantity in each uncontrolled aqueous waste stream per 61.355(k).	Y	
61.347	Standards: Oil-Water Separators	Y	
61.347(a)	Standards: Oil-Water Separators	Y	
61.347(a)(1)	Standards: Oil-Water Separators; fixed roof and closed-vent system vented to control device	Y	
61.347(a)(1)(i)	Standards: Oil-Water Separators; fixed roof requirements	Y	
61.347(a)(1)(i)(A)	Standards: Oil-Water Separators; fixed roof requirements – no detectable emissions	Y	
61.347(a)(1)(i)(B)	Standards: Oil-Water Separators; fixed roof requirements – openings closed and sealed when not in use	Y	
61.347(a)(1)(ii)	Standards: Closed vent system and control device designed and operated in accordance with 61.349.	Y	
61.347(b)	Standards: Oil-Water Separators; quarterly visual inspections	Y	
61.347(c)	Standards: Oil-Water Separators; repairs and delay of repair	Y	
61.349	Standards: Closed vent systems and control devices	Y	
61.349(a)	Standards: Closed vent systems and control devices	Y	
61.349(a)(1)	Standards: Closed vent systems and control devices; closed vent system requirements	Y	
61.349(a)(1)(ii)	Standards: Closed vent systems and control devices; closed vent system requirements – bypass line requirements	Y	
61.349(a)(1)(ii)(A)	Standards: Closed vent systems and control devices; closed vent system requirements – bypass line requirements; OPTION: flow indicator	Y	
61.349(a)(1)(ii)(B)	Standards: Closed vent systems and control devices; closed vent system requirements – bypass line requirements; OPTION: car-seal or lock and key	Y	
61.349(a)(1)(iii)	Standards: Closed vent systems and control devices; closed vent system requirements - gauging and sampling devices gas-tight	Y	
61.349(a)(1)(iv)	Standards: Closed vent systems and control devices; closed vent system requirements - atmospheric vents	Y	
61.350	Standards: Delay of repair	Y	
61.350(a)	Standards: Delay of Repair: Allowed if technically impossible without complete or partial facility or unit shutdown.	Y	

## IV. Source-Specific Applicable Requirements

**Table IV – G.4**  
**Source-specific Applicable Requirements**  
**S532-OIL WATER SEPARATOR; TANK T-532 - 50 UNIT DESALTER SKIM TANK**  
**S1484-OIL WATER SEPARATOR – 50 UNIT DESALTER OWS**  
**ABATED BY A14 VAPOR RECOVERY**

<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(b)	Standards: Delay of Repair: Repair shall occur before the end of the next facility or unit shutdown	Y	
61.354	Monitoring of operations	Y	
61.354(f)	Monitoring of operations; closed-vent system with bypass line	Y	
61.354(f)(1)	Monitoring of operations; closed-vent system with bypass line – monthly inspections if car-seal OPTION used	Y	
61.354(f)(2)	Monitoring of operations; closed-vent system with bypass line – daily inspections if flow indicator OPTION is used	Y	
61.355	Test methods, procedures, and compliance provisions	Y	
61.355(h)	Test methods, procedures, and compliance provisions – no detectable emissions tests	Y	
61.355(k)	Test Methods, Procedures, and Compliance Provisions: Treat to 6 Determination of TBQ (total benzene quantity) required by 61.342(e)(2)	Y	
61.355(k)(2)	Test Methods, Procedures, and Compliance Provisions: Treat to 6 Determination of TBQ; determine benzene quantity in controlled waste streams	Y	
61.355(k)(2)(i)	Test Methods, Procedures, and Compliance Provisions: Treat to 6 Determination of TBQ; determine benzene quantity in controlled waste streams: OPTION 1: Make determination where the waste stream enters the first uncontrolled waste management unit	Y	
61.356	Recordkeeping requirements	Y	
61.356(a)	Recordkeeping requirements; records and retention	Y	
61.356(g)	Recordkeeping requirements; visual inspections for 61.343 through 61.347	Y	
61.356(h)	Recordkeeping requirements; no detectable emissions tests	Y	
61.356(j)	Recordkeeping requirements; closed vent system and control device operating records	Y	
61.356(j)(3)	Recordkeeping requirements; closed vent system and control device operating records – periods when not operating as designed	Y	
61.356(j)(3)(i)	Recordkeeping requirements; closed vent system and control device operating records – periods when not operating as designed – defects if car-seal OPTION is used	Y	
61.356(j)(3)(ii)	Recordkeeping requirements; closed vent system and control device operating records – periods when not operating as designed – defects if flow indicator OPTION is used	Y	
61.357	Reporting requirements	Y	
61.357(d)	Reporting requirements; facilities with TAB > 10 Mg	Y	

## IV. Source-Specific Applicable Requirements

**Table IV – G.4**  
**Source-specific Applicable Requirements**  
**S532-OIL WATER SEPARATOR; TANK T-532 - 50 UNIT DESALTER SKIM TANK**  
**S1484-OIL WATER SEPARATOR – 50 UNIT DESALTER OWS**  
**ABATED BY A14 VAPOR RECOVERY**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
61.357(d)(6)	Reporting requirements; facilities with TAB > 10 Mg; quarterly certification of inspections	Y	
61.357(d)(8)	Reporting requirements; facilities with TAB > 10 Mg; annual summary of inspections	Y	
<b>40 CFR 63 Subpart CC</b>	<b>NESHAPS for Source Categories - Petroleum Refineries (06/23/2003) Requirements for Group 1 wastewater streams</b>		
63.640(a)	Applicability	Y	
63.640(c)(3)	Applicability – wastewater sources	Y	
63.640(d)	Applicability and Designation of Affected Sources: Exclusions	Y	
63.640(d)(5)	The affected source subject to this subpart does not include emission points routed to a fuel gas system. No testing, monitoring, recordkeeping, or reporting is required for refinery fuel gas systems or emission points routed to refinery fuel gas systems.	Y	
63.641	Definitions	Y	
63.647	Wastewater provisions	Y	
63.647(a)	Wastewater provisions; Group 1 WW streams comply with 61.340 through 61.355 in 40 CFR 61 Subpart FF	Y	
63.647(b)	Wastewater provisions; Definitions	Y	
63.647(c)	Wastewater provisions; Operation consistent with minimum or maximum permitted concentrations or operating parameter values	Y	
63.654	Reporting and recordkeeping requirements	Y	
63.654(a)	Reporting and recordkeeping requirements; Group 1 WW streams comply with 61.356 and 61.357 in 40 CFR 61 Subpart FF	Y	
63.654(i)(4)	Reporting and recordkeeping requirements; Retention	Y	
<b>BAAQMD Condition 19762</b>	(applies to S1484 only)		
Part B1	Throughput limit (basis: cumulative increase, toxics, BACT, offsets)	Y	
Part B2	Vapor tight (basis: Regulation 8-8, cumulative increase, toxics, offsets, BACT)	Y	
Part B3	Abatement at all times (basis: BACT, Regulation 8-8, cumulative increase, toxics, offsets)	Y	
Part B4	Recordkeeping of throughput (basis: cumulative increase, toxics, offsets)	Y	
<b>BAAQMD Condition 20099</b>	(applies to S532 only)		

## IV. Source-Specific Applicable Requirements

**Table IV – G.4**  
**Source-specific Applicable Requirements**  
**S532-OIL WATER SEPARATOR; TANK T-532 - 50 UNIT DESALTER SKIM TANK**  
**S1484-OIL WATER SEPARATOR – 50 UNIT DESALTER OWS**  
**ABATED BY A14 VAPOR RECOVERY**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
Part 1	Throughput limit (basis: cumulative increase, toxics, BACT, offsets)	Y	
Part 3	Abatement at all times (basis: BACT, Regulation 8-8, cumulative increase, toxics, offsets)	Y	
Part 4	Destruction efficiency of 98% (basis: BACT)	Y	
Part 5	Startup source test requirement (basis: BACT)	Y	
Part 6	Periodic source test requirement (basis: Cumulative Increase, Toxic Risk Screen, Offsets, Regulation 1-238)	Y	
Part 7	Preventative maintenance conditions (basis: BACT)	Y	
Part 8	Monitoring and recordkeeping of throughput (basis: cumulative increase, toxics, offsets)	Y	
Part 9	Recordkeeping when abatement is not used (basis: cumulative increase, toxics, offsets)	Y	

## IV. Source-Specific Applicable Requirements

**Table IV – G.5**  
**Source-specific Applicable Requirements**  
**S606-50 UNIT WASTEWATER AIR STRIPPER A**  
**S607-50 UNIT WASTEWATER AIR STRIPPER B**  
**ABATED BY S950**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<b>BAAQMD Regulation 8, Rule 2</b>	<b>Miscellaneous Operations (7/20/2005)</b>		
8-2-101	Description, Applicability	Y	
8-2-301	Miscellaneous Operations	Y	
8-2-601	Determination of Compliance	Y	
<b>BAAQMD Regulation 11 Rule 12</b>	<b>Hazardous Pollutants - National Emission Standard for Benzene Emissions From Benzene Transfer Operations and Benzene Waste Operations (Adopted 07/18/1990; Subpart FF last amended 01/05/1995)</b>	Y	
<b>40 CFR 61 Subpart FF</b>	<b>NESHAPS - Benzene Waste Operations (12/04/2003) Requirements for Group 1 wastewater streams</b>		
61.340(a)	Applicability	Y	
61.342(e)	Standards: General; Requirements for Treat to 6 (6BQ) facility	Y	
61.342(e)(2)	Standards: General; Requirements for treating aqueous wastes (greater than 10% water) for compliance with 61.342(e) compliance option;	Y	
61.342(e)(2)(i)	Standards: General; [Uncontrolled] 61.342(e)(2) Waste shall not contain more than 6.0 Mg/yr benzene (target benzene quantity (TBQ)).	Y	
61.342(e)(2)(ii)	Standards: General; Determine 61.342(e)(2) benzene quantity in each uncontrolled aqueous waste stream per 61.355(k).	Y	
61.348	Standards: Treatment processes	Y	
61.349	Standards: Closed vent systems and control devices	Y	
61.349(a)	Standards: Closed vent systems and control devices	Y	
61.349(a)(1)	Standards: Closed vent systems and control devices; closed vent system requirements	Y	
61.349(a)(1)(i)	Standards: Closed vent systems and control devices; closed vent system requirements – no detectable emissions	Y	
61.349(a)(1)(ii)	Standards: Closed vent systems and control devices; closed vent system requirements – bypass line requirements	Y	
61.349(a)(1)(ii)(A)	Standards: Closed vent systems and control devices; closed vent system requirements – bypass line requirements; OPTION: flow indicator	Y	
61.349(a)(1)(ii)(B)	Standards: Closed vent systems and control devices; closed vent system requirements – bypass line requirements; OPTION: car-seal or lock and key	Y	
61.349(a)(1)(iii)	Standards: Closed vent systems and control devices; closed vent system requirements - gauging and sampling devices gas-tight	Y	



## IV. Source-Specific Applicable Requirements

**Table IV – G.5**  
**Source-specific Applicable Requirements**  
**S606-50 UNIT WASTEWATER AIR STRIPPER A**  
**S607-50 UNIT WASTEWATER AIR STRIPPER B**  
**ABATED BY S950**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
61.349 (a)(1)(iv)	Standards: Closed vent systems and control devices; closed vent system requirements - atmospheric vents	Y	
61.349(b)	Standards: Closed vent systems and control devices; operate at all times	Y	
61.349(f)	Standards: Closed vent systems and control devices – quarterly visual inspections	Y	
61.349(g)	Standards: Closed vent systems and control devices – repair and delay of repair	Y	
61.350	Standards: Delay of repair	Y	
61.350(a)	Standards: Delay of Repair: Allowed if technically impossible without complete or partial facility or unit shutdown.	Y	
61.350(b)	Standards: Delay of Repair: Repair shall occur before the end of the next facility or unit shutdown	Y	
61.354	Monitoring of operations	Y	
61.354(f)	Monitoring of operations; closed-vent system with bypass line	Y	
61.354(f)(1)	Monitoring of operations; closed-vent system with bypass line – monthly inspections if car-seal OPTION used	Y	
61.354(f)(2)	Monitoring of operations; closed-vent system with bypass line – daily inspections if flow indicator OPTION is used	Y	
61.355	Test methods, procedures, and compliance provisions	Y	
61.355(h)	Test methods, procedures, and compliance provisions – no detectable emissions tests	Y	
61.355(k)	Test Methods, Procedures, and Compliance Provisions: Treat to 6 Determination of TBQ (total benzene quantity) required by 61.342(e)(2)	Y	
61.355(k)(2)	Test Methods, Procedures, and Compliance Provisions: Treat to 6 Determination of TBQ; determine benzene quantity in controlled waste streams	Y	
61.355(k)(2)(i)	Test Methods, Procedures, and Compliance Provisions: Treat to 6 Determination of TBQ; determine benzene quantity in controlled waste streams: OPTION 1: Make determination where the waste stream enters the first uncontrolled waste management unit	Y	
61.356	Recordkeeping requirements	Y	
61.356(a)	Recordkeeping requirements; records and retention	Y	
61.356(h)	Recordkeeping requirements; no detectable emissions tests	Y	
61.356(i)	Recordkeeping requirements; treatment process operating records	Y	
61.356(j)	Recordkeeping requirements; closed vent system and control device operating records	Y	

## IV. Source-Specific Applicable Requirements

**Table IV – G.5**  
**Source-specific Applicable Requirements**  
**S606-50 UNIT WASTEWATER AIR STRIPPER A**  
**S607-50 UNIT WASTEWATER AIR STRIPPER B**  
**ABATED BY S950**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
61.356(j)(3)	Recordkeeping requirements; closed vent system and control device operating records – periods when not operating as designed	Y	
61.356(j)(3)(i)	Recordkeeping requirements; closed vent system and control device operating records – periods when not operating as designed – defects if car-seal OPTION is used	Y	
61.356(j)(3)(ii)	Recordkeeping requirements; closed vent system and control device operating records – periods when not operating as designed – defects if flow indicator OPTION is used	Y	
61.357	Reporting requirements	Y	
61.357(d)	Reporting requirements; facilities with TAB > 10 Mg	Y	
61.357(d)(6)	Reporting requirements; facilities with TAB > 10 Mg; quarterly certification of inspections	Y	
61.357(d)(8)	Reporting requirements; facilities with TAB > 10 Mg; annual summary of inspections	Y	
<b>40 CFR 63 Subpart CC</b>	<b>NESHAPS for Source Categories - Petroleum Refineries (06/23/2003) Requirements for Group 1 wastewater streams</b>		
63.640(a)	Applicability	Y	
63.640(c)(3)	Applicability – wastewater sources associated with petroleum refining process units	Y	
63.641	Definitions	Y	
63.647(a)	Wastewater provisions; Group 1 WW streams comply with 61.340 through 61.355 in 40 CFR 61 Subpart FF	Y	
63.647(b)	Wastewater provisions; Definitions	Y	
63.647(c)	Wastewater provisions; Operation consistent with minimum or maximum permitted concentrations or operating parameter values	Y	
63.654(a)	Reporting and recordkeeping requirements; Group 1 WW streams comply with 61.356 and 61.357 in 40 CFR 61 Subpart FF	Y	
63.654(i)(4)	Reporting and recordkeeping requirements; Retention	Y	
<b>BAAQMD Condition 7410</b>			
Part 1	Requirement for Abatement (basis: cumulative increase, toxics)	Y	
Part 2	Stripped Gas Throughput Limit (basis: toxics)	Y	
Part 3	S950 Non-methane Hydrocarbon Emission Limit and Averaging Time (basis: cumulative increase)	Y	
Part 4	S950 Hydrogen Sulfide Emission Limit and Averaging Time (basis: toxics)	N	

#### IV. Source-Specific Applicable Requirements

**Table IV – G.5**  
**Source-specific Applicable Requirements**  
**S606-50 UNIT WASTEWATER AIR STRIPPER A**  
**S607-50 UNIT WASTEWATER AIR STRIPPER B**  
**ABATED BY S950**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 5	S950 Minimum Temperature During Abatement (basis: cumulative increase)	Y	
Part 6	S950 Temperature Monitoring and Recording (basis: cumulative increase)	Y	
Part 7	Record Keeping (basis: toxics, cumulative increase)	Y	

**Table IV – G.6**  
**Source-specific Applicable Requirements**  
**S699 – Tank A-699**  
**API Separator Recovered Oil Tank**  
**Abated by A14 Vapor Recovery**

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 Collection and Separation Systems (09/15/2004)</b>		
8-8-101	Description, Applicability	N	
8-8-303	Gauging and Sampling Devices	Y	
8-8-305	Oil-Water Separator And/Or Air Flotation Unit Slop Oil Vessels	Y	
8-8-305.2	Oil-Water Separator And/Or Air Flotation Unit Slop Oil Vessels – an organic compound vapor recovery system with combined collection and destruction efficiency of at least 70% by weight.	N	
8-8-503	Inspection and Repair Records	Y	
8-8-504	Portable Hydrocarbon Detector	Y	
8-8-602	Determination of Emissions	N	
8-8-603	Inspection Procedures	N	
<b>SIP Regulation 8 Rule 8</b>	<b>Organic Compounds – Wastewater (Oil/Water Separators) (08/29/1994)</b>		
8-8-101	Description, Applicability	Y	
8-8-305.2	Oil-Water Separator And/Or Air Flotation Unit Slop Oil Vessels – an organic compound vapor recovery system with combined collection and destruction efficiency of at least 70% by weight.	Y	

## IV. Source-Specific Applicable Requirements

**Table IV – G.6  
 Source-specific Applicable Requirements  
 S699 – Tank A-699  
 API Separator Recovered Oil Tank  
 Abated by A14 Vapor Recovery**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-8-602	Determination of Emissions	Y	
8-8-603	Inspection Procedures	Y	
<b>BAAQMD Regulation 10</b>	<b>Standards of Performance for New Stationary Sources incorporated by reference (02/16/2000)</b>		
10-69	Subpart QQQ - Standards of Performance for VOC Emission From Petroleum Refinery Wastewater Systems	Y	
<b>BAAQMD Regulation 11 Rule 12</b>	<b>Hazardous Pollutants - National Emission Standard for Benzene Emissions From Benzene Transfer Operations and Benzene Waste Operations (Adopted 07/18/1990; Subpart FF last amended 01/05/1995)</b>	Y	
<b>40 CFR 60 Subpart QQQ</b>	<b>NSPS - Standards of Performance for VOC Emission From Petroleum Refinery Wastewater Systems (10/17/2000)</b>		
60.690	Applicability and designation of affected facility	Y	
60.690(a)(1)	Affected facilities located in petroleum refineries; construction, modification, or reconstruction commenced after May 4, 1987	Y	
60.690(a)(4)	An aggregate facility is a separate affected facility [individual drain system together with ancillary downstream sewer lines and oil-water separators, down to and including the secondary oil-water separator, as applicable]	Y	
60.691	Definitions	Y	
60.692-1	Standards: General	Y	
60.692-1(a)	Standards: General; Comply except during periods of startup, shutdown, or malfunction	Y	
60.692-1(b)	Standards: General; Determination of compliance	Y	
60.692-1(c)	Standards: General; Alternative means of compliance	Y	
60.692-1(d)	Standards: General; Exemptions	Y	
60.692-3	Standards: Oil-water separators [Slop oil facilities, including tanks, are included in this term]	Y	
60.692-3(a)	Standards: Oil-water separators; Fixed roof required on OWS and slop oil tank	Y	
60.692-3(a)(1)	Standards: Oil-water separators; Fixed roof requirements	Y	
60.692-3(a)(2)	Standards: Oil-water separators; Fixed roof requirements; if vapor space under fixed roof is purged, must purge to control device	Y	
60.692-3(a)(3)	Standards: Oil-water separators; Fixed roof requirements; Openings	Y	
60.692-3(a)(4)	Standards: Oil-water separators; Fixed roof requirements; Visual inspections - semiannual	Y	
60.692-3(a)(5)	Standards: Oil-water separators; Fixed roof requirements; Repairs and delay of repairs	Y	

## IV. Source-Specific Applicable Requirements

**Table IV – G.6  
 Source-specific Applicable Requirements  
 S699 – Tank A-699  
 API Separator Recovered Oil Tank  
 Abated by A14 Vapor Recovery**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
60.692-3(b)	Standards: Oil-water separators over 250 gpm shall be equipped and operate with a closed vent system and control device which meets the requirements of 60.692-5.	Y	
60.692-3(d)	Standards: Oil-water separators; exemption for storage vessels, including slop oil tanks subject to 40 CFR 60 Subparts K, Ka, or Kb	Y	
60.692-3(e)	Standards: Oil-water separators; Slop oil collection and handling requirements; fixed roof required	Y	
60.692-3(f)	Standards: Oil-water separators; Slop oil collection and handling requirements; pressure control valve allowed	Y	
60.692-4	Standards: Aggregate facility	Y	
60.692-6	Standards: Delay of Repair	Y	
60.692-6(a)	Standards: Delay of repair; Allowances for delay or repair	Y	
60.692-6(b)	Standards: Delay of repair; Complete repairs before end of next refinery or process unit shutdown	Y	
60.696	Performance test methods and procedures and compliance provisions	Y	
60.696(a)	Performance test methods and procedures and compliance provisions; initial inspection	Y	
60.697	Recordkeeping requirements	Y	
60.697(a)	Recordkeeping requirements; retention	Y	
60.697(c)	Recordkeeping requirements; oil water separator inspection records	Y	
60.697(e)(1)	Recordkeeping requirements; delay of repair - expected date of repair	Y	
60.697(e)(2)	Recordkeeping requirements; delay of repair – reason for delay	Y	
60.697(e)(3)	Recordkeeping requirements; delay of repair – signature of delay of repair decision maker [owner/operator/designee]	Y	
60.697(e)(4)	Recordkeeping requirements; delay of repair - actual date of repair	Y	
60.697(f)(1)	Recordkeeping requirements; design specifications – retain for life of equipment	Y	
60.697(f)(2)	Recordkeeping requirements; design specifications – information required	Y	
60.697(h)	Recordkeeping Requirements for exemptions	Y	
60.697(i)	Recordkeeping Requirements for exemptions	Y	
60.697(j)	Recordkeeping Requirements for exemptions	Y	
60.698	Reporting requirements	Y	
60.698(b)(1)	Reporting requirements; semiannual certification of required inspections	Y	
<b>40 CFR 61 Subpart FF</b>	<b>NESHAPS - Benzene Waste Operations (12/04/2003) Requirements for uncontrolled 6BQ wastewater streams [61.342(e)(2)]</b>		
61.340(a)	Applicability: Chemical Manufacturing, Coke by-product recovery, petroleum refineries	Y	

## IV. Source-Specific Applicable Requirements

**Table IV – G.6  
 Source-specific Applicable Requirements  
 S699 – Tank A-699  
 API Separator Recovered Oil Tank  
 Abated by A14 Vapor Recovery**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
61.342(e)	Standards: General; Requirements for Treat to 6 (6BQ) facility	Y	
61.342(e)(2)	Standards: General; Requirements for treating aqueous wastes (greater than 10% water) for compliance with 61.342(e) compliance option;	Y	
61.342(e)(2)(i)	Standards: General; [Uncontrolled] 61.342(e)(2) Waste shall not contain more than 6.0 Mg/yr benzene (target benzene quantity (TBQ).	Y	
61.342(e)(2)(ii)	Standards: General; Determine 61.342(e)(2) benzene quantity in each uncontrolled aqueous waste stream per 61.355(k).	Y	
<b>40 CFR 63 Subpart CC</b>	<b>NESHAPS for Source Categories - Petroleum Refineries (06/23/2003) Requirements for Group 2 wastewater streams</b>		
63.640(a)	Applicability	Y	
63.640(c)(3)	Applicability – wastewater source	Y	
63.640(d)	Applicability and Designation of Affected Sources: Exclusions	Y	
63.640(d)(5)	The affected source subject to this subpart does not include emission points routed to a fuel gas system. No testing, monitoring, recordkeeping, or reporting is required for refinery fuel gas systems or emission points routed to refinery fuel gas systems.	Y	
63.641	Definitions	Y	
<b>BAAQMD Condition # 21053</b>			
Part 6	Monitoring requirements for control device (basis: 63.646(a), 63.120(d)(5))	Y	

## IV. Source-Specific Applicable Requirements

**Table IV - G.7**  
**Source-specific Applicable Requirements**  
**S700 - Tank A-700**  
**API Separator Sludge Tank**

<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 8</b>	<b>Organic Compounds – wastewater Collection and Separation Systems (09/15/2004)</b>		
8-8-101	Description, Applicability	N	
8-8-303	Gauging and Sampling Devices	Y	
8-8-305	Oil-Water Separator And/Or Air Flotation Unit Slop Oil Vessels	Y	
8-8-305.1	Oil-Water Separator And/Or Air Flotation Unit Slop Oil Vessels – solid fixed cover. Semiannual visual inspection. No gaps > 0.125 inch in roof or between roof and wall and openings closed and gasketed except when in use	N	
8-8-503	Inspection and Repair Records	Y	
8-8-504	Portable Hydrocarbon Detector	Y	
8-8-603	Inspection Procedures	N	
<b>SIP Regulation 8 Rule 8</b>	<b>Organic Compounds – Wastewater (Oil-Water) Separators (08/29/1994)</b>		
8-8-101	Description, Applicability	Y	
8-8-305.1	Oil-Water Separator And/Or Air Flotation Unit Slop Oil Vessels – solid fixed cover. Semiannual visual inspection. No gaps > 0.125 inch in roof or between roof and wall and openings closed and gasketed except when in use	Y	
8-8-603	Inspection Procedures	Y	
<b>BAAQMD Regulation 11 Rule 12</b>	<b>Hazardous Pollutants - National Emission Standard for Benzene Emissions From Benzene Transfer Operations and Benzene Waste Operations (Adopted 07/18/1990; Subpart FF last amended 01/05/1994)</b>	Y	
<b>40 CFR 61 Subpart FF</b>	<b>NESHAPS - Benzene Waste Operations (12/04/2003) Requirements for uncontrolled 6BQ wastestream [61.342(e)(2)]</b>		
61.340(a)	Applicability: Chemical Manufacturing, Coke by-product recovery, petroleum refineries	Y	
61.342(e)	Standards: General; Requirements for Treat to 6 (6BQ) facility	Y	
61.342(e)(2)	Standards: General; Requirements for treating aqueous wastes (greater than 10% water) for compliance with 61.342(e) compliance option;	Y	
61.342(e)(2)(i)	Standards: General; [Uncontrolled] 61.342(e)(2) Waste shall not contain more than 6.0 Mg/yr benzene (target benzene quantity (TBQ)).	Y	
61.342(e)(2)(ii)	Standards: General; Determine 61.342(e)(2) benzene quantity in each uncontrolled aqueous waste stream per 61.355(k).	Y	
<b>40 CFR 63 Subpart CC</b>	<b>NESHAPS for Source Categories - Petroleum Refineries (06/23/2003) Requirements for Group 2 wastewater streams</b>		

#### IV. Source-Specific Applicable Requirements

**Table IV - G.7**  
**Source-specific Applicable Requirements**  
**S700 - Tank A-700**  
**API Separator Sludge Tank**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.640(a)	Applicability	Y	
63.640(c)(3)	Applicability – wastewater source	Y	
63.641	Definitions	Y	

**Table IV – G.8**  
**Source-specific Applicable Requirements**  
**S819-API OIL WATER SEPARATOR (OWS)/DISSOLVED NITROGEN FLOTATION (DNF)**  
**ABATED BY A39 OR ABATED BY A14 VAPOR RECOVERY**

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 Collection and Separation Systems (09/14/2004)</b>		
8-8-101	Description, Applicability	N	
8-8-114	Exemption, bypassed oil-water separator or air flotation influent	N	
8-8-302	Wastewater separators (OWS) rated capacity larger than or equal to 18.9 liters per seconds (300 gal/min), must be equipped with one of the following:	Y	
8-8-302.3	(OWS) a vapor-tight fixed cover with an organic compound vapor recovery, or system which has a combined collection and destruction efficiency of at least 95 percent, by weight, inspection and access hatches shall be closed except for inspection, maintenance, or wastewater sampling	N	
8-8-302.6	Inspect Roof seals, fixed covers, access doors, and other openings semiannually to verify vapor tight (S-819 - OWS)	N	
8-8-303	Gauging and Sampling Devices	Y	
8-8-307	Air Flotation Unit (DNF): any air flotation unit and/or pre-air flotation unit flocculation sump, basin, chamber or tank with a maximum allowable capacity greater than 400 gals/min unless is equipped with one of the following:	Y	
8-8-307.2	(DNF) with an organic compound vapor recovery system with a minimum combined collection/destruction efficiency of 70 % by weight.	N	
8-8-501	API Separator or Air Flotation Bypassed Wastewater Records	N	
8-8-503	Inspection and Repair Records	Y	



## IV. Source-Specific Applicable Requirements

**Table IV – G.8**  
**Source-specific Applicable Requirements**  
**S819-API OIL WATER SEPARATOR (OWS)/DISSOLVED NITROGEN FLOTATION (DNF)**  
**ABATED BY A39 OR ABATED BY A14 VAPOR RECOVERY**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
8-8-504	Portable Hydrocarbon Detector	Y	
8-8-601	Wastewater Analysis for Critical Organic Compounds	N	
8-8-602	Determination of Emissions	N	
8-8-603	Inspection Procedures	N	
<b>SIP Regulation 8 Rule 8</b>	<b>Wastewater (Oil-Water) Separators (08/29/1994)</b>		
8-8-101	Description, Applicability	Y	
8-8-114	Exemption, bypassed oil-water separator or air flotation influent	Y	
8-8-302.3	(OWS) a vapor-tight fixed cover with an organic compound vapor recovery, or system which has a combined collection and destruction efficiency of at least 95 percent, by weight, inspection and access hatches shall be closed except for inspection, maintenance, or wastewater sampling	Y	
8-8-307.2	(DNF) an organic compound vapor recovery system with a minimum combined collection/destruction efficiency of 70 % by weight.	Y	
8-8-501	API Separator or Air Flotation Bypassed Wastewater Records	Y	
8-8-601	Wastewater Analysis for Critical Organic Compounds	Y	
8-8-602	Determination of Emissions	Y	
8-8-603	Inspection Procedures	Y	
<b>BAAQMD Regulation 10</b>	<b>Standards of Performance for New Stationary Sources incorporated by reference (02/16/2000)</b>		
10-69	Subpart QQQ - Standards of Performance for VOC Emission From Petroleum Refinery Wastewater Systems	Y	
<b>BAAQMD Regulation 11 Rule 12</b>	<b>Hazardous Pollutants - National Emission Standard for Benzene Emissions From Benzene Transfer Operations and Benzene Waste Operations (Adopted 07/18/1990; Subpart FF last amended 01/05/1994)</b>	Y	
<b>40 CFR 60 Subpart QQQ</b>	<b>NSPS - Standards of Performance for VOC Emissions from Petroleum Refinery Wastewater Systems (10/17/2000)</b> <b>Applies to Oil-Water Separator only</b>		
60.690	Applicability and designation of affected facility	Y	
60.690(a)(1)	Affected facilities located in petroleum refineries; construction, modification, or reconstruction commenced after May 4, 1987	Y	
60.690(a)(4)	An aggregate facility is a separate affected facility [individual drain system together with ancillary downstream sewer lines and oil-water separators, down to and including the secondary oil-water separator, as applicable]	Y	
60.691	Definitions	Y	

## IV. Source-Specific Applicable Requirements

**Table IV – G.8**  
**Source-specific Applicable Requirements**  
**S819-API OIL WATER SEPARATOR (OWS)/DISSOLVED NITROGEN FLOTATION (DNF)**  
**ABATED BY A39 OR ABATED BY A14 VAPOR RECOVERY**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
60.692-1	Standards: General	Y	
60.692-1(a)	Standards: General; Comply except during periods of startup, shutdown, or malfunction	Y	
60.692-1(b)	Standards: General; Determination of compliance	Y	
60.692-1(c)	Standards: General; Alternative means of compliance	Y	
60.692-1(d)	Standards: General; Exemptions	Y	
60.692-3	Standards: Oil-water separators.	Y	
60.692-3(a)	Standards: Oil-water separators; Fixed roof required	Y	
60.692-3(a)(1)	Standards: Oil-water separators; Fixed roof requirements	Y	
60.692-3(a)(2)	Standards: Oil-water separators; Fixed roof requirements; if vapor space under fixed roof is purged, must purge to control device	Y	
60.692-3(a)(3)	Standards: Oil-water separators; Fixed roof requirements; Openings	Y	
60.692-3(a)(4)	Standards: Oil-water separators; Fixed roof requirements; Visual inspections - semiannual	Y	
60.692-3(a)(5)	Standards: Oil-water separators; Fixed roof requirements; Repairs and delay of repairs	Y	
60.692-3(b)	Standards: Oil-water separators over 250 gpm shall be equipped and operate with a closed vent system and control device which meets the requirements of 60.692-5.	Y	
60.692-3(e)	Standards: Oil-water separators; Slop oil collection and handling requirements	Y	
60.692-3(f)	Standards: Oil-water separators; pressure control valve allowed	Y	
60.692-4	Standards: Aggregate facility	Y	
60.692-5	Standards: Closed vent systems and control devices [60.692.5 applies when S819 is abated by A39 Thermal Oxidizer.]	Y	
60.692-5(a)	Standards: Closed vent systems and control devices; enclosed combustion devices must provide 95% abatement of VOCs or meet residence time and minimum operating temperature (0.75 seconds at 1500 F) (applies to A39 thermal oxidizer)	Y	
60.692-5(b)	Standards: Closed vent systems and control devices; vapor recovery systems must provide 95% recovery of VOCs (applies to A14 vapor recovery system)	Y	
60.692-5(d)	Standards: Closed vent systems and control devices; operate at all times	Y	
60.692-5(e)(1)	Standards: Closed vent systems and control devices; no detectable emissions	Y	
60.692-5(e)(2)	Standards: Closed vent systems and control devices; purge closed vent system to control device	Y	

## IV. Source-Specific Applicable Requirements

**Table IV – G.8**  
**Source-specific Applicable Requirements**  
**S819-API OIL WATER SEPARATOR (OWS)/DISSOLVED NITROGEN FLOTATION (DNF)**  
**ABATED BY A39 OR ABATED BY A14 VAPOR RECOVERY**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
60.692-5(e)(3)	Standards: Closed vent systems and control devices; flow indicator required on vent stream to control device	Y	
60.692-5(e)(4)	Standards: Closed vent systems and control devices; sampling and gauging devices gas tight	Y	
60.692-5(e)(5)	Standards: Closed vent systems and control devices; detectable emissions – first efforts at repair	Y	
60.692-6	Standards: Delay of Repair	Y	
60.692-6(a)	Standards: Delay of repair; Allowances for delay or repair	Y	
60.692-6(b)	Standards: Delay of repair; Complete repairs before end of next refinery or process unit shutdown	Y	
60.695	Monitoring of Operations	Y	
60.695(a)	Monitoring of Operations; control device monitoring requirements	Y	
60.695(a)(1)	Monitoring of Operations; control device monitoring requirements – thermal oxidizer temperature monitoring device [applies to A39]	Y	
60.696	Performance test methods and procedures and compliance provisions	Y	
60.696(a)	Performance test methods and procedures and compliance provisions; initial inspection	Y	
60.696(b)	Performance test methods and procedures and compliance provisions; measure no detectable emissions with Method 21 and exemption from 60.8	Y	
60.697	Recordkeeping requirements	Y	
60.697(a)	Recordkeeping requirements; retention	Y	
60.697(c)	Recordkeeping requirements; oil water separator inspection records	Y	
60.697(d)	Recordkeeping requirements; closed vent system inspection records	Y	
60.697(e)(1)	Recordkeeping requirements; delay of repair - expected date of repair	Y	
60.697(e)(2)	Recordkeeping requirements; delay of repair – reason for delay	Y	
60.697(e)(3)	Recordkeeping requirements; delay of repair – signature of delay of repair decision maker [owner/operator/designee]	Y	
60.697(e)(4)	Recordkeeping requirements; delay of repair - actual date of repair	Y	
60.697(f)(1)	Recordkeeping requirements; design specifications – retain for life of equipment	Y	
60.697(f)(2)	Recordkeeping requirements; design specifications – information required	Y	
60.697(f)(3)	Recordkeeping requirements; closed vent system records	Y	
60.697(f)(3)(i)	Recordkeeping requirements; closed vent system records; control efficiency demonstration	Y	
60.697(f)(3)(iii)	Recordkeeping requirements; closed vent system records; periods when not operated as designed	Y	

## IV. Source-Specific Applicable Requirements

**Table IV – G.8**  
**Source-specific Applicable Requirements**  
**S819-API OIL WATER SEPARATOR (OWS)/DISSOLVED NITROGEN FLOTATION (DNF)**  
**ABATED BY A39 OR ABATED BY A14 VAPOR RECOVERY**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.697(f)(3)(iv)	Recordkeeping requirements; closed vent system records; startup and shutdown of control device	Y	
60.697(f)(3)(v)	Recordkeeping requirements; no detectable emissions records	Y	
60.697(f)(3)(vi)	Recordkeeping requirements; no detectable emissions records	Y	
60.697(f)(3)(vii)	Recordkeeping requirements; no detectable emissions records	Y	
60.697(f)(3)(viii)	Recordkeeping requirements; control device; thermal oxidizer	Y	
60.697(h)	Recordkeeping Requirements for exemptions	Y	
60.697(i)	Recordkeeping Requirements for exemptions	Y	
60.697(j)	Recordkeeping Requirements for exemptions	Y	
60.698	Reporting requirements	Y	
60.698(b)(1)	Reporting requirements; semiannual certification of required inspections	Y	
60.698(d)	Reporting requirements; semiannual report	Y	
60.698(d)(1)	Reporting requirements; semiannual report; thermal oxidizer combustion zone temperature more than 50 F below design [applies to A39]	Y	
<b>40 CFR 61 Subpart FF</b>	<b>NESHAPS - Benzene Waste Operations (12/04/2003) Requirements for uncontrolled 6BQ wastewater streams [61.342(e)(2)]</b>		
61.340(a)	Applicability: petroleum refineries	Y	
61.341	Definitions	Y	
61.342(e)	Standards: General; Compliance option - Treat to 6 or 6BQ Option	Y	
61.342(e)(2)	Standards: General; Requirements for treating aqueous wastes (greater than 10% water) for compliance with 61.342(e) compliance option;	Y	
61.342(e)(2)(i)	Standards: General; [Uncontrolled] 61.342(e)(2) Waste shall not contain more than 6.0 Mg/yr benzene (target benzene quantity (TBQ)).	Y	
61.342(e)(2)(ii)	Standards: General; Determine 61.342(e)(2) benzene quantity in each uncontrolled aqueous waste stream per 61.355(k).	Y	
<b>40 CFR 63 Subpart CC</b>	<b>NESHAPS for Source Categories - Petroleum Refineries (06/23/2003) Requirements for Group 2 wastewater streams</b>		
63.640(a)	Applicability	Y	
63.640(c)(3)	Applicability – wastewater streams associated with petroleum refining process units	Y	
63.640(o)(1)	Group 2 Wastewater stream to comply with the provisions of 40 CFR part 60, subpart QQQ.	Y	
63.641	Definitions	Y	
<b>BAAQMD Condition 7406</b>			

## IV. Source-Specific Applicable Requirements

**Table IV – G.8**  
**Source-specific Applicable Requirements**  
**S819-API OIL WATER SEPARATOR (OWS)/DISSOLVED NITROGEN FLOTATION (DNF)**  
**ABATED BY A39 OR ABATED BY A14 VAPOR RECOVERY**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
Part A1	S-819 Enclosure requirement and abatement requirement (basis: Regulation 8-8, BACT, offsets, toxics, cumulative increase)	Y	
Part A2	S-819 Back up abatement requirement (basis: Regulation 8-8, BACT, offsets, toxics, cumulative increase)	Y	
Part B1	Requirement to cover and abate S-819 DNF outlet channel to S-1026 and A-39 (basis: Regulation 8-8, BACT, offsets, toxics, cumulative increase)	Y	
Part B2	Requirement for S-1026 air stripper compressor interlock with air sweep fans and A39 thermal incinerator (basis: Regulation 8-8, BACT, offsets, toxics, cumulative increase)	Y	
Part B3	Requirement for pressure to be less than atmospheric in air space below DNF covers (basis: Regulation 8-8, BACT, offsets, toxics, cumulative increase)	Y	
Part B5A	A-39 NMHC < 10 ppm (as methane) rolling one-hour average basis (basis: BACT, offsets, cumulative increase)	Y	
Part B7	A-39 H2S < 1 ppm (basis: toxics)	Y	
Part B10	A-39 minimum temperature (basis: cumulative increase, offsets, toxics)	Y	
Part B11	A-39 Continuous temperature monitor/recorder (basis: BACT, offsets, cumulative increase)	Y	
Part B12	Recordkeeping (basis: BACT, offsets, cumulative increase, toxics)	Y	

## IV. Source-Specific Applicable Requirements

**Table IV – G.9**  
**Source-specific Applicable Requirements**  
**S830–WASTEWATER SURGE PONDS**  
**S831–BIO-OXIDATION POND,**  
**S842–WASTEWATER TREATMENT PLANT**  
**S1101, S1102, S1103, S1104–SUBSURFACE AERATOR SYSTEMS**

<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 8</b>	<b>Organic Compounds – Wastewater Collection and Separation Systems (9/14/2004)</b>		
8-8-113	Exemption, Secondary Wastewater Treatment Processes and Stormwater Sewer Systems	N	
<b>SIP Regulation 8 Rule 8</b>	<b>Organic Compounds – Wastewater (Oil-Water) Separators (08/29/1994)</b>		
8-8-113	Exemption, Secondary Wastewater Treatment Processes and Stormwater Sewer Systems	Y	
<b>BAAQMD Condition 7688</b>	<b>Applies to S1101, S1102, S1103, S1104 Only</b>		
Part 1	Requirement for subject sources to be operated consistent with specification set forth during permitting (basis: cumulative increase)	Y	

## IV. Source-Specific Applicable Requirements

**Table IV – G.10**  
**Source-specific Applicable Requirements**  
**S1026-DNF EFFLUENT AIR STRIPPER**  
**ABATED BY A39**

<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 8</b>	<b>Organic Compounds – Wastewater Collection and Separation Systems (9/14/2004)</b>		
8-8-113	Exemption, Secondary Wastewater Treatment Processes and Stormwater Sewer Systems	N	
<b>SIP Regulation 8 Rule 8</b>	<b>Organic Compounds – Wastewater (Oil-Water) Separators (08/29/1994)</b>		
8-8-113	Exemption, Secondary Wastewater Treatment Processes and Stormwater Sewer Systems	Y	
<b>BAAQMD Condition 7406</b>			
Part A1	S-819 Enclosure requirement and abatement requirement (vent to S-1026) (basis: Regulation 8-8, BACT, offsets, toxics, cumulative increase)	Y	
Part B1	Requirement to cover and abate DNF outlet channel to S-1026 and A-39 (basis: Regulation 8-8, BACT, offsets, toxics, cumulative increase)	Y	
Part B2	Requirement for S-1026 air stripper compressor interlock with air sweep fans and A39 thermal incinerator (basis: Regulation 8-8, BACT, offsets, toxics, cumulative increase)	Y	
Part B3	Requirement for pressure to be less than atmospheric in air space below DNF covers (basis: Regulation 8-8, BACT, offsets, toxics, cumulative increase)	Y	
Part B5A	A-39 NMHC < 10 ppm (as methane) rolling one-hour average basis (basis: BACT, offsets, cumulative increase)	Y	
Part B7	A-39 H2S < 1 ppm (basis: toxics)	Y	
Part B10	A-39 minimum temperature to abate S-1026 (basis: cumulative increase, offsets, toxics)	Y	
Part B11	A-39 Continuous temperature monitor/recorder (basis: BACT, offsets, cumulative increase)	Y	
Part B12	Recordkeeping (basis: BACT, offsets, cumulative increase, toxics)	Y	

## IV. Source-Specific Applicable Requirements

### SECTION H - SULFUR AND AMMONIA PROCESSING

**Table IV – H.1**  
**Source-specific Applicable Requirements**  
**S851–AMMONIA RECOVERY UNIT**

<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 2</b>	<b>Organic Compounds - Miscellaneous Operations (07/20/2005)</b>		
8-2-101	Description, Applicability	Y	
8-2-301	Miscellaneous Operations: emissions shall not exceed 15 lb/day and 300 ppm total carbon on a dry basis	Y	
8-2-601	Determination of Compliance	Y	



## IV. Source-Specific Applicable Requirements

**Table IV – H.2**  
**Source-specific Applicable Requirements**  
**S1401-CLAUS MODIFIED 3-STAGE SULFUR RECOVERY UNIT**  
**ABATED BY A1402 SCOT TAILGAS UNIT AND A1525 SRU STACK INCINERATORS**

<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 1</b>	<b>General Provisions and Definitions (07/19/2006)</b>		
1-520	Continuous Emission Monitoring	Y	
1-520.4	SO2 monitor at sulfur recovery plants emitting more than 100 lb/day SO2	Y	
1-520.8	Monitors required by Regulations 10, 12 and 2-1-403	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	
1-522.9	recordkeeping requirements	Y	
1-522.10	monitors required by Sections 1-521 or 2-1-403 shall meet the requirements specified by the APCO	Y	
1-523	Parametric Monitoring and Recordkeeping Procedures	N	
1-523.1	Report periods of parametric monitor inoperation	Y	
1-523.2	Limits on periods of parametric monitor inoperation	Y	
1-523.3	Report exceedances	N	
1-523.4	Recordkeeping	Y	
1-523.5	Maintenance and calibration; written policy	N	
1-602	Area and Continuous Emission Monitoring Requirements	N	
<b>SIP Regulation 1</b>	<b>General Provisions and Definitions (06/28/1999)</b>		
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	Y	
1-522.7	Excesses	Y	
1-523	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.3	Report exceedances	Y	
<b>BAAQMD Regulation 6 Rule 1</b>	<b>Particulate Matter; General Requirements (12/05/2007)</b>		

## IV. Source-Specific Applicable Requirements

**Table IV – H.2**  
**Source-specific Applicable Requirements**  
**S1401-CLAUS MODIFIED 3-STAGE SULFUR RECOVERY UNIT**  
**ABATED BY A1402 SCOT TAILGAS UNIT AND A1525 SRU STACK INCINERATORS**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
6-1-301	Ringelmann Number 1 Limitation	N	
6-1-305	Visible Particles	N	
6-1-310	Particulate Weight Limitation	N	
6-1-311	General Operations (process weight rate limitation)	N	
6-1-330	Sulfur Recovery Units (SO <sub>3</sub> , H <sub>2</sub> SO <sub>4</sub> emission limitations)	N	
6-1-401	Appearance of Emissions	N	
6-1-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions	N	
<b>SIP Regulation 6</b>	<b>Particulate Matter and Visible Emissions (09/04/1998)</b>		
6-301	Ringelmann Number 1 Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particulate Weight Limitation	Y	
6-311	General Operations (process weight rate limitation)	Y	
6-330	Sulfur Recovery Units (SO <sub>3</sub> , H <sub>2</sub> SO <sub>4</sub> emission limitations)	Y	
6-401	Appearance of Emissions	Y	
6-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions	Y	
<b>BAAQMD Regulation 9 Rule 1</b>	<b>Inorganic Gaseous Pollutants – Sulfur Dioxide (03/15/1995)</b>		
9-1-101	Description, applicability	Y	
9-1-302.1	General Emission limitation: Exemption: 9-1-302 limit not applicable to sources subject to any limitation in 9-1-304 through 9-1-312	Y	
9-1-304.1	Fuel Burning (Liquid and Solid Fuels): Exemption: 9-1-304 not applicable to sulfur manufacturing operations	Y	
9-1-307	Emission Limitations for Sulfur Recovery Plants	Y	
9-1-313	Sulfur Removal Operations at Petroleum Refineries (processing more than 20,000 bbl/day of crude oil)	N	
9-1-313.2	operation of a sulfur removal and recovery system that removes 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).	N	
9-1-502	Emission Monitoring Requirements (Regulations 1-520, 1-522)	Y	

## IV. Source-Specific Applicable Requirements

**Table IV – H.2**  
**Source-specific Applicable Requirements**  
**S1401-CLAUS MODIFIED 3-STAGE SULFUR RECOVERY UNIT**  
**ABATED BY A1402 SCOT TAILGAS UNIT AND A1525 SRU STACK INCINERATORS**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
9-1-601	Sampling and Analysis of Gas Streams	Y	
9-1-603	Averaging Times	Y	
9-1-605	Emission Monitoring	Y	
<b>SIP Regulation 9 Rule 1</b>	<b>Inorganic Gaseous Pollutants – Sulfur Dioxide (06/08/1999)</b>		
9-1-313	Sulfur Removal Operations at Petroleum Refineries (processing more than 20,000 bbl/day of crude oil)	Y	
9-1-313.2	operation of a sulfur removal and recovery system that removes and recovers: 95% of H2S from refinery fuel gas, 95% of H2S and ammonia from process water streams	Y	
<b>BAAQMD Regulation 10</b>	<b>Standards of Performance for New Stationary Sources incorporated by reference (02/16/2000)</b> <b>Applicability specified in Condition 267</b>		
10-14	Subpart J – Standards of Performance for Petroleum Refineries (08/07/1991)	Y	
<b>BAAQMD Manual of Procedures, Volume V</b>	<b>Continuous Emission Monitoring Policy and Procedures (01/20/1982)</b>	N	
<b>40 CFR 60 Subpart J</b>	<b>NSPS - Standards of Performance for Petroleum Refineries (06/24/2008)</b> <b>Applicability defined by Condition 267</b>	Y	
60.104	Standards for sulfur oxides	Y	
60.104(a)(2)	Limit on sulfur oxide emissions from Claus SRU	Y	
60.104(a)(2)(i)	Limit on sulfur oxide emissions from Claus sulfur recovery plant with oxidation or reduction control system followed by incineration	Y	
60.105	Monitoring of Emissions and Operations	Y	
60.105(a)	Continuous monitoring system requirements	Y	
60.105(a)(5)	Continuous SO2 concentration monitoring system requirements. Includes O2 CEMS.	Y	
60.105(e)	Periods of excess emissions for 60.7(c)	Y	
60.105(e)(4)	Excess emissions of sulfur dioxide from Claus sulfur recovery plants	Y	

## IV. Source-Specific Applicable Requirements

**Table IV – H.2**  
**Source-specific Applicable Requirements**  
**S1401-CLAUS MODIFIED 3-STAGE SULFUR RECOVERY UNIT**  
**ABATED BY A1402 SCOT TAILGAS UNIT AND A1525 SRU STACK INCINERATORS**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
60.105(e)(4)(i)	Excess emissions of sulfur dioxide from Claus sulfur recovery plants as measured under 60.105(a)(5)	Y	
60.106	Test Methods and Procedures	Y	
60.106(a)	Performance test requirements	Y	
60.106(f)	Compliance determination for SO <sub>2</sub> standards for Claus SRU	Y	
60.106(f)(1)	Compliance determination for SO <sub>2</sub> standards for Claus SRU; methods to determine SO <sub>2</sub> concentration	Y	
60.106(f)(3)	Compliance determination for SO <sub>2</sub> standards for Claus SRU; methods to determine O <sub>2</sub> concentration	Y	
60.107	Reporting and recordkeeping requirements	Y	
60.107(f)	Submit required reports semiannually for each six-month period, a report postmarked by the 30th day following the end of each six-month period.	Y	
60.107(g)	Submit signed statement certifying accuracy and completeness of information contained in the report.	Y	
<b>40 CFR 60 Appendix B</b>	<b>NSPS – Title 40 Part 60 Appendix B – Performance Specifications (01/12/2004)</b>		
Performance Specification 2	Specifications and Test Procedures for SO <sub>2</sub> and NO <sub>X</sub> Continuous Emission Monitoring Systems in Stationary Sources	Y	
Performance Specification 3	Specifications and Test Procedures for O <sub>2</sub> Continuous Emission Monitoring Systems in Stationary Sources	Y	
<b>40 CFR 60 Appendix F</b>	<b>NSPS - Title 40 Part 60 Appendix F – Quality Assurance Procedures (01/12/2004)</b> Applicability specified in 40 CFR 63 Subpart UUU, Table 40		
Procedure 1	QA Requirements for Gas Continuous Emission Monitoring Systems	Y	
<b>40 CFR 63 Subpart UUU</b>	<b>NESHAPS for Source Categories: Petroleum Refineries: Catalytic Cracking Units, Catalytic Reforming Units, and Sulfur Recovery Units. (04/20/2006)</b>		
63.1560	Applicability and Designation of Affected Facilities	Y	
63.1561	Applicability	Y	
63.1561(a)(1)	Applicable to petroleum refineries located at a major source of HAP emissions	Y	
63.1561(a)(2)	Applicable to a major source of HAPs with potential to emit 10 tpy any single HAP or 25 tpy of any combination of HAPs	Y	
63.1562	What parts of my plant are covered by this subpart?	Y	
63.1562(a)	New, reconstructed, or existing affected source at a petroleum refinery	Y	

## IV. Source-Specific Applicable Requirements

**Table IV – H.2**  
**Source-specific Applicable Requirements**  
**S1401-CLAUS MODIFIED 3-STAGE SULFUR RECOVERY UNIT**  
**ABATED BY A1402 SCOT TAILGAS UNIT AND A1525 SRU STACK INCINERATORS**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
63.1562(b)(3)	Affected source: SRU	Y	
63.1562(b)(4)	Affected source: Bypass lines	Y	
63.1562(e)	Existing affected source	Y	
63.1568	Requirements for HAP Emissions from Sulfur Recovery Units	Y	
63.1568(a)	Emission Limitations and Work Practice Standards	Y	
63.1568(a)(1)	Emission limitation requirements for Sulfur Recovery Units subject to NSPS for sulfur oxides in 40 CFR 60.104. Meet the emission limitations for NSPS units. (Table 29, Item 1)	Y	
63.1568(a)(3)	Prepare Operation, Maintenance, and Monitoring Plan and operate in compliance with the plan	Y	
63.1568(b)	Initial Compliance Demonstration with HAP emission limitation and work practice standards	Y	
63.1568(b)(1)	Install SO <sub>2</sub> and O <sub>2</sub> CEMS to measure and record hourly average concentration of SO <sub>2</sub> , dry basis, at 0% O <sub>2</sub> .(Table 31, Item 1.a).	Y	
63.1568(b)(5)	Conduct performance test to demonstrate initial compliance (Table 33, Item 1.a). NOTE: No additional performance test required to demonstrate initial compliance with SO <sub>2</sub> limit or with CEMS requirements for sources subject to NSPS. Certify in Notification of Compliance Status report that SRU stack meets emission limit and the CEMS meets the requirements in 63.1572.	Y	
63.1568(b)(6)	Submit Operation, Maintenance, and Monitoring Plan as part of the Notification of Compliance Status report.	Y	
63.1568(b)(7)	Submit Notice of Initial Compliance Status containing the results of the initial compliance demonstration.	Y	
63.1568(c)	Continuous Compliance Demonstration with HAP emission limitation and work practice standards	Y	
63.1568(c)(1)	Demonstrate Continuous Compliance with Emission Limitation: Collect hourly average SO <sub>2</sub> monitoring data (dry basis, 0% O <sub>2</sub> ), determine and record each 12-hour rolling average SO <sub>2</sub> concentration, maintain the 12-hour rolling average below the 250 ppmvd, 0% O <sub>2</sub> limit (Table 29, Item 1.a.), and report any 12-hour rolling average that exceeds the limit in the compliance report required by 63.1575. (Table 34, Item 1.a)	Y	
63.1568(c)(2)	Demonstrate Continuous Compliance with Work Practice Standard by complying with the Operation, Maintenance, and Monitoring Plan	Y	
63.1569	Requirements for HAP Emissions from Bypass Lines	Y	
63.1569(a)	Work Practice Standards	Y	

## IV. Source-Specific Applicable Requirements

**Table IV – H.2**  
**Source-specific Applicable Requirements**  
**S1401-CLAUS MODIFIED 3-STAGE SULFUR RECOVERY UNIT**  
**ABATED BY A1402 SCOT TAILGAS UNIT AND A1525 SRU STACK INCINERATORS**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
63.1569(a)(1)	Meet work practice standards for bypass lines by selecting one of four options.	Y	
63.1569(a)(1)(i)	Install an automated system in the bypass line (Table 36, Option 1)	Y	
63.1569(a)(3)	Prepare an Operations, Maintenance, and Operating Plan, and operate at all times in accordance with the Plan.	Y	
63.1569(b)	Initial Compliance Demonstration with work practice standards for bypass lines	Y	
63.1569(b)(1)	Conduct performance test for automated bypass line. (Table 37, Option 1)	Y	
63.1569(b)(2)	Demonstrate initial compliance with work practice standard for bypass line with automated system (Table 38, Option 1.a).	Y	
63.1569(b)(3)	Submit Operations, Maintenance, and Monitoring Plan as part of the Notification of Compliance Status report.	Y	
63.1569(b)(4)	Submit the Notification of Compliance Status containing the results of the initial compliance demonstration.	Y	
63.1569(c)	Continuous Compliance Demonstration with the work practice standards for bypass lines.	Y	
63.1569(c)(1)	Demonstrate continuous compliance with the work practice standards for automated bypass lines by continuously monitoring and recording whether flow is present in the bypass line, and recording whether the device is operating properly. (Table 39, Option 1)	Y	
63.1569(c)(2)	Demonstrate continuous compliance with the work practice standard for automated bypass lines by complying with the Operation, Maintenance, and Monitoring Plan.	Y	
63.1570	General Compliance Requirements	Y	
63.1570(a)	Operate in compliance with non-opacity standards at all times except during periods of startup, shutdown, and malfunction, as specified in 63.6(f)(1)	Y	
63.1570(c)	Operate and maintain source including pollution control and monitoring equipment in accordance with 63.6(e)(1).	Y	
63.1570(d)	Develop and implement startup, shutdown, and malfunction plan (SSMP) in accordance with 63.6(e)(3)	Y	
63.1570(f)	Report deviations from compliance with this subpart according to the requirements of 63.1575	Y	
63.1570(g)	Deviations that occur during startup, shutdown, or malfunction are not violations if operating in accordance with SSMP	Y	
63.1571	Performance Tests	Y	

## IV. Source-Specific Applicable Requirements

**Table IV – H.2**  
**Source-specific Applicable Requirements**  
**S1401-CLAUS MODIFIED 3-STAGE SULFUR RECOVERY UNIT**  
**ABATED BY A1402 SCOT TAILGAS UNIT AND A1525 SRU STACK INCINERATORS**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
63.1571(a)	Conduct Performance Test and submit results no later than 150 days after compliance date	Y	
63.1571(b)	Requirements for Performance Tests	Y	
63.1571(b)(1)	Conduct performance tests in accordance with the requirements of 63.7(e)(1)	Y	
63.1571(b)(2)	Except for opacity and visual emissions observations, conduct three separate test runs of at least an hour for each performance test	Y	
63.1571(b)(3)	Conduct each performance evaluation in accordance with the requirements of 63.8(e)	Y	
63.1571(b)(4)	Do not conduct performance tests during periods of startup, shutdown, or malfunction	Y	
63.1571(b)(5)	Arithmetic average of emission rates	Y	
63.1572	Monitoring installation, operation, and maintenance requirements	Y	
63.1572(a)	Monitoring installation, operation, and maintenance requirements for continuous emission monitoring systems.	Y	
63.1572(a)(1)	Install, operate, and maintain SO <sub>2</sub> CEMS with O <sub>2</sub> monitor on the SRU. Comply with applicable requirements in Table 40. (Table 40, Item 4 and Item 8)	Y	
63.1572(a)(2)	Performance test requirements for CEMS used to meet NSPS SO <sub>2</sub> limit. (Table 40, Item 4 and Item 8).	Y	
63.1572(a)(3)	Minimum data requirements for CEMS per 63.8(c)(4)(ii).	Y	
63.1572(a)(4)	Data reduction requirements per 63.8(g)(2).	Y	
63.1572(d)	Data monitoring and collection requirements	Y	
63.1572(d)(1)	Conduct monitoring at all times source is operating except for monitoring malfunctions, repairs, and QA/QC activities	Y	
63.1572(d)(2)	Do not use data recorded during monitoring malfunctions, repairs, and QA/QC activities	Y	
63.1574	Notification Requirements	Y	
63.1574(a)	Notifications Required by 40 CFR 63 Subpart A	Y	
63.1574(a)(2)	Submit notification of intent to conduct performance test 30 days before scheduled (instead of 60 days)	Y	
63.1574(a)(3)	Requirements for Notification of Compliance Status	Y	
63.1574(a)(3) (ii)	Submit Notification of Compliance Status for initial compliance demonstration that includes a performance test, no later than 150 days after source compliance date	Y	

## IV. Source-Specific Applicable Requirements

**Table IV – H.2**  
**Source-specific Applicable Requirements**  
**S1401-CLAUS MODIFIED 3-STAGE SULFUR RECOVERY UNIT**  
**ABATED BY A1402 SCOT TAILGAS UNIT AND A1525 SRU STACK INCINERATORS**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
63.1574(d)	Information to be Submitted in Notice of Compliance Status (Table 42): identification of affected sources and emission points (Item 1); initial compliance demonstration (Item 2); continuous compliance (Item 3)	Y	
63.1574(f)	Requirement to prepare Operation, Maintenance, and Monitoring Plan	Y	
63.1574(f)(1)	Submit plan to permitting authority for review and approval along with NOCS. Include duty to prepare and implement plan into Part 70 or 71 permit.	Y	
63.1574(f)(2)	Minimum contents of Operation, Maintenance, and Monitoring Plan	Y	
63.1575	Reports	Y	
63.1575(a)	Required reports: semiannual compliance report (Table 43, Item 1)	Y	
63.1575(b)	Specified semiannual report submittal dates	Y	
63.1575(c)	Information required in compliance report	Y	
63.1575(e)	Information required for deviations from emission limitations and work practice standards where CEMS or COMS is used to comply with emission limitation or work practice standard	Y	
63.1575(f)	Additional information for compliance reports	Y	
63.1575(g)	Submittal of reports required by other regulations in place of or as part of compliance report if they contain the required information	Y	
63.1575(h)	Reporting requirements for startups, shutdowns, and malfunctions	Y	
63.1576	Recordkeeping	Y	
63.1576(a)	Required Records – General	Y	
63.1576(b)	Records for continuous emission monitoring systems	Y	
63.1576(b)(1)	Records required by 63.10(b)(2)(vi) – (xi)	Y	
63.1576(b)(5)	Records of deviations	Y	
63.1576(d)	Records required by Tables 34 and 35 of Subpart UUU for sulfur recovery units and Table 39 for bypass lines	Y	
63.1576(e)	Maintain copy of Operation, Maintenance, and Monitoring Plan and records to show continuous compliance with plan	Y	
63.1576(f)	Records of changes that affect emission control system performance	Y	
63.1576(g)	Records in a form suitable and readily available for review	Y	
63.1576(h)	Maintain records for 5 years	Y	
63.1576(i)	Records onsite for two years; may be maintained offsite for remaining 3 years	Y	
63.1577	Parts of Subpart A General Provisions which apply to this Subpart	Y	



## IV. Source-Specific Applicable Requirements

**Table IV – H.2**  
**Source-specific Applicable Requirements**  
**S1401-CLAUS MODIFIED 3-STAGE SULFUR RECOVERY UNIT**  
**ABATED BY A1402 SCOT TAILGAS UNIT AND A1525 SRU STACK INCINERATORS**

<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 Condition 267</b>			
Part 1	SCOT Unit maintenance (basis: cumulative increase)	Y	
Part 2	Sulfur dioxide emission limit (basis: cumulative increase)	Y	
Part 3	Record keeping (basis: cumulative increase)	Y	
Part 4	Abate sulfur pit vent emissions by S-1411, Sulfuric Acid Plan or S-1401, Sulfur Recovery Unit. (Basis: cumulative increase)	Y	
Part 5	NSPS J applicability and SSM requirements for S-1401 (Basis: NSPS Subparts A and J, EPA Consent Decree paragraphs 221, 222, 224, 225, and 227)	Y	
<b>BAAQMD Condition 8077</b>			
Part B1	Definitions (basis: definitions)	Y	
Part B2	Emissions (basis: cumulative increase, BACT, offsets)	Y	
Part B3	Emission reductions (basis: cumulative increase, offsets, bubble	Y	
Part B5	Reporting and Record Keeping (cumulative increase, offsets)	Y	
Part B7	Combustion Controls (basis: cumulative increase, bubble, BACT, offsets)	Y	
Part B9	Sulfur Recovery Facilities (basis: cumulative increase, offsets)	Y	
Part B10	Access (cumulative increase, offsets)	Y	
Part B11	Enforcement (basis: cumulative increase, offsets)	Y	
Part B12	Miscellaneous (basis: cumulative increase, offsets)	Y	
Part B13	Severability (basis: cumulative increase, offsets)	Y	
Part B14	Environmental Management Plan (basis: cumulative increase, offsets)	Y	
<b>BAAQMD Condition 19528</b>			
Part 9	Annual SO3 and H2SO4 Source Test Requirement (basis: Regulation 6-1-330, Regulation 2-1-403, Regulation 2-6-503)	Y	
Part 9A	Source Test Results Reporting	Y	
<b>BAAQMD Condition 21053</b>			

## IV. Source-Specific Applicable Requirements

**Table IV – H.2**  
**Source-specific Applicable Requirements**  
**S1401-CLAUS MODIFIED 3-STAGE SULFUR RECOVERY UNIT**  
**ABATED BY A1402 SCOT TAILGAS UNIT AND A1525 SRU STACK INCINERATORS**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
Part 2	Monitoring to demonstrate compliance with 6-1-301 (Ringelmann 1 or 20% opacity) (basis: Regulation 6-1-301)	Y	

**Table IV – H.3**  
**Source-specific Applicable Requirements**  
**S1404-SULFUR STORAGE TANK**  
**ABATED BY A1422 SCRUBBER**

<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 6 Rule 1</b>	<b>Particulate Matter; General Requirements (12/05/2007)</b>		
6-1-301	Ringelmann Number 1 Limitation	N	
6-1-305	Visible Particles	N	
6-1-310	Particulate Weight Limitation	N	
6-1-311	General Operations (process weight rate limitation)	N	
6-1-401	Appearance of Emissions	N	
6-1-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions	N	
<b>SIP Regulation 6</b>	<b>Particulate Matter and Visible Emissions (09/04/1998)</b>		
6-301	Ringelmann Number 1 Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particulate Weight Limitation	Y	
6-311	General Operations (process weight rate limitation)	Y	
6-401	Appearance of Emissions	Y	
6-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions	Y	
<b>BAAQMD Condition 8535</b>			
Part 1	Particulate matter grain loading limitation (basis: cumulative increase)	Y	

## IV. Source-Specific Applicable Requirements

**Table IV – H.3**  
**Source-specific Applicable Requirements**  
**S1404-SULFUR STORAGE TANK**  
**ABATED BY A1422 SCRUBBER**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
Part 2	Requirement for particulate scrubber (basis: cumulative increase, Regulation 6-1-301)	Y	
Part 3	Requirement for pressure drop monitor and minimum pressure drop requirement (basis: cumulative increase)	Y	
<b>BAAQMD Condition 21053</b>			
Part 2	Monitoring to demonstrate compliance with 6-1-301 (Ringelmann 1 or 20% opacity) (basis: Regulation 6-1-301)	Y	

**Table IV – H.4**  
**Source-specific Applicable Requirements**  
**S1405-SULFUR COLLECTION PIT**  
**ABATED BY S1401 SRU OR S1411 SAP**

<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 6 Rule 1</b>	<b>Particulate Matter; General Requirements (12/5/2007)</b>		
6-1-301	Ringelmann Number 1 Limitation	N	
6-1-305	Visible Particles	N	
6-1-310	Particulate Weight Limitation	N	
6-1-311	General Operations (process weight rate limitation)	N	
6-1-401	Appearance of Emissions	N	
6-1-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions	N	
<b>SIP Regulation 6</b>	<b>Particulate Matter and Visible Emissions (9/4/1998)</b>		
6-301	Ringelmann Number 1 Limitation	Y	

## IV. Source-Specific Applicable Requirements

**Table IV – H.4**  
**Source-specific Applicable Requirements**  
**S1405-SULFUR COLLECTION PIT**  
**ABATED BY S1401 SRU OR S1411 SAP**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
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	
6-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions	Y	
<b>BAAQMD Condition 267</b>			
Part 4	S-1405 Abatement requirement (basis: cumulative increase)	Y	

## IV. Source-Specific Applicable Requirements

**Table IV – H.5**  
**Source-specific Applicable Requirements**  
**S1411-SULFURIC ACID MANUFACTURING PLANT (SAP)**

<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 1</b>	<b>General Provisions and Definitions (07/19/2006)</b>		
1-520	Continuous Emission Monitoring	Y	
1-520.3	SO <sub>2</sub> from Sulfuric Acid Plants	Y	
1-520.8	Monitors required by Regulations 10, 12 and 2-1-403	Y	
1-522	Continuous Emission Monitoring and Recordkeeping Requirements	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	
1-522.9	recordkeeping requirements	Y	
1-522.10	monitors required by Sections 1-521 or 2-1-403 shall meet the requirements specified by the APCO	Y	
1-523	Parametric Monitoring and Recordkeeping Procedures	N	
1-523.1	Report periods of parametric monitor inoperation	Y	
1-523.2	Limits on periods of parametric monitor inoperation	Y	
1-523.3	Report exceedances	N	
1-523.4	Recordkeeping	Y	
1-523.5	Maintenance and calibration; written policy	N	
1-602	Area and Continuous Emission Monitoring Requirements	N	
<b>SIP Regulation 1</b>	<b>General Provisions and Definitions (06/28/1999)</b>		
1-522	Continuous Emission Monitoring and Recordkeeping Requirements	Y	
1-522.7	Excesses	Y	
1-523	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.3	Report exceedances	Y	
<b>BAAQMD Regulation 6 Rule 1</b>	<b>Particulate Matter; General Requirements (12/05/2007)</b>		

## IV. Source-Specific Applicable Requirements

**Table IV – H.5**  
**Source-specific Applicable Requirements**  
**S1411-SULFURIC ACID MANUFACTURING PLANT (SAP)**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
6-1-301	Ringelmann Number 1 Limitation	N	
6-1-305	Visible Particles	N	
6-1-310	Particulate Weight Limitation	N	
6-1-311	General Operations	N	
6-1-320	Sulfuric Acid Manufacturing Plants	N	
6-1-401	Appearance of Emissions	N	
6-1-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions	N	
<b>SIP Regulation 6</b>	<b>Particulate Matter and Visible Emissions (09/04/1998)</b>		
6-301	Ringelmann Number 1 Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particulate Weight Limitation	Y	
6-311	General Operations	Y	
6-320	Sulfuric Acid Manufacturing Plants	Y	
6-401	Appearance of Emissions	Y	
6-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions	Y	
<b>BAAQMD Regulation 9 Rule 1</b>	<b>Inorganic Gases – Sulfur Dioxide (03/15/1995)</b>		
9-1-309	Emission Limitations for Sulfuric Acid Plants	Y	
9-1-502	Emission Monitoring Requirements	Y	
9-1-601	Sampling and Analysis of Gas Streams	Y	
9-1-603	Averaging Times	Y	
9-1-605	Emission Monitoring	Y	
<b>BAAQMD Regulation 12 Rule 6</b>	<b>Acid Mist from Sulfuric Acid Plants (12/6/78)</b>		
12-6-101	Applicability	N	
12-6-301	Acid Mist limit for sulfuric acid production unit	N	
12-6-501	Production Rate and Hours of Operation	N	
12-6-601	Testing Procedures	N	
<b>40 CFR 60 Subpart Cd</b>	<b>Emission Guidelines and Compliance Times for Sulfuric Acid Production Units (12/19/1995)</b>		

## IV. Source-Specific Applicable Requirements

**Table IV – H.5**  
**Source-specific Applicable Requirements**  
**S1411-SULFURIC ACID MANUFACTURING PLANT (SAP)**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
60.30d	Designated facilities – sulfuric acid production units	Y	
60.31d	Emissions guidelines – sulfuric acid production units	Y	
60.32d	Compliance times – sulfuric acid production units	Y	
<b>40 CFR 64</b>	<b>Compliance Assurance Monitoring (10/22/1997)</b>		
64.2(a)	General Applicability	Y	
64.2(a)(1)	General Applicability: Subject to an emission limitation or standard for regulated air pollutant	Y	
64.2(a)(2)	General Applicability: Uses a control device to achieve compliance with emission limitation	Y	
64.2(a)(3)	General Applicability: Has pre-control device potential to emit $\geq$ major source threshold	Y	
<b>BAAQMD Condition # 19528</b>			
Part 20	Annual SAM Source Test (Basis Regulation 6-1-330, Regulation 2-1-403, Regulation 2-6-503; 40 CFR 64)	Y	
Part 20A	Annual SAM Source Test Report (Basis Regulation 6-1-330, Regulation 2-1-403, Regulation 2-6-503; 40 CFR 64)	Y	
<b>BAAQMD Condition 21053</b>			
Part 2	Monitoring to demonstrate compliance with 6-1-301 (Ringelmann 1 or 20% opacity) (basis: Regulation 6-1-301)	Y	

## IV. Source-Specific Applicable Requirements

**Table IV – H.6  
 Source-specific Applicable Requirements  
 S1413-#1 Oleum Storage Tank, S1414-#2 Oleum Storage Tank**

<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 6 Rule 1</b>	<b>Particulate Matter; General Requirements (12/05/2007)</b>		
6-1-301	Ringelmann Number 1 Limitation	N	
6-1-305	Visible Particles	N	
6-1-401	Appearance of Emissions	N	
6-1-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions	N	
<b>SIP Regulation 6</b>	<b>Particulate Matter and Visible Emissions (09/04/1998)</b>		
6-301	Ringelmann Number 1 Limitation	Y	
6-305	Visible Particles	Y	
6-401	Appearance of Emissions	Y	
6-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions	Y	
<b>BAAQMD Regulation 12 Rule 10</b>	<b>Oleum Transfer Operations (08/03/1994)</b>		
12-10-101	Applicability	N	
12-10-301	Operating Requirements – Oleum Transfer Facility	N	
12-10-301.1	Operating Requirements – Oleum Transfer Procedure	N	
12-10-301.2	Operating Requirements – Qualified Operator	N	
12-10-301.3	Operating Requirements – Oleum Transfer Checklist	N	
12-10-302	Secondary Containment Requirements	N	
12-10-401	Oleum Transfer Procedure Requirements	N	
12-10-401.1	Oleum Transfer Procedure Requirements – procedures required to limit transfer emissions of H2SO4 and SO3 to <= 2 ppm as H2SO4, 10 consecutive minute average	N	
12-10-401.2	Oleum Transfer Procedure Requirements – step by step procedure	N	
12-10-401.3	Oleum Transfer Procedure Requirements – prevention measures to comply with 2 ppm limit	N	
12-10-401.4	Oleum Transfer Procedure Requirements – Oleum Transfer Checklist	N	
12-10-401.5	Oleum Transfer Procedure Requirements – Management of Change Procedure	N	
12-10-401.6	Oleum Transfer Procedure Requirements – Qualified Operator training program	N	



## IV. Source-Specific Applicable Requirements

**Table IV – H.6**  
**Source-specific Applicable Requirements**  
**S1413-#1 Oleum Storage Tank, S1414-#2 Oleum Storage Tank**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
12-10-401.7	Oleum Transfer Procedure Requirements – Owner/operator approval and signature	N	
12-10-401.8	Oleum Transfer Procedure Requirements – APCO approval	N	
12-10-501	Records – Oleum Transfer Checklist retention	N	

## IV. Source-Specific Applicable Requirements

**Table IV-H.7  
 Source-specific Applicable Requirements  
 S1415–LOADING DOCK (SULFURIC ACID),  
 ABATED BY A1404 (BRINKS 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>
<b>BAAQMD Regulation 6 Rule 1</b>	<b>Particulate Matter, General Requirements (12/5/2007)</b>		
6-1-301	Ringelmann Number 1 Limitation	N	
6-1-305	Visible Particles	N	
6-1-401	Appearance of Emissions	N	
6-1-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions	N	
<b>SIP Regulation 6</b>	<b>Particulate Matter and Visible Emissions (09/04/1998)</b>		
6-301	Ringelmann Number 1 Limitation	Y	
6-305	Visible Particles	Y	
6-401	Appearance of Emissions	Y	
6-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions	Y	
<b>BAAQMD Regulation 8, Rule 2</b>	<b>Organic Compounds -, Miscellaneous Operations (07/20/2005)</b>		
8-2-101	Description, Applicability	Y	
8-2-301	Miscellaneous Operations: emissions shall not exceed 15 lb/day and 300 ppm total carbon on a dry basis	Y	
8-2-601	Determination of Compliance	Y	
<b>BAAQMD Regulation 12 Rule 10</b>	<b>Oleum Transfer Operations (08/03/1995)</b>		
12-10-101	Description, Applicability	N	
12-10-301	Operating Requirements	N	
12-10-302	Secondary Containment Requirement	N	
12-10-401	Oleum Transfer Procedure Requirements	N	
12-10-501	Records	N	
<b>BAAQMD Condition 19528</b>			
Part 10	5 Year Source Test Requirement for POC and carbon concentration (basis: Regulation 8-2, Regulation 2-1-403, Regulation 2-6-503).	Y	
Part 10A	Source Test Results Reporting Requirement (basis: Regulation 2-1-403, Regulation 8-2, Regulation 2-6-503).	Y	

## IV. Source-Specific Applicable Requirements

### SECTION J - MISCELLANEOUS ORGANIC SOURCES (INCLUDING FUGITIVE COMPONENTS)

<b>Table IV- J.0 Fugitive Sources: Applicable Requirements</b>						
<b>Process Unit</b>	<b>BAAQMD Reg. 8-18 Note 8</b>	<b>40 CFR 60, Subpart GGG; 40 CFR 60, Subpart VV Note 4</b>	<b>40 CFR 60, Subpart GGGa; 40 CFR 60, Subpart VVa Note 4</b>	<b>40 CFR 61, Subpart FF; BAAQMD Reg. 11-12</b>	<b>40 CFR 61, Subpart J; 40 CFR 61, Subpart V; BAAQMD Reg. 11-7 Note 5, 6</b>	<b>40 CFR 63, Subpart CC 40 CFR 60, Subpart VV Note 7</b>
Sitewide – Remediation Hydrocarbon Recovery (S1452)	X					
Area 1 - Delayed Coker	X	X				X
Area 1 - Gas Plant #5	X					X
Area 2 - Cat Cracker	X					X
Area 2 - Gas Plant #4	X					X
Area 2 - Feed Prep #1	X					X
Area 2 - Feed Prep #2	X					X
Area 2 - Cracking Plat (DEA)	X					X
Area 2 - Foul Water	X					X
Area 2 - Flare Complex	X					X
Area 2 - FCCU (Boiler #7)	X					No <sup>2</sup>
Area 2 - Crude #3	X					X
Area 2 - Cracking Plat (Pump/Stor)	X					X
Area 3 - HDS Plant #2	X					X
Area 3 - HDS Plant #1	X					X
Area 3 - HCR 1 <sup>st</sup> Stage (HDN)	X					X
Area 3 - HCR 2 <sup>nd</sup> Stage (Hydrocracker)	X					X
Area 3 - Hydrogen Plant #1	X					X
Area 4 - Reformer #2	X				X	X
Area 4 - Isom #1	X					X
Area 4 - Gas Plant #1	X					No <sup>1</sup>
Area 4 - Clarifying	X					X

## IV. Source-Specific Applicable Requirements

<b>Table IV- J.0 Fugitive Sources: Applicable Requirements</b>						
<b>Process Unit</b>	<b>BAAQMD Reg. 8-18 Note 8</b>	<b>40 CFR 60, Subpart GGG; 40 CFR 60, Subpart VV Note 4</b>	<b>40 CFR 60, Subpart GGGa; 40 CFR 60, Subpart VVa Note 4</b>	<b>40 CFR 61, Subpart FF; BAAQMD Reg. 11-12</b>	<b>40 CFR 61, Subpart J; 40 CFR 61, Subpart V; BAAQMD Reg. 11-7 Note 5, 6</b>	<b>40 CFR 63, Subpart CC 40 CFR 60, Subpart VV Note 7</b>
Area 4 - Alkylation Plant	X					X
Area 4 - Reformer #3	X					X
Area 4 - HDS Plant #3	X					No <sup>2</sup>
Area 4 - Benzene Saturation	X	X			X	X
Area 5 - Boiler House #6	X					
Area 5 - API Separator	X					X
Area 5 - Fire Grounds	X					No <sup>2</sup>
Area 5 - Transportation	X					No <sup>2</sup>
Area 5 - Vehicle Gasoline Dispensing	X					No <sup>3</sup>
Area 6 - Avon Wharf, Berth 1	X					No <sup>1</sup>
Area 6 - Avon Wharf, Berth 5	X					X
Area 6 - Unit #50	X		X	X		X
Area 6 - Main Pump House #2	X					X
Area 6 - Amorco Wharf	X					X
Area 6 - Tract #3 LPG Shipping	X					No <sup>2</sup>
Area 6 - Tract #3 Booster Pump House	X					X
Area 6 - Tract #3 Shipping	X					X
Area 6 - Tract #6 (Gasoline Blending)	X					X
Area 6 - Tract #4 (LPG)	X					No <sup>2</sup>
Area 6 - Tract #3 (Gauger)	X					X
Area 6 - Tract #4 (Storage Tanks)	X					X
Area 6 - Tract #6 (Pump/Storage)	X					X
Area 7 - Chem Plant (Ammonia)	X					X

## IV. Source-Specific Applicable Requirements

<b>Table IV- J.0 Fugitive Sources: Applicable Requirements</b>						
<b>Process Unit</b>	<b>BAAQMD Reg. 8-18 Note 8</b>	<b>40 CFR 60, Subpart GGG; 40 CFR 60, Subpart VV Note 4</b>	<b>40 CFR 60, Subpart GGGa; 40 CFR 60, Subpart VVa Note 4</b>	<b>40 CFR 61, Subpart FF; BAAQMD Reg. 11-12</b>	<b>40 CFR 61, Subpart J; 40 CFR 61, Subpart V; BAAQMD Reg. 11-7 Note 5, 6</b>	<b>40 CFR 63, Subpart CC 40 CFR 60, Subpart VV Note 7</b>
Area 7 - Chem Plant (Sulfur & SCOT)	X					X <sup>3</sup>
Area 7 - Chem Plant (Acid)	X					X <sup>3</sup>
Area 7 - Chem Plant (DEA)	X					X <sup>3</sup>

Note 1 – Refinery MACT is not applicable to fuel gas systems or emission points routed to fuel gas systems{63.640 (d)(5)}.

Note 2 – HAPs expected to be < 4%.

Note 3 – Petroleum refining process units include sulfur plants {63.641, see definition of “petroleum refining process unit”}.

Note 4 – Provisions of 40 CFR 60 Subpart GGG and 40 CFR 60 Subpart GGGa only apply to affected facilities.

Note 5 – Provisions of 40 CFR 61 Subpart V only apply to connectors, surge control vessels, and bottoms receivers in benzene service as defined at 40 CFR 61.111 (40 CFR 61 Subpart J). Pumps, compressors, pressure relief devices, sampling connection systems, open-ended valves or lines, and valves in benzene service and control devices as defined at 40 CFR 61.111 are also equipment leaks subject to 40 CFR 63 Subpart CC (63.641 Definitions). These equipment leaks are subject to the overlap of Subpart CC with other regulations for equipment leaks in 63.640(p), which requires that equipment leaks subject to Subpart CC and also subject to any Subpart in Part 60 or Part 61 must comply with Subpart CC only.

Note 6 - Provisions of BAAQMD Regulation 11 Rule 7 only apply to pumps, compressors, pressure relief devices, sampling connection systems, open-ended valves or lines, valves, flange or other connectors, product accumulator vessels in benzene service and control devices as defined at Regulation 11-7-205.

Note 7 - Provisions only apply to affected facilities defined at 40 CFR 63.648 in organic hazardous air pollutant (HAP) service as defined at 40 CFR 63.641.

Note 8 - Applicability for BAAQMD Regulation 8, Rule 18 also applies to SIP Regulation 8, Rule 18.

## IV. Source-Specific Applicable Requirements

**Table IV – J.1**  
**Source Specific Applicable Requirements**  
**EQUIPMENT LEAK COMPONENTS, EXCLUDING WASTEWATER 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 (09/15/2004)</b>		
8-18-100	General/Applicability	Y	
8-18-110	Exemption, Controlled Seal Systems and Pressure Relief Devices	N	
8-18-113	Limited Exemption, Initial Boiling Point	Y	
8-18-115	Limited Exemption, Storage Tanks	Y	
8-18-116	Limited Exemption, Vacuum Service	Y	
8-18-200	Definitions	Y	
8-18-301	General Standard	Y	
8-18-302	Valves	N	
8-18-303	Pumps and compressors	N	
8-18-304	Connections	N	
8-18-304.1	Connection Leak Discovered by Operator	Y	
8-18-304.2	Connection Leak Discovered by APCO	N	
8-18-304.3	Connections Subject to 8-18-306	N	
8-18-305	Pressure relief devices	Y	
8-18-306	Non-repairable equipment	N	
8-18-306.1	Non-repairable Equipment	N	
8-18-306.2	Non-repairable Equipment	N	
8-18-306.3	Non-Repairable Connections Count as Two Valves	N	
8-18-306.4	Requirements for Valves with Major Leaks ( $\geq 10,000$ ppm)	N	
8-18-307	Liquid Leaks	Y	
8-18-308	Alternate compliance	Y	
8-18-401	Inspection	N	
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	
8-18-503	Reports	N	
8-18-601	Analysis of Samples	Y	
8-18-602	Inspection Procedure	Y	
8-18-603	Determination of Control Efficiency	N	

## IV. Source-Specific Applicable Requirements

**Table IV – J.1**  
**Source Specific Applicable Requirements**  
**EQUIPMENT LEAK COMPONENTS, EXCLUDING WASTEWATER COMPONENTS**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
8-18-604	Determination of Mass Emissions	N	
<b>SIP Regulation 8 Rule 18</b>	<b>Organic Compounds, Equipment Leaks (06/05/2003)</b>		
8-18-110	Exemption, Controlled Seal Systems and Pressure Relief Devices	Y	
8-18-302	Valves	Y	
8-18-303	Pumps and Compressors	Y	
8-18-304	Connections	Y	
8-18-304.2	Connection Leak Discovered by APCO	Y	
8-18-306	Non-repairable Equipment	Y	
8-18-306.1	Non-repairable Equipment	Y	
8-18-306.2	Non-repairable Equipment	Y	
8-18-401	Inspection	Y	
8-18-502	Records	Y	
8-18-603	Determination of Control Efficiency	Y	
8-18-604	Determination of Mass Emissions	Y	
<b>BAAQMD Regulation 10</b>	<b>Standards of Performance for New Stationary Sources incorporated by reference (02/16/2000)</b>		
10-52	Subpart VV - Standards of Performance for Equipment Leaks for SOCOMI (Fugitive Emission Sources) Applicability determined by 40 CFR 63 Subpart CC and 40 CFR 60 Subpart GGG		
10-59	Subpart GGG - Standards of Performance for Equipment Leaks for Petroleum Refineries (Fugitive Emission Sources)		
<b>BAAQMD Regulation 11 Rule 7</b>	<b>Hazardous Pollutants: Benzene (05/15/1985)</b>		
11-7-101	General/Applicability	N	
11-7-112	Exemption: Vacuum Service	N	
11-7-213	Leak Definition	N	
11-7-301	General: Equipment must be uniquely marked	N	
11-7-302	Pump Standards	N	
11-7-303	Compressor Standards	N	
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	
11-7-306.1	Open-Ended Valves or Lines	N	
11-7-306.2	Open-Ended Valves or Lines	N	
11-7-307	Valve Standards	N	

## IV. Source-Specific Applicable Requirements

**Table IV – J.1**  
**Source Specific Applicable Requirements**  
**EQUIPMENT LEAK COMPONENTS, EXCLUDING WASTEWATER COMPONENTS**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
11-7-307.1	Valve Standards	N	
11-7-307.2	Valve Standards	N	
11-7-307.3	Valve Standards	N	
11-7-307.4	Valve Standards	N	
11-7-307.5	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	
11-7-310.1	Delay of Repairs	N	
11-7-310.4	Delay of Repairs	N	
11-7-311	Closed Vent Systems and Control Device Standards	N	
11-7-312	Alternative Standards for Valves in Benzene Service	N	
11-7-314	Alternative Means of Emission Limitation	N	
11-7-401	Visually inspect pumps for liquid dripping weekly, except for “no detectable emissions” and pumps equipped with closed vent systems	N	
11-7-403	Reporting: semiannually for valves, pumps, and compressors	N	
11-7-501	Monitor pumps and valves, except for “no detectable emissions”	N	
11-7-502	Recordkeeping	N	
11-7-502.1.4	Records	N	
11-7-502.1.5	Records	N	
11-7-601	Monitoring shall be conducted as specified in 40 CFR 61 and the Manual of Procedures	N	
<b>40 CFR 60 Subpart VV;</b>	<b>Standards of Performance for Equipment Leaks for SOCMIs (Fugitive Emission Sources) ((06/02/2008))</b> <b>Referenced by 40 CFR 63 Subpart CC and 40 CFR 60 Subpart GGG</b>		
60.482-1	Standards: General	Y	
60.482-1(b)	Compliance with 60.482-1 to 60.482-10 will be determined....	Y	
60.482-1(d)	Equipment that is in vacuum service is excluded from the requirements of 60.482-2 to 60.482-10 if it is identified as required in 60.486(e)(5).	Y	
60.482-2	Standards: Pumps in light liquid service	Y	
60.482-2(a)(1)	Monthly monitoring of each pump, except for 60.482-2(d).	Y	
60.482-2(a)(2)	Weekly visual inspection of each pump.	Y	
60.482-2(b)(1)	Air measurement instrument reading >10,000 ppm indicates leak	Y	
60.482-2(b)(2)	Dripping liquid from pump seal indicates leak	Y	
60.482-2(c)(1)	Leak repaired within 15 calendar days, except as provided in 60.482-9.	Y	
60.482-2(c)(2)	First attempt at leak repair made within 5 calendar days.	Y	



## IV. Source-Specific Applicable Requirements

**Table IV – J.1**  
**Source Specific Applicable Requirements**  
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<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
60.482-2(d)	Pump with dual-mechanical seal system that includes barrier fluid system and meets specified requirements is exempt from 60.482-2(a).	Y	
60.482-2(g)	Pump designated, per 60.486(f)(1), as unsafe-to-monitor pump is exempt from 60.482-2(a) and (d)(4) through (d)(6) if hazard documented and written monitoring plan is followed.	Y	
60.482-3	Standards: Compressor	Y	
60.482-3(a)	Each compressor equipped with seal system that includes a barrier fluid system and prevents leakage of VOC to atmosphere.	Y	
60.482-3(b)	Each compressor seal system operated with barrier fluid at pressure greater than compressor stuffing box pressure; or equipped with system that purges barrier fluid into process stream with zero emissions to atmosphere.	Y	
60.482-3(c)	Barrier fluid system shall be in heavy liquid service.	Y	
60.482-3(d)	Each barrier fluid system equipped with sensor that detects failure of seal system, barrier fluid system or both.	Y	
60.482-3(e)(1)	Each sensor shall be checked daily or shall be equipped with an audible alarm.	Y	
60.482-3(e)(2)	Owner shall determine a criterion that indicates failure of seal system, barrier fluid system, or both.	Y	
60.482-3(f)	If sensor indicates failure based on criterion established in 60.482-3(e)(2), a leak is detected.	Y	
60.482-3(g)(1)	Leak shall be repaired within 15 calendar days, except as provided in 60.482-9.	Y	
60.482-3(g)(2)	First attempt at repair shall be made within 5 calendar days.	Y	
60.482-3(j)	Existing reciprocating compressor in a process unit that becomes an affected facility is exempt from 60.482-3(a) through (e) and (h) if recasting distance piece or replacing compressor are only options for compliance.	Y	
60.482-4	Standards: Pressure relief devices in gas/vapor service	Y	
60.482-4(a)	Except during pressure releases, pressure relief device shall be operated with no detectable emissions (< 500 ppm).	Y	
60.482-4(b)(1)	After each pressure release, pressure release device shall be returned to a condition of no detectable emissions within 5 calendar days after pressure release, except as provided in 60.482-9.	Y	
60.482-4(b)(2)	No later than 5 calendar days after pressure release, the pressure relief device shall be monitored to confirm no detectable emissions.	Y	

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**Table IV – J.1**  
**Source Specific Applicable Requirements**  
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<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
60.482-4(c)	Any pressure relief device that is routed to a process or fuel gas system or equipped with a closed vent system capable of capturing and transporting leakage to a control device as described in 60.482-10 is exempt from 60.482-4(a) and (b).	Y	
60.482-4(d)(1)	Any pressure relief device that is equipped with a rupture disk upstream of the pressure relief device is exempt from 60.482-4(a) and (b) provided complies with 60.482-4(d)(2).	Y	
60.482-4(d)(2)	After each pressure release, a new rupture disk shall be installed upstream of the pressure relief device as soon as practicable, but no later than 5 calendar days after each pressure release, except as provided in 60.482-9.	Y	
60.482-5	Standards: Sampling connecting systems	Y	
60.482-6	Standards: Open-ended valves or lines	Y	
60.482-7	Standards: Valves in gas/vapor service and in light liquid service	Y	
60.482-7(a)	Monitor monthly to detect leaks, except as provided in 60.482-7(g) and (h) and 60.483-2.	Y	
60.482-7(b)	Instrument reading >10,000 ppm indicates leak.	Y	
60.482-7(c)	Valve that does not have a detectable leak for 2 successive months, can be monitored the first month of every quarter.	Y	
60.482-7(d)(1)	Leak shall be repaired within 15 calendar days, except as provided in 60.482-9.	Y	
60.482-7(d)(2)	First attempt at leak repair shall be made within 5 calendar days.	Y	
60.482-7(e)	Methods for first attempt at repair.	Y	
60.482-7(g)	Valve designated, per 60.486(f)(1), as unsafe-to-monitor valve is exempt from 60.482-7(a) if hazard documented and written monitoring plan is followed.	Y	
60.482-7(h)	Valve designated, per 60.486(f)(1), as difficult-to-monitor valve is exempt from 60.482-7(a) if hazard documented, less than 3% of facility valves are designated and written plan with is followed that requires monitoring at least once per year.	Y	
60.482-8	Standards: Pumps and valves in heavy liquid service, pressure relief devices in light liquid or heavy liquid service, and flanges and other connectors.	Y	
60.482-8(a)	Monitor within 5 days if evidence of potential leak is found.	Y	
60.482-8(b)	Instrument reading >10,000 ppm indicates leak.	Y	
60.482-8(c)(1)	Leak shall be repaired within 15 calendar days, except as provided in 60.482-9.	Y	
60.482-8(c)(2)	First attempt at leak repair shall be made within 5 calendar days.	Y	

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**Source Specific Applicable Requirements**  
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<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
60.482-8(d)	Minimum requirements for first attempt at repair.	Y	
60.482-9	Standards: Delay of Repair		
60.482-9(a)	Delay allowed if repair is technically infeasible without a process unit shutdown and repair occurs before end of next process unit shutdown.	Y	
60.482-9(b)	Repair may be delayed for isolated equipment.	Y	
60.482-9(c)	Delay of repair for valves only allowed under certain circumstances.	Y	
60.482-9(d)(1)	Only dual-mechanical seal pumps qualify for delay of repair	Y	
60.482-9(d)(2)	Pump leaks must be repaired within 6 months.	Y	
60.482-9(e)	Delay of repair beyond process shutdown allowed if valve assembly replacement is required and other circumstances are met.	Y	
60.482-10(b)	Vapor recovery systems must recover VOC emissions by 95% or greater or to a concentration of 20ppmv, whichever is less stringent	Y	
60.482-10(c)	Enclosed combustion devices shall be designed and operated to reduce the VOC emissions by 95% or greater or to a concentration of 20ppmv, whichever is less stringent	Y	
60.482-10(e)	Monitoring of control devices	Y	
60.482-10(f)	Inspection requirements – vapor collection system or closed vent system	Y	
60.482-10(g)	First attempt at repairing leaks (> 500 ppmv) in 5 days. Repair must be completed within 15 days.	Y	
60.482-10(h)	Closed vent system delay of repair	Y	
60.482-10(i)	Vapor collection system or closed vent system operated at a vacuum is exempt from inspection requirements	Y	
60.482-10(j)	Unsafe to monitor closed vent systems	Y	
60.482-10(k)	Difficult to monitor closed vent systems	Y	
60.482-10(l)	Recordkeeping for inspections	Y	
60.482-10(m)	Closed vent system and control devices - Operate at all times	Y	
60.483-2	If a process unit has 5 consecutive quarters with <2% of valves leaking at >10,000 ppm, then any individual valve which measures <100 ppm for 5 consecutive quarters may be monitored annually.	Y	
60.485	Test Methods and Procedures	Y	
60.485(a)	Performance tests methods specified in Appendix A or 60.8(b)	Y	
60.485(b)	Method 21 for determining presence of leaking sources.	Y	
60.485(d)	Test each piece of equipment unless process unit not in VOC series.	Y	
60.485(e)	Light liquid service demonstrated by vapor pressure and if liquid at operating conditions.	Y	
60.485(f)	Samples representative of process fluid.	Y	
60.486	Record keeping Requirements	Y	
60.486(a)	Comply with recordkeeping requirements of this section.	Y	

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**Table IV – J.1**  
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<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
60.486(b)	Identification and tagging requirements for leaks detected as specified in 60.482-2, 60.482-3, 60.482-7, 60.482-8, and 60.483-2.	Y	
60.486(c)	When leak detected as specified in 60.482-2, 60.482-3, 60.482-7, 60.482-8, and 60.483-2, record in log and keep for 2 years.	Y	
60.486(d)	Information to be recorded pertaining to the design requirements for closed vent systems and control devices: designs, dates, monitoring parameters required in 60.486(e), non-operational plans, startup and shutdown dates.	Y	
60.486(e)	Information to be recorded for all equipment subject to requirements in 60.482-1 through 60.482-10.	Y	
60.486(f)	Record information pertaining to all valves subject to the requirements in 60.482-7(g) and (h).	Y	
60.486(g)	Record information pertaining to all valves subject to the requirements in 60.483-2.	Y	
60.486(h)	Record design criterion required in 60.482-2(d)(5) and 60.482-3(e)(2).	Y	
60.486(i)	Record information in log that is readily accessible for use in determining exemption as provided in 60.480(d).	Y	
60.486(j)	Records to demonstrate piece of equipment not in VOC service.	Y	
60.486(k)	Provisions of 60.7(b) and (d) do not apply if subject to VV.	Y	
60.487	Reporting Requirements	Y	
60.487(a)	Submit semiannual reports.	Y	
60.487(c)	Information to be included in semiannual reports.	Y	
60.487(e)	Report results of all performance tests in accordance with 60.8. The provisions of 60.8(d) do not apply to affected facilities subject to VV.	Y	
<b>40 CFR 60 Subpart VVa</b>	<b>Standards of Performance for Equipment Leaks for SO2MI (Fugitive Emission Sources) (06/02/2008)</b> <b>Referenced by 40 CFR 60 Subpart GGGa</b>		
60.482-1a	Standards: General	Y	
60.482-1a(b)	Compliance with 60.482-1a to 60.482-10a will be determined....	Y	
60.482-1a(d)	Equipment that is in vacuum service is excluded from the requirements of 60.482-2a to 60.482-10a if it is identified as required in 60.486a(e)(5).	Y	
60.482-2a	Standards: Pumps in light liquid service	Y	
60.482-2a(a)(1)	Monthly monitoring of each pump, except for 60.482-2a(d).	Y	
60.482-2a(a)(2)	Weekly visual inspection of each pump.	Y	
60.482-2a(b)(1)	Air measurement instrument reading >10,000 ppm indicates leak	Y	
60.482-2a(b)(2)	Dripping liquid from pump seal indicates leak	Y	
60.482-2a(c)(1)	Leak repaired within 15 calendar days, except as provided in 60.482-9.	Y	

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<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
60.482-2a(c)(2)	First attempt at leak repair made within 5 calendar days.	Y	
60.482-2a(d)	Pump with dual-mechanical seal system that includes barrier fluid system and meets specified requirements is exempt from 60.482-2a(a).	Y	
60.482-2a(g)	Pump designated, per 60.486a(f)(1), as unsafe-to-monitor pump is exempt from 60.482-2a(a) and (d)(4) through (d)(6) if hazard documented and written monitoring plan is followed.	Y	
60.482-2a(h)	Any pump located in an unmanned plant site is exempt from the requirements of 60.482-2a(a)(2), (d)(4) and (d)(5) provided each pump is visually inspected as often as practicable and at least monthly.	Y	
60.482-3a	Standards: Compressor	Y	
60.482-3a(a)	Each compressor equipped with seal system that includes a barrier fluid system and prevents leakage of VOC to atmosphere.	Y	
60.482-3a(b)	Each compressor seal system operated with barrier fluid at pressure greater than compressor stuffing box pressure; or equipped with system that purges barrier fluid into process stream with zero emissions to atmosphere.	Y	
60.482-3a(c)	Barrier fluid system shall be in heavy liquid service.	Y	
60.482-3a(d)	Each barrier fluid system equipped with sensor that detects failure of seal system, barrier fluid system or both.	Y	
60.482-3a(e)(1)	Each sensor shall be checked daily or shall be equipped with an audible alarm.	Y	
60.482-3a(e)(2)	Owner shall determine a criterion that indicates failure of seal system, barrier fluid system, or both.	Y	
60.482-3a(f)	If sensor indicates failure based on criterion established in 60.482-3a(e)(2), a leak is detected.	Y	
60.482-3a(g)(1)	Leak shall be repaired within 15 calendar days, except as provided in 60.482-9a.	Y	
60.482-3a(g)(2)	First attempt at repair shall be made within 5 calendar days.	Y	
60.482-3a(j)	Existing reciprocating compressor in a process unit that becomes an affected facility is exempt from 60.482-3a(a) through (e) and (h) if recasting distance piece or replacing compressor are only options for compliance.	Y	
60.482-4a	Standards: Pressure relief devices in gas/vapor service	Y	
60.482-4a(a)	Except during pressure releases, pressure relief device shall be operated with no detectable emissions (< 500 ppm).	Y	
60.482-4a(b)(1)	After each pressure release, pressure release device shall be returned to a condition of no detectable emissions within 5 calendar days after pressure release, except as provided in 60.482-9a.	Y	

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<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
60.482-4a(b)(2)	No later than 5 calendar days after pressure release, the pressure relief device shall be monitored to confirm no detectable emissions.	Y	
60.482-4a(c)	Any pressure relief device that is routed to a process or fuel gas system or equipped with a closed vent system capable of capturing and transporting leakage to a control device as described in 60.482-10a is exempt from 60.482-4a(a) and (b).	Y	
60.482-4a(d)(1)	Any pressure relief device that is equipped with a rupture disk upstream of the pressure relief device is exempt from 60.482-4a(a) and (b) provided complies with 60.482-4a(d)(2).	Y	
60.482-4a(d)(2)	After each pressure release, a new rupture disk shall be installed upstream of the pressure relief device as soon as practicable, but no later than 5 calendar days after each pressure release, except as provided in 60.482-9a.	Y	
60.482-5a	Standards: Sampling connecting systems	Y	
60.482-6a	Standards: Open-ended valves or lines	Y	
60.482-7a	Standards: Valves in gas/vapor service and in light liquid service	Y	
60.482-7a(a)	Monitor monthly to detect leaks, except as provided in 60.482-7a(g) and (h) and 60.483-2a.	Y	
60.482-7a(b)	Instrument reading >10,000 ppm indicates leak.	Y	
60.482-7a(c)	Valve that does not have a detectable leak for 2 successive months, can be monitored the first month of every quarter.	Y	
60.482-7a(d)(1)	Leak shall be repaired within 15 calendar days, except as provided in 60.482-9a.	Y	
60.482-7a(d)(2)	First attempt at leak repair shall be made within 5 calendar days.	Y	
60.482-7a(e)	Methods for first attempt at repair.	Y	
60.482-7a(g)	Valve designated, per 60.486a(f)(1), as unsafe-to-monitor valve is exempt from 60.482-7a(a) if hazard documented and written monitoring plan is followed.	Y	
60.482-7a(h)	Valve designated, per 60.486a(f)(1), as difficult-to-monitor valve is exempt from 60.482-7a(a) if hazard documented, less than 3% of facility valves are designated and written plan with is followed that requires monitoring at least once per year.	Y	
60.482-8a	Standards: Pumps and valves in heavy liquid service, pressure relief devices in light liquid or heavy liquid service, and flanges and other connectors.	Y	
60.482-8a(a)	Monitor within 5 days if evidence of potential leak is found.	Y	
60.482-8a(b)	Instrument reading >10,000 ppm indicates leak.	Y	

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<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
60.482-8a(c)(1)	Leak shall be repaired within 15 calendar days, except as provided in 60.482-9a.	Y	
60.482-8a(c)(2)	First attempt at leak repair shall be made within 5 calendar days.	Y	
60.482-8a(d)	Minimum requirements for first attempt at repair.	Y	
60.482-9a	Standards: Delay of Repair		
60.482-9a(a)	Delay allowed if repair is technically infeasible without a process unit shutdown and repair occurs before end of next process unit shutdown.	Y	
60.482-9a(b)	Repair may be delayed for isolated equipment.	Y	
60.482-9a(c)	Delay of repair for valves only allowed under certain circumstances.	Y	
60.482-9a(d)(1)	Only dual-mechanical seal pumps qualify for delay of repair	Y	
60.482-9a(d)(2)	Pump leaks must be repaired within 6 months.	Y	
60.482-9a(e)	Delay of repair beyond process shutdown allowed if valve assembly replacement is required and other circumstances are met.	Y	
60.482-10a(b)	Vapor recovery systems must recover VOC emissions by 95% or greater or to a concentration of 20ppmv, whichever is less stringent	Y	
60.482-10a(c)	Enclosed combustion devices shall be designed and operated to reduce the VOC emissions by 95% or greater or to a concentration of 20ppmv, whichever is less stringent	Y	
60.482-10a(e)	Monitoring of control devices	Y	
60.482-10a(g)	First attempt at repairing leaks (> 500 ppmv) in 5 days. Repair must be completed within 15 days.	Y	
60.483-2a	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	
60.485a	Test Methods and Procedures	Y	
60.485a(a)	Performance tests methods specified in Appendix A or 60.8(b)	Y	
60.485a(b)	Method 21 for determining presence of leaking sources.	Y	
60.485a(d)	Test each piece of equipment unless process unit not in VOC series.	Y	
60.485a(e)	Light liquid service demonstrated by vapor pressure and if liquid at operating conditions.	Y	
60.485a(f)	Samples representative of process fluid.	Y	
60.486a	Record keeping Requirements	Y	
60.486a(a)	Comply with recordkeeping requirements of this section.	Y	
60.486a(b)	Identification and tagging requirements for leaks detected as specified in 60.482-2a, 60.482-3a, 60.482-7a, 60.482-8a, and 60.483-2a.	Y	
60.486a(c)	When leak detected as specified in 60.482-2a, 60.482-3a, 60.482-7a, 60.482-8a, and 60.483-2a, record in log and keep for 2 years.	Y	

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60.486a(d)	Information to be recorded pertaining to the design requirements for closed vent systems and control devices: designs, dates, monitoring parameters required in 60.486a(e), non-operational plans, startup and shutdown dates.	Y	
60.486a(e)	Information to be recorded for all equipment subject to requirements in 60.482-1a through 60.482-10a.	Y	
60.486a(f)	Record information pertaining to all valves subject to the requirements in 60.482-7a(g) and (h).	Y	
60.486a(g)	Record information pertaining to all valves subject to the requirements in 60.483-2a.	Y	
60.486a(h)	Record design criterion required in 60.482-2a(d)(5) and 60.482-3a(e)(2).	Y	
60.486a(i)	Record information in log that is readily accessible for use in determining exemption as provided in 60.480a(d).	Y	
60.486a(j)	Records to demonstrate piece of equipment not in VOC service.	Y	
60.486a(k)	Provisions of 60.7(b) and (d) do not apply if subject to VVa.	Y	
60.487a	Reporting Requirements	Y	
60.487a(a)	Submit semiannual reports.	Y	
60.487a(c)	Information to be included in semiannual reports.	Y	
60.487a(e)	Report results of all performance tests in accordance with 60.8. The provisions of 60.8(d) do not apply to affected facilities subject to VVa.	Y	
<b>40 CFR 60 Subpart GGG</b>	<b>Standards of Performance for Equipment Leaks of VOC in Petroleum Refineries for which Construction, Reconstruction, or Modification Commenced After 1/4/1983 and on or Before 11/7/2006 (06/02/2008);</b>		
60.590	Applicability and designation of affected facility	Y	
60.590(a)(1)	Applicability and designation of affected facility; petroleum refineries	Y	
60.590(a)(2)	Applicability and designation of affected facility; petroleum refineries - compressors	Y	
60.590(a)(3)	Applicability and designation of affected facility; petroleum refineries – all equipment within a process unit	Y	
60.590(b)	Applicability and designation of affected facility; petroleum refineries – applicable dates	Y	
60.590(c)	Applicability and designation of affected facility; petroleum refineries – limit of definition of modification	Y	
60.590(e)	Applicability and designation of affected facility; petroleum refineries – stay of standards; definition of process unit	Y	
60.591	Definitions	Y	
60.592	Standards	Y	



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<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
60.592(a)	Standards: Comply with 40 CFR 60 Subpart VV [60.482-1 thru 60.482-10]	Y	
60.592(b)	Standards; Alternatives to 60.482-7 for valves	Y	
60.592(c)	Standards; Allowance for determination of equivalency	Y	
60.592(d)	Standards; Comply with 60.485 in Subpart VV except as provided in 60.593	Y	
60.592(e)	Standards; Comply with 60.486 and 60.487 for recordkeeping and reporting	Y	
60.593	Exceptions	Y	
60.593(a)	Exceptions; Allowable exceptions to the provisions of subpart VV	Y	
60.593(b)(1)	Exceptions; Exemption for compressors in hydrogen service	Y	
60.593(b)(2)	Exceptions; Determination of hydrogen service - methods	Y	
60.593(b)(3)(i)	Exceptions; Determination of hydrogen service – engineering judgment	Y	
60.593(b)(3)(ii)	Exceptions; Determination of hydrogen service - revisions	Y	
60.593(c)	Exceptions; Exemption for existing reciprocating compressor that becomes an affected facility	Y	
60.593(d)	Exceptions; additional definition of “in light liquid service”	Y	
60.593(f)	Exceptions; open-ended valves or lines containing asphalt	Y	
<b>40 CFR 60 Subpart GGGa</b>	<b>Standards of Performance for Equipment Leaks of VOC in Petroleum Refineries for which Construction, Reconstruction, or Modification Commenced After 11/7/2006 (06/02/2008)</b>		
60.590a	Applicability and designation of affected facility	Y	
60.590a(a)(1)	Applicability and designation of affected facility; petroleum refineries	Y	
60.590a(a)(2)	Applicability and designation of affected facility; petroleum refineries - compressors	Y	
60.590a(a)(3)	Applicability and designation of affected facility; petroleum refineries – all equipment within a process unit	Y	
60.590a(b)	Applicability and designation of affected facility; petroleum refineries – applicable dates	Y	
60.590a(c)	Applicability and designation of affected facility; petroleum refineries – limit of definition of modification	Y	
60.590a(e)	Applicability and designation of affected facility; petroleum refineries – stay of standards; definition of process unit	Y	
60.591a	Definitions	Y	
60.592a	Standards	Y	
60.592a(a)	Standards: Comply with 40 CFR 60 Subpart VVa [60.482-1a thru 60.482-10a]	Y	
60.592a(b)	Standards; Alternatives to 60.482-7a for valves	Y	

## IV. Source-Specific Applicable Requirements

**Table IV – J.1**  
**Source Specific Applicable Requirements**  
**EQUIPMENT LEAK COMPONENTS, EXCLUDING WASTEWATER COMPONENTS**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
60.592a(c)	Standards; Allowance for determination of equivalency	Y	
60.592a(d)	Standards; Comply with 60.485a in Subpart VVa except as provided in 60.593a	Y	
60.592a(e)	Standards; Comply with 60.486a and 60.487a for recordkeeping and reporting	Y	
60.593a	Exceptions	Y	
60.593a(a)	Exceptions; Allowable exceptions to the provisions of subpart VVa	Y	
60.593a(b)(1)	Exceptions; Exemption for compressors in hydrogen service	Y	
60.593a(b)(2)	Exceptions; Determination of hydrogen service - methods	Y	
60.593a(b)(3)(i)	Exceptions; Determination of hydrogen service – engineering judgment	Y	
60.593a(b)(3)(ii)	Exceptions; Determination of hydrogen service - revisions	Y	
60.593a(c)	Exceptions; Exemption for existing reciprocating compressor that becomes an affected facility	Y	
60.593a(d)	Exceptions; additional definition of “in light liquid service”	Y	
60.593a(f)	Exceptions; open-ended valves or lines containing asphalt	Y	
60.593a(g)	Exceptions; connectors in gas/vapor or light liquid service	Y	
<b>40 CFR 61 Subpart J</b>	<b>NESHAPS for Equipment Leaks (Fugitive Emission Sources) of Benzene (12/14/2000)</b> <b>Applicability limited to component types not also subject to 40 CFR 63 Subpart CC by 40 CFR 63 Subpart CC overlap in 63.640(p)</b>		
61.110	Applicability and designation of sources	Y	
61.110(a)	Applicability and designation of sources; definition of sources [pumps, compressors, pressure relief devices, sampling connection systems, open-ended valves or lines, valves, connectors, surge control vessels, bottoms receivers, and control devices or systems required by this subpart]	Y	
61.110(c)(1)	Applicability and designation of sources; Exemptions; Keep records per 61.246(i)	Y	
61.110(c)(3)	Applicability and designation of sources; Exemptions – process units with no equipment in benzene service	Y	
61.110(d)	Applicability and designation of sources; Overlap with 40 CFR Part 60 (comply with 40 CFR 61 Subpart J)	Y	
61.111	Definitions	Y	
61.112	Standards	Y	
61.112(a)	Standards; Comply with 40 CFR 61 Subpart V	Y	
61.112(b)	Standards; Alternative compliance for valves	Y	
61.112(c)	Standards; Allowance for alternative means of emission limitation	Y	

## IV. Source-Specific Applicable Requirements

**Table IV – J.1**  
**Source Specific Applicable Requirements**  
**EQUIPMENT LEAK COMPONENTS, EXCLUDING WASTEWATER COMPONENTS**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
<b>40 CFR 61 Subpart V</b>	<b>NESHAPS for Equipment Leaks (Fugitive Emission Sources) (12/14/2000)</b>  <b>Referenced by 40 CFR 61 Subpart J. Applicability limited to component types specified in 40 CFR 61 Subpart J and not also subject to 40 CFR 63 Subpart CC by 40 CFR 63 Subpart CC overlap in 63.640(p)</b>		
61.240	Applicability and designation of sources	Y	
61.240(a)	Applicability and designation of sources: VHAP service	Y	
61.240(b)	Applicability and designation of sources: applicability depends on referencing subpart	Y	
61.240(c)	Applicability and designation of sources: Overlap with Part 60	Y	
61.240(d)	Applicability: VHAP service; Alternative means of compliance	Y	
61.240(d)(4)	Applicability: VHAP service; Alternative means of compliance; rules referencing this subpart	Y	
61.241	Definitions	Y	
61.242-1	Standards: General	Y	
61.242-1(a)	Standards: General; comply with 61.242-1 thru 61.242-11 for new and existing sources except as provided in 61.243 and 61.244	Y	
61.242-1(b)	Standards: General; Determination of compliance	Y	
61.242-1(c)(1)	Standards: General; Allowance for alternative means of emission limitation	Y	
61.242-1(d)	Standards: General; Identification requirements	Y	
61.242-1(e)	Standards: General; Exemption for equipment in vacuum service	Y	
61.242-8	Standards: Connectors	Y	
61.242-8(a)	Standards: Connectors; procedures if evidence of leak is found (visual, audible, olfactory, or other method)	Y	
61.242-8(a)(1)	Standards: Connectors; procedures if evidence of leak is found; monitor within 5 days by Method 21	Y	
61.242-8(a)(2)	Standards: Connectors; procedures if evidence of leak is found; eliminate indication of leak	Y	
61.242-8(b)	Standards: Connectors; definition of Method 21 leak (> 10,000 ppm)	Y	
61.242-8(c)(1)	Standards: Connectors; leak repair and delay of repair	Y	
61.242-8(c)(2)	Standards: Connectors; leak repair – time for first attempt	Y	
61.242-8(d)	Standards: Connectors; leak repair – methods for first attempt	Y	

## IV. Source-Specific Applicable Requirements

**Table IV – J.1**  
**Source Specific Applicable Requirements**  
**EQUIPMENT LEAK COMPONENTS, EXCLUDING WASTEWATER COMPONENTS**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
61.242-9	Standards: surge control vessels and bottoms receivers: If not routed back to the process and if meets conditions in Table 1 or Table 2, then equip with a closed-vent system and route to process or to control device as described in 61.242-11 or approved alternative or comply with 63.119(b) and (c)	Y	
61.242-10	Standards: Delay of repair	Y	
61.242-10(a)	Standards: Delay of repair; allowed if technically infeasible within 15 days without process unit shutdown	Y	
61.242-10(b)	Standards: Delay of repair; isolated equipment	Y	
61.242-10(e)	Standards: Delay of repair; requirements to complete repairs	Y	
61.244	Alternative means of emission limitation	Y	
61.242-11	Requirements for Closed-vent systems and control devices	Y	
61.242-11(c)	Vapor recovery systems must recover VOC emissions by 95% or greater or to a concentration of 20ppmv, whichever is less stringent	Y	
61.245	Test Methods and Procedures	Y	
61.245(b)	Test Methods and Procedures; Method 21 monitoring	Y	
61.245(d)	Test Methods and Procedures; determination of VHAP service	Y	
61.246	Recordkeeping requirements	Y	
61.246(a)	Recordkeeping requirements; compliance required	Y	
61.246(b)	Recordkeeping requirements; identification of leaking components	Y	
61.246(c)	Recordkeeping requirements; records for leaking components	Y	
61.246(e)	Recordkeeping requirements; records for affected equipment	Y	
61.246(i)	Recordkeeping requirements; records for exempt process units	Y	
61.247	Reporting	Y	
<b>40 CFR 63 Subpart CC</b>	<b>NESHAPS for Source Categories - Petroleum Refineries (06/23/2003)</b>		
63.640(a)	Applicability	Y	
63.640(c)(4)	Applicability; equipment leaks	Y	
63.640(p)	Overlap of Subpart CC with other regulations for equipment leaks. Equipment leaks that are also subject to the provisions of 40 CFR parts 60 and 61 are required to comply only with the provisions specified in this subpart.	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(a)(1)	Equipment Leak Standards--Existing sources: 40 CFR 60 Subpart VV applies only to organic HAP service.	Y	
63.648(f)	Equipment Leak Standards--Reciprocating pumps in light liquid service	Y	

## IV. Source-Specific Applicable Requirements

**Table IV – J.1**  
**Source Specific Applicable Requirements**  
**EQUIPMENT LEAK COMPONENTS, EXCLUDING WASTEWATER COMPONENTS**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
63.648(g)	Equipment Leak Standards--Compressors in hydrogen service	Y	
63.648(h)	Equipment Leak Standards--Record retention	Y	
63.654(d)	Recordkeeping and reporting	Y	
<b>BAAQMD Condition 11609</b>	<b>Apply to specific pumps vented to A14</b>		
Part B6A	100 ppm limit for Alkylation Unit pumps vented to A14	Y	
<b>BAAQMD Condition 19199</b>			
Part A5	100 ppm limit for pumps installed as part of Logistical Improvements for Application 2508 (basis: BACT, Reg 8-18)	Y	
Part B5	100 ppm limit for pumps installed as part of Flare Gas Recovery Compressor Installation of Application 2508 (basis: BACT, Reg 8-18)	Y	
Part C5	100 ppm limit for pumps installed as part of the S802 FCCU (No. 4 Gas Plant) FCCU Naphtha Splitter installation of Application 2508 (basis: BACT, Reg 8-18)	Y	
Part G5	100 ppm limit for pumps installed as part of the S1105 No. 4 HDS installation of Application 2508 (basis: BACT, Reg 8-18)	Y	

## IV. Source-Specific Applicable Requirements

**Table IV –J.2**  
**Source-specific Applicable Requirements**  
**ATMOSPHERIC PRESSURE RELIEF DEVICES SUBJECT TO BAAQMD 8-28**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<b>BAAQMD Regulation 8 Rule 28</b>	<b>Organic Compounds - Episodic Releases from Pressure Relief Devices at Petroleum Refineries and Chemical Plants (12/21/2005)</b>		
8-28-101	Description, applicability	N	
8-28-111	Exemption, Evaporation Point	N	
8-28-112	Exemption, Storage Tanks	Y	
8-28-115	Exemption, Thermal Relief Valves	N	
8-28-302	Pressure Relief Devices at New or Modified Sources at Petroleum Refineries	N	
8-28-303	Existing Pressure Relief Devices Petroleum Refineries	N	
8-28-303.1	Existing Pressure Relief Devices Petroleum Refineries; OPTION – vent to vapor recovery or disposal system with 95% of more control efficiency	N	
8-28-303.2	Existing Pressure Relief Devices Petroleum Refineries; OPTION – implement Process Safety Requirements (8-28-405)	N	
8-28-304	Repeat Release - Pressure Relief Devices at Petroleum Refineries	N	
8-28-304.1	Repeat Release - Pressure Relief Devices at Petroleum Refineries; requirements after first release	N	
8-28-304.2	Repeat Release - Pressure Relief Devices at Petroleum Refineries; requirements after second release	N	
8-28-401	Reporting at Petroleum Refineries and Chemical Plants	N	
8-28-402	Inspection	N	
8-28-402.1	Inspection; daily inspection of PRDs with telltale indicators	N	
8-28-402.2	Inspection; after release, inspect within 5 working days for compliance with Regulation 8, Rule 18. Report per 8-28.401.9	N	
8-28-404	Identification	N	
8-28-405	Process Safety Requirements	N	
8-28-406	Monitoring System Demonstration Report	N	
8-28-407	Process Unit Identification Report	N	
8-28-502	Records	N	
8-28-502.1	Records; Prevention Measure Records	N	
8-28-502.2	Records; PRD records	N	
8-28-502.3	Records; Telltale indicator daily inspection records	N	
8-28-502.4	Records; PRD monitoring records	N	
8-28-503	Monitoring; monitoring system requirements	N	
8-28-602	Determination of Control Efficiency	N	

## IV. Source-Specific Applicable Requirements

**Table IV –J.2**  
**Source-specific Applicable Requirements**  
**ATMOSPHERIC PRESSURE RELIEF DEVICES SUBJECT TO BAAQMD 8-28**

<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 28</b>	<b>Organic Compounds - Episodic Releases from Pressure Relief Devices (05/24/2004)</b>		
8-28-101	Description, applicability	Y	
8-28-111	Exemption, Evaporation Point (302 F); includes exemption for thermal relief valves	Y	
8-28-303	Pressure Relief Devices at Existing Sources at Petroleum Refineries	Y	
8-28-303.1	Pressure Relief Devices at Existing Sources at Petroleum Refineries; OPTION – vent to vapor recovery or disposal system with 95% of more control efficiency	Y	
8-28-303.2	Pressure Relief Devices at Existing Sources at Petroleum Refineries; OPTION – implement Prevention Measure Procedures (SIP 8-28-405)	Y	
8-28-304	Repeat Release - Pressure Relief Devices at Petroleum Refineries	Y	
8-28-304.1	Repeat Release - Pressure Relief Devices at Petroleum Refineries; requirements after first release	Y	
8-28-304.2	Repeat Release - Pressure Relief Devices at Petroleum Refineries; requirements after second release	Y	
8-28-401	Reporting at Petroleum Refineries and Chemical Plants	Y	
8-28-402	Inspection; after release, inspect within 5 working days for compliance with Regulation 8, Rule 18. Report per 8-28.401.9	Y	
8-28-403	Records	Y	
8-28-404	Identification	Y	
8-28-405	Prevention Measures Procedures	Y	
8-28-602	Determination of Control Efficiency	Y	

## IV. Source-Specific Applicable Requirements

**Table IV –J.3**

**Deleted. All Blowdown Towers Removed from Hydrocarbon Service**  
**Source-specific Applicable Requirements**  
**S804–FCCU: BLOWDOWN , S807–COKER: BLOWDOWN DRUM,**  
**S822-THERMAL AREA BLOWDOWN,**  
**S834–No. 50 CRUDE UNIT BLOWDOWN DRUM**

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

**Table IV –J.4**

**Source-specific Applicable Requirements**  
**S823–HEAT EXCHANGER CLEANING PIT NORTH,**  
**S824–HEAT EXCHANGER CLEANING PIT SOUTH**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<b>BAAQMD Regulation 6 Rule 1</b>	<b>Particulate Matter; General Requirements (12/05/2007)</b>		
6-1-301	Ringelmann Number 1 Limitation	N	
6-1-303	Ringelmann Number 2 Limitation	N	
6-1-305	Visible Particles	N	
6-1-310	Particulate Weight Limitation	N	
6-1-311	General Operations	N	
6-1-401	Appearance of Emissions	N	
6-1-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions	N	
<b>SIP Regulation 6</b>	<b>Particulate Matter and Visible Emissions (09/04/1998)</b>		
6-301	Ringelmann Number 1 Limitation	Y	
6-303	Ringelmann Number 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	
6-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions	Y	



#### IV. Source-Specific Applicable Requirements

**Table IV –J.4**  
**Source-specific Applicable Requirements**  
**S823–HEAT EXCHANGER CLEANING PIT NORTH,**  
**S824–HEAT EXCHANGER CLEANING PIT SOUTH**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<b>BAAQMD Regulation 8 Rule 2</b>	<b>Organic Compounds - Miscellaneous Operations (07/20/2005)</b>		
8-2-101	Description, Applicability	Y	
8-2-301	Miscellaneous Operations: emissions shall not exceed 15 lb/day and 300 ppm total carbon on a dry basis	Y	
8-2-601	Determination of Compliance	Y	
<b>BAAQMD Condition 22227</b>			
Part 1	Visible emission check (basis: Regulation 2-6-409.2)	Y	
Part 2	Records (basis: Regulation 2-6-409.2)	Y	

**Table IV – J.5**  
**Source-specific Applicable Requirements**  
**S1543, S1544, S1545, S1546, S1547, S1548**  
**MAINTENANCE SHOPS EXEMPT COLD CLEANERS**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<b>BAAQMD Regulation 8 Rule 16</b>	<b>Organic Compounds – Solvent Cleaning Operations (10/16/2002)</b>		
8-16-114	Exemption, Emulsion or Solution Cleaners exempt from Regulation 8-16	Y	
8-16-118	Limited Exemption, Compounds with Low Volatility	Y	
8-16-118.2	Limited Exemption, Compounds with Low Volatility; Cold Cleaners exempt from 8-16-303.4	Y	
8-16-124	Limited Exemption, Low VOC Cleaning Operations – No 8-16-501 records required for 8-16-303.5.1 Cold Cleaners	Y	
8-16-303	Cold Cleaner Requirements	Y	

## IV. Source-Specific Applicable Requirements

**Table IV – J.5**  
**Source-specific Applicable Requirements**

**S1543, S1544, S1545, S1546, S1547, S1548**  
**MAINTENANCE SHOPS EXEMPT COLD CLEANERS**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
8-16-303.1	Cold Cleaner Requirements; General Operating Requirements	Y	
8-16-303.2	Cold Cleaner Requirements; Cold Cleaner Operating Requirements	Y	
8-16-303.3	Cold Cleaner Requirements; General Equipment Requirements	Y	
8-16-303.5	Cold Cleaner Requirements; Repair and Maintenance Cleaning Requirements	Y	
8-16-303.5.1	Cold Cleaner Requirements; Repair and Maintenance Cleaning Requirements; VOC content <= 50 g/l	Y	
8-16-303.5.2	Cold Cleaner Requirements; Repair and Maintenance Cleaning Requirements; VMS cleaning solution - VMS	Y	
8-16-303.5.3	Cold Cleaner Requirements; Repair and Maintenance Cleaning Requirements; VOC content <= 50 g/l in non-VMS portion	Y	
8-16-502	Burden of Proof	Y	

**Table IV – J.6**  
**Source-specific Applicable Requirements**  
**S590-DEA FLASH DRUM**

<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 Condition # 7405</b>			
Part 1	Completed. Fugitive emissions limit adjusted to 14,1 lb/day	Y	
Part 2	Deleted. (Redundant with Regulation 8, Rule 18)		
Part 3	Deleted. (Redundant with Regulation 8, Rule 28)		

## IV. Source-Specific Applicable Requirements

**Table IV – J.7**  
**Source-specific Applicable Requirements**  
**S825-DEA REGENERATOR, S856–SPARE DEA STRIPPER**

<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 2</b>	<b>Organic Compounds, Miscellaneous Operations (7/20/2005)</b>	Y	
8-2-101	Description, Applicability	Y	
8-2-301	Miscellaneous Operations: emissions shall not exceed 15 lb/day and 300 ppm total carbon on a dry basis	Y	
8-2-601	Determination of Compliance	Y	

## IV. Source-Specific Applicable Requirements

### SECTION K - ABATEMENT

**Table IV – K.1**  
**Source-specific Applicable Requirements**  
**A39 API/DNF THERMAL OXIDIZER**  
**ABATES S819 AND S1026**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<b>BAAQMD Regulation 6 Rule 1</b>	<b>Particulate Matter; General Requirements (12/05/2007)</b>		
6-1-301	Ringelmann Number 1 Limitation	N	
6-1-305	Visible Particles	N	
6-1-310	Particulate Weight Limitation	N	
6-1-310.3	Heat transfer operations	N	
6-1-401	Appearance of Emissions	N	
6-1-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions	N	
<b>SIP Regulation 6</b>	<b>Particulate Matter and Visible Emissions (09/04/1998)</b>		
6-301	Ringelmann Number 1 Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particulate Weight Limitation	Y	
6-310.3	Heat transfer operations	Y	
6-401	Appearance of Emissions	Y	
6-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions	Y	
<b>BAAQMD Regulation 8 Rule 8</b>	<b>Organic Compounds – Wastewater Collection and Separation Systems (09/14/2004)</b>		
8-8-101	Description, applicability	N	
8-8-302	Wastewater separators larger than or equal to 18.9 liters per second (300 gal/min) (S-819 - OWS)	Y	
8-8-302.3	Vapor-tight fixed cover with organic compound vapor recovery with collection and destruction of at least 95% by weight (S-819 - OWS)	N	
8-8-302.6	Inspect Roof seals, fixed covers, access doors, and other openings semiannually to verify vapor tight (S-819 - OWS)	N	
8-8-307	Air flotation unit greater than 25.2 liters per second (400 gal/min) (S-819 – DNF System)	Y	
8-8-307.2	Organic vapor recovery system with a combined collection and destruction efficiency of at least 70% by weight. (S-819 – DNF System)	N	

## IV. Source-Specific Applicable Requirements

**Table IV – K.1**  
**Source-specific Applicable Requirements**  
**A39 API/DNF THERMAL OXIDIZER**  
**ABATES S819 AND S1026**

<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 8</b>	<b>Organic Compounds - Wastewater (Oil-Water) Separators (08/29/1994)</b>		
8-8-101	Description, applicability	Y	
8-8-302.3	Vapor-tight fixed cover with organic compound vapor recovery with collection and destruction of at least 95% by weight. (S-819 OWS)	Y	
8-8-307.2	Organic vapor recovery system with a combined collection and destruction efficiency of at least 70% by weight. (S-819 DNF System)	Y	
<b>NSPS Title 40 Part 60 Subpart J</b>	<b>NSPS Subpart J for Petroleum Refineries (08/17/1989)</b>		
40 CFR 60.100(a)	Applicability: Claus Sulfur Recovery Plants, FCCU Catalyst Regenerators at Refineries and Fuel Gas Combustion Devices and Fuel Gas Combustion Devices of Refineries	Y	
40 CFR 60.100(b)	Applicability: Constructed/modified after 6/11/1973	Y	
40 CFR 60.101(d)	Fuel Gas Definition: Excludes vapors that are collected and combusted to comply with the wastewater provisions in §60.692		
<b>40 CFR 60 Subpart QQQ</b>	<b>NSPS - Standards of Performance for VOC Emissions from Petroleum Refinery Wastewater Systems (10/17/2000)</b> <b>Requirements for Control Devices</b>		
60.690	Applicability and designation of affected facility	Y	
60.690(a)(1)	Affected facilities located in petroleum refineries; construction, modification, or reconstruction commenced after May 4, 1987	Y	
60.690(a)(4)	An aggregate facility is a separate affected facility [individual drain system together with ancillary downstream sewer lines and oil-water separators, down to and including the secondary oil-water separator, as applicable]	Y	
60.691	Definitions	Y	
60.692-1	Standards: General	Y	
60.692-1(a)	Standards: General; Comply except during periods of startup, shutdown, or malfunction	Y	
60.692-1(b)	Standards: General; Determination of compliance	Y	
60.692-1(c)	Standards: General; Alternative means of compliance	Y	
60.692-1(d)	Standards: General; Exemptions	Y	
60.692-3	Standards: Oil-water separators.	Y	
60.692-3(a)	Standards: Oil-water separators; Fixed roof required	Y	

## IV. Source-Specific Applicable Requirements

**Table IV – K.1**  
**Source-specific Applicable Requirements**  
**A39 API/DNF THERMAL OXIDIZER**  
**ABATES S819 AND S1026**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
60.692-3(a)(2)	Standards: Oil-water separators; Fixed roof requirements; if vapor space under fixed roof is purged, must purge to control device	Y	
60.692-3(b)	Standards: Oil-water separators over 250 gpm shall be equipped and operate with a closed vent system and control device which meets the requirements of 60.692-5.	Y	
60.692-4	Standards: Aggregate facility	Y	
60.692-5	Standards: Closed vent systems and control devices	Y	
60.692-5(a)	Standards: Closed vent systems and control devices; enclosed combustion devices must provide 95% abatement of VOCs or meet residence time and minimum operating temperature (0.75 seconds at 1500 F) (applies to A39 thermal oxidizer)	Y	
60.692-5(d)	Standards: Closed vent systems and control devices; operate at all times	Y	
60.692-5(e)(1)	Standards: Closed vent systems and control devices; no detectable emissions	Y	
60.692-5(e)(2)	Standards: Closed vent systems and control devices; purge closed vent system to control device	Y	
60.692-5(e)(3)	Standards: Closed vent systems and control devices; flow indicator required on vent stream to control device	Y	
60.692-5(e)(4)	Standards: Closed vent systems and control devices; sampling and gauging devices gas tight	Y	
60.692-5(e)(5)	Standards: Closed vent systems and control devices; detectable emissions – first efforts at repair	Y	
60.692-6	Standards: Delay of Repair	Y	
60.692-6(a)	Standards: Delay of repair; Allowances for delay or repair	Y	
60.692-6(b)	Standards: Delay of repair; Complete repairs before end of next refinery or process unit shutdown	Y	
60.695	Monitoring of Operations	Y	
60.695(a)	Monitoring of Operations; control device monitoring requirements	Y	
60.695(a)(1)	Monitoring of Operations; control device monitoring requirements – thermal oxidizer temperature monitoring device [applies to A39]	Y	
60.696	Performance test methods and procedures and compliance provisions	Y	
60.696(a)	Performance test methods and procedures and compliance provisions; initial inspection	Y	
60.696(b)	Performance test methods and procedures and compliance provisions; measure no detectable emissions with Method 21 and exemption from 60.8	Y	
60.697	Recordkeeping requirements	Y	

## IV. Source-Specific Applicable Requirements

**Table IV – K.1**  
**Source-specific Applicable Requirements**  
**A39 API/DNF THERMAL OXIDIZER**  
**ABATES S819 AND S1026**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
60.697(a)	Recordkeeping requirements; retention	Y	
60.697(d)	Recordkeeping requirements; closed vent system inspection records	Y	
60.697(e)(1)	Recordkeeping requirements; delay of repair - expected date of repair	Y	
60.697(e)(2)	Recordkeeping requirements; delay of repair – reason for delay	Y	
60.697(e)(3)	Recordkeeping requirements; delay of repair – signature of delay of repair decision maker [owner/operator/designee]	Y	
60.697(e)(4)	Recordkeeping requirements; delay of repair - actual date of repair	Y	
60.697(f)(1)	Recordkeeping requirements; design specifications – retain for life of equipment	Y	
60.697(f)(2)	Recordkeeping requirements; design specifications – information required	Y	
60.697(f)(3)	Recordkeeping requirements; closed vent system records	Y	
60.697(f)(3) (i)	Recordkeeping requirements; closed vent system records; control efficiency demonstration	Y	
60.697(f)(3) (iii)	Recordkeeping requirements; closed vent system records; periods when not operated as designed	Y	
60.697(f)(3) (iv)	Recordkeeping requirements; closed vent system records; startup and shutdown of control device	Y	
60.697(f)(3) (v)	Recordkeeping requirements; no detectable emissions records	Y	
60.697(f)(3) (vi)	Recordkeeping requirements; no detectable emissions records	Y	
60.697(f)(3) (vii)	Recordkeeping requirements; no detectable emissions records	Y	
60.697(f)(3) (viii)	Recordkeeping requirements; control device; thermal oxidizer	Y	
60.698	Reporting requirements	Y	
60.698(b)(1)	Reporting requirements; semiannual certification of required inspections	Y	
60.698(d)	Reporting requirements; semiannual report	Y	
60.698(d)(1)	Reporting requirements; semiannual report; thermal oxidizer combustion zone temperature more than 50 F below design [applies to A39]	Y	
<b>40 CFR 63 Subpart CC</b>	<b>NESHAPS for Source Categories - Petroleum Refineries (06/23/2003) Requirements for Group 2 wastewater streams</b>		
63.640(a)	Applicability	Y	
63.640(c)(3)	Applicability – wastewater streams associated with petroleum refining process units	Y	
63.640(o)(1)	Group 2 Wastewater stream to comply with the provisions of 40 CFR part 60, subpart QQQ.	Y	

#### IV. Source-Specific Applicable Requirements

**Table IV – K.1**  
**Source-specific Applicable Requirements**  
**A39 API/DNF THERMAL OXIDIZER**  
**ABATES S819 AND S1026**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.641	Definitions	Y	
<b>BAAQMD Condition 7406</b>			
Part A1	S-819 Enclosure requirement and abatement requirement (basis: Regulation 8-8, BACT, offsets, toxics, cumulative increase)	Y	
Part B1	Requirement to cover and abate S-819 DNF outlet channel to S-1026 and A-39 (basis: Regulation 8-8, BACT, offsets, toxics, cumulative increase)	Y	
Part B2	Requirement for S-1026 air stripper compressor interlock with air sweep fans and A39 thermal incinerator (basis: Regulation 8-8, BACT, offsets, toxics, cumulative increase)	Y	
Part B5.A	A39 Non-methane hydrocarbon emissions shall not exceed 10 ppm on a rolling one hour average basis (basis: BACT, offsets, cumulative increase)	Y	
Part B7	A39 H2S emissions shall not exceed 1 ppm. (basis: toxics)	Y	
Part B10	A39 Minimum temperature (basis: cumulative increase, offsets, toxics)	Y	
Part B11	A39 Install, maintain, and operate continuous temperature monitor/recorder (Basis: BACT, offsets, cumulative increase)	Y	
Part B12	Recordkeeping (basis: cumulative increase, BACT, offsets, toxics)	Y	

**Table IV – K.2**  
**Source-specific Applicable Requirements**  
**A40 TRACT 6 ELECTRIC THERMAL OXIDIZER,**  
**A42 HYDROCRACKER ELECTRIC THERMAL OXIDIZER,**  
**A43 TRACT 3 ELECTRIC THERMAL OXIDIZER PUMP SEAL THERMAL OXIDIZERS**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<b>BAAQMD Regulation 6 Rule 1</b>	<b>Particulate Matter; General Requirements (12/05/2007)</b>		
6-1-301	Ringelmann Number 1 Limitation	N	
6-1-305	Visible Particles	N	
6-1-310	Particulate Weight Limitation	N	
6-1-310.3	Heat Transfer Operations	N	



## IV. Source-Specific Applicable Requirements

**Table IV – K.2**  
**Source-specific Applicable Requirements**  
**A40 TRACT 6 ELECTRIC THERMAL OXIDIZER,**  
**A42 HYDROCRACKER ELECTRIC THERMAL OXIDIZER,**  
**A43 TRACT 3 ELECTRIC THERMAL OXIDIZER PUMP SEAL THERMAL OXIDIZERS**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
6-1-401	Appearance of Emissions	N	
6-1-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions	N	
<b>SIP Regulation 6</b>	<b>Particulate Matter and Visible Emissions (09/04/1998)</b>		
6-301	Ringelmann Number 1 Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particulate Weight Limitation	Y	
6-310.3	Heat Transfer Operations	Y	
6-401	Appearance of Emissions	Y	
6-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions	Y	
<b>BAAQMD Regulation 12 Rule 11</b>	<b>Flare Monitoring at Petroleum Refineries (06/04/2003)</b>		
12-11-113	Exemption, Pumps	N	
<b>BAAQMD Regulation 12 Rule 12</b>	<b>Flares at Petroleum Refineries (04/05/2006)</b>		
12-12-113	Exemption, Pumps	N	
<b>BAAQMD Manual of Procedures, Volume V</b>	<b>Continuous Emission Monitoring Policy and Procedures (01/20/1982)</b>	N	
<b>40 CFR 60 Subpart J</b>	<b>Standards of Performance for Petroleum Refineries (06/24/2008) ()</b>		
60.100(a)	Applicability: FCCU Catalyst Regenerators, Fuel Gas Combustion Devices, and Claus Sulfur Recovery Plants (20 TPD)	Y	
60.100(b)	Applicability: Constructed/reconstructed/modified after 6/11/1973 and before and before May 14, 2007	Y	
60.104	Standards for Sulfur Oxides	Y	

## IV. Source-Specific Applicable Requirements

**Table IV – K.2**  
**Source-specific Applicable Requirements**  
**A40 TRACT 6 ELECTRIC THERMAL OXIDIZER,**  
**A42 HYDROCRACKER ELECTRIC THERMAL OXIDIZER,**  
**A43 TRACT 3 ELECTRIC THERMAL OXIDIZER PUMP SEAL THERMAL OXIDIZERS**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.104(a)(1)	Limit on hydrogen sulfide content in fuel gas burned in fuel gas combustion devices: Exemption from fuel gas H <sub>2</sub> S concentration limit for the combustion in a flare of process upset gases or fuel gas that is released to the flare as a result of relief valve leakage 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 (a)(4)(iv)	Exemption from 60.105 (a)(3) or (a)(4) for fuel gas streams that are exempt under §60.104(a)(1) and fuel gas streams that are inherently low in sulfur content per 60.105(a)(4)(iv)(A) through (D). On loss of exemption, monitoring per 60.105(a)(3) or (4) must begin within 15 days of the change.	Y	
60.105 (a)(4)(iv)(B)	Fuel gas streams that meet a commercial-grade product specification for sulfur content of 30 ppmv or less are considered to be inherently low in sulfur.	Y	
60.107	Reporting and recordkeeping requirements	Y	
60.107(e)	Keep records of the specific 60.105(a)(4)(iv) exemption chosen for each fuel gas stream. Keep copy of the application for the exemption described in §60.105(a)(4)(iv)(D), as well as the letter from the Administrator granting approval of the application.	Y	
<b>BAAQMD Condition 11609</b>	<b>Section A applies to A40 only</b> <b>Section C applies to A42 only</b> <b>Section D applies to A43 only</b>		
Part A1	A-40 only: Minimum VOC destruction efficiency of 95% by weight, minimum 0.5 second residence time, and minimum operating temperature of 1400F	Y	
Part A2	A-40 only: Shall have a continuous temperature monitor. Each pump duct shall have a flow indicator (basis: cumulative increase, toxics).	Y	
Part A4	A-40 only: Shall provide BAAQMD with 7 days notice of connecting/removing a pump to A-40. Total number of pumps connected to A-40 not to exceed 20.	Y	

## IV. Source-Specific Applicable Requirements

**Table IV – K.2**  
**Source-specific Applicable Requirements**  
**A40 TRACT 6 ELECTRIC THERMAL OXIDIZER,**  
**A42 HYDROCRACKER ELECTRIC THERMAL OXIDIZER,**  
**A43 TRACT 3 ELECTRIC THERMAL OXIDIZER PUMP SEAL THERMAL OXIDIZERS**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
Part A5	A-40 only: Shall record date and time pump seal vapors are abated by A-40. Monitor twice daily and record operating temperature of A-40.	Y	
Part C1	A-42 only: Minimum VOC destruction efficiency of 95% by weight, minimum 0.5 second residence time, and minimum operating temperature of 1400F.	Y	
Part C2	A-42 only: Shall have a continuous temperature monitor. Each pump duct shall have a flow indicator (basis: cumulative increase, offsets).	Y	
Part C4	A-42 only: Shall provide BAAQMD with 7 days notice of connecting/removing a pump to A-42. Total number of pumps connected to A-42 not to exceed 20.	Y	
Part C5	A-42 only: Shall record date and time pump seal vapors are abated by A-42. Monitor twice daily and record operating temperature of A-42.	Y	
Part D1	A-43 only: Minimum VOC destruction efficiency of 95% by weight, minimum 0.5 second residence time, and minimum operating temperature of 1400F.	Y	
Part D2	A-43 only: Shall have a continuous temperature monitor. Each pump duct shall have a flow indicator (basis: cumulative increase, offsets).	Y	
Part D4	A-43 only: Shall provide BAAQMD with 7 days notice of connecting/removing a pump to A-43. Total number of pumps connected to A-43 not to exceed 20.	Y	
Part D5	A-43 only: Shall record date and time pump seal vapors are abated by A-43. Monitor twice daily and record operating temperature of A-43.	Y	

## IV. Source-Specific Applicable Requirements

### SECTION L -REMEDIATION

**Table IV – L.1**  
**Source-specific Applicable Requirements**  
**S1452GROUNDWATER HYDROCARBON RECOVERY SYSTEM WITH 47 OIL/WATER WELLS, AND ASSOCIATED**  
**PUMPS (39 LIGHT HYDROCARBON AND 8 HEAVY HYDROCARBON PUMPS), VALVES, AND FLANGES**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<b>40 CFR 63 Subpart GGGGG</b>	<b>NESHAPS for Source Categories - Site Remediation (11/29/2006)</b>		
63.7880	Purpose: Establish emission limitations and work practice standards for HAPs from site remediation activities and requirements for initial and continuous compliance demonstrations	Y	
63.7882	Applicability: Affected sources	Y	
63.7882(a)	Applicability: Affected sources; new, reconstructed, or existing sources	Y	
63.7882(a)(3)	Affected source: Remediation material management units – (i.e., tank, surface impoundment, container, OWS, or transfer system to manage remediation material). Tanks or containers with vents are process vents	Y	
63.7882(a)(3)	Affected Source: Equipment leaks – (pumps, valves, etc used to manage remediation materials and meeting both of the following conditions)	Y	
63.7882(a)(3)(i)	Equipment leaks in components containing or contacting remediation material with concentration of HAP >= 10% by weight	Y	
63.7882(a)(3)(ii)	Equipment leaks in components operated more than 300 hours in calendar year	Y	
63.7882(b)	Affected sources: Existing sources commenced construction or reconstruction before July 30, 2002	Y	
63.7882(c)	Affected sources: New sources commenced construction or reconstruction on or after July 30, 2002	Y	
63.7883	Compliance Schedule	Y	
63.7883(a)	Compliance Schedule: Existing sources	Y	
63.7883(b)	Compliance Schedule: New sources (non-radioactive)	Y	
63.7883(e)	Compliance Schedule: Notification requirements	Y	
63.7884	General Standards	Y	
63.7884(a)	General Standards – comply with 63.7885 through 63.7955 as they apply to the affected sources	Y	
63.7886	Remediation Material Management Units – General Standards	Y	
63.7886(a)	Select option and meet requirements of option selected	Y	
63.7886(b)	Options	Y	
63.7886(b)(1)	Option 1: Control HAP emissions by specific requirements for remediation management unit type	Y	

## IV. Source-Specific Applicable Requirements

**Table IV – L.1**  
**Source-specific Applicable Requirements**

**S1452GROUNDWATER HYDROCARBON RECOVERY SYSTEM WITH 47 OIL/WATER WELLS, AND ASSOCIATED PUMPS (39 LIGHT HYDROCARBON AND 8 HEAVY HYDROCARBON PUMPS), VALVES, AND FLANGES**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
63.7886(b)(1)(v)	Option 1: Control HAP emissions for transfer system	Y	
63.7886(b)(2)	Option 2: Determine that average VOHAP concentration of remediation material is less than 500 ppmw.	Y	
63.7886(b)(3)	Option 3: For remediation management units subject to another 40 CFR 61 or 40 CFR 63 Subpart, comply with the other subpart unless the unit is exempt from the other subpart	Y	
63.7886(d)	Remediation Material Management Units – General Standards: Exemption for management units if total annual HAP is less than 1 Mg/yr	Y	
63.7886(d)(1)	Designate exempt units and submit written notification	Y	
63.7886(d)(2)	Prepare initial determination of total annual HAP in exempt units and maintain documentation	Y	
63.7887	Equipment Leaks – General Requirements	Y	
63.7887(a)	Option 1: Implement LDAR as specified in 63.7920 through 63.7922	Y	
63.7887(b)	Option 2: For equipment leaks subject to another 40 CFR 61 or 40 CFR 63 Subpart, comply with the other subpart unless the equipment leak is exempt from the other subpart	Y	
63.7915	Transfer system emission limitations and work practice standards	Y	
63.7915(a)	Transfer system - comply with requirements for specific system	Y	
63.7915(c)	Transfer system – requirements for systems other than individual drain systems	Y	
63.7915(c)(2)	Continuous hard piping system – joints or seams must be permanently or semi-permanently sealed (welded or bolted/gasketed)	Y	
63.7916	Transfer system – Initial Compliance	Y	
63.7916(a)	Transfer system – Initial Compliance - comply with requirements for specific system	Y	
63.7916(d)	Transfer system – continuous hard piping – initial compliance by certifying (d)(1) and (d)(2)	Y	
63.7916(d)(1)	Certify installation of hard piped transfer system and have records	Y	
63.7916(d)(2)	Certify initial inspection of entire hard piped transfer system and have records	Y	
63.7917	Transfer Systems – Inspection and Monitoring Requirements	Y	
63.7917(c)	Transfer system – continuous hard piping – annual inspection of unburied portion for leaks and defects.	Y	
63.7917(e)	Transfer system – continuous hard piping – repair of defects	Y	

## IV. Source-Specific Applicable Requirements

**Table IV – L.1**  
**Source-specific Applicable Requirements**  
**S1452GROUNDWATER HYDROCARBON RECOVERY SYSTEM WITH 47 OIL/WATER WELLS, AND ASSOCIATED**  
**PUMPS (39 LIGHT HYDROCARBON AND 8 HEAVY HYDROCARBON PUMPS), VALVES, AND FLANGES**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
63.7917(e)(1)	First attempt at repairs	Y	
63.7917(e)(2)	Delay of repair	Y	
63.7917(e)(3)	Records – delay of repair	Y	
63.7918	Transfer system – Continuous Compliance	Y	
63.7918(a)	Transfer system – Continuous Compliance - comply with requirements for specific system	Y	
63.7918(d)	Transfer system – continuous hard piping – continuous compliance	Y	
63.7918(d)(1)	Operation and maintenance	Y	
63.7918(d)(2)	Annual inspection	Y	
63.7918(d)(3)	Repair of defects	Y	
63.7918(d)(4)	Records of compliance	Y	
63.7935	General Compliance Requirements	Y	
63.7935(a)	Comply at all times except during periods of startup, shutdown, and malfunction	Y	
63.7935(b)	Comply with 63.6(e)(1)(i)	Y	
63.7935(c)	Develop a written SSMP per 63.6(e)(3)	Y	
63.7935(e)	Report each non-compliance (deviation) including startup, shutdown, and malfunction	Y	
63.7935(f)	Demonstration of compliance with SSMP for deviations during startup, shutdown, and malfunction	Y	
63.7936	Requirements to transfer remediation material off-site to another facility	Y	
63.7937	General Standards – Initial Compliance	Y	
63.7938	General Standards – Continuous Compliance	Y	
63.7940	Initial Compliance Demonstrations – Compliance Schedule	Y	
63.7940(b)	Requirements for existing sources without performance tests or design evaluations	Y	
63.7940(c)	Requirements for new sources	Y	
63.7941	Initial Compliance Demonstration - Methods	Y	
63.7941(a)	Initial Compliance Demonstration – comply with applicable methods for affected sources	Y	
63.7941(g)	Requirements for visual inspections of affected sources	Y	
63.7943	Method to determine average VOHAP concentration in remediation material	Y	

## IV. Source-Specific Applicable Requirements

**Table IV – L.1**  
**Source-specific Applicable Requirements**  
**S1452GROUNDWATER HYDROCARBON RECOVERY SYSTEM WITH 47 OIL/WATER WELLS, AND ASSOCIATED**  
**PUMPS (39 LIGHT HYDROCARBON AND 8 HEAVY HYDROCARBON PUMPS), VALVES, AND FLANGES**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
63.7944	Method to determine maximum HAP vapor pressure of remediation material	Y	
63.7950	Notification, Reports and Records	Y	
63.7950(a)	Submit notifications required in 63 Subpart A as required	Y	
63.7950(b)	Initial Notification compliance date (past due)	Y	
63.7951	Reports	Y	
63.7951(a)	Reports: Compliance report due dates	Y	
63.7951(b)	Reports: Compliance report contents	Y	
63.7951(c)	Reports: Immediate SSM report	Y	
63.7951(d)	Reports: Title V deviation reporting requirements	Y	
63.7952	Recordkeeping	Y	
63.7952(a)	Records required	Y	
63.7952(a)(1)	Records required: Copies of notifications and reports	Y	
63.7952(a)(2)	Records required: SSM records	Y	
63.7952(a)(4)	Records required: Applicability determinations for exemptions	Y	
63.7952(c)	Records: Continuous compliance demonstration records for all applicable requirements	Y	
63.7953	Record retention	Y	
63.7953(a)	Record retention: Format	Y	
63.7953(b)	Record retention: 5 years	Y	
63.7953(c)	Record retention: 2 years on site; 3 years off-site	Y	
63.7953(d)	Record retention: Offsite for completed remediations or when no longer the owner	Y	
63.7955	Applicability of General Provisions 40 CFR 63 Subpart A	Y	
63.7956	Implementation and Enforcement	Y	
63.7957	Definitions	Y	
<b>BAAQMD Condition 9875</b>			
Part 6	Throughput limit of 5,000,000 bbl/yr (basis: cumulative increase, offsets)	Y	

## **V. SCHEDULE OF COMPLIANCE**

### **A. Standard Schedule of Compliance**

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



## VI. PERMIT CONDITIONS

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

### Condition 267

S1401 Sulfur Recovery Unit  
S1405 Sulfur Collection Pit

Application 14374(September 2006)– Sulfur Pit Vent (S1405) reroute and abatement requirements

Application 15949 (May 2007): Add EPA Consent Decree requirements (Case No. SA-05-CA-0569-RF: United States of America v. Valero Refining Company – California, et. al.).

Modified by Application 16798 (November 2007). Added Part 4b.

Application 17913 (May 2009). Delete S1420 (which is part of A1402 SCOT Unit)

1. Permittee/Owner/Operator shall ensure that the SCOT unit is scheduled for maintenance to coincide with the turnaround of either the Coker or the FCCU. (basis: cumulative increase)
2. Permittee/Owner/Operator shall ensure that the sulfur dioxide (SO<sub>2</sub>) emission rate does not exceed 4 lb/ton of sulfur processed. (basis: cumulative increase)
3. In a District approved log, Permittee/Owner/Operator shall record daily SO<sub>2</sub> emissions and sulfur production on a monthly basis. The District approved log shall retained on site for not less than 5 years from date of last entry and it shall be made available to the District staff upon request. (basis: cumulative increase)
- 4a. Permittee/Owner/Operator shall abate the Sulfur Collection Pit (S-1405) by either the Sulfuric Acid Plant (SAP) (S-1411) or the Sulfur Recovery Unit (SRU) (S-1401) whenever S-1405 is being filled with sulfur or when S-1401 is in operation. (basis: cumulative increase)
- 4b. Until April 1, 2008, if S-1411 is shutdown, the Owner/Operator may temporarily route S-1405 emissions to the S-1401 SRU stack. During this temporary operation, all S-1405 emissions must be included in the S-1401

## VI. Permit Conditions

emissions that are monitored for SO<sub>2</sub> emissions compliance with NSPS Subpart J. (Basis: EPA consent decree, paragraph 226)

5. The S-1401 Sulfur Recovery Unit is an “affected facility” under 40 CFR 60 Subpart J. The owner/operator shall comply with all applicable provisions of 40 CFR 60 Subparts A and J for Sulfur Recovery Units and shall monitor and report in accordance with 40 CFR 60.7, 60.13, and 60.105 for all emission points (stacks) to the atmosphere for tail gas emissions except during periods of startup, shutdown or malfunction of the S-1401 Sulfur Recovery Unit or during malfunction of the A-1402 SCOT tail gas unit/incinerator. (Basis: NSPS Subparts A and J, EPA Consent Decree paragraphs 221, 222, 224, 225, and 227)

### Condition 677

S937 Hydrogen Plant Heater

Administratively Revised via Application 19647 (March 2009) Consolidation of Bubble Condition 4357 with Condition 8077

Administratively Revised by Application 19874 (July 2009) Updates for Combustion Sources

1. Permittee/Owner/Operator shall ensure that the mass emissions of nitrogen oxides (NO<sub>x</sub>), calculated as NO<sub>2</sub>, from furnace, S-937 do not exceed 1430 lb/stream day or 1089 lb/calendar day. (basis: cumulative increase, Bubble Condition 4357/8077 via Application 19647)
2. Permittee/Owner/Operator shall install, calibrate, maintain and operate nitrogen oxides and oxygen analyzers in accordance with the District's Manual of Procedures.  
(basis: cumulative increase, Bubble Condition 4357/8077 via Application 19647)
3. Deleted. (Recordkeeping requirements of Regulation 9-10-504 are more stringent.)

## VI. Permit Conditions

### Condition 878

S100 Avon Wharf Loading Berth No. 1

1. When calculating hydrocarbon emissions from vessel or barge loading, the Permittee/Owner/Operator shall use the emission factors presented in condition number 5 of condition ID #878. (basis: cumulative increase)
2. Permittee/Owner/Operator shall install and maintain a Pressure Recorder/Controller in the vapor recovery system to provide a permanent record of pressure during the loading of vessels. These records shall be maintained for a minimum of 5 years. (basis: cumulative increase)
3. Not less frequently than every six months, Permittee/Owner/Operator shall conduct tests to assess leakage from all relief valves that vent to atmosphere in the marine vapor recovery system on a semi-annual basis.

Permittee/Owner/Operator shall ensure that the testing and record keeping are done in compliance with Regulation 8, Rule 18.

(basis: cumulative increase, Regulation 8-18)

4. If leakage is detected during the loading of a vessel, or if the vapor recovery system is shutdown for any period of time during loading, or if a relief valve in the recovery system vents to atmosphere during loading, Permittee/Owner/Operator shall use the "Non-Vapor Recovery" emission factors in condition number 5 of condition ID #878 to calculate emissions from the entire loading operation. Credit for vapor recovery may be given for a portion of a vessel loading operation, provided that Permittee/Owner/Operator can provide documentation to the satisfaction of the APCO that credit is appropriate, as determined by the APCO.  
(basis: cumulative increase)
5. DATA FOR DETERMINING EMISSIONS FROM MARINE ACTIVITY

Described herein are the following lists of fuel usage rates and emission factors for calculating marine activity emissions

- Part B-1 Tanker Fuel Usage Rates
- Part B-2 Diesel Fuel Used During Barge Unloading
- Part B-3 Tug Usages

## VI. Permit Conditions

Part B-4 Fuel Combustion Emission Factors

Part B-5 Hydrocarbon Emissions from Onloading of Crude Oil, Ballast or Products

The methodology, assumptions, and procedures to be used in calculating the emissions shall be consistent with those set forth in Permittee/Owner/Operator's submittal entitled, "Procedures for Determining Emissions from Marine Activity," dated 10/30/81.

Calculated emissions shall be reported in units of short tons (2,000 lbs avoirdupois) rounded to three (3) significant figures.

### PART B-1: TANKER FUEL RATES

Tanker (A) Deadweight Tonnage Oil/Diesel (10000 tons)	(B) Main Engine Type	(C) Engine Fuel Type	(D) Engine Fuel Use (bbl/hr)	(D) Unloading Rate (bbl/hr)	Hoteling Boiler Fuel Use For Unloading (bbl/hr)	Hoteling Fuel Use Fuel (bbl/hr)	
< 2	ST	F	5.0	6,000	7.0	1	0
	MT	D	2.5	6,000	7.0	1	1
2 to < 3	ST	F	8.1	8,000	9.5	9.5	1 0
	MT	D	5.6	8,000	9.5	1	1
3 to < 4	ST	F	9.4	10,000	11.5	11.5	1 0
	MT	D	6.9	10,000	11.5	1	1
4 to < 5	ST	F	10.9	12,000	13.5	13.5	1 0
	MT	D	8.1	12,000	13.5	1	1
5 to < 6	ST	F	13.1	14,000	15.5	15.5	1 0
	MT	D	8.4	14,000	15.5	1	1
6 to < 8	ST	F	15.0	15,000	16.0	16.0	2 0
	MT	D	9.4	15,000	16.0	2	2
8 to < 10	ST	F	18.1	16,000	17.0	17.0	2 0
	MT	D	10.9	16,000	17.0	2	2

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10 to < 14	ST	F	20.0	17,000	17.5	2	0
MT	D	13.1	17,000	17.5	2	2	
14 to < 18	ST	F	21.6	18,000	18.5	2	0
MT	D	15.6	18,000	18.5	2	2	
≥ 18	ST	F	22.5	19,000	19.5	3	0
MT	D	19.1	19,000	19.5	3	3	

Explanation of abbreviations for PART B-1:

- Column A      ST      =      steamship (steam boilers and turbines)
- MT      =      motorship (internal combustion engines)
- Column B      F      =      fuel oil (not diesel fuel)
- D      =      diesel oil
- Column C      BBL/hr =      barrels per hour of fuel use during transit (at 50% of full steaming)
- Column D      During unloading of oil or ballast, steamships and motorships use fuel oil (F) for boilers/turbines which drive the unloading pumps

**PART B-2: DIESEL FUEL USED DURING BARGE UNLOADING\***

barge unloading rate (bbl/hr)	diesel fuel usage (bbl/hr)
2,000	2.3
2,200	2.4
2,500	2.9
3,500	4.1
8,000	9.5
10,000	11.5
13,000	13.5

\* Based on internal combustion engines driving the unloading pumps on the barges using the same kind of diesel as the tugs (i.e., 0.50 wt% sulfur and API gravity of 35)

**PART B-3: TUG USAGES**

One tug for assisting tankers of < 50,000 DWT size, for a total transit time of four hours per tanker call at docks.

Two tugs for assisting tankers of > 50,000 DWT size, for a total transit time of four hours each tug per tanker call at docks.

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One tug for transporting barges or lighters, for a total transit time of ten hours per each barge/lighter call at docks.

Thus, for each call below:	Total tug transit hour
Tanker of < 50,000	4
Tanker of ≥ 50,000	8
Product shipment barge	10
Crude oil lighter	10

### PART B-4: FUEL COMBUSTION EMISSION FACTORS (pounds / 1,000 gallons of fuel burned \*)

<u>Boiler In Steamships:</u>	<u>Fuel Type</u>	<u>*POC</u>	<u>*SO<sub>2</sub></u>	<u>*NO<sub>x</sub></u>	<u>*CO</u>	<u>*PM<sub>10</sub></u>
during transit	F	3.10	315.3	48.2	2.62	19.0
during hoteling	F	3.10	315.3	20.9	2.62	19.0
during unloading	F	3.10	315.3	48.2	2.62	19.0

#### Internal Combustion

<u>Engines In Motorships:</u>	<u>Fuel Type</u>	<u>*POC</u>	<u>*SO<sub>2</sub></u>	<u>*NO<sub>x</sub></u>	<u>*CO</u>	<u>*PM<sub>10</sub></u>
during transit	D	32.8	70.1	367.0	56.9	20.0
during hoteling	D	32.8	70.1	367.0	56.9	20.0

#### Internal Combustion

##### Engines in Motorships

<u>&gt; or = 100,000 DWT:</u>	<u>Fuel Type</u>	<u>*POC</u>	<u>*SO<sub>2</sub></u>	<u>*NO<sub>x</sub></u>	<u>*CO</u>	<u>*PM<sub>10</sub></u>
during transit	D	32.8	210.3	367.0	56.9	20.0
during hoteling	D	32.8	210.3	367.0	56.9	20.0

<u>Boilers In Motorships:</u>	<u>Fuel Type</u>	<u>*POC</u>	<u>*SO<sub>2</sub></u>	<u>*NO<sub>x</sub></u>	<u>*CO</u>	<u>*PM<sub>10</sub></u>
during transit	F	3.10	315.3	20.9	2.62	19.0
during hoteling	F	3.10	315.3	48.2	2.62	19.0

#### Internal Combustion (IC):

<u>Engines In Tugs:</u>	<u>Fuel Type</u>	<u>*POC</u>	<u>*SO<sub>2</sub></u>	<u>*NO<sub>x</sub></u>	<u>*CO</u>	<u>*PM<sub>10</sub></u>
during transit	TD	13.0	70.1	571.2	56.9	25.0

IC engines driving

barge unloading pumps	TD	13.0	70.1	571.2	56.9	25.0
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(PM-10 factor of 25 lb/1000 gallons also applies to internal combustion engines driving barge unloading pumps)

Explanation of abbreviations for PART B-4:

Fuel Type

F = fuel oil or residuum sulfur @ ≤ 2.0 wt%; nitrogen @ ≤ 0.43 wt%; API gravity 18

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D = marine diesel sulfur @  $\leq 0.5$  wt%; nitrogen @  $\leq 0.08$  wt%; API gravity 35  
 TD = tug diesel sulfur @  $\leq 0.5$  wt; API gravity @ 35

### PART B-5: HYDROCARBON EMISSIONS FROM UNLOADING OF CRUDE OIL, BALLAST OR PRODUCTS

COMMODITY UNLOADED	Non-Vapor Recovery POC Emissions (lb/1,000 gallons)	Vapor Recovery POC Emissions (lb/1,000 gallons)
Crude Oil:		
Barges	1.7	0.034
Vessels	1.0	0.02
Ballast: (unsegregated***)		
Crude	0.7	0.014
Gasoline	1.6	0.032
Gasoline:		
Barges	4.0	0.08
Vessels	2.4	0.048
Turbine Fuel (Jet Fuel)	0.005	0.0001
Diesel Oil, Gas Oil, Conversion Feed, Cutter Stock, Catalytic Cracker Charge HDN Charge, Stove Oil, Solvents, Lubestocks, Middle Distillate Oil Fuel Oil, Heavy Fuel Oil, Low Sulfur Oil, Bunkers IFO, LSFO, Residuum, Carbon Black, Purchased Cut Back Tar, Asphalt	0.005	0.0001
	4.0 E-05	8.0 E-07

\*\*\* The volume of unsegregated ballast taken on by a ship which has offloaded cargo is determined by the following equation:

$$B = 7.5 \times \text{MDWT} \times (0.35 - B \text{ segregated}/100)$$

Explanation of abbreviations for PART B-5:

B = the volume of ballast into dirty cargo tanks in Mbbl  
 MDWT = ship tonnage in thousands of dead weight tons as indicated by Clarkson  
 B segregated = the percent of segregated or dedicated ballast for the ship as indicated by Clarkson or some other reliable source which is

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known to be more current; e.g., ship's records, where the percent is equal to or less than 35. If the percent is greater than 35 than the amount of unsegregated ballast will be zero.

### Condition 1910

S1007 Hydrocracker Unit 2nd Stage  
S1008 Hydrocracker Unit 1st Stage

PERMIT CONDITION 1910  
APPLICATION #548  
HYDROCRACKER EXPANSION PROJECT PERMIT CONDITIONS  
(S-1007) AND (S-1008)

Application 15944 (May 2007): S-1007 Isocracker Unit: IIR Compressor Leak Control Measure to install a shroud/clamp to capture compressor leaks and route gases to the flare gas recovery header. Add inspection requirements for the shroud/clamp.

Application 16850 (February 2008): S-1007 Isocracker Unit: HIR Compressor Leak Control Measure to install a shroud/clamp to capture compressor leaks and route gases to the flare gas recovery header. Add inspection requirements for the shroud/clamp.

Administratively Changed by Application 18861 (June 2009) Removed completed parts and parts redundant with District Regulations

Administratively Changed by Application 21711 (May 2010). Deleted Parts 3 and 4. Leaks permanently repaired.

1. Deleted. (No pressure relief valves associated with this project vent to atmosphere)
2. Deleted. (Completed. All pumps and compressors have double mechanical seals with a barrier fluid, or equivalent, and all new compressors must meet applicable New Source Performance Standards.)
3. Deleted (Completed. IIR Compressor leak permanently repaired and shroud/clamp removed during 2Q09 Hydrocracker shutdown).
4. Deleted (Completed. HIR Compressor leak permanently repaired and shroud/clamp removed during 2Q09 Hydrocracker shutdown).



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### Condition 3996

S699 Tank A-699

APPLICATION # 2253 FOR SOURCE # 699

Administratively Deleted by Application 21711 (May 2010)

1. Deleted. (Gas tight requirements are redundant with Regulation 8-5-307.)
2. Completed. (Pressure Vacuum Valve set points are +/- 1.0" H2O).
3. Completed. (Gas discharge regulator set point is +0.5" H2O).
4. Completed. (Gas supply regulator set point is -0.5" H2O).

### Condition 5711

Application 5267 (1,1,1 TCA tank) 1990

Amended by Application 25684 (1995), added perchloroethylene

Amended by Application 17472/17473 (December 2008) remove 1,1,1 TCA

S795 #3 Reformer Perchloroethylene Tank V-307

1. Permittee/Owner/Operator shall ensure that the total material throughput for storage tank S-795 does not exceed 11,000 gallons in any consecutive 12 month period. (basis: toxics, cumulative increase)
2. If a material other than perchloroethylene is to be stored in tank S-795, the Permittee/Owner/Operator shall first apply to, and receive from, the District a change in permit conditions, unless the modification is exempt from Authority to Construct requirements under limited exemption 2-1-106. (basis: toxics, cumulative increase)
3. Permittee/Owner/Operator shall ensure that all tank loading operations at S-795 are abated by the vapor balance system A-796. (basis: cumulative increase, toxics)
4. In order to demonstrate compliance with the above conditions, the Permittee/Owner/Operator of tank S-795 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 five years from the date that the record was made.

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- a. Identification of all materials stored and the dates that the materials were stored.
- b. The total daily throughput of each material stored, summarized on a monthly basis.  
(basis: cumulative increase, toxics)

### Condition 6740

Application 6167 (August 1992),

Amended by application 12404 (April 2005) to correct permit condition to explicitly allow storage of ethyl alcohol, to increase throughput to 400,000 bbl/year, and to eliminate repetition of District Rules in condition.

Application 11091 (October, 2005): increase ethyl alcohol throughput from 243,000 bbl/yr to 400,000 bbl/yr, eliminate storage of gasoline.

Application 21023 (January 2010): increase ethanol throughput from 400,000 bbl/yr to 1,200,000 bbl/yr.

S612 Tank A-612; Internal Floating Roof, Capacity: 420K Gallons, Storing: Ethyl Alcohol

PERMIT CONDITIONS FOR S-612, INTERNAL FLOATING ROOF STORAGE TANK.

1. Deleted by Application 12404 (Covered by Regulation 8, Rule 5).
2. Deleted by Application 12404 (Notification of seal installation provided).
3. Owner/Operator shall ensure that the total liquid throughput for storage tank S-612 does not exceed 1,200,000 barrels during any consecutive 12 month period. (basis: cumulative increase)
4. Owner/Operator shall ensure that only fuel grade ethyl alcohol with a true vapor pressure less than or equal to 7.1 psia is stored in tank S-612. If an alternative material is to be stored in S-612, the owner/operator shall first apply for and receive from the District written approval for the storage of the alternative material(s). (basis: cumulative increase)
5. In order to demonstrate compliance with the above conditions, the Permittee/Owner/Operator of tank S-612 shall maintain the following records in a District approved log:
  - a. The types of material stored and the dates that the materials were stored.

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- b. The total throughput of each material stored, summarized on a monthly basis. Permittee/Owner/Operator shall ensure that these records are kept on site and made available for District inspection for a period of 5 years from the date that the last record was made.  
(basis: cumulative increase, Regulation 8-5-501)

### Condition 7397

S901 No. 7 Boiler

1. Permittee/Owner/Operator shall ensure that the total ammonia injection at A-30, electrostatic precipitator, does not exceed 1,800 lb. in any consecutive 24 hour period (75 lb/hr basis). (basis: toxics)
2. To verify compliance with Condition No. 1, the Permittee/Owner/Operator of A-30 shall install and maintain a District-approved aqueous ammonia flow meter and recorder. Permittee/Owner/Operator shall ensure that the records are made available for District inspection and kept for a period of at least five years after date of entry. (basis: toxics, cumulative increase, offsets)

As an alternative to such ammonia flow monitoring, the owner/operator of A-30 may elect to conduct a District- approved flow rate test that demonstrates that the maximum ammonia injection rate cannot exceed 75 lb/hr. (basis: toxics)

3. S-901, boiler #7 shall burn only gaseous fuels. (basis: cumulative increase)

### Condition 7405

S590 DEA Flash Drum

1. (Condition completed: fugitive component count submitted in accordance with authority to construct condition; cumulative increase adjusted to 14.1 lb/day POC)
2. Deleted. (Redundant with Regulation 8, Rule 18)3. Deleted. (Redundant with Regulation 8, Rule 28)

### Condition 7406

S819 API Oil-Water Separator  
S1026 DNF Air Stripper

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Application 4990 (1990)  
Modified by Application #8592 (1992)  
Modified by Application 20143 (May 2009), Incorporation of Condition 4587 and the removal of A38.

### API Separator/DNF Unit Abatement Project Permit Conditions

#### Conditions for Application #8592:

- A1. During all times of operation of Source S-819, Permittee/Owner/Operator shall ensure that the API oil/water separator, influent head channel and wet oil pit, and dissolved nitrogen flotation (DNF) unit are all be enclosed and vented to the headspace of the air stripper S-1026 and abated by the thermal incinerator A-39, except as indicated below. (basis: Regulation 8-8, BACT, offsets, toxics, cumulative increase)
- A2. Permittee/Owner/Operator shall ensure that in the event that thermal oxidizer A-39 is not available as a control device for S-819, then S-819 shall be abated by the refinery vapor recovery system A-14. (basis: Regulation 8-8, BACT, offsets, toxics, cumulative increase)
- A3. Deleted. (Redundant with Regulation 8-8-305.1)
- A4. Deleted. (Redundant with the requirements of District Regulation 8, Rule 8.)

#### MODIFIED CONDITIONS FOR APPLICATION #4990 (DNF EFFLUENT CHANNEL AIR STRIPPER SYSTEM):

- B1. Permittee/Owner/Operator shall ensure that at all times, except for periods of ongoing inspection, maintenance, or wastewater sampling, the DNF outlet channel shall be covered and vented to the DNF air stripping system S-1026 and abated by the thermal incinerator A-39 operating properly as designed. (basis: Regulation 8-8, BACT, offsets, toxics, cumulative increase)
- B2. Permittee/Owner/Operator shall ensure that the DNF air stripping compressor does not operate unless the air sweep fans and the thermal incinerator A-39 are operating properly. (basis: Regulation 8-8, BACT, offsets, toxics, cumulative increase)
- B3. Permittee/Owner/Operator shall ensure that a differential pressure controller varies the air sweep fan speed, relative to the air stripping rate, to control the

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air space below the DNF covers to a pressure less than atmospheric pressure. (basis: Regulation 8-8, BACT, offsets, toxics, cumulative increase)

- B4. Deleted. (Carbon system A-38 removed from service).
- B5. A. Permittee/Owner/Operator shall ensure that non-methane hydrocarbon emissions to the atmosphere from the thermal incinerator A-39 do not exceed 10 ppm (calculated as C1) on a rolling one hour average basis. (basis: BACT, offsets, cumulative increase)  
B. Deleted. (Carbon system A-38 removed from service).
- B6. Deleted. (Carbon system A-38 removed from service).
- B7. Permittee/Owner/Operator shall ensure that H<sub>2</sub>S emissions to the atmosphere from the thermal incinerator A-39 do not exceed 1 ppm. (basis: toxics)
- B8. Deleted. (Carbon system A-38 removed from service).
- B9. Deleted. (Initial source test completed in April and May 1992.)
- B10. Permittee/Owner/Operator shall ensure that the thermal incinerator A-39 shall not be used to abate stripped gas from the air stripper S-1026 unless A-39 is operating at a minimum temperature of 1350 °F, to ensure compliance with Condition Nos.B5A and B7. (basis: cumulative increase, offsets, BACT)
- B11. Permittee/Owner/Operator shall install, maintain, and operate a District-approved continuous temperature monitor/ recorder on A39 Thermal Oxidizer to verify compliance with Part B10.  
(basis: BACT, offsets, cumulative increase)
- B12. Permittee/Owner/Operator shall maintain a file of District approved logs containing all measurements, records, charts, and other data which are required of this conditional permit, as well as all other data and calculations necessary to determine compliance with the conditions of this permit. This file must include, but is not limited to:
- a. The hours of operation of each permitted piece of equipment, including identification of the abatement device(s) used to control emissions from air stripper S-1026 and the API/DAF system S-819: thermal incinerator A-39 or the refinery vapor recovery system A-14 (backup abatement device for S-819 only).
  - b. Each monitor reading, recording, or analysis result for the day of operation they are taken.
  - c. Deleted. (Carbon system A-38 removed from service)..

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Permittee/Owner/Operator shall ensure that the District approved logs are kept on site and that they are made available for District inspection upon request for a period of at least 5 years following the date on which such measurements, records, or data are made or recorded.

Any exceedance of Parts. B5, B7 and/or B10 shall be reported to the District's Enforcement Division within 96 hours after such occurrence. The submittal shall include the data showing the exceedance and its time of occurrence, and shall detail the nature, extent, probable cause, and corrective action taken.

(basis: BACT, offsets, cumulative increase, toxics)

### Condition 7410

S606 50 Unit Wastewater Air Stripper A

S607 50 Unit Wastewater Air Stripper B

1. Permittee/Owner/Operator shall ensure that the air strippers S-606 and S-607 are not operated unless they are abated at all times by furnace S-950. (basis: cumulative increase, toxics)
2. Permittee/Owner/Operator shall ensure that the total stripped gas throughput from the air strippers S-606 and S-607 does not exceed 700 SCFM. (basis: cumulative increase, toxics)
3. Permittee/Owner/Operator shall ensure that non-methane hydrocarbon emissions to the atmosphere from furnace S-950 do not exceed 20 ppm (calculated as C1) on a rolling one hour average basis. (basis: cumulative increase)
4. Permittee/Owner/Operator shall ensure that H<sub>2</sub>S emissions to the atmosphere from furnace S-950 do not exceed 1 ppm on a rolling one hour average basis. (basis: toxics)
5. Permittee/Owner/Operator shall ensure that furnace S-950 is not used to abate stripped gas from the air strippers S-606 and S-607 unless S-950 is operated with a furnace temperature of at least 1500°F. This minimum temperature may be adjusted by the District if source test data demonstrate that an alternate temperature is necessary for or capable of maintaining compliance with Condition Nos. 3 and 4. (basis: cumulative increase)

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6. Permittee/Owner/Operator shall install, maintain, and operate a District-approved continuous temperature monitor/recorder to verify compliance with Condition No. 5. (basis: cumulative increase)
7. Permittee/Owner/Operator shall maintain a District approved log in a file containing all measurements, records, charts, and other data which are required of this conditional permit, as well as all other data and calculations necessary to determine compliance with the conditions of this permit. Permittee/Owner/ Operator shall ensure that this District approved log in the file includes, but is not limited to:
  - a. The hours of operation of each permitted piece of equipment.
  - b. Each monitor reading, recording, or analysis result for the day of operation they are taken.

Permittee/Owner/Operator shall ensure that this material is kept available for District inspection for a period of at least 5 years following the date on which such measurements, records, or data are made or recorded. (basis: toxics, cumulative increase)

### Condition 7688

S1101 Subsurface Aeration System [at Tract 3 West Canal]

S1102 Subsurface Aeration System [at Tract 3 North Pond]

S1103 Subsurface Aeration System [at Clean Canal Forebay]

S1104 Subsurface Aeration System [at Oily Canal]

PERMIT CONDITIONS FOR SUBSURFACE AERATOR SYSTEMS AT S-1101, S-1102, S-1103, AND S-1104:

1. Permittee/Owner/Operator shall ensure that operation of this equipment is limited to the locations and aeration equipment specified unless Permittee/Owner/Operator has applied to, and received written approval from, the District for a change in permit conditions. (basis: cumulative increase)

### Condition 8077

Application 27769 The No. 3 HDS Unit (1981)

PERMIT NO. 3318: REFINERY MODERNIZATION PROJECT PERMIT CONDITIONS  
NEW PERMIT CONDITIONS FOR PERMIT NO. 3318

Application 14047: Clarify conditions to allow owner/operator to shutdown ammonia injection to A-31 SCR during both startup and shutdown of S-974 (Part A2A).

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Application 19300 (December 2008) Added S-904 No. 6 Boiler House

Application 19647 (March 2009) Consolidate With Condition 4357

Administratively Revised by Application 19874 (July 2009) Updates for Combustion Sources

Administratively Changed by Application 21711 (May 2010) Deleted Parts A10-A14 (redundant or completed items). Revised Part B6B and deleted Part B6D (S848 out of service)

Administratively Changes by Application 24056 (June 2012). Corrected source list and CO limits and monitoring in Part B7.

Administratively Changed by Application 26272 (May 2014). Lowered mass emission limits of Parts B2A and B2B to reflect emission credits granted for the Coker Modification Project (Application 17798) and the transfer of the No 2 Hydrogen Plant to Air Products.

Administratively changed by application 23322 (September 2015) added Parts C3 and C4 firing rate limits to hydrocracker furnaces in accordance with hydrocracker expansion project Application 548 (1987).

### Appendices A-D

Hyperlink to Appendix A to go here.

[http://www.baaqmd.gov/~media/Files/Engineering/Title%20V%20Permits/B2758%209/B2758-9\\_2005-08\\_reopen\\_02a.ashx](http://www.baaqmd.gov/~media/Files/Engineering/Title%20V%20Permits/B2758%209/B2758-9_2005-08_reopen_02a.ashx)

Hyperlink to Appendix B to go here.

[http://www.baaqmd.gov/~media/Files/Engineering/Title%20V%20Permits/B2758%209/B2758-9\\_2005-08\\_reopen\\_02b.ashx](http://www.baaqmd.gov/~media/Files/Engineering/Title%20V%20Permits/B2758%209/B2758-9_2005-08_reopen_02b.ashx)

Hyperlink to Appendix C to go here.

[http://www.baaqmd.gov/~media/Files/Engineering/Title%20V%20Permits/B2758%209/B2758-9\\_2005-08\\_reopen\\_02c.ashx](http://www.baaqmd.gov/~media/Files/Engineering/Title%20V%20Permits/B2758%209/B2758-9_2005-08_reopen_02c.ashx)

Hyperlink to Appendix D to go here.

[http://www.baaqmd.gov/~media/Files/Engineering/Title%20V%20Permits/B2758%209/B2758-9\\_2005-08\\_reopen\\_02d.ashx](http://www.baaqmd.gov/~media/Files/Engineering/Title%20V%20Permits/B2758%209/B2758-9_2005-08_reopen_02d.ashx)

S57 Tank A-57  
S323 Tank A-323



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S850 No. 3 HDS Unit (Permitted by Application 27769)  
S851 Ammonia Recovery Unit (Permitted by Application 27769)  
S854 East Air Flare (Permitted by Application 27769)  
S856 Spare DEA Stripper (Permitted by Application 27769)  
S901 No. 7 Boiler  
S904 No. 6 Boiler  
S908 No. 3 Crude Heater (F8)  
S909 No. 1 Feed Prep Heater (F9)  
S912 No. 1 Feed Prep Heater (F12)  
S913 No. 2 Feed Prep Heater (F13)  
S915 Platformer Intermediate Heater  
S916 No. 1 HDS Heater (F16)  
S917 No. 1 HDS Prefract Reboiler (F17)  
S919 No. 2 HDS Depent Reboiler (F19)  
S920 No. 2 HDS Charge Heater (F20)  
S921 No. 2 HDS Charge Heater (F21)  
S922 No. 5 Gas Debutanizer Reboiler (F22)  
S927 No. 2 Reformer Heat/Reheating (F27)  
S928 HDN Reactor A Heater (F28)  
S929 HDN Reactor B Heater (F29)  
S930 HDN Reactor C Heater (F30)  
S931 Hydrocracker Reactor 1 Heater (F31)  
S932 Hydrocracker Reactor 2 Heater (F32)  
S933 Hydrocracker Reactor 3 Heater (F33)  
S934 Hydrocracker Stabilizer Reboiler (F34)  
S935 Hydrocracker Splitter Reboiler (F35)  
S937 Hydrogen Plant Heater (F37)  
S950 50 Unit Crude Heater (F50)  
S951 No. 2 Reformer Aux Reheater (F51)  
S952 Internal Combustion Engine  
S953 Internal Combustion Engine  
S954 Internal Combustion Engine  
S955 Internal Combustion Engine  
S956 Internal Combustion Engine  
S957 Internal Combustion Engine  
S958 Internal Combustion Engine  
S959 Internal Combustion Engine  
S960 Internal Combustion Engine  
S963 Gas Turbine 177  
S971 No. 3 Reformer UOP Furnace (F53)  
S972 No. 3 Reformer Debutanizer Reboiler (F54)  
S973 No. 3 HDS Recycle Gas Heater (F55) (Permitted by Application 27769)  
S974 No. 3 HDS Fract Feed Heater (F56) (Permitted by Application 27769)  
S1009 Alkylation Unit  
S1401 Sulfur Recovery Unit  
S1421 Sour Water Feed Tank (Permitted by Application 27769)

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- A2A. For S-974, the total start-up or shutdown period during which S-974 may be operated without ammonia injection at A-31, No. 3 HDS Selective Catalytic Reduction Unit, shall not exceed 72 hours per start-up or shutdown. For S-974, the total combined start-up and shutdown time shall not exceed 144 hours during any rolling 12 consecutive month period. During the start up or shutdown period for S-974, NOx emissions from S-974 shall not exceed 146 pounds during any rolling 24 consecutive hour period. During the start up or shutdown period for S-974, NOx emissions from S-973 and S-974 combined (when there is one combined emission point for S-973 and S-974) shall not exceed 146 pounds during any rolling 24 consecutive hour period. For S-974, sum total NOx emissions occurring during start up and shutdown shall not exceed 876 pounds during any rolling 12 consecutive month period. NOx emissions from S-973 and S-974 combined (when there is one combined emission point for S-973 and S-974) shall not exceed 876 pounds during any rolling 12 consecutive month period.  
(basis: cumulative increase, offsets)
- A2B. Permittee/Owner/Operator shall begin ammonia injection at A-31 as soon as the temperature of the exhaust at the inlet of A-31 reaches 530 degrees Fahrenheit.  
(basis: cumulative increase, offsets)
- A8. Deleted. (NOx CEM installed on S908. Semiannual CO Source Test required in Condition 18372, Part 34.)
- A10. Completed. (All new valves in volatile hydrocarbon service or ammonia service installed for Permit 3318 were “low emission” valves as specified.)
- A11. Deleted. (Final fugitive component count not required because POC emissions Cap not changed.)
- A12. Deleted. (Completed. All new pumps in volatile hydrocarbon service installed for Permit 3318 were double mechanical seals with a barrier fluid which either: 1) is at a higher pressure than the seal pressure, or 2) is vented to a closed system, or 3) an equivalent sealing system approved by the APCO.)
- A13. Completed. (Permittee/Owner/Operator installed at least one magnetically-driven pump or equivalent equipment approved by the APCO.)
- A14. Completed, (Permittee/Owner/Operator has implemented an inspection and maintenance program for all pumps, compressors, valves, and flanges associated with this project in accordance with District Regulations 18, 25, and 28.)

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- A16. For the purposes of these permit conditions, all source testing and monitoring requirements will be subject to the following general provisions:
- a. At least two weeks prior to testing, Permittee/Owner/Operator shall contact the District's Source Test Section, in writing, to provide notification of the testing procedure, date and time, and to obtain details on source testing requirements. Source test procedures are subject to approval of the APCO.
  - b. Deleted. (Authority to Construct requirement to submit CEM specifications and plans for approval has been completed.)
  - c. Deleted. (Authority to Construct requirement to submit plans showing sampling facilities for approval has been completed.)
- (basis: MOP Volume IV)
- A17. The mitigation measures in the Mitigation Monitoring Program for which the District is listed as the Responsible Entity are considered to be permit conditions for Permittee/Owner/Operator for the purposes of this Authority to Construct. These mitigation measures are specified in the Mitigated Negative Declaration adopted by the District on December 16, 1991. (basis: cumulative increase, offsets)

MODIFIED PERMIT CONDITIONS FROM PERMIT NO. 22769 (THE NO. 3 HDS PERMIT)  
ADOPTED HERE FOR THIS PERMIT NO. 3318:

- B1. Definitions.
- a. "Permitted annual emissions" shall mean the allowable emissions for a calendar year authorized by these conditions.
  - b. "Total annual emissions" shall mean the actual emissions which occur in any calendar year.
  - c. "Total monthly emissions" shall mean the actual emissions which occur in any calendar month.
  - d. "Calendar day" (CD) of "calendar day basis" shall mean an average value determined by dividing the yearly total by 365.
  - e. "Stream day" (SD) or "stream day basis" shall mean the total value occurring on any one 24-hour day, from midnight to midnight, and is the actual daily rate.
  - f. "Calendar month" shall mean any month of the year measured from 12:01 A.M. on the first day of that month to midnight on the last day of that month.
  - g. "Calendar year" or "year" shall mean the year measured from 12:01 A.M., January 1 to midnight, December 31.
  - h. "permitted Monthly Maximum Emissions" shall mean the maximum allowable emissions for any calendar month authorized by these conditions.

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- i. "Permitted Monthly Compensatory Emissions" shall mean the allowable emissions in a calendar month before compensatory emission reductions are required.
- j. "Startup" shall mean that period of time during which the piece of equipment in question is put into normal operation from an inactive status by following a prescribed series of separate steps or operations, not to exceed 8 hours. Permittee/Owner/Operator may develop and present specific alternate startup times for certain units. If approved by the APCO, these specific startup times will be used in place of the standard 8 hour time period for the given units.
- k. "Shutdown" shall mean that period of time during which the piece of equipment in question is taken out of service from a normal operating mode to an inactive status following a prescribed series of separate steps of operations, not to exceed 8 hours. Permittee/Owner/Operator may develop and present specific alternate shutdown times for certain units. If approved by the APCO, these specific shutdown times will be used in place of the standard 8 hour time period for the given units.
- l. "Light hydrocarbon service" shall mean the handling or service of liquid of gas-liquid streams with a true vapor pressure greater than 0.5 psia.

(basis: definitions)

B2. Emissions. The specific emission points covered by the various limitations listed in B2A-B2D below are set forth in Table A of the Appendix to these Conditions.

A. Listed below are the permitted annual emission limits for the emission points covered by this permit. If the permitted annual emission limit for any pollutant is exceeded, the applicable provisions of Section B3A shall apply.

Particulates	417.5	tons/year
Hydrocarbons	217.83	tons/year
NOx	2579.57	tons/year
SO2	1675.04	tons/year
CO	495.37	tons/year

(basis: cumulative increase)

B. Listed below are the permitted monthly maximum emission limits for the emission points covered by this permit. If the permitted monthly maximum emission limit for any pollutant is exceeded, the applicable provisions of Section B3B shall apply.

Particulates	43.875	tons/month
Hydrocarbons	76.677	tons/ month

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NOx	315.659	tons/ month
SO2	441.920	tons/ month
CO	50.531	tons/ month

(basis: cumulative increase)

- C. Listed below are the permitted monthly compensatory emission limits applicable to the emission points covered by this permit and Permittee/Owner/Operator shall ensure that the emission limits are met. If the permitted monthly compensatory emission limit for any pollutant is exceeded, the applicable provisions of Section B3C shall apply.

Particulates 42 tons/month

CO 49.1 tons/month

(basis: cumulative increase, BACT, offsets)

- D. If, at the end of any calendar month, the total emissions accumulated so far in that calendar year exceed the permitted annual emissions prorated to the number of months elapsed so far that year plus the amounts set forth below, the informational requirements of Section B3D shall apply.

Particulates 9 tons

Hydrocarbons 35 tons

NOx 69 tons

SO2 258 tons

CO 8.1 tons

(basis: cumulative increase, offsets)

- E. The limits set forth in B2A & B2B above are legal limits which must not be exceeded. Accordingly, in the event that any such limit ever is exceeded, Permittee/Owner/Operator will be immediately subject to the applicable sanctions in Section B3 below.  
(basis: cumulative increase, offsets)

- B3. Emission Reductions. The following conditions will apply as appropriate, when any of the various permitted emission limits set forth in Section B2 above are exceeded.

- A. If any of the permitted annual emission limits of B2 are exceeded, the following conditions shall apply:
- i. Permittee/Owner/Operator shall install and maintain on a permanent basis abatement equipment as specified in the Environmental Management Plan (or such other abatement measures approved by the Air Pollution Control Officer which will achieve equivalent emission reductions), to control

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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). The limits in Condition B2A will be reduced accordingly;

- ii. Permittee/Owner/Operator shall not process more than 108,000 barrels of crude oil per stream day or more than 97,000 barrels of crude oil per day averaged over any one calendar month until the emission reductions required under subsection B3A.i. are achieved; and
- iii. the permitted annual emissions 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 subsection B3A.i. above are achieved.  
(basis: cumulative increase, offsets, bubble)

B. If any of the permitted monthly maximum emission limits of B2B are exceeded, the following conditions shall apply:

- i. The excess shall be charged against the permitted annual limit in B2A above which is applicable to that pollutant by twice the amount by which the limit in B2B 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 will be charged once against the current calendar year and once against the following calendar year;
- ii. Permittee/Owner/Operator shall either (a) install and maintain on a permanent basis abatement equipment or take measures which will achieve equivalent emission reductions as specified in the Environmental Management Plan 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. Permittee/Owner/Operator shall not process more than 108,000 barrels of crude oil per stream day or more than 97,000 barrels of crude oil per day averaged over any one calendar month until the emission reductions or other measures required under subsection B3B.ii. above are achieved.

(basis: cumulative increase, offsets)

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- C. If any of the permitted monthly compensatory emission limits of B2C are exceeded, then the excess shall be charged against the permitted annual limit in B2A above which is applicable to that pollutant by twice the amount by which the limit in B2C 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 will 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 subsection B3B above are not triggered. (basis: cumulative increase, offsets)
  - D. If any of the limits of B2D are exceeded, Permittee/Owner/Operator shall submit to the District within 30 days of the end of that calendar month a revised Environmental Management Plan in accordance with Section B14 below, which shall indicate the steps to be taken to assure that the permitted annual emission limits in B2A will be met for that calendar year. (basis: cumulative increase, offsets)
  - E. Reductions of hydrocarbon may be used to offset increases NO<sub>x</sub> at a ratio of 1:1, provided that Permittee/Owner/Operator demonstrates to the satisfaction of the Air Pollution Control Officer that the increased NO<sub>x</sub> 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, as defined in Section 2-2-206 of the District's Rules and Regulations. (basis: cumulative increase, offsets)
  - F. In the event that Permittee/Owner/Operator installs abatement equipment to achieve 2:1 offsets on a permanent basis (or takes measures which will achieve equivalent permanent emission reductions) pursuant to subsection B3B.ii.(a) above, any such emission reductions will be credited towards emission reductions which may be required under subsection B3A.i. above for that same calendar year, provided the generation of offsets complies with applicable requirements of the SIP adopted version of Regulation 2, Rule 2. (basis: cumulative increase, offsets)
- B4. Monitoring. The following monitoring instruments listed shall be installed, calibrated, maintained and operated by Permittee/Owner/Operator:
- A. An instrument to continuously monitor and record the H<sub>2</sub>S concentrations in fuel gas. being fed to the following new or modified units, which will be required to comply with the New Source Performance Standard for the burning of fuel gas (0.23 grams of H<sub>2</sub>S/dry standard m<sup>3</sup> on a 3-hour average basis):

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- No. 3 HDS Recycle Gas Heater, S-973
  - No. 3 HDS Fractionator Feed Heater, S-974
  - Nos. 51, 53, and 54 Furnaces (S-951, S-971, and S-972, respectively)  
(basis: NSPS)
- B. An instrument to continuously monitor nitrogen oxide emissions and oxygen concentration in the flue gas from the following units:
- No. 3 HDS Recycle Gas Heater, S-973
  - No. 3 HDS Fractionator Feed Heater, S-974
  - No. 3 Crude Unit, No. 8 Furnace, S-908
  - Hydrocracker Stabilizer Reboiler (F34), S-934
  - Hydrocracker Splitter Reboiler (F35), S-935
  - No. 5 Gas Plant Debutanizer Reboiler, S-922  
(basis: cumulative increase, offsets)
- C. An instrument to continuously or sequentially monitor stack oxygen concentrations on each of, and an instrument to monitor fuel usage by, the following units:
- #1 Feed Prep. - Furnace #9, S-909,
  - #1 Feed Prep. - Furnace #12, S-912,
  - #2 Feed Prep. - Furnace #13, S-913,
  - #1 HDS - #16 Heater, S-916,
  - #1 HDS - #17 Prefractionator Reboiler, S-917,
  - #2 HDS - #20 Charge Heater, S-920,
  - #2 HDS - #21 Charge Heater, S-921,
  - HDN Reactor - #28 Furnace, S-928,
  - HDN Reactor - #29 Furnace, S-929,
  - HDN Reactor - #30 Furnace, S-930,
  - Hydrocracker - #31 Furnace, S-931,
  - Hydrocracker - #32 Furnace, S-932,
  - Hydrocracker - #33 Furnace, S-933,  
(basis: cumulative increase, offsets)

To the extent that it is technologically feasible to do so, all of the required stack oxygen concentration monitors shall be equipped with oxygen analyzer controlled by feedback systems set at oxygen levels which will yield the minimum amount of nitrogen oxides while still achieving complete combustion. If such feedback systems are not feasible for any of these units, Permittee/Owner/Operator shall substitute alternative controls to be approved by the Air Pollution Control Officer, which will achieve the levels of NO<sub>x</sub> control equivalent to those specified in B7C below.

(basis: cumulative increase, offsets)



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- D. All other instruments listed on Table D of the Appendix to these Conditions, which are not specifically referred to in B4A-B4C above. (basis: cumulative increase, offsets)
- B5. Reporting and Record Keeping. The following conditions will document Permittee's/Owner's/Operator's emissions on a monthly basis, in addition to satisfying the requirements of Regulation 10- 1-402 of District regulations. These reporting requirements do not eliminate the need to comply with any other District reporting and record keeping requirements.
- A. Permittee/Owner/Operator 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 conditional permit, as well as all other data and calculations necessary to determine actual emissions from all emission points covered by this permit. This file, which may contain confidential or proprietary data, shall include, but not be limited to: the data collected from all in-stack monitoring instruments, the records on fuel input rates and relevant records of crude oil and other hydrocarbons processed. Estimates of emissions from all units covered by this permit which are included under the limits set forth in Section B2 above shall be calculated in accordance with Tables B & C of the Appendix to these Conditions. This material shall be kept available for District inspection for a period of at least 5 years following the date on which such measurements, records or data are made or recorded. (basis: cumulative increase, offsets)
- B. Permittee/Owner/Operator shall make a monthly report to the District, within 30 days after the end of each month, which shall specify the emissions from all operations covered by this permit during the previous month, and shall state in detail the basis therefore. The reporting format for such reports shall be structured so as to enable the Air Pollution Control Officer to readily determine compliance with the provisions of this Conditional Permit, and shall be subject to the approval of the APCO. Any computer programs utilized by Permittee/Owner/Operator to calculate emissions from any operations covered by this permit shall also be subject to the approval of the APCO. (basis: cumulative increase, offsets)
- C. Permittee/Owner/Operator shall conduct monthly audits of all emission and fuel rate monitoring systems required under Section B4 above to insure that instrument accuracy is maintained. Permittee/Owner/Operator shall promptly repair all malfunctioning systems and replace any system that has a chronic problem. A record of the results of all such audits shall be maintained as part of the file required under B5A. above. (basis: cumulative increase, offsets)

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### B6. Process Unit Design.

- A. The design feed rate to the Ammonia Recovery Plant shall be at least 75 tons/day. (basis: cumulative increase)
- B. 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
#3 HDS Unit, S-850	70,000 barrels/stream day

(basis: cumulative increase, offsets)

These units shall be designed and build in accordance with the above specifications, and total annual 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. (basis: cumulative increase, offsets)

- C. The No. 3 HDS Unit (S-850) shall not process more than 70,000 barrels per stream day. (basis: cumulative increase, offsets)

- D. Deleted. (S848 no longer in service.)

### B7. Combustion Controls.

- A. Except during periods of startup or shutdown, emissions of nitrogen oxides (calculated as NO<sub>2</sub>) and carbon monoxide shall not exceed the following limits.

NO <sub>x</sub> (ppmvd)	CO (ppmvd)	Unit(s)
10	50	S-908
40	N/A	S-973 and S-974
60	N/A	S-917, S-919, S-922, S-927, S-934 & S-935
75	N/A	S-971 and S-972

Except for S-908, these limits shall be based on an 8 hour average and corrected to 3% excess oxygen on a dry basis. For S-908, the limit shall be based on a 3 (three) hour average and corrected to 3% excess oxygen. (basis: cumulative increase, offsets, BACT)

- B. The sum of the maximum firing rates of the first two units listed in B4B above (S-973 and S-974 shall not exceed 123 MMBTU/hr. (basis: cumulative increase, offsets)
- C. For the furnaces listed in B4C above, Permittee/Owner/Operator shall demonstrate by source tests and calculations that, in the aggregate, NO<sub>x</sub> emissions do not exceed 160 lb. NO<sub>x</sub> per billion BTUs heat input when firing refinery fuel gas at, or as nearly as practicable to the

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maximum daily firing rates which occurred during the previous 6 months. Such demonstration shall be made annually. If aggregate emissions from these units exceed 160 lb. NO<sub>x</sub> per billion BTU heat input, Permittee/Owner/Operator will install additional controls on other refinery units so as to achieve the same amount of control that would be obtained if all of the units listed in B4C did achieve, in the aggregate, an emission rate of 160 lb. NO<sub>x</sub>/billion BTU heat input. (basis: cumulative increase, offsets)

- D. For the furnaces S917 and S919, Permittee/Owner/Operator shall demonstrate by source test that NO<sub>x</sub> emissions do not exceed 60 ppmvd, at 3% oxygen, averaged over 8 hours, when firing refinery fuel gas at, or as nearly as practicable to the maximum daily firing rates which occurred during the previous 6 months. Such demonstration shall be made annually. (basis: cumulative increase, offsets)

### B8. Hydrocarbon Controls.

- A. All new compressor seals in hydrocarbon service associated with this project shall be vented to a closed gas system, except for two high purity hydrogen make-up compressors at the new No. 3 HDS Unit. The vapors from the seals on the three (3) existing compressors S-952, S-953, and S-954 shall be collected and vented directly to the compressor inlets, or a closed gas system. (basis: cumulative increase, offsets, BACT)
- B. All new pumps in light hydrocarbon service associated with this project shall be equipped with double mechanical seals, or Permittee/Owner/Operator shall retrofit other existing pumps with double mechanical seals so as to achieve the same amount of emission reductions that would be obtained by installing such seals on all of the new pumps referenced above. (basis: cumulative increase, offsets, BACT)
- C. Hydrocarbon vapors associated with the two existing tanks S-57 and S-323 shall be controlled by venting to the vapor recovery system, and tank S- 57 may only store or contain materials which have a vapor pressure of 1.5 psia or less. This condition is in place to assure that offsets provided as part of Application No. 27769 are permanent. S-323 was modified via 2004 Application 10667. See Condition 13605. (basis: cumulative increase, offsets, BACT)

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- D. In the event that No. 4 Gas Plant modifications are not constructed, Permittee/Owner/Operator shall retrofit eight (8) pumps in light hydrocarbon service with double mechanical seals or equivalent. In the event that the hydrogen recovery unit is not completed, Permittee/Owner/Operator shall receive a credit of three (3) lb per calendar day against the total fugitive hydrocarbon emissions as listed in Table E of the Appendix to this Conditional Permit.  
(basis: cumulative increase, offsets)

### B9. Sulfur Recovery Facilities.

- A. Within 48 months of the issuance of the Authority to Construct upon which this Conditional Permit is based, the Claus unit at the sulfur Recovery facility shall be in final compliance with the substantive requirements of Section 9-1-305.4 of the District's Rules and Regulations, which will require such unit to achieve a sulfur removal efficiency that will result in emission of no more than 4 pounds of SO<sub>2</sub> per ton of sulfur processed. This limitation shall be achieved by means of the installation at the Claus unit of a new tail gas unit with a minimum capacity adequate to achieve this degree of control. In the event that the Authority to Construct upon which this Conditional Permit is based is challenged or appealed before the District's Hearing Board or before any court of competent jurisdiction, the deadline for final compliance set forth hereinabove will be extended until 48 months after the final judicial or quasi-judicial resolution of any such challenge or appeal; but, in no such event shall such deadline be extended beyond January 1, 1989.
- B. In emergency situations where the entire sulfur removal capability of the sulfur recovery facility is not operating, the refinery shall take immediate actions to assure that total SO<sub>2</sub> emissions from both the refinery and the sulfur recovery facility will not exceed 29 tons/stream day. These actions shall include, not need not be limited to, the following:
- i. Condense and store foul water stripper overhead.
  - ii. Discontinue burning of coke at No. 6 Boiler.
  - iii. Reduce Hydrocracker-HDN feed rate to 12,000 bbl/stream day.
  - iv. Discontinue burning of fuel oil, except as required to maintain combustion stability and operating safety of the No. 5 and No. 6 Boilers.
  - v. Reduce feed rate to the Coker and to the FCCU, and use all available de-sulfurized feed-stock as FCCU feed.
  - vi. Shut off feed to No. 1, No. 2, and No. 3 HDS Units and "hot sweep" the reactors.

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- vii. If any emission monitor for SO<sub>2</sub> is not operating properly, conduct a daily source test for the source in question. Such source tests shall consist of three continuous 30 minute measurements, taken at least 30 minutes apart, of the SO<sub>2</sub> concentration and stack gas flow rates. The average of these three measurements shall be used as the basis for establishing SO<sub>2</sub> emissions for purposes of calculation.
- viii. Calculate the emissions of SO<sub>2</sub> from all flares at the refinery, and report same to the District as part of the next monthly report required under B5B above.
- ix. Report this event to the BAAQMD by telephone as soon as possible with due regard to safety, and submit a written follow-up, detailing the specific measures taken by Permittee/Owner/Operator to control SO<sub>2</sub> emissions during the event, as part of the next monthly report required under B5B above.

Measures other than those referred to in i.-vi. above, may be substituted for any of said measures, if Permittee/Owner/Operator can satisfy the Air Pollution Control Officer that total sulfur dioxide emissions from both the refinery and the sulfur recovery facilities will not exceed 29 tons/stream day.  
(basis: cumulative increase, offsets)

- C. When the Sulfur Plant is shutdown and Acid Plant is operating, the refinery will immediately take the following actions to insure the H<sub>2</sub>S going to the sulfur recovery facility is within the capacity of the Acid Plant under then-current operating conditions, and will not result in the emissions or more than 23 tons/stream day of SO<sub>2</sub> from both the refinery and the sulfur recovery facility.
  - i. Condense and store sufficient foul water stripper overhead, and/or
  - ii. Reduce feed rate to the Hydrocracker-HDN, and/or
  - iii. Reduce feed rate to the Coker, and/or
  - iv. Reduce feed rate to the No. 1 HDS Unit, and/or
  - v. Reduce feed rate to the No. 2 HDS Unit, and/or
  - vi. Reduce feed rate to the No. 3 HDS Unit.
  - vii. Calculate the emissions of SO<sub>2</sub> from all flares at the refinery, and report same to the District as part of the next monthly report required under B5B above.
  - viii. Report this event to the BAAQMD by telephone, within one (1) working day, and submit a written follow-up, detailing the measures taken to control SO<sub>2</sub> emissions during the event, as part of the next monthly report required under B5B above.

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Measures other than those referred to in i.- vi. above may be substituted for any of said measures, if Permittee/Owner/Operator can satisfy the Air Pollution Control Officer that total sulfur dioxide emissions from both the refinery and the sulfur recovery facilities will not exceed 23 tons/stream day.  
(basis: cumulative increase, offsets)

### B10. Access.

- A. The APCO or his representatives and the U. S. Environmental Protection Agency shall have access to appropriate portions of the refinery and wharf, 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 all records which are required to be maintained by Part B5 above, and any other records in Permittee's/Owner's/Operator's possession which will disclose the nature of quantity of emissions from refinery and marine operations.  
(basis: cumulative increase, offsets)

### B11. Enforcement.

Violation by Permittee/Owner/Operator of any of the conditions set forth in this Conditional Permit shall subject Permittee/Owner/Operator 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. 7401, et seq.). As appropriate, each and every such violation shall be deemed to be a discrete and separate violation with respect to which the District will be entitled to take legal action. (basis: cumulative increase, offsets)

### B12. Miscellaneous.

- A. No. 1 Isomerization Unit shall be dismantled within ninety (90) days after start-up of the No. 3 HDS Unit.
- B. Tanks A-142 and A-319 shall be dismantled within ninety (90) days prior to start-up of the NO. 3 HDS Unit.
- C. All equipment, facilities, and systems installed or used pursuant to, or to achieve compliance with the terms and conditions of, this

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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 of any rule or regulation of the Bay Area Air Quality Management District, the State of California or the United States Environmental Protection Agency.
- E. Any emission reductions which Permittee/Owner/Operator may be required to undertake in accordance with Part B3 above shall not be eligible to be credited as emission reductions against any subsequent projects for purposes of calculating "cumulative increases", nor shall they be eligible to be "banked" in accordance with the District's New Source Review Rule. However, any emission reductions which Permittee/Owner/Operator achieves in accordance with the Rules and Regulations of the District, above and beyond those reductions required pursuant to this Conditional Permit, may be so credited or "banked".
- F. In the event of changes in District regulations which will require actual reductions in the amount of emissions from existing sources which would otherwise be allowed under the terms of this Conditional Permit, the annual limits set forth in Part B2 above shall be reduced by the APCO by an amount equivalent to what would be required under any such rule change.
- G. The baseline emissions for purposes of the permit analysis of any proposed new or modified units, which may in the future be proposed to be built by Permittee/Owner/Operator within the boundaries of the Golden Eagle Refinery, will be the limits set forth in Part B2A above, as may be amended to reflect subsequent revisions to District rules pursuant to Part B12F or subsequent deposits to or withdrawals from the District's emissions bank, rather than actual emissions after the baseline period of 1977-1979 (which was used as the basis for issuance of this permit), if doing so is allowed pursuant to the SIP adopted version Section 604.2 of Regulation 2, Rule 2.
- H. Deleted. The No. 3 HDS Project was completed in the 1980's.
- I. Permittee/Owner/Operator shall apply for a permit when any tanks presently out of service or presently in exempt service are proposed to be placed in nonexempt service. The emissions from any such tanks shall be calculated and, if applicable, shall be subject to the

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requirements of G. above.

- J. Instrument downtime (including, but not limited to, in-stack 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 shall be determined by reference to the recorded value for that instrument from the last calendar day (or other relevant period) immediately preceding the day on which the instrument in question became inoperable, for which there was a valid reading, unless the Air Pollution Control Officer determines on the basis of other evidence (such as, but not limited to, the results of source tests conducted during the period in which the instrument is not operating, or changes in operating conditions of the unit in question) that some other value more reasonably reflects the actual emissions during the period in question.
  - K. Emissions in excess of applicable emission limitations resulting from breakdowns, malfunctions or other causes for which a variance, an interim variance, or an emergency 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 Part B2 above; provided, however, that this provision shall not excuse Permittee/Owner/Operator from the obligation to report to the District pursuant to B5B above the actual emissions from the emission points covered by this permit during the period covered by any such relief. This part (part B12K) of this condition is not federally enforceable.
  - L. If Permittee/Owner/Operator can demonstrate by modeling to the satisfaction of the Air Pollution Control Officer, consistent with the requirements of the SIP adopted version of Regulation 2, Rule 2 and applicable provisions of the federal Code of Regulations, that increased emissions of carbon monoxide from all emission points covered by this permit will not interfere with the attainment or maintenance of all applicable air quality standards for CO within the District, then the various limits for carbon monoxide set forth in Part B2 of this permit shall be adjusted accordingly.  
(basis: cumulative increase, offsets)
- B13. Severability. The provisions of this Conditional Permit are intended to be severable, and, if any individual condition or provision hereof is held to be



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invalid by order of any court of competent jurisdiction, or for any other reason, the remainder of this Conditional Permit shall not be affected thereby. (basis: cumulative increase, offsets)

- B14. Environmental Management Plan. Sixty days prior to start-up of the No. 2 Hydrogen Plant (S-994) HDS Unit, an initial Environmental Management Plan (EMP) shall be submitted to the District for review by the Air Pollution Control Officer. (basis: cumulative increase, offsets)

This plan shall specify how Permittee/Owner/Operator will assure that the permitted annual and monthly maximum emission limits set forth in Parts B2A and B2B above will not be exceeded, and also shall describe feasible options for providing emissions reductions which would be required under Part B3 above, if any of the emissions limits of Parts B2A and B2B were exceeded. The options to be described shall include the installation of various types of abatement equipment which would achieve permanent offsets, and the adoption by Permittee/Owner/Operator of various operational limitations and other short-term control measures which would limit emissions. Both long-term and short-term control options shall be discussed. The purpose of this plan is to provide assurance that Permittee/Owner/Operator is capable of taking all reasonable steps to assure that the various limits established by this Conditional Permit will be complied with, and to expedite any installation of abatement equipment if it is ever required.

The EMP shall be updated and resubmitted to the District for review by the APCO, whenever any of the limits set forth in Part B2D above are exceeded, or within 1 year after the most recent EMP submittal, whichever comes first. However, in the event that EMP submittal is triggered by an excess of any of the limits of Part B2D, that resubmittal shall also describe in detail the means by which Permittee/Owner/Operator will assure that the permitted annual emissions limit of Part B2A will not be exceeded for that calendar year, and shall describe in detail specific control techniques available, and the sources to which they would be most applicable, in the event that permanent offsets were needed.

To the extent that any EMP submittal contains confidential information, such information shall be afforded the protection provided by applicable laws, rules and regulations.

Once the APCO has reviewed an EMP submittal, the District staff's comments and recommendations on it shall be forwarded to Permittee/Owner/Operator as expeditiously as practicable. Within 30 days after its receipt of such comments and recommendations, Permittee/Owner/Operator shall either (1) revise the EMP to reflect such comments and recommendations; or (2) attach as an Appendix to the EMP all comments and recommendations which Permittee/Owner/Operator did not include in its EMP revision together with a detailed explanation as to why

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each comment and recommendation was not adopted or included in the EMP itself.

(basis: cumulative increase, offsets)

### CHANGES TO PERMIT NO. 548 (THE HYDROCRACKER EXPANSION PROJECT):

- C1. The HDN/Hydrocracker (S1007, S1008) feed rate shall not exceed 35,000 barrels per calendar day, or 37,000 barrels per stream day. Permittee/Owner/Operator may submit a permit application to change or remove this condition. (basis: cumulative increase, offsets)
- C2. In a District approved log, Permittee/Owner/Operator shall record the throughput of petroleum/VOC feed material to S-1007 in units of barrels per stream day.
- C3. Permittee/Owner/Operator shall not exceed 20 MMBtu/hr on a calendar day basis and 175,200 MMBtu/yr on any of the furnaces S928 through S933. (basis: cumulative increase)
- C4. Permittee/Owner/Operator shall not exceed 135 MMBtu/hr on a calendar day basis and 1,182,600 MMBtu/yr on either furnace S934 or S935. (basis: cumulative increase)

### Condition 8350

S1002 No. 1 HDS Unit  
S1003 No. 2 HDS Unit  
S1006 No. 1 HDA Unit  
S915 Platformer Intermediate Heater (F15)  
S916 No. 1 HDS Heater (F16)  
S917 No. 1 HDS Prefract Reboiler (F17)  
S919 No. 2 HDS Depent Reboiler (F19)  
S920 No. 2 HDS Charge Heater (F20)  
S921 No. 2 HDS Charge Heater (F21)

APPLICATION #6468,

MODIFIED BY APPLICATION 14325

ADMINISTRATIVELY CHANGED BY APPLICATION 18861 (JUNE 2009) REMOVED  
COMPLETED PARTS AND PARTS REDUNDANT WITH DISTRICT REGULATION

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### DIESEL FUEL MODIFICATION PROJECT PERMIT CONDITION 8350 PERMIT CONDITIONS FOR S-1002, NO. 1 HDS UNIT:

ADMINISTRATIVELY CHANGED BY APPLICATION 23322 (SEPTEMBER 2015) ADDED FIRING RATE LIMITS TO FURNACES IN ACCORDANCE WITH 1987 APPLICATION 164 AND 1991 APPLICATION 6468.

- A1. Permittee/Owner/Operator shall ensure that the No. 1 HDS Unit (S-1002) does not process more than 28,000 barrels of naphtha per day, based on a rolling 365-day average and that not more than 10,220,000 barrels of feed is processed at S-1002 during each 12 consecutive month period. (basis: cumulative increase)
- A2. Completed. (Final fugitive count submitted 3/24/94, showing emissions less than the initial 5.04 lb/day limit)
- A3. Deleted. (Completed. All new hydrocarbon vapor pressure relief valves associated with this project are vented to the refinery flare gas recovery system.)
- A4. Permittee/Owner/Operator shall maintain a District-approved file containing all measurements, and other data required to demonstrate compliance with the limits in this condition. This file shall include, but is not limited to, the daily throughput of naphtha processed by S-1002 summarized on a monthly basis. This material shall be kept available for District inspection for a period of at least 5 years following the date on which such measurements, records or data are made or recorded.  
(basis:cumulative increase)
- A5. Permittee/Owner/Operator of S-916 shall not exceed 55 MMBtu/hr on a calendar day basis and 481,800 MMBtu/yr. (basis: cumulative increase)
- A6. Permittee/Owner/Operator of S-917 shall not exceed 18 MMBtu/hr on a calendar day basis and 157,680 MMBtu/yr. (basis: cumulative increase)

### PERMIT CONDITIONS FOR S-1003, NO. 2 HDS UNIT:

- B1. Permittee/Owner/Operator shall ensure that the No. 2 HDS Unit (S-1003) does not process more than 40,000 barrels of diesel per day, based on a rolling 365-day average and that not more than 14,600,000 barrels of feed is processed at S-1003 during each 12 consecutive month period. (basis: cumulative increase)

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- B2. Completed. (Final fugitive count submitted 3/24/94, showing emissions less than the initial 4.04 lb/day limit)
- B3. Deleted. (Completed. All new hydrocarbon vapor pressure relief valves associated with this project are vented to the refinery flare gas recovery system.)
- B4. Permittee/Owner/Operator shall maintain a District-approved file containing all measurements and other data required to demonstrate compliance with the limits in this condition. This file shall include, but is not limited to, the daily throughput of diesel processed by S-1003, summarized on a monthly basis. This material shall be kept available for District inspection for a period of at least 5 years following the date on which such measurements, records or data are made or recorded. (basis: cumulative increase)
- B5. Permittee/Owner/Operator of S-919 shall not exceed 111 MMBtu/hr on a calendar day basis and 972,360 MMBtu/yr. (basis: cumulative increase)
- B6. Permittee/Owner/Operator of S-920 shall not exceed 63 MMBtu/hr on a calendar day basis and 551,880 MMBtu/yr. (basis: cumulative increase)
- B7. Permittee/Owner/Operator of S-921 shall not exceed 63 MMBtu/hr on a calendar day basis and 551,880 MMBtu/yr. (basis: cumulative increase)

### PERMIT CONDITIONS FOR S-1006,

#### NO. 1 REFORMER UNIT TO BE CONVERTED TO NO. 1 HDA UNIT:

- C1. Permittee/Owner/Operator shall ensure that the No. 1 HDA Unit (S-1006) throughput rate does not exceed 20,000 barrels per day, based on a rolling 365-day average and that not more than 7,300,000 barrels of feed is processed at S-1006 during each 12 consecutive month period.. (basis: cumulative increase)
- C2. Completed. (Final fugitive count submitted 3/24/94, showing emissions less than the initial 0.0 lb/day limit)
- C3. Deleted. (Completed. All new hydrocarbon vapor pressure relief valves associated with this project are vented to the refinery flare gas recovery system.)
- C4. Permittee/Owner/Operator shall maintain a District-approved file containing all measurements and other data required to demonstrate compliance with the limits in this condition. This file shall include, but is not limited to, the No. 1 HDA Unit (S-9006) throughput rate, summarized on a monthly basis. This material shall be kept available for District inspection for a period of at

## VI. Permit Conditions

least 5 years following the date on which such measurements, records or data are made or recorded.  
(basis: cumulative increase)

- C5. Permittee/Owner/Operator of S-915 shall not exceed 50 MMBtu/hr on a calendar day basis and 438,000 MMBtu/yr. (basis: cumulative increase)

### Condition 8535

S-1404 Sulfur Storage Tank A-756  
CONDITIONS FOR S-1404 AND A-1422, PLANT # 14628

1. The particulate emissions from the outlet of scrubber A-1422 shall not exceed 0.01 g/dscf. (basis: cumulative increase)
2. Sulfur storage tank, S-1404 shall not operate unless it is abated by scrubber A-1422 properly operating as designed, as needed to prevent visible emissions. (basis: cumulative increase, Regulation 6-1-301)
3. The owner/operator of scrubber A-1422 shall install and maintain a pressure drop monitor, and maintain a pressure drop of at least 9 inches water gauge across the scrubber. (basis: cumulative increase)

### Condition 8538

S714 Tank A-714  
APPLICATION 16050: CONDITIONS FOR TANK S-714 AND CAUSTIC SCRUBBER A-714:

1. Spent acid storage tank S-714 shall not operate unless it is abated by caustic scrubber A-714 and refinery vapor recovery system A-14, all operating properly as designed. (basis: cumulative increase)
2. Refinery vapor recovery system A-14 shall have a minimum precursor organic compound control efficiency of 98%, on a mass basis.
3. Only spent acid and associated organic material from the refinery alkylation unit shall be stored in tank S-714 unless the owner/operator of S-714 has received prior, written authorization from the District for an alternate material(s). (basis: cumulative increase)

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4. The true vapor pressure of the materials stored in tank S-714 shall not exceed 11 psia. (basis: cumulative increase)
5. The total material throughput for tank S-714 shall not exceed 500,000 barrels during any consecutive 12-month period. (basis: cumulative increase)
6. To demonstrate compliance with Condition Nos. 3, 4, and 5, the owner/operator of S-714 shall maintain the following records in a District approved log. These records shall be kept on site and made available for District staff inspection upon request for a period of 5 years from the date that the record was made (Basis: recordkeeping):
  - a. The types of material stored and the dates that the materials were stored.
  - b. The total throughput of each material stored, summarized on a monthly basis.
7. Deleted. Credits surrendered 10/19/1999.

### Condition 9875

Application 10544 (September 1993)

Application 13240 (January, 2006): Correct grandfathered throughput limit in the Title V permit. Make limit a hard limit and update the number of fugitive components.

Administratively Changed by Application 18861 (June 2009) Removed completed parts and parts redundant with District Regulations

S1452 Hydrocarbon Recovery System, which includes 47 oil/water wells, and associated pumps (39 Light Hydrocarbon Pumps and 8 Heavy Hydrocarbon Pumps (exempt), valves and flanges.

1. Deleted. (Redundant with Regulation 8-18.)
2. Deleted. (Completed. All new above ground pumps installed or replaced at S-1452 are sealless diaphragm type.)
3. Deleted. (Completed. All new valves in light liquid hydrocarbon service installed or replaced at S-1452 are either bellows or diaphragm type.)
4. Deleted. (Completed. All new valves in heavy liquid hydrocarbon service installed or replaced at S-1452 are either graphite packing, live loaded, or quarter turn type.)

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5. Completed. (Final fugitive component count provided 12/21/05 and offsets provided via Application 13240.)
6. The owner/operator shall not exceed a throughput of oil/water at S-1452 Hydrocarbon Recovery System of 5,000,000 bbl/yr. (basis: cumulative increase, offsets)

### Condition 10696

Application 12205: Modified Permit conditions to reflect the new changes in the Foul Water Stripper Charge System

Administratively Changed by Application 18861 (June 2009) Removed completed parts and parts redundant with District Regulations

Administratively Changed by Application 21711 (May 2010) Deleted Part 4.

S529 Tank A-529  
S530 Tank A-530  
S656 Tank A-846  
S658 Tank A-847  
S815 No. 1 Feed Prep Unit  
S816 No. 2 Feed Prep Unit  
S817 No. 3 Crude Unit

1. Volatile organic compound emissions from sources S-815, S-816, S-817, S-529, S-530, S-656, and S-658 shall be abated at all times by the vapor recovery system A-12 operating in conjunction with the No. 5 Gas Plant and the refinery flare gas recovery system, with an overall abatement efficiency of at least 95%. (basis: Regulation 1-301, toxics)
2. Deleted. (Redundant with Regulation 8-18.)
3. Deleted. (Completed. All new hydrocarbon vapor, pressure relief valves associated with this project are vented to the refinery flare gas recovery system.)
4. Deleted. (Final fugitive count submitted January 22, 1999 and additional offsets provided in 2010 via Application 12205.)

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### Condition 10984

S137 Tank A-137

PERMIT CONDITIONS FOR S-137, FIXED ROOF STORAGE TANK:

1. Source S-137 shall be abated by the properly maintained Vapor Recovery System, A-14, at all times that S-137 is in operation except as allowed in Regulation 8, Rule 5. (basis: cumulative increase)
2. The total liquid throughput for Storage Tank S-137 shall not exceed 1,915,000 barrels during any consecutive 12 month period. (basis: cumulative increase)
3. Only the materials, gasoline and/or petroleum products in recovered oil service, shall be stored in tank S-137, unless the owner/operator has received prior written authorization from the District for an alternate material(s). (basis: cumulative increase)
4. In order to demonstrate compliance with the above conditions, the owner/operator of tank S-137 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 type of all materials stored and the dates that the material were stored.
  - b. The total daily throughput of each material stored, summarized on a monthly basis.  
(basis: cumulative increase)

### Condition 11433

S802 FCCU Fluid Catalytic Cracker

S901 No. 7 Boiler

PERMIT CONDITION ID 11433 PLANT 14628 S-802 AND S-901, THE FCCU/CO  
BOILER PLANT:

ADMINISTRATIVELY REVISED VIA APPLICATION 15212 (MARCH 2007) ADDED  
CONSENT DECREE PARTS 7 THROUGH 12.

ADMINISTRATIVELY REVISED VIA APPLICATION 19647 (MARCH 2009)  
CONSOLIDATION OF BUBBLE CONDITION 4357 WITH CONDITION 8077



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ADMINISTRATIVELY REVISED VIA APPLICATION 17500 (JUNE 2009) CLARIFICATION  
OF CONSENT DECREE REQUIREMENTS, ADDING PARTS 13 - 16.

ALTERED BY APPLICATION 23075 (MAY 2011)

NOTE: The consent decree referenced in this condition is:

Case No. SA-05-CA-0569-RF; United States of America v. Valero Refining Company – California, et.al. in the United States District Court, Western District of Texas, San Antonio Division, Lodged 6/15/2005, Entered 11/23/2005

1. The FCCU/CO Boiler Plant, Sources S-802/S-901, shall be abated at all times of operation by the electrostatic precipitator A-30 operating properly as designed. (basis: cumulative increase, BACT, offsets)
2. Total emissions to the atmosphere from the FCCU/CO Boiler Plant, Sources S-802/S-901, shall not exceed the following limits in any calendar year.  
PM/PM10 151.5 ton/year  
POC 5.8 ton/year  
NOx 354.4 ton/year  
SO2 1335.5 ton/year  
CO 121.9 ton/year  
(basis: cumulative increase, BACT, offsets)
  - 2A. The owner/operator shall continuously monitor and record SO2 and NOx emissions exiting A30 to determine compliance with Part 2. Any new CEMs shall be reviewed and pre-approved the District Source Test Manager. (basis: cumulative increase, BACT)
  - 2B. The owner/operator shall install a continuous opacity monitor to ensure that the emission is not greater than 20% opacity for a period or periods aggregating more than three minutes in any hour when the boiler is burning CO gas from the FCCU. (basis: Reg. 6-1-302)
3. Deleted. (All new hydrocarbon vapor pressure relief valves associated with this project are vented to the refinery flare gas recovery system.)
4. To demonstrate compliance with the emission limits of part 2 above and Condition ID 8077, part B2, the Owner/Operator shall monitor and calculate all emissions, in lb/day, of NOx, CO, POC, PM/PM10, and SO2, associated with the FCCU/CO Boiler Plant, S-802 and S-901, and summarize and report these emissions to the District on a monthly basis, in accordance with the procedures and requirements specified in Condition ID 8077, part B5. (basis: cumulative increase, BACT, offsets)

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5. The Owner/Operator may submit for District review approved source test data to develop new emission factors for CO and precursor organic compounds, POC, to be used as alternatives to the emission factors specified in Permit No. 22769 (the No. 3 HDS Permit), if it can be shown that the new data are more representative of actual emissions. (basis: cumulative increase, offsets)
6. The Owner/Operator shall maintain a District approved file containing all measurements, records, charts, and other data which are required to be collected pursuant to the various provisions of this conditional permit, as well as all other data and calculations necessary to determine the emissions from the emission points covered by this permit, according to the procedures specified in Permittee/Owner/Operator's Permit No. 22769 (the No. 3 HDS Permit). This material shall be kept available for District staff inspection for a period of at least 5 years following the date on which such measurements, records or data are made or recorded. (basis: cumulative increase, offsets, BACT)
7. NO<sub>x</sub> concentration emission limits from the FCCU Regenerator shall not exceed 20 ppmvd at 0% O<sub>2</sub>, measured as a 365-calendar day rolling average, and 40 ppmvd at 0% O<sub>2</sub>, measured as a 7-calendar day rolling average, as determined prior to commingling with other streams. (basis: Consent Decree Paragraph 35)
8. SO<sub>2</sub> concentration emission limits from the FCCU shall not exceed 25 ppmvd at 0% O<sub>2</sub>, measured as a 365-calendar day rolling average, and 50 ppmvd at 0% O<sub>2</sub>, measured as a 7-calendar day rolling average. (basis: Consent Decree Paragraph 82)
9. CO emissions from the FCCU shall not exceed 500 ppmvd at 0% O<sub>2</sub>, measured as a one-hour block average. (basis: Consent Decree Paragraph 94)
10. Particulate concentration emissions limits from the FCCU shall not exceed 1 pound per 1000 pounds of coke burned (front half only according to Method 5B or 5F, as appropriate), measured as a one-hour average over three performance test runs. (basis: Consent Decree Paragraph 95)
11. The FCCU Regenerator (S-802) shall be an affected facility under 40 CFR 60 Subpart J for carbon monoxide (CO), opacity, particulate matter, and sulfur oxides (SO<sub>2</sub>) and the Owner/Operator shall comply with all applicable provisions of 40 CFR 60 Subparts A and J for FCCU Regenerators. The NSPS Subpart J limits for SO<sub>2</sub>, CO, opacity, and particulate matter, shall not apply during periods of startup, shutdown or

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malfunction of the FCCU or malfunction of the applicable control equipment. (basis: Consent Decree Paragraphs 99, 102, 107A and 110)

12. The FCCU short term NO<sub>x</sub> limit in Part 7 (40 ppmvd at 0% O<sub>2</sub>, measured as a 7-calendar day rolling average) and the short-term SO<sub>2</sub> limit in Part 8 (50 ppmvd at 0% O<sub>2</sub>, measured as a 7-calendar day rolling average) shall not apply during periods of FCCU feed hydrotreater outage, including startup, shutdown or malfunction of the hydrotreater. During hydrotreater outages, startup, shutdown or malfunction, Tesoro shall comply with the FCCU Feed Hydrotreater Outage Plan. (basis: Consent Decree Paragraph 85)
13. The Owner/Operator shall use NO<sub>x</sub> and O<sub>2</sub> CEMS to demonstrate compliance with the NO<sub>x</sub> emission limits in Part 7. The CEMS shall be installed, certified, calibrated, operated, and maintained in accordance with the applicable provisions of 40 CFR 60.13 and 40 CFR 60, Appendices A, B, and F. (basis: Consent Decree Paragraphs 61, 62)
14. The Owner/Operator of S-802 shall use SO<sub>2</sub> and O<sub>2</sub> CEMS to demonstrate compliance with the SO<sub>2</sub> emission limits in Part 8. The CEMS shall be installed, certified, calibrated, operated, and maintained in accordance with the applicable provisions of 40 CFR 60.13 and 40 CFR 60, Appendices A, B, and F. (basis: Consent Decree Paragraphs 90, 91)
15. The Owner/Operator of S-802 is exempt from notification requirements in accordance with 40 CFR Part 60, Subparts A and J, including without limitation 40 CFR 60.7, with respect to the provisions of 40 CFR Part 60, Subparts A and J, as such requirements apply to relate to CO, opacity, particulate matter, and SO<sub>2</sub> emissions from FCCU regenerators. (basis: Consent Decree Paragraphs 100, 108)
16. The Owner/Operator shall conduct the accuracy tests listed below on any CEMS used to comply with this permit condition unless that CEMS is otherwise subject to the requirements of NSPS Subparts A and J. These accuracy tests are allowed in lieu of the requirements of Part 60, Appendix F Paragraphs 5.1.1, 5.1.3 and 5.1.4. (basis: Consent Decree Paragraphs 62, 90, 101, 109)
  - a. Conduct either a RAA or a RATA on each CEMS at least once every three (3) years.
  - b. Conduct a CGA on each CEMS each calendar quarter during which a RAA or a RATA is not performed.
  - c. Conduct a FAT, as defined in BAAQMD regulations or procedures, if desired, in lieu of any required RAA or CGA.

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### Condition 11609

#### S32103 Fugitive Components Compressor Seals and Pump Seals

PERMIT CONDITIONS FOR PLANT 14628, A-40 TO ABATE FUGITIVE EMISSIONS FROM 6 EXISTING PUMPS, SERVING GASOLINE TO PIPELINES IN TRACT 6: (APPLICATION 13815)

Administratively Changed by Application 21711 (May 2010). Deleted Parts A3, C3 and D3 (completed flowrate tests) and Parts B1 through B6 (A41 is out of service). Revised B6A.

- A1. The Electric Thermal Oxidizer, A-40, shall have a minimum VOC destruction efficiency of 95% by weight, minimum of 0.5 second residence time, and minimum operating temperature of 1400o°F. (basis: cumulative increase, toxics)
- A2. The Electric Thermal Oxidizer, A-40, shall have a continuous temperature monitor. Each pump duct shall have a flow indicator. (basis: cumulative increase, toxics)
- A3. Completed (Source Test conducted 12/9/1994; reported to BAAQMD on 12/20/1994).
- A4. Permittee/Owner/Operator shall provide the District with notice 7 days in advance of connecting/removing a pump to A-40. The notice shall include the location of the pump and its identification number. In no case shall the total number of pumps connected to A-40 exceed 20. (basis: cumulative increase, toxics)
- A5. When A-40 is in operation, the owner/operator of A-40 shall:
  - a. Record in a District approved log the date and time that pump seal vapors are abated by A-40.
  - b. Monitor twice daily and record in a District approved log the operating temperature of A- 40.

Records shall be kept on site and made available for District inspection and be retained for at least 5 years from the date on which the record was made. (basis: cumulative increase)

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PERMIT CONDITIONS FOR PLANT 14628, EITHER A-41 OR A-14 TO ABATE FUGITIVE EMISSIONS FROM 8 EXISTING PUMPS, SERVING ALKYLATION UNIT, (APPLICATION 14138):

- B1. Deleted. (A41 is no longer in operation; VOC destruction efficiency of A14 Vapor Recovery System to Gas Plant and 40# Refinery Fuel Gas System does not need to be specified).
- B2. Deleted. ( A41 is no longer in operation).
- B3. Deleted. ( A41 is no longer in operation).
- B4. Deleted. ( A41 is no longer in operation).
- B5. Deleted. ( A41 is no longer in operation).
- B6. Deleted. (Each of the 8 pumps' single seals were replaced with District approved dual mechanical seals with a barrier fluid and operated such that the barrier fluid pressure is higher than the process liquid pressure. )
- B6A. Permittee/Owner/Operator shall ensure that total organic compound emissions from each Alkylation Unit dual seal pump vented to the A14 vapor recovery system does not exceed 100 ppm, subject to the leak repair provisions of Regulation 8, Rule 18.  
(basis: cumulative increase, Reg. 8-18, BACT)

PERMIT CONDITIONS FOR PLANT 14628, A-42 TO ABATE FUGITIVE EMISSIONS FROM 8 EXISTING PUMPS, SERVING HYDROCRACKER UNIT, (APPLICATION 14432):

- C1. The Hydrocracker Electric Thermal Oxidizer, A-42, shall have a minimum VOC destruction efficiency of 95% by weight. The Electric Thermal Oxidizer A-42 shall maintain a minimum of 0.5 second residence time, and minimum operating temperature of 1400°F. (basis: cumulative increase, offsets)
- C2. The Electric Thermal Oxidizer, A-42, shall have a continuous temperature monitor. Each pump duct shall have a flow indicator. (basis: cumulative increase, offsets)
- C3. Completed. (Source Test conducted within 60 days of startup as specified).
- C4. Permittee/Owner/Operator shall provide the District with notice 7 days in advance of connecting/removing a pump to A-42. The notice shall include the location of the pump and its identification number. In no case shall the total number of pumps connected to A-42 exceed 20.  
(basis: cumulative increase, offsets)

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- C5. When A-42 is in operation, the owner/operator of A-42 shall keep the following records:
- a. Record in a district approved log the date and time that pump seal vapors are abated by A-42.
  - b. Monitor twice daily and record in a District approved log the operating temperature of A-42. Records shall be kept on site and made available for District inspection and be retained for at least 5 years from the date on which the record was made.  
(basis: cumulative increase, offsets)

PERMIT CONDITIONS FOR PLANT 14628, A-43 TO ABATE FUGITIVE EMISSIONS ON 5 EXISTING PUMPS, SERVING TRACT 3, (APPLICATION 14432):

- D1. The Electric Thermal Oxidizer, A-43, shall have a minimum VOC destruction efficiency of 95% by weight. The Electric Thermal Oxidizer A-43 shall maintain a minimum of 0.5 second residence time, and minimum operating temperature of 1400oF. (basis: cumulative increase, offsets)
- D2. The Electric Thermal Oxidizer, A-43, shall have a continuous temperature monitor. Each pump duct shall have a flow indicator. (basis: cumulative increase, offsets)
- D3. Completed. (Source Test conducted within 60 days of startup as specified).
- D4. Permittee/Owner/Operator shall provide the District with notice 7 days in advance of connecting/removing a pump to A-43. The notice shall include the location of the pump and its identification number. In no case shall the total number of pumps connected to A-43 exceed 20. (basis: cumulative increase, offsets)
- D5. When A-43 is in operation, the owner/operator of A-43 shall keep the following records:
- a. Record in a District approved log the date and time that pump seal vapors are abated by A-43. (basis: cumulative increase, offsets)
  - b. Monitor twice daily and record in a District approved log the operating temperature of A-43. Records shall be kept on site and made available for District inspection and be retained for at least 5 years from the date on which the record was made. (basis: cumulative increase, offsets)

PERMIT CONDITIONS FOR PLANT 14628, A-14 TO ABATE FUGITIVE EMISSIONS ON 10 EXISTING PUMPS, SERVING NO 1. ISOMERIZATION (APPLICATION 14432):

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- E1. All VOC emissions from pump seals of the ten pumps, S-32103, in the No. 1 Isomerization Unit shall be vented to and controlled at all times by the Refinery Vapor Recovery System A-14. (basis: cumulative increase, offsets)
- E2. The No.1 Gas Plant Vapor Recovery System, A-14, shall have a minimum VOC destruction efficiency of 95% by weight. (basis: cumulative increase, offsets)
- E3. When A-14 is in operation, the owner/operator of A-14 shall keep the following records:
  - a. The daily operating time of A-14. Records shall be kept on site and made available for District inspection and be retained for at least 5 years from the date on which the record was made. (basis: cumulative increase, offsets)

### Condition 12016

Condition ID #12016  
Application 10912 Clean Fuels Project Permit Conditions

Administratively Revised by Application 19874 (July 2009) Updates for  
Combustion Sources

Administratively Revised by Application 21711 (May 2010). Delete Parts 9.1.5,  
9.1.6, 9.2.3, 9.2.4, 9.3, 9.4.4, 9.5, 9.10.1, 9.10.2, 9.11.1, 9.11.2 and 9.11.3.

Unless specified otherwise, the following permit conditions apply only to sources  
installed or modified as part of the Clean Fuels Project.

#### 9.1 Source Tests / Continuous Emission Monitors

For any source test or continuous emission monitor/recorder (CEM) required by  
any permit condition associated with the Clean Fuels Project, the following  
shall apply:

- 1. For the purposes of determining compliance with any of the emission limits in these Clean Fuels Project permit conditions (including emission limits with averaging times that exceed the typical source test duration), the applicable source test methods in the District's Manual of Procedures shall be sufficient for documenting compliance and non-compliance. All source testing and monitoring shall be done in accordance with the District Manual of Procedures. Written source testing protocol shall be submitted to the District Source Test Division for review and approval at least 30 days prior to conducting the source test. (basis: cumulative increase, offsets, BACT)

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2. The District Source Test Division shall be notified in writing of the date and time of any source test, at least 2 weeks prior to conducting the source test. (basis: cumulative increase, offsets, BACT)
3. The initial source tests required by these permit conditions shall be conducted according to the following schedule:
  - a) within 60 days of startup; or
  - b) within 30 days of achieving maximum production rate, if maximum production is not achieved within the first 30 days following startup, not to exceed 150 days from initial startup. (basis: cumulative increase, offsets, BACT)
4. Written source test results shall be submitted to the District Source Test Division and the District permit engineer within 60 days of completion of the source test, unless an extension is approved by the District. In all cases, written source test results must be received by the District within 150 days of startup. (basis: cumulative increase, offsets, BACT)
5. Completed. (Permittee/Owner/Operator provided the location of all sampling ports, platforms, etc... to the District Source Test Division for review and approval.)
6. Completed. (Permittee/Owner/Operator submitted the CEM design to the District Source Test Section for review and approval.)
7. Each CEM shall be installed, maintained, calibrated and operated in accordance with all applicable District regulations. Permittee/Owner/Operator shall use a computer or stripchart to record, store, and report a summary of the CEM data for the monthly report. For any CEM that is used to verify compliance with a concentration limit that is averaged over a specified time period, average concentrations shall be calculated. These average concentrations shall be summarized in the monthly report. (basis: cumulative increase, offsets, BACT)

### 9.2 Record Keeping & Monthly Reporting

1. Permittee/Owner/Operator shall keep records of all necessary information to demonstrate compliance with all permit conditions associated with the Clean Fuels Project. All records shall be retained for at least two years from the date of entry, and shall be made available to the District upon request. This includes, but is not limited to, records of source test data, CEM data, fuel usage, emission calculations and fugitive component counts. Permittee/Owner/Operator shall also keep all records required by NSPS and NESHAP regulations. (basis: cumulative increase, offsets, NSPS, NESHAP)



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- 2 Deleted. (All information required to determine compliance was submitted March 1, 1995.)
- 3 Deleted. (Monthly Reporting Requirements included in Condition 8077 and in Regulation 9, Rule 10)
- 4 Deleted. (Annual Reporting Requirements included in Condition 8077 and in Regulation 9, Rule 10)

### 9.3 Offsets

- 1 Deleted. (Final fugitive count and list of installed sources submitted with Application 21711 and additional offsets provided in 2010 via Application 10912)

### 9.4 Fugitives

Conditions 9.4-1 through 9.4-4 for fugitive emissions apply only to POC gaseous and light-liquid services.

- 1 Deleted. (The Authority to Construct design requirements for fugitive components are completed.)
- 2 Deleted. (The Authority to Construct design requirement for compressors is completed.)
- 3 Deleted. (The Authority to Construct design requirement definition of light liquid service for fugitive components is no longer needed.)
- 4 Deleted. (Final fugitive count submitted with Application 21711 and additional offsets provided in 2010 via Application 10912. Facility is permitted to emit 21.26 tons/yr POC from the Clean Fuels Project)

9.5 Deleted. (Fuel Gas System requirements triggered by NSPS and BACT. Since there were no new or modified combustion sources installed, these requirements are not applicable)

9.6 Combustion Sources (S-1033, S-1034, S-1035 and S-1036) These sources were not installed and conditions associated with these sources have been deleted. (basis: cumulative increase)

9.7 Storage Tanks (S-773, S-774, S-776, S-777, S-778, S-779, S-783, S-784, S-785, S-786, and S-787) These sources were not installed and conditions associated with these sources have been deleted. (basis: cumulative increase)

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9.8 Flares (A-33 and A-35) These control devices were not installed and conditions associated with these control devices have been deleted. (basis: cumulative increase)

9.9 Cooling Towers (S-989, S-993, and S-994) These sources were not installed and conditions associated with these sources have been deleted. (basis: cumulative increase)

9.10 Toxics

1. Deleted. (Final Project Risk did not exceed 4.5 in a million.)
2. Deleted. (Final fugitive count submitted with Application 21711 and additional offsets provided in 2010 via Application 10912. Facility is permitted to emit 21.26 tons/yr POC from the Clean Fuels Project)

9.11 Summary of Refinery Cap Revisions (Refer to Appendix B, Tables B-1 and B-2.)

1. Deleted. (The S-903 element of the CFP was not installed.)
2. Deleted. (The CFP S773 and S774 element was not installed.)
3. Deleted. (The CFP S937 element was not installed.)
4. Deleted. (The Authority to Construct requirement to revise S-850 throughput in Condition 8077 was completed.)

### Condition 13282

APPLICATION 11395 CONSTRUCTION OF TK-757 (S-1421)

APPLICATION 17537/17538 (2008) REMOVE COMPLETED AND REDUNDANT TANK CONDITIONS

THE FOLLOWING CONDITIONS SHALL APPLY TO SOURCE S-1421 WHENEVER NON-EXEMPT ORGANIC MATERIALS ARE STORED IN THE TANK.

1. The throughput of all materials at S-1421 (Tank 757) shall not exceed 2,490,000 barrels during any consecutive 12-month period, unless the owner/operator can show, through monthly recordkeeping and District-approved calculations, that total precursor organic compound emissions from S-1421 (Tank 757) organic liquid storage tank do not exceed 1.033

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tons during any consecutive 12 month period. (basis: cumulative increase, offsets)

2. The owner/operator may store hydrocarbon materials other than light end saturated diesel, gasoline (RVP=7), provided the following three criteria are met:
  - a) the true vapor pressure of the alternate material is not greater than gasoline with RVP=7,
  - b) the increase in toxic risk from the tank does not exceed the District's toxic screening levels, and;
  - c) the owner/operator has applied for and received prior written approval for the alternative material(s). The request shall include an analysis of toxic emission increases when appropriate. (basis: cumulative increase, toxics)
3. Deleted. Compliance with the tank design criteria was verified in a 2008 audit for Application 11395.
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 was made.
  - a) The type of organic liquid stored and the dates that the organic liquids were stored.
  - b) The monthly tank throughput for each material stored on the tank surface.(basis: cumulative increase, toxics, Regulation 8-5, offsets)

### Condition 13509

Administratively changed by Application 19419 (June 2009). Updated to remove the completed source test Part 4 and parts redundant with District regulations.

S955 IC Engine, Compressor 4064, Abated by A955 SCR  
S956 IC Engine, Compressor 4065, Abated by A956 SCR  
S957 IC Engine, Compressor 4066, Abated by A957 SCR  
S958 IC Engine, Compressor 4067, Abated by A958 SCR  
S959 IC Engine, Compressor 4068, Abated by A959 SCR  
S960 IC Engine, Compressor 4096, Abated by A960 SCR

THE FOLLOWING CONDITIONS ARE EFFECTIVE JANUARY 1, 1997 ON SOURCES S-955, S-956, S-957, S-958, S-959 AND S-960

APPLICATION #15392 (1996): ADD SCRS FOR NOX CONTROL

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ADMINISTRATIVELY CHANGED BY APPLICATION 19419 (JUNE 2009): REMOVED REDUNDANT PARTS 2 & 3 AND COMPLETED PART 4.

ADMINISTRATIVELY CHANGED BY APPLICATION 23848 (JUNE 2012): UPDATED TO SHOW SOURCES ABATED BY SCRS (TESORO 2011 TV APPEAL ITEM 5).

1. This engine shall be fired exclusively on natural gas. (basis: toxics)
2. Deleted (basis: NOx emissions limit Redundant with Regulation 9-8-301.2)
3. Deleted (basis: CO emissions limit Redundant with Regulation 9-8-301.2)
4. Deleted (basis: Initial Source Test completed prior to the granting of the permit to operate August 1, 1996)

### Condition 13605

Application 25142 (March, 1996)

Amended by Application 10667 (November, 2004): Increase Reid vapor pressure from 2 to 9 psia, decrease throughput from 11,000,000 barrels/yr to 2,000,000 barrels/yr, add source testing to determine POC destruction efficiency of A-14 Vapor Recovery and process heaters.

Application 19415, (February 2009) added S-1528 Alkylate Railcar Unloading Rack

Administratively Changed by Application 24362 (June 2012) Removed S-913 from the source test requirements of Part 4 since no longer fired with 40# fuel gas.

S-323 Fixed Roof Tank; Tank A-323, Capacity 924K Gallons, Storing: Alkylate Gasoline Blending Components abated by A-14 Vapor Recovery System

S-1528 Alkylate Railcar Unloading Rack, for unloading into S-323

1. The Owner/Operator shall ensure that the net throughput of all VOC/petroleum materials at S-323 (Tank 323) and S-1528 does not exceed 2,000,000 barrels during each rolling consecutive 12-month period. A level-monitoring device in S-323 will measure the height of the tank. The change in height will be used to calculate throughput.  
(basis: cumulative increase)
2. The owner/operator may store hydrocarbon materials other than gasoline and alkylate blending components in S-323, provided the following two criteria are met:

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- a) the Reid vapor pressure of the alternate material is not greater 9.0 psia (true vapor pressure not greater than 7.6 psia at 70F), and
- b) POC emissions, based on the maximum throughput in part 1, do not exceed 1922.79 pounds per year; and
- c) the resulting toxic risk from the tank does not cause the tank to fail a risk screen analysis.

(basis: cumulative increase, toxics)

3. Notwithstanding any provision of District regulations allowing for either the maintenance or malfunction of A-14 due to a valid break down at No. 1 Gas Plant vapor recovery compressor(s), the Owner/Operator shall ensure that fixed roof tank S-323 vents to existing vapor recovery unit, A-14, or an equivalent District-approved abatement system, having a minimum overall VOC control efficiency of 99.5% on a mass basis. In accordance with the NSPS requirements of 40 CFR 60, Subpart Kb, Owner/Operator shall ensure that this tank is maintained leak-free (less than 500 ppm above background as methane). (basis: cumulative increase, NSPS)
4. To determine compliance with part 3, the owner/operator shall conduct a District approved source test at each of the following sources every 5 years in the year prior to the Title V Permit Renewal (initial compliance has been demonstrated in a source test for AN 6201 by TIAX on October 28, 2003).

S-908 No. 8 Furnace @ No. 3 Crude Unit  
S-909 No. 9 Furnace @ No. 1 Feed Prep.  
S-912 No. 12 Furnace @ No. 1 Feed Prep.

For each source, the owner/operator must measure the following:

- the fuel feed rate in pounds/hr
- the POC emission rate at the stack
- the flue gas flow rate in SCFM at the stack
- the oxygen content of the stack flue gas
- the stack temperature
- the destruction efficiency of POC as measured across the combustion device

The owner/operator shall submit individual copies of the results of the source tests (along with related calculations and process data) to the District's Engineering Division, Enforcement Division, and Source Test Division within 35 days of the source test.

(basis: Cumulative Increase, Toxic Risk Screen, Offsets, Regulation 1-238)

5. To determine compliance with the above parts, the owner/operator shall maintain the following records and provide all of the data necessary to evaluate compliance with the above conditions, including, but not

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necessarily limited to, the following information:

- a. On a monthly basis, type and amount of liquids transferred through S-1528 and stored in S-323 and Reid vapor pressure ranges of such liquids.
- b. The throughput of material shall be added and recorded in the log for each month and for each rolling consecutive 12-month period.
- c. The time, date, duration, and reason for each instance that S-323 is not abated by A-14.

These records shall be kept on-site for at least 5 years. All records shall be recorded in a District-approved log and made available for inspection by District staff upon request. These recordkeeping requirements shall not replace the recordkeeping requirements contained in any applicable District Regulations.

(basis: Cumulative Increase, Toxic Risk Screen, Offsets, Regulation 1-441, Regulation 8-5-501, Regulation 1-238)

### Condition 14905

PERMIT CONDITIONS FOR S-32102, TWO 12 INCH PIPELINES PROJECT,  
APPLICATION 17340.

ADMINISTRATIVELY DELETED BY APPLICATION 21711 (MAY 2010). ALL PARTS  
COMPLETED OR REDUNDANT WITH DISTRICT REGULATIONS.

1. Deleted. (Redundant with Regulation 8-18.)
2. Deleted. (All new above ground pumps installed or replaced are BACT compliant double mechanical seals with barrier fluid type.)
3. Deleted. (All new valves in light liquid hydrocarbon service installed or replaced are BACT compliant graphite gasketed type.)
4. Deleted (report of final count of actual built valves and flanges, 6/1/99).

### Condition 15204

S-952 IC Engine, Compressor 4023, Abated by A-952 NSCR  
S-953 IC Engine, Compressor 4024, Abated by A-953 NSCR  
S-954 IC Engine, Compressor 4025, Abated by A-954 NSCR

THE FOLLOWING CONDITIONS FOR THE NO. 1 GAS PLANT  
COMPRESSOR ENGINES ARE EFFECTIVE JANUARY 1. 1997

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Application 16779 (1996): Add NSCRs For NOx and CO Control

Administratively changed by Application 19419 (June 2009). Updated to remove parts 2, 3 and 4 that are redundant with District regulations.

Administratively changed by Application 23848 (June 2012): Updated to show sources abated by NSCRs (Tesoro 2011 TV Appeal Item 5).

1. Compressor engines S-952, S-953, and S-954 shall be fired exclusively on natural gas. (basis: cumulative increase)
2. Delete (basis: NOx emissions limit Redundant with Regulation 9-8-301.1)
3. Delete (basis: CO emissions limit Redundant with Regulation 9-8-301.3)
4. Delete (basis: Particulate emissions limit redundant with Regulation 6-1-301)

### Condition 16516

Application 18835/18832 (2008) New Gasoline Station

Conditions for S1525 Vehicle gasoline dispensing, Plant # 14628

For each above ground storage tank, the Static Pressure Performance Test (Leak Test) ST-38 shall be successfully conducted at least once in each twelve consecutive month period after the date of successful completion of the startup Static Pressure Performance Test.

The applicant shall notify Source Test by email at [gdfnotice@baaqmd.gov](mailto:gdfnotice@baaqmd.gov) or by FAX at (510) 758-3087, at least 48 hours prior to any testing required for permitting. Test results for all performance tests shall be submitted in a District-approved format within fifteen (15) days of testing. Start-up tests results submitted to the District must include the application number and the GDF number. (For annual test results submitted to the District, enter "Annual" in lieu of the application number.) Test results may be submitted by email ([gdfresults@baaqmd.gov](mailto:gdfresults@baaqmd.gov)), FAX (510) 758-3087 or mail (BAAQMD Source Test Section, Attention Hiroshi Doi, 939 Ellis Street, San Francisco, CA 94109). (Basis: Regulation 8-7-407)

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### Condition 16685

AVON REFINERY  
 CONDITION ADDED 09/02/99

Application 18739 (November 2008) Removal of S-903 & S-924

Application 19300 (December 2008) Removed S-904 No. 6 Boiler House  
 (because S-904 is included in Condition 17322)

Administratively Revised via Application 19647 (March 2009) Consolidation of  
 Bubble Condition 4357 with Condition 8077

Administratively Deleted by Application 19874 (July 2009) Updates for  
 Combustion Sources – Combined with Condition 18372.

Administratively Reinstated Part 1 by Application 21464 (April 2010)

Administratively Revised by Application 25523 (Sept 2015) Revised S-926.

Administratively Revised by Application 23322 (Sept 2015).

Part #1:

Permittee/Owner/Operator shall ensure that each combustion source listed below does 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>District Source Number (#)</b>	<b>Firing Rate Used for Fees (MMBTU/hr)</b>	<b>Firing Rate Enforceable Limit (MMBTU/day)</b>	<b>District/ Permittee Source Description</b>
S-908	220	5280	#8 Furnace No. 3 Crude Heater
S-909	145	3480	#9 Furnace #1 Feed Prep. Heater
S-912	135	3240	#12 Furnace -#1 Feed Prep. Heater
S-913	59	1416	#13 Furnace -#2 Feed Prep. Heater
S-915	50	1200	#15Furnace –Plat former Intermediate Heater
S-916	55	1320	#16 Furnace -#1 HDS Heater
S-917	18	432	#17 Furnace -#1 HDS Prefractionator Reboiler
S-919	111	2664	#19Furnace -#2 HDS Depentanizer Reboiler
S-920	63	1512	#20 Furnace -#2 HDS Charge Heater
S-921	63	1512	#21 Furnace -#2 HDS Charge Heater
S-922	130	3120	#22 Furnace -#5 Gas Debutanizer Reboiler
S-926	130	3120	#26 Furnace -#2 Reformer Splitter Reboiler



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S-927	280	6720	#27 Furnace -#2 Reformer Heater AND Reheating
S-928	20	480	#28 Furnace –HDN Reactor A Heater
S-929	20	480	#29 Furnace –HDN ReactorB Heater
S-930	20	480	#30 Furnace –HDN Reactor C Heater
S-931	20	480	#31 Furnace –Hydrocracker Reactor 1 Heater
S-932	20	480	#32 Furnace –Hydrocracker Reactor 2 Heater
S-933	20	480	#33 Furnace –Hydrocracker Reactor 3 Heater
S-934	135	3240	#34 Furnace –Hydrocracker Stabilizer Reboiler
S-935	135	3240	#35 Furnace –Hydrocracker Splitter Reboiler
S-937	743	17832	#37 Furnace –Hydrogen Plant Heater
S-950	440	10560	#50 Furnace – 50 Unit Crude Heater
S-951	30	720	#51 Furnace-#2 Reformer Auxiliary Reheater
S-971	300	7200	#53 Furnace -#3 Reformer UOP Furnace
S-972	45	1080	#54 Furnace -#3 Reformer Debutanizer Reboiler
S-973	110	2640	#55 Furnace-No 3 HDS Recycle Gas Heater
S-974	55	1320	#56 Furnace-No 3 HDS Fractionator Feed Heater

(basis: Regulation 2-1-403, Bubble  
Condition 4357/8077 for S917 via Application 19647)

### Condition 17322

APPLICATION 19418; PLANT NO. 14628

Application 19300 (December 2008) Remove S-904 Backup CO Boiler Service

Administratively Revised via Application 19647 (March 2009) Consolidation of  
Bubble Condition 4357 with Condition 8077

Administratively Revised by Application 19874 (July 2009) Updates for  
Combustion Sources

Application 23194 (August 2011) S-904 Burner Replacement Alteration (revised  
firing rate limits in Part 1, added clarifying language regarding firing limits,  
corrected basis of Part 1 and 1a, added Part 1b)

Application 23194 Authority to Construct Cancelled March 2013. Part 1 revised  
to pre-AC firing rate.

Conditions for Industrial Boiler S-904 (No. 6 Boiler):

1. Permittee/Owner/Operator shall ensure that Boiler S-904 is not fired  
above its maximum firing rate of 775 MMBTU/hr (HHV) heat input at  
any time.  
(basis: Application 19418 alteration)
- 1a. S-904, boiler # 6 shall burn only gaseous fuels. (basis: Application 6792  
alteration)

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- 1b. Deleted.
2. Permittee/Owner/Operator shall ensure that Boiler S-904 is retrofitted with and abated by A-904 in accordance with the District-approved control plan submitted under Regulation 9-10-401.  
(basis: Regulation 9-10-401)
3. Deleted. (Fuel flow meter installed).
4. Permittee/Owner/Operator shall ensure that Boiler S-904 is equipped with District-approved, in-stack continuous emission monitoring systems (CEMS) for nitrogen oxides (NO<sub>x</sub>), carbon monoxide (CO), and oxygen (O<sub>2</sub>) prior to July 1, 2000. The CEMS shall be maintained in good working order in accordance with the District Manual of Procedures, Volume V.  
(basis: Regulation 9-10-302, Regulation 9-10-305)
- 4a. Deleted. (S-904 no longer providing backup Coker CO Boiler service so the requirements of Regulations 1-520.6 and 6-1-302 no longer apply.)
5. Permittee/Owner/Operator shall ensure that ammonia stack emissions from Boiler S-904 resulting from the operation of A-904 SCR system shall not exceed 20 ppmv, dry @ 3% O<sub>2</sub>. (basis: toxics)
6. Permittee/Owner/Operator shall ensure that a semi-annual source test shall be performed for ammonia, in accordance with the District Manual of Procedures. In addition to the requirements in this regulation, Permittee/Owner/Operator shall ensure that the following procedures are followed:
  - A. Permittee/Owner/Operator shall submit a source test protocol to the Manager of the District's Source Test Section at least seven (7) days prior to the test, for District approval and to provide District staff the option of observing the testing.
  - B. Permittee/Owner/Operator shall ensure that source test conditions are representative of the normal operating ranges and conditions of the boiler.
  - C. Permittee/Owner/Operator shall ensure that within 60 days of test completion, a comprehensive report of the test results shall be submitted to the District's Director of Enforcement.
  - D. Deleted. (Initial source tests completed. Semiannual Ammonia source test now included in Part 6.)  
(basis: toxics)
7. Deleted. (Basis: Redundant with Regulation 9-10-504.1 ).

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8. Deleted. (Basis: Redundant with Condition 8077, added via Application 19300).

### CONDITIONS FOR FURNACES S-916 AND S-921:

9. Deleted. (Maximum firing rates of S-916 and S-921 are included in Condition 16685, Part 1.)
10. Deleted. (New burners were not installed in S-916 and S-921, consistent with the revised Alternative Compliance Plan dated July 23, 2002.)
11. Deleted. (The fuel meter requirement is redundant with Regulation 9-10-502.2.)12.
12. Deleted. (New burners were not installed in S-916 and S-921, consistent with the revised Alternative Compliance Plan dated July 23, 2002.)
13. Deleted. (New burners were not installed in S-916 and S-921, consistent with the revised Alternative Compliance Plan dated July 23, 2002. Monitoring and Source Test requirements for existing burners are located in NOx Box Condition 18372.)
14. Deleted. (The recordkeeping requirement is redundant with a more stringent Regulation 9-10-504.)15.
15. Deleted. Redundant with Condition 8077, Part B2..

### Condition 17477

APPLICATION 669 TANK RECONFIGURATION PROJECT TRACTS 4 & 6 (2000-2001)

APPLICATION 17537/17538 (2008) REMOVE COMPLETED AND REDUNDANT TANK CONDITIONS

ADMINISTRATIVELY CHANGED BY APPLICATION 21711 (MAY 2010). DELETED PARTS B1 THROUGH B6.

S-1461 External Floating Roof Tank; Capacity: 240,000 BBL, Storing: Crude Oil

- A1) Permittee/Owner/Operator shall ensure that the total throughput of all VOC/petroleum materials to S-1461 does not exceed 50,000,000 barrels

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(2,100,000,000 gallons) during any 12 consecutive month period. (basis: cumulative increase, toxics)

- A2) Permittee/Owner/Operator shall ensure that the true vapor pressure of each and all VOC/petroleum materials throughput to and/or stored in S-1461 is less than or equal to 10 psia. (basis: cumulative increase)
- A3) Deleted. Compliance with the tank design criteria was verified when S-1461 was granted a Permit to Operate in 2001 via Application 669.
- A4) Deleted. Final fitting count was verified for S-1461 in a 2008 audit. Offsets were adjusted in August 2002 via Application 669.
- A5) VOC/petroleum material other than Crude Oil may be throughput to or stored at S-1461, if all of the following are satisfied:
  - a) the storage of each material complies with all other conditions applicable this source
  - b) the storage of each material complies with all other applicable regulatory requirements
  - c) the Permittee/Owner/Operator creates and maintains District approved records which demonstrate to the District's satisfaction that no toxin listed in Table 2-5-1 is emitted from S-1461 in an amount in excess of the toxin's respective trigger level set forth in Table 2-5-1. (basis: cumulative increase, toxics)
- A6) On a monthly basis, the Permittee/Owner/Operator shall record the throughput of each VOC/petroleum material throughput to S-1461, in gallon or barrel units, by name (e.g., Kerosene, Crude Oil, Jet A) in a District approved log for each month and each rolling 12 consecutive month period. The District approved log shall be retained on site for not less than 5 years from date of last entry and be made available to District staff upon request. (basis: cumulative increase, toxics)

S-1462 External Floating Roof Tank; Capacity: 240,000 BBL, Storing: Crude Oil or HDS Gas Oil (Source not constructed; Application 699 Authority to Construct cancelled in 2002.)

- B1) Deleted. (Source not constructed; Application 699 Authority to Construct cancelled in 2002.)
- B2) Deleted. (Source not constructed; Application 699 Authority to Construct cancelled in 2002.)

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- B3) Deleted. (Source not constructed; Application 699 Authority to Construct cancelled in 2002.)
- B4) Deleted. (Source not constructed; Application 699 Authority to Construct cancelled in 2002.)
- B5) Deleted. (Source not constructed; Application 699 Authority to Construct cancelled in 2002.)
- B6) Deleted. (Source not constructed; Application 699 Authority to Construct cancelled in 2002.)
- S-1463 External Floating Roof Tank, Capacity: 240,000 BBL,  
Storing: Crude Oil or HDS Gas Oil
- C1) Permittee/Owner/Operator shall ensure that the total throughput of all VOC/petroleum materials to S-1463 does not exceed 50,000,000 barrels (2,100,000,000 gallons) during any 12 consecutive month period. (basis: cumulative increase, toxics)
- C2) Permittee/Owner/Operator shall ensure that the true vapor pressure of each and all VOC/petroleum materials throughput to and/or stored in S-1463 is less than or equal to 10 psia. (basis: cumulative increase)
- C3) Deleted. Compliance with the tank design criteria was verified when S-1463 was granted a Permit to Operate in 2001 via Application 669.
- C4) Deleted. Final fitting count for S-1463 was verified in a 2008 audit. Offsets were adjusted in August 2002 via Application 669.
- C5) VOC/petroleum material other than Crude Oil or HDS Gas Oil may be throughput to or stored at S-1463, if all of the following are satisfied:
- a) the storage of each material complies with all other conditions applicable this source
  - b) the storage of each material complies with all other applicable regulatory requirements
  - c) the Permittee/Owner/Operator creates and maintains District approved records which demonstrate to the District's satisfaction that no toxin listed in Table 2-5-1 is emitted from S-1463 in an amount in excess of the toxin's respective trigger level set forth in Table 2-5-1. (basis: cumulative increase, toxics)
- C6) On a monthly basis, the Permittee/Owner/Operator shall record the throughput of each VOC/petroleum material throughput to S-1463, in gallon

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or barrel units, by name (e.g., Kerosene, Crude Oil, Jet A) in a District approved log for each month and each rolling 12 consecutive month period. The District approved log shall be retained on site for not less than 5 years from date of last entry and be made available to District staff upon request. (basis: cumulative increase, toxics)

S-1464 External Floating Roof Tank, Capacity: 100,000 BBL,  
Storing: Jet A or Diesel or Kerosene

- D1) The total throughput of all VOC/petroleum materials to S-1464 shall not exceed 10,000,000 barrels (420,000,000 gallons) during any 12 consecutive month period. (basis: cumulative increase, toxics)
- D2) The true vapor pressure of each and all VOC/petroleum materials throughput to and/or stored in S-1464 shall be less than or equal to 0.2 psia. (basis: cumulative increase)
- D3) Deleted. Final fitting count was verified for S-1464 in a 2008 audit. Offsets were adjusted in August 2002 via Application 669.
- D4) VOC/petroleum material other than Jet A or Diesel or Kerosene may be throughput to or stored at S-1464, if all of the following are satisfied:
- a) the storage of each material complies with all other conditions applicable this source
  - b) the storage of each material complies with all other applicable regulatory requirements
  - c) the Permittee/Owner/Operator creates and maintains District approved records which demonstrate to the District's satisfaction that no toxin listed in Table 2-5-1 is emitted from S-1464 in an amount in excess of the toxin's respective trigger level set forth in Table 2-5-1. (basis: cumulative increase, toxics)
- D5) On a monthly basis, the Permittee/Owner/Operator shall record the throughput of each VOC/petroleum material throughput to S-1464, in gallon or barrel units, by name (e.g., Kerosene, Crude Oil, Jet A) in a District approved log for each month and each rolling 12 consecutive month period. The District approved log shall be retained on site for not less than 5 years from date of last entry and be made available to District staff upon request. (basis: cumulative increase, toxics)

S-1465 EXTERNAL FLOATING ROOF TANK, CAPACITY: 100,000 BBL,  
STORING: JET A OR DIESEL OR KEROSENE

## VI. Permit Conditions

- E1) Permittee/Owner/Operator shall ensure that the total throughput of all VOC/petroleum materials to S-1465 does not exceed 10,000,000 barrels (420,000,000 gallons) during any 12 consecutive month period. (basis: cumulative increase, toxics)
- E2) Permittee/Owner/Operator shall ensure that the true vapor pressure of each and all VOC/petroleum materials throughput to and/or stored in S-1465 is always less than or equal to 0.2 psia. (basis: cumulative increase)
- E3) Deleted. Final fitting count was verified for S-1465 in a 2008 audit. Offsets were adjusted in August 2002 via Application 669.
- E4) VOC/petroleum material other than Jet A, Diesel, or Kerosene may be throughput to or stored at S-1465, if all of the following are satisfied:
  - a) Permittee/Owner/Operator ensures that the storage of each material complies with all other conditions applicable this source
  - b) Permittee/Owner/Operator shall ensure that the storage of each material complies with all other applicable regulatory requirements
  - c) the Permittee/Owner/Operator creates and maintains District approved records which demonstrate to the District's satisfaction that no toxin listed in Table 2-5-1 is emitted from S-1465 in an amount in excess of the toxin's respective trigger level set forth in Table 2-5-1. (basis: cumulative increase, toxics)
- E5) On a monthly basis, the Permittee/Owner/Operator shall record the throughput of each VOC/petroleum material throughput to S-1465, in gallon or barrel units, by name (e.g., Kerosene, Crude Oil, Jet A) in a District approved log for each month and each rolling 12 consecutive month period. The District approved log shall be retained on site for not less than 5 years from date of last entry and be made available to District staff upon request. (basis: cumulative increase, toxics)

### Condition 17837

#### S-817 No. 3 Crude Unit

- 1) Permittee/Owner/Operator shall ensure that the total throughput of all feed materials (i.e., crude oil, slop oil, etc.) to the No. 3 Crude Unit shall not exceed 63,000 barrels per calendar day. (basis: Reg. 2-1-234.3, Reg. 2-1-403, Reg. 2-6-503)
- 2) Permittee/Owner/Operator shall ensure that the total throughput of all feed materials to the No. 3 Crude Unit shall not exceed 22,995,000 barrels per rolling 365 consecutive day period. (basis: Reg. 2-1-234.3, Reg. 2-1-403, Reg. 2-6-503)

## VI. Permit Conditions

- 3) In a District approved log, the Permittee/Owner/Operator shall record the volume (in barrels) of all feed materials throughput to the No. 3 Crude Unit during each calendar day and during each rolling 365 consecutive calendar day period. The permittee shall retain the District approved log on site for not less than 5 years from date of last entry and the permittee shall be make the log available to the District staff upon request. (basis: Reg. 2-1-234.3, Reg. 2-1-403, Reg. 2-6-503)

### Condition 18372

Application #2209 and 16484

Plant #14628

Application 15682 (April, 2007) Initial establishment of NOx box parameters.

Delete part 4.

Application 14752 (January 2007) S-927 modification of Part 18.

Application 16888 (April 2008) Modification of S-913

Application 16889 (June 2008) Modification of S-951

Modified by App. 18739 (Nov 2008) Removal of S924 from Parts 27 and 31

Application 19300 (December 2008) Removed S-904 Backup CO Boiler Service

Application 18748 (December 2008) Modification of S-919 Administratively

Revised via Application 19647 (March 2009) Consolidation of Bubble

Condition 4357 with Condition 8077

Administratively Revised by Application 19874 (July 2009) Updates for

Combustion Sources

Application 20359 (June 2009) Modification of S-920

Application 21072 (October 2009) Modification of S-912

Application 20259 (February 2010) Modification of S-909

Application 17470 (February 2010) Modification of S-916

Application 21732 (May 2010) Modification of S-919

Administratively Reinstated Source List, Part 3 and Part 27 by Application 21464 (April 2010)

Application 21797 (June 2010) Modification of S-913

Application 21787 (July 2010) Modification of S-926

Application 22149 (Sept 2010) Modification of S-919

Application 22580 (November 2010) Modification of S-920

Application 22582 (November 2010) Modification of S-926

Application 22971 (March 2011) Modification of S-913

Application 23339 (June 2011) Modification of S-920

Application 23871 (December 2011) Modification of S-916

Application 23006 (February 2013) Revised Introduction to remove source details and reference to Application 23194, Removed language that clarified Part 3 firing rates are not NSR rates, Revised Parts 20, 21, 22 and 27 to correct S-972 abatement, Revised Parts 29 and 31 to allow compliance with the



## VI. Permit Conditions

2010 Amendment to Regulation 9, Rule 10, and Revised Parts 32A, 33 and 33A2 to reflect a 60 day allowance to submit Source Test Reports.

Application 25007 (January 2013) Modification of S-913

Application 24921 (March 2013) Modification of S-916

Application 26159 (July 2014) Modification of S-920

S-904 No. 6 Boiler

S-912 , No. 1 Feed Prep Heater F-12

S-913 No. 2 Feed Prep Heater F-13

S-916 No. 1 HDS Charge Heater F-16

S-919 No. 2 HDS Depentanizer Reboiler F-19

S-920 No. 2 HDS Charge Heater F-20

S-921 No. 2 HDS Charge Heater F-21

S-922 No. 5 Gas Plant Debutanizer Reboiler F-22

S-926 No. 2 Reformer Splitter Reboiler F-26

S-927 No. 2 Reformer Reactor Feed Preheater F-27

S-950 No. 50 Unit Crude Feed Heater F-50

S-971 No. 3 Reformer Feed Preheater F-53

S-972 No. 3 Reformer Debutanizer Reboiler F-54

- 1.) Deleted. (The fuel meter requirement is redundant with Regulation 9-10-502.2.)
- 2.) Permittee/Owner/Operator shall ensure that each of S-912, S-913, S-916, S-919, S-920, S-921, S-922, S-926, S-927, S-950, S-971, and S-972 is fired exclusively on natural gas and/or refinery fuel gas. (basis: Regulation 9, Rule10)
- 3.) Permittee/Owner/Operator shall ensure that the maximum firing rate of each source listed does not exceed the corresponding HHV maximum firing rate, based on an operating day average (the amount of fuel fired over each 24 hour day divided by 24:

## VI. Permit Conditions

Source (#)	Maximum Firing Rate (HHV) (mmBtu/hr)	Maximum Firing Rate (HHV) (mmBtu/yr)
S-912	135	1,182,600
S-913	59	516,840
S-916	55	481,800
S-919	65	569,400
S-920	63	551,880
S-921	63	551,880
S-922	130	1,138,800
S-926	145	1,270,200
S-927	280	2,452,800
S-950	440	3,854,400
S-971	300	2,628,000
S-972	45	394,200

(basis: Regulation 9, Rule 10)

- 4.) (Deleted: Specific NOx limits should not have been applied to S-912 and S-926, since they are both regulated under Regulation 9-10-301.)
- 5.) Deleted. Replaced with Part 30.
- 6.) Deleted. Replaced with Part 31.
- 7.) Deleted. Replaced with Part 31.
- 8.) Deleted. Replaced with Part 31.
- 9.) Deleted. Replaced with Part 31.
- 10.) Deleted. Replaced with Part 31.
- 11.) Deleted. S-921 is out of service. If returned to service, this part will be replaced with Part 31.
- 12.) Deleted. NOx CEM installed on S-922.
- 13.) Deleted. Replaced with Part 31.
- 14.) Deleted. Replaced with Part 33.
- 15.) Deleted. Replaced with Part 33.
- 16.) Deleted. Replaced with Part 34.
- 17.) Deleted. Replaced with Part 35.

## VI. Permit Conditions

- 18.) Combustion exhaust from S-927 shall be ducted to and continuously abated by A-1431 whenever a fuel is fired at S-927, except startup and shutdown as defined by Regulation 9-10-218 and on a temporary basis for catalyst regeneration at S-1004 No. 2 Catalytic Reformer. The exhaust gasses from S-927 and A-1431 shall be measured by a District approved CEM that continuously monitors and records the emission rate of NO<sub>x</sub>, CO, and O<sub>2</sub> in the exhaust gasses, including periods when S-927 is operated without SCR abatement. (basis: Regulation 9, Rule 10)
- 19.) Combustion exhaust from S-950 shall be ducted to and continuously abated by A-1432 whenever a fuel is fired at S-950 and the exhaust gasses from A-1432 shall be measured by a District approved CEM that continuously monitors and records the emission rate of NO<sub>x</sub>, CO, and O<sub>2</sub> in the exhaust gasses. (basis: Regulation 9, Rule 10)
- 20.) Combustion exhaust from S-971 shall be ducted to and continuously abated by A-1433 whenever a fuel is fired at S-971 and the exhaust gasses from A-1433 shall be vented to stack P-76. Combustion exhaust from S-972 shall be vented to stack P-76. The combined exhaust gases from S-971/A-1433 and S-972 shall be measured by a District approved CEM that continuously monitors and records the emission rate of NO<sub>x</sub>, CO, and O<sub>2</sub> in the exhaust gasses. (basis: Regulation 9, Rule 10)
- 21.) Deleted via Application 23006. The portion of Authority to Construct granted via Application 2209 authorizing the abatement of S-972 with A-1433 was never exercised.
- 22.) For each of S-927, S-950 and S-971, ammonia slip from the SCR system abating the source shall not exceed 20 ppmv, dry, corrected to 3% oxygen. (basis: toxics)
- 23.) Deleted. (The recordkeeping requirement is redundant with Regulation 9-10-504.)
- 24.) Deleted. (The source test log requirement was effective until January 1, 2005, when the NO<sub>x</sub> Box recordkeeping requirements became effective.)
- 25.) Deleted. (The fuel use recordkeeping requirement is redundant with a more stringent Regulation 9-10-504.)
- 26.) Deleted. (S-904 no longer providing backup Coker CO Boiler service so the requirements of Regulation 9-10-304 no longer apply.)

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27. The following sources are subject to the refinery-wide NOx emission rate and CO concentration limits in Regulation 9-10. (Regulation 9-10-301, 303, & 305)

S#	Description	NOx/CO CEM (Y/N)
S904	No. 6 Boiler House	Y/Y
S908	No. 3 Crude Heater(F8)	Y/N
S909	No. 1 Feed Prep Heater (F9)	N/N
S912	No. 1 Feed Prep Heater (F12)	N/N
S913	No. 2 Feed Prep Heater (F13)	N/N
S915	Platformer Intermediate Heater (F15)	N/N
S916	No. 1 HDS Heater (F16)	N/N
S917	No. 1 HDS Prefract Reboiler (F17)	N/N
S919	No. 2 HDS Heater (F19)	N/N
S920	No. 2 HDS Heater (F20)	N/N
S921	No. 2 HDS Heater (F21) (out of service)	N/N
S922	No. 5 Gas Plant Debutanizer Reboiler	Y/N
S926	No.2 Reformer Splitter Reboiler (F26)	N/N
S927	No. 2 Reformer Feed Preheater (F27) & A1431	Y/Y
S928	HDN Reactor A Heater (F28)	N/N
S929	HDN Reactor B Heater (F29)	N/N
S930	HDN Reactor C Heater (F30)	N/N
S931	Hydrocracker Reactor 1 Heater (F31)	N/N
S932	Hydrocracker Reactor 2 Heater (F32)	N/N
S933	Hydrocracker Reactor 3 Heater (F33)	N/N
S934	Hydrocracker Stabilizer Reboiler (F34)	Y/N
S935	Hydrocracker Splitter Reboiler (F35)	Y/N
S937	Hydrogen Plant Heater (F37)	Y/N
S950	No. 50 Unit Crude Feed Heater (F50) & A1432	Y/Y
S951	No. 2 Reformer Aux Reheater (F51)	N/N
S971	No. 3 Reformer UOP Furnace (F53) & A1433	Y/Y
S972	No. 3 Reformer Debutanizer Reboiler (F54)	Y/Y
S973	No. 3 HDS Recycle Gas Heater (F55)	Y/N
S974	No. 3 HDS Fractionator Feed Heater (F56)	Y/N

28. The owner/operator of each source with a maximum firing rate greater than 25 MMBtu/hr listed in Part 27 shall properly install, properly maintain, and properly operate an O2 monitor and recorder. (Regulation 9-10-502)
29. The owner/operator shall operate each source listed in Part 27, which does not have a NOx CEM, within specified ranges of operating conditions (firing rate and oxygen content) as detailed in Part 31. The ranges shall be established by utilizing data from district-approved source tests. The owner/operator may choose to comply with either 29B or 29C. (Reg. 9-10-502)

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- A. The NO<sub>x</sub> Box for units with a maximum firing rate of 25 MMBtu/hr or more shall be established using the procedures in Part 30.
  - B. The NO<sub>x</sub> Box for units with a maximum firing rate less than 25MMBtu/hr shall be established as follows: High-fire shall be the maximum rated capacity. Low-fire shall be 20% of the maximum rated capacity. There shall be no maximum or minimum O<sub>2</sub>.
  - C. The NO<sub>x</sub> Box for units with maximum firing rate less than 25MMBtu/hr shall be established as follows: High-fire shall be the maximum rated capacity. Low-fire shall be 30% of the maximum rated capacity. There shall be no maximum or minimum O<sub>2</sub>.
30. The owner/operator shall establish the initial NO<sub>x</sub> box for each source subject to Part 29 . 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. (Regulation 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 31A is deemed to be valid.
  - 1) The NO<sub>x</sub> Box can represent/utilize either one or two emission factors.
  - 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

## VI. Permit Conditions

that lie about the perimeter of successful approved source tests. The source test parameters forming the corners of the NOx box are listed in Part 31A.

E. Upon establishment of each NOx Box, the owner/operator shall prepare a graphical representation of the box. The representation shall be made available on-site for APCO review upon request. The box shall also be submitted to the BAAQMD with permit amendments.

31. Except as provided in parts 31B OR 31C and 31D, the owner/operator shall operate each source within the NOx Box ranges listed below at all times of operation. During periods of startup, shutdown, or curtailed operation, and for sources temporarily out of service, the owner/operator may choose to comply with either 31B OR 31C. This part shall not apply to any source that has a properly operated and properly installed NOx CEM. (Regulation 9-10-502)

### A. NOx Box ranges

Source No.	Emission Factor (lb/MMBtu)	Min O2 at Low Firing (O2% , MMBtu/hr)	Max O2 at Low Firing (O2% , MMBtu/hr)	Min O2 at High Firing (O2% , MMBtu/hr)	Mid O2 at Mid/High Firing (polygon) (O2% , MMBtu/hr)	Max O2 at High Firing (O2% , MMBtu/hr)
909	0.146	9.5, 27.46	11.7, 30.67	2.1, 83.60	3.1, 67.35	5.7, 76.49
	0.148	11.7, 30.67	11.2, 61.81	2.1, 83.60	5.7, 76.49	7.3, 79.58
912	0.027	2.1, 60.50	4.1, 49.80	1.9, 101.51	4.0, 104.13	5.4, 100.24
	0.034	4.1, 49.80	7.0, 57.57	5.4, 100.24	N/A	6.5, 99.68
913	0.033	1.2, 19.89	4.5, 15.86	1.5, 39.10	2.1, 15.53	2.9, 43.83
	0.033	4.5, 15.86	6.0, 21.03	2.9, 43.83	N/A	5.2, 43.37
915	0.143	0, 4 @ 20% or 6 @ 30%	8.0, 4 @ 20% or 6 @ 30%	0.0, 20.00	N/A	8.0, 20.00
	0.098	8.0, 4 @ 20% or 6 @ 30%	>8.0, 4 @ 20% or 6 @ 30%	8.0, 20.00	N/A	>8.0, 20.00
916	0.099	5.9, 9.53	9.3, 9.17	4.0, 17.4	N/A	10.6, 24.64
	0.102	4.0, 17.4	10.6, 24.64	5.0, 43.89	N/A	10.4, 33.11
917	0.061	0.0, 3.60 @ 20% or 5.4 @ 30%	(Note 1), 3.6 @ 20% or 5.4 @ 30%	0.0, 18.00	N/A	(Note 1)-, 18.00
919	0.047	3.9, 10.35	8.7, 18.56	6.6, 58.76	9.2, 39.12	8.0, 60.68
	0.056	8.7, 18.56	9.5, 21.10	8.0, 60.68	9.2, 39.12	10.1, 47.20
920	0.041	2.5, 25.72	7.1, 15.34	3.41, 45.25	6.23, 55.3	8.0, 60.26
	0.055	7.1, 15.34	10.8, 27.53	8.0, 60.26	N/A	10.0, 45.15
926	0.032	1.8, 32.81	5.3, 29.3	2.9, 126.72	N/A	3.9, 131.59
	0.037	5.3, 29.3	8.3, 29.60	3.9, 131.59	N/A	7.0, 77.89
928	0.044	0.0, 4 @ 20% or 6 @ 30%	< 6.0, 4 @ 20% or 6 @ 30%	0.0, 20.00	N/A	< 6.0, 20.00

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Source No.	Emission Factor (lb/MMBtu)	Min O2 at Low Firing (O2% , MMBtu/hr)	Max O2 at Low Firing (O2% , MMBtu/hr)	Min O2 at High Firing (O2% , MMBtu/hr)	Mid O2 at Mid/High Firing (polygon) (O2% , MMBtu/hr)	Max O2 at High Firing (O2% , MMBtu/hr)
	0.073	6.0, 4 @ 20% or 6 @ 30%	> 6.0, 4 @ 20% or 6 @ 30%	6.0, 20.00	N/A	> 6.0, 20.00
929	0.024	0.0, 4 @ 20% or 6 @ 30%	< 6.0, 4 @ 20% or 6 @ 30%	0.0, 20.00	N/A	< 6.0, 20.00
	0.087	6.0, 4 @ 20% or 6 @ 30%	> 6.0, 4 @ 20% or 6 @ 30%	6.0, 20.00	N/A	> 6.0, 20.00
930	0.033	0.0, 4 @ 20% or 6 @ 30%	< 6.0, 4 @ 20% or 6 @ 30%	0.0, 20.00	N/A	< 6.0, 20.00
	0.077	6.0, 4 @ 20% or 6 @ 30%	> 6.0, 4 @ 20% or 6 @ 30%	6.0, 20.00	N/A	> 6.0, 20.00
931	0.034	0.0, 4 @ 20% or 6 @ 30%	< 9.0, 4 @ 20% or 6 @ 30%	0.0, 20.00	N/A	< 9.0, 20.00
	0.073	9.0, 4 @ 20% or 6 @ 30%	> 9.0, 4 @ 20% or 6 @ 30%	9.0, 20.00	N/A	> 9.0, 20.00
932	0.037	0.0, 4 @ 20% or 6 @ 30%	< 4.0, 4 @ 20% or 6 @ 30%	0.0, 20.00	N/A	< 4.0, 20.00
	0.053	4.0, 4 @ 20% or 6 @ 30%	> 4.0, 4 @ 20% or 6 @ 30%	4.0, 20.00	N/A	> 4.0, 20.00
933	0.035	0.0, 4 @ 20% or 6 @ 30%	< 5.0, 4 @ 20% or 6 @ 30%	0.0, 20.00	N/A	< 5.0, 20.00
	0.050	5.0, 4 @ 20% or 6 @ 30%	> 5.0, 4 @ 20% or 6 @ 30%	5.0, 20.00	N/A	> 5.0, 20.00
951	0.143	5.2, 2.68	9.2, 2.21	4.2, 7.78	8.3, 19.3	14.1, 12.7
	0.175	12.1, 0.78	13.6, 1.73	9.2, 2.21	N/A	14.1, 12.7

Note 1: Per Part 29B and Part 29C, Oxygen limits do not apply to sources with maximum firing rates less than 25 MMBtu/hr. High fire is defined as 100% of rated heat input, and low fire is defined as 20% (Part 29B) or 30% (Part 29C) of rated heat input

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

- B. Part 31A. 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

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conditions the means for determining compliance with the refinery wide limit shall be accomplished using the method described in 9-10-301.4.2 (previous 30-day average fire rate) OR

- C. Part 31A does not apply to units in Curtailed Operation (i.e. operation at 30% or less of rated heat input) or to units undergoing startup or shutdown, or to units that are temporarily out of service. For units in curtailed operation or undergoing startup or shutdown, the means for determining compliance with the refinery wide limit shall be in accordance with Regulation 9-10-301.4. For units temporarily out of service, the means for determining compliance with the refinery wide limit shall be in accordance with Regulation 9-10-301.5
- D. Part 31A. does not apply during any source test required or permitted by this condition. See Part 33 for the consequences of source test results that exceed the emission factors in Part 31.

### 32. NOx Box Deviations (Regulation 9-10-502)

- A. The owner/operator may deviate from the NOx Box (either the firing rate or oxygen limit) provided that the owner/operator conducts a district approved source test which reasonably represents the past operation outside of the established ranges. The source test representing the new conditions shall be conducted no later than the next regularly scheduled source test period, or within eight months, whichever is sooner. The source test results will establish whether the source was operating outside of the emission factor utilized for the source. The source test results shall be submitted to the district source test manager within 60 days of the test. The owner/operator may request, and the APCO may grant, an extension of 15 days for submittal of results. As necessary, a permit amendment shall be submitted.

#### 1. Source Test $\leq$ Emission Factor

If the results of this source test do not exceed the higher NOx emission factor in Part 31, or the CO limit in Part 35, 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.



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### 2. Source Test > Emission Factor

If the results of this source test exceed the permitted emission concentrations or emission rates then the actions described below must be followed:

- a. Utilizing measured emission concentration or rate, the owner/operator shall perform an assessment, retroactive to the date of the previous source test, of compliance with Section 9-10-301. The unit will be considered to have been in violation of 9-10-301 for each day the facility was operated in excess of the refinery wide limit.
- b. The facility may submit a permit application to request an alteration of the permit condition to change the NO<sub>x</sub> emission factor and/or adjust the operating range, based on the new test data.

B. Reporting - The owner/operator must report conditions outside of box within 96 hours of occurrence.

33. For each source subject to Part 29, the owner/operator shall conduct source tests on 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 60 days of the test. The owner/operator may request, and the APCO may grant, an extension of 15 days for submittal of results. (Reg. 9-10-502)

#### A. Source Testing Schedule

##### 1. Heater < 25 MMBtu/hr

One source test per consecutive 12 month period. The time interval between source tests shall not exceed 16 months.

##### 2. Heaters $\geq$ 25 MMBtu/hr

Two source tests per consecutive 12 month period. The time interval between source tests shall not exceed 8 months and not be less than 5 months apart. The source test results shall be submitted to the district source test manager within 60 days of the test. (Reg. 9-10-502)

3. If a source has been shutdown longer than the period allowed between source testing periods (e.g. <25 MMBtu/hr-> 12 mos or > 25

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MMBtu/hr - > 8 mos), the owner/operator shall conduct the required source test within 30 days of start up of the source.

### B. Source Test Results > NOx Box Emission Factor

If the results of any source test under this part exceed the permitted concentrations or emission rates the owner/operator shall follow the requirements of Part 32A2. If the owner/operator chooses not to submit an application to revise the emission factor, the owner/operator shall conduct another Part 33 source test, at the same conditions, within 90 days of the initial test.

34. For each source listed in Part 27 with a NOx CEM installed that does not have a CO CEM installed, , the owner/operator shall conduct semi-annual district approved CO source tests at as-found conditions. The time interval between source tests shall not exceed 8 months. District conducted CO emission tests associated with District-conducted NOx CEM field accuracy tests may be substituted for the CO semi-annual source tests. (Regulation 9-10-502, 1-522)
35. For any source listed in Part 27 with a maximum firing limit greater than 25 MMBtu/hr for which any two source test results over any consecutive five year period are greater than or equal to 200 ppmv CO at 3% 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. (Regulation 9-10-502, 1-522)
36. 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 27 and 31. These records shall be kept on site for at least five years from the date of entry in a District approved log and be made available to District staff upon request. (Recordkeeping, Regulation 9-10-504)

### Condition 18379

Application #3180  
Plant #14628

S-940 Industrial Boiler; #1 Boiler @ 4 Boiler House, Maximum Firing Rate: 150 MMBtu/hr

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- 1.) The emission reductions quantified pursuant to banking application #3180 granted for the permanent closure of S-940 shall only be used to offset emission increases occurring at the Avon refinery located at 150 Solano Way in Martinez, California and may be used for no other purpose. (basis: Regulation 2, Rule 4, Section 302.1)

### Condition 18539

Administratively Revised via Application 19647 (February 2009) Consolidation of Bubble Condition 4357 with Condition 8077

Administratively Revised by Application 19874 (July 2009) Updates for Combustion Sources

Unchanged when S-1470 was altered by Application 26000 (July 2014)

- S-908 Furnace F8; No. 3 Crude Heater, Alco, Maximum Firing Rate: 220 MMBtu/hr, Refinery Fuel Gas, Natural Gas abated by A-908 Selective Catalytic Reduction System
- S-1470 Furnace F-71; No. 3 Crude Vacuum Distillation Column Feed Heater, Maximum Firing Rate: 30 MMBtu/hr with low NO<sub>x</sub> burners and abated by A-908 Selective Catalytic Reduction System
- 1) Permittee/Owner/Operator shall ensure that S-1470 is fired exclusively on natural gas or refinery fuel gas. (basis: cumulative increase, toxics)
  - 2) Permittee/Owner/Operator shall ensure that S-1470 is not operated unless it is equipped with a District approved, fuel flow meter that measures the volume of fuel throughput to S-1470 in units of standard cubic feet. (basis: cumulative increase)
  - 3A) Permittee/Owner/Operator shall ensure that no refinery fuel gas is fired at S-1470 until a District approved calorimeter is installed and operating at S-1470. Until the District approved calorimeter is installed and operating at S-1470, natural gas shall be the only fuel fired at S-1470. Until the instance when a fuel other than only natural gas is first fired at S-1470, there is no requirement for the Permittee/Owner/Operator to sample the natural gas fired at S-1470 to determine its BTU content. (basis: BACT, cumulative increase, offsets, toxics)
  - 3B) Permittee/Owner/Operator shall ensure that once refinery fuel gas is first fired at S-1470 and thereafter, all gaseous fuel fired at S-1470 shall be analyzed using a District approved calorimeter and the results of the

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analyses shall be recorded using a District approved data logging system. At least 4 times each hour, the calorimeter and data logging system shall measure and record the heating value of the gaseous fuel fired at S-1470 in British thermal units per standard cubic foot of fuel. (basis: BACT, cumulative increase, offsets, toxics)

- 4) Permittee/Owner/Operator shall ensure that the total reduced sulfur content of gaseous fuel fired at S-1470 does not exceed 35 ppmv, based on a rolling 365 day average. (basis: cumulative increase, BACT, offsets)
- 5) Permittee/Owner/Operator shall ensure that the total reduced sulfur content of the fuel gas fired at S-1470 does not exceed 100 ppmv, based on a rolling 24 hour average. (basis: BACT)
- 6) When firing refinery fuel gas, Permittee/Owner/Operator of S-1470 shall operate a District approved device that at least four times per hour, samples the fuel gas to be fired at S-1470 and in ppmv units, measures and records the total reduced sulfur content of the fuel gas. These measurements and recordings shall disclose the rolling 24 hour average value of the total reduced sulfur concentration in the fuel gas in ppmv units as well as the the value of total reduced sulfur concentration in the fuel gas, based on a rolling 365 day average. (basis: BACT)
- 7) When firing refinery fuel gas, at least four times per hour, Permittee/Owner/Operator shall measure and record the total reduced sulfur content of the fuel gas fired at S-1470, in ppmv units. (basis: BACT)
- 8) Permittee/Owner/Operator shall ensure that S-1470 is not operated unless it is equipped with a District approved continuous emissions monitoring device that continuously measures and records the concentration of nitrogen oxides, in ppmv units, in the combustion exhaust from S-1470 and S-908, corrected to 3% oxygen, dry, and the device must measure and record the oxygen concentration of the combustion exhaust from S-1470 and S-908. (basis: cumulative increase, BACT, offsets)
- 9) Permittee/Owner/Operator shall ensure that the total fuel use at S-1470 does not exceed 262,800 MMBTU during any rolling 12 consecutive month period.  
basis: cumulative increase, toxics, offsets)
- 10) Permittee/Owner/Operator shall ensure that NO<sub>x</sub> emissions from S-1470 do not exceed 10 ppmv, dry, at 3% oxygen, based on a three hour average. (basis: BACT, cumulative increase, offsets)

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- 11) Permittee/Owner/Operator shall ensure that CO emissions from S-1470 do not exceed 50 ppmv, dry, at 3% oxygen. (basis: BACT, cumulative increase, offsets)
- 12) Permittee/Owner/Operator shall ensure that POC emissions from S-1470 do not exceed 0.683 ton per rolling consecutive 12 month period. (basis: cumulative increase, offsets)
- 13) Permittee/Owner/Operator shall ensure that PM-10 emissions from S-1470 do not exceed 0.946 ton per rolling consecutive 12 month period. (basis: cumulative increase, offsets)
- 14) Permittee/Owner/Operator shall ensure that SO<sub>2</sub> emissions from S-1470 do not exceed 1.793 ton per rolling consecutive 12 month period. basis: cumulative increase, BACT, offsets)
- 15) Permittee/Owner/Operator shall ensure that ensure that S-1470 is abated by A-908 at all times that a fuel is fired at S-1470 except for 144 hours during any rolling 12 consecutive month period. The 144 hours is for start-up of S-1470. At all times other than the 144 hours per 12 consecutive month period, while a fuel is fired at S-1470, S-1470 shall be abated by A-908 and there shall be ammonia injection at A-908. (basis: BACT)
- 16) Permittee/Owner/Operator shall ensure that ammonia slip from A-908 does not exceed 20 ppmv, dry, at 3% oxygen, based on a 3 hour average. The owner/operator of A-908 shall conduct an annual source test, in accordance with the District's Manual of Procedures, to demonstrate compliance with the NH<sub>3</sub> emission limit. (basis: toxics, cumulative increase, offsets, Bubble Condition 8077 per Application 19647)
- 17) Deleted. (Initial Source Test completed April 10, 2002.)
- 17A) At least once per calendar year, Permittee/Owner/Operator shall ensure that a District approved source test is conducted for S-1470 measuring its CO emission rate and that the testing is done in compliance with the District's Manual of Procedures. (basis: Regulation 2-1-403; Regulation 9-10)
- 17B) Permittee/Owner/Operator shall ensure that within 45 days of the date of completion of the (each) District approved source test required by condition 18539 part 17A, two identical copies of the results of the source test, each referencing S1470, condition 18539 part 17A and part 17B, and

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plant #14628 are received by the District and that both copies are addressed to the District's Engineering Division.  
(basis: Regulation 2-1-403; Regulation 9-10)

- 18) In a District approved log, Permittee/Owner/Operator shall record, for S-1470 and S-908, the amount of each fuel fired at each source, the Btu value of the fuel fired at each source, the concentration of nitrogen oxides in the exhaust from S-1470 and S-908, the oxygen content in the combustion exhaust from S-1470 and S-908. For the fuel gas fired at S-1470, Permittee/Owner/Operator shall record the total reduced sulfur content and hydrogen sulfide content, sampled 4 times each hour, averaged over each 365 consecutive day period and averaged over each 24 consecutive hour period. The log shall be retained on site for at least 5 years from date of last entry, and shall be made available to the District staff upon request (basis: cumulative increase, offsets)
- 18A.) Permittee/Owner/Operator shall ensure that the maximum firing rate of S908 does not exceed the 1,927,200 MMBtu/yr based on the HHV of each fuel fired, during every 365 consecutive day period:  
(basis: cumulative increase)
- 19) Deleted. (S-906 and S-907 have been removed from service.)
- 20) If, based on District approved source test results, emissions from S-1470 exceed permitted and/or offset emission levels, Permittee/Owner/Operator shall provide additional District approved emission reduction credits to the District in the amount and of the type determined by the District to be due.  
(basis: offsets)

### Condition 18947

Administratively changed by Application 19419 (June 2009). Updated to remove parts superseded by standard conditions and parts redundant with District regulations.

S-1475 Portable Emergency Standby Engine: Diesel Firewater Pump, Make: Caterpillar, Model: 3408 DI, Power Rating: 503 HP.

S-1476 Portable Emergency Standby Engine: Diesel Firewater Pump, Make: Caterpillar, Model: 3408 DI, Power Rating: 503 HP.

Portable Equipment Requirements

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1. This mobile equipment shall operate at all time in conformance with the eligibility requirements set forth in BAAQMD Regulation 2-1-220 for portable equipment.  
[Portable Eligibility Requirements]
2. If the portable equipment remains at any fixed location in the Bay Area Air Basin for more than 12 months, the portable permit will automatically revert to a conventional permanent location BAAQMD permit and will lose its portability. [Portable Eligibility Residence Time Requirement]
3. Any violation of Condition #1 shall be reported to the Director of the Compliance and Enforcement Division no later than two business days after the incidence. In addition, any loss of portability per condition #2 shall be reported to the Director of the Compliance and Enforcement Division no later than 30 days after the loss of its portability. [Compliance Verification]

### Throughput Limitations

4. The portable diesel engines shall not consume more than 1315 gallons of diesel fuel during any consecutive 12- month period. [Cumulative Increase]
5. Deleted (basis: Superseded by Condition 22851, Part 1)

### Regulatory Compliance Requirement

6. Sources 1475 and 1476 shall only fire on diesel fuel containing less than 0.5% by weight sulfur. [Regulation 9-1; toxics]
7. Deleted (basis: Particulate emissions limit Redundant with BAAQMD Regulation 6-1-301).
8. Deleted (basis: Public Nuisance prohibition redundant with Regulation 1-301)
9. S-1475 and S-1476 shall not be operated within 1,000 feet of a school. To operate within 1,000 feet of a school, the Permit Holder must submit an application to the District so that proper notification of your intended operation can be made known to the affected public in advance of any usage of the equipment. [Regulation 2-1-412]

### Recordkeeping Requirements

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10. The following records shall be kept in a District approved logbook and retained for a period of at least two years following the date of entry. The log shall be kept with the equipment and made available to District staff upon request. [Recordkeeping]
  - a. Weekly hours of operation and fuel usage for S-1475 and S-1476.
  - b. Hours of operation and fuel usage shall be totaled on a monthly basis.

### Reporting Requirements

11. The Permit Holder shall notify the District, in writing, at least 3 days in advance, of the new location in which they intend to operate. The notification shall include: [Reporting]
  - a. Brief description of the general nature of the operation.
  - b. The estimated duration of the operation at this site.
  - c. The name and phone number of a contact person where the equipment will be operated.
12. Within 30 days after the end of every calendar year, the applicant shall provide a year-end summary showing the following information: [Reporting]
  - a. The location(s) at which the equipment was operated including the dates operated at each location.
  - b. The total amount hours of operation and fuel used by S-1475 and S-1476 for the previous 12 months.

### Condition 19197

Application #2298

Administratively Changed by Application 18861 (June 2009) Removed completed parts and parts redundant with District Regulations

Administratively Changed by Application 21711 (May 2010). Deleted Parts 3 and 4.

S-1473 Pressurized Storage Tank; Storing: Ethyl Mercaptan Odorant, Capacity: 1000 gallons abated by A-14 Vapor Recovery System

1. S-1473 shall be abated by A-14 at all times that emissions from S-1473 are not controlled by the ethyl mercaptan delivery vessel's vapor balance system.  
(basis: cumulative increase)



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2. The total throughput of ethyl mercaptan odorant to S-1473 shall not exceed 3000 gallons during any rolling 12 consecutive month period.  
(basis: cumulative increase)
3. Completed. (Final fugitive counts submitted March 10, 2010 with Application 21711).
4. Completed. (Additional Offsets were provided in March 2010 via Application 2298. The project has been permitted for 0.018 tons POC emissions per year)
5. Deleted. ATC construction requirement completed. Emissions limit and/or inspection redundant with Regulation 8-18.
6. Deleted. ATC construction requirement completed. Emissions limit and/or inspection redundant with Regulation 8-18.
7. In a District approved log, Permittee/Owner/ Operator shall record the amount of each organic liquid material throughput to S-1473 each month and for each rolling 12 consecutive month period, by material name. The District approved log shall be retained on site for at least 5 years from date of last entry and shall be made available to the District staff upon request.  
(basis: cumulative increase)

### Condition 19199

Permit Application #2508

Permit Application 13803: Clarify conditions to allow owner/operator to bypass A-1106 SCR during shutdown of S-1106 (part H9)

Permit Application 17928: Administratively changed section F to remove S1100 Iso-Octene unit that was never built.

Administratively Changed by Application 18861 (June 2009) Removed completed parts and parts redundant with District Regulations

Administratively Changed by Application 21711 (May 2010) Delete Part D2 and E2.

Logistical Improvements

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- A1.) Completed. Final fugitive count for the project submitted on 6/7/2004 and offsets were provided.
- A2.) Completed. Final fugitive count for the project submitted on 6/7/2004 and offsets were provided.
- A3.) Deleted. (The Authority to Construct requirement to install BACT compliant flanges and connectors was satisfied. Fugitive organic emissions less than 100 ppm is required by 8-18-304.)
- A4.) Deleted. (The Authority to Construct requirement to install BACT compliant valves was satisfied. Fugitive organic emissions less than 100 ppm is required by 8-18-302.)
- A5.) The Authority to Construct requirement to install BACT compliant pumps was satisfied. Total organic compound emissions from each pump shall not exceed 100 ppm, subject to the leak repair provisions of Regulation 8, Rule 18. (basis: BACT, Reg. 8-18)
- A6.) Deleted. (The Authority to Construct requirement to install BACT compliant process sample systems was satisfied. Operating requirements for process sample systems are specified in 60 Subpart VV; 60.482-5)
- A7.) Deleted. (The Authority to Construct requirement to install BACT compliant process sample systems was satisfied. Requirements for process drain emissions are specified Regulation 8, Rule 8.)
- A8.) Deleted. (The Authority to Construct requirement to install BACT compliant pressure relief valves was satisfied.)

Two New Flare Gas Recovery  
Compressors Each with a Maximum  
Rated Capacity of 4 MMSCFD

- B1.) Completed. Final fugitive count for the project submitted prior to issuance of PTO and offsets were provided.
- B2.) Completed. Final fugitive count for the project submitted prior to issuance of PTO and offsets were provided.
- B3.) Deleted. ATC construction requirement completed. Emissions limit and/or inspection redundant with Regulation 8-18.
- B4.) Deleted. ATC construction requirement completed. Emissions limit and/or inspection redundant with Regulation 8-18.

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- B5.) Permittee/Owner/Operator shall ensure that total organic compound emissions from each pump shall not exceed 100 ppm, subject to the leak repair provisions of Regulation 8, Rule 18. (basis: BACT, Reg. 8-18)
- B6.) Deleted. ATC construction requirement completed.
- B7.) Deleted. ATC construction requirement completed.
- B8.) Deleted. ATC construction requirement completed. Redundant with Regulation 8-28.

### S-802 Fluid Catalytic Cracking Unit (No. 4 Gas Plant) FCCU Naphtha Splitter

- C1.) Deleted. Final fugitive count for the project submitted on 3/27/2003 and offsets were provided.
- C2.) Deleted. Final fugitive count for the project submitted on 3/27/2003 and offsets were provided.
- C3.) Deleted. ATC construction requirement completed. Emissions limit and/or inspection redundant with Regulation 8-18.
- C4.) Deleted. ATC construction requirement completed. Emissions limit and/or inspection redundant with Regulation 8-18.
- C5.) Permittee/Owner/Operator shall ensure that total organic compound emissions from each pump shall not exceed 100 ppm, subject to the leak repair provisions of Regulation 8, Rule 18. (basis: BACT, Reg. 8-18)
- C6.) Deleted. ATC construction requirement completed.
- C7.) Deleted. ATC construction requirement completed.
- C8.) Deleted. ATC construction requirement completed. Redundant with Regulation 8-28.

### S-975 No. 4 Gas Plant Cooling Tower; Marley, 13-24A, with 4 Pumps, Sum Total Maximum Capacity: 4,140,000 Gallons/Hr

- D1.) Permittee/Owner/Operator shall ensure that the total cooling tower water recirculation rate at S-975 does not exceed 4,140,000 gallons per hour or 69,000 gallons per minute. (basis: cumulative increase, offsets, BACT)

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- D2.) Completed (Circulation Rate Test conducted June 2, 2003).
- D3.) The total dissolved solids content of the cooling tower water at S-975 shall not exceed 5000 milligrams per liter. (basis: cumulative increase, offsets)
- D4.) At least once each quarter, Permittee shall sample the cooling tower water at S-975 and subject the sample to a District approved laboratory analysis to determine its total dissolved solids content. (basis: cumulative increase, offsets)
- D5.) The POC content of the cooling tower water at S-975 shall not exceed 100 ppm gasoline range organics (EPA Method 8015) and 100 ppm diesel range organics (EPA Method 8015) as measured at the cooling water return line or at the basin or at any other location at S-975, as determined by the results of EPA laboratory method 8015. (basis: BACT)
- D5A.) deleted (basis: Startup conditions completed: The value XXXX ppm in condition #5 above shall be set by the District after the District has obtained and reviewed laboratory data generated pursuant to these conditions.  
(basis: start-up, BACT))
- D6.) Within 45 days after the date that the change of conditions authorization letter is issued by the District for S-975 pursuant to application #2508, Permittee/Owner/Operator shall sample the cooling tower water at S-975 at the cooling water return line twice each WEEK and at the basin once each MONTH. After twenty six (26) weeks of District approved sampling and sample analysis data, Permittee/Owner/Operator shall sample the cooling tower water at S-975 at the cooling water return line ONCE each WEEK and Permittee/Owner/Operator shall ensure that each sample is subjected to analysis by EPA laboratory method 8015. The results of the laboratory analysis shall disclose the organic content of the S-975 cooling tower water. Permittee/Owner/Operator shall ensure that the results of the each laboratory analysis along with the laboratory report of each analysis shall be available on site for inspection by District staff not later than two weeks (14 calendar days) after the date on which the sample was taken from S-975. (basis: BACT)
- D7.) Permittee/Owner/Operator shall ensure that there is a District approved sample point at the cooling tower water return line for S-975 where cooling tower water in route to S-975 can be sampled. (basis: BACT)
- D8.) In a District approved log, Permittee/Owner/Operator shall record each date and location from which each sample of cooling tower was taken and the purpose of the sample. Permittee/Owner/Operator shall record the

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results of the laboratory analyses conducted pursuant to the requirements of these conditions along with copies of the laboratory results that disclose the date of the sampling, the location from which the sample was taken, the organic content of the cooling tower water determined by the laboratory method, the total dissolved solids content of the sample, the date of the analysis and name and address of the laboratory that conducted the analysis. The District approved log shall be retained on site for at least 5 years from last entry and be made available to the District staff upon request. (basis: cumulative increase, offsets, BACT)

S-982 No. 2 Hydrodesulfurization Unit; Cooling Tower; Capacity: 1,080,000 Gallons Per Hour

- E1.) Permittee/Owner/Operator shall ensure that the total cooling tower water recirculation rate at S-982 shall not exceed 1,080,000 gallons per hour or 18,000 gallons per minute. (basis: cumulative increase, offsets, BACT)
- E2.) Completed (Circulation Rate Test conducted June 2, 2003).
- E3.) The total dissolved solids content of the cooling tower water at S-982 shall not exceed 5000 milligrams per liter. (basis: cumulative increase, offsets)
- E4.) At least once each quarter, Permittee shall sample the cooling tower water at S-982 and subject the sample to a District approved laboratory analysis to determine its total dissolved solids content. (basis: cumulative increase, offsets)
- E5.) The POC content of the cooling tower water at S-982 shall not exceed 100 ppm gasoline range organics (EPA Method 8015) and 100 ppm diesel range organics (EPA Method 8015) as measured at the cooling water return line or at the basin or at any other location at S-982, as determined by the results of EPA laboratory method 8015. (basis: BACT)
- E5A.) deleted (basis: Startup conditions completed: The value XXXX ppm in condition #5 above shall be set by the District after the District has obtained and reviewed laboratory data generated pursuant to these conditions. (basis: start-up, BACT))
- E6.) Within 45 days after the date that the change of conditions authorization letter is issued by the District for S-982 pursuant to application #2508, Permittee/Owner/ Operator shall sample the cooling tower water at S-982 at the cooling water return line twice each WEEK and at the basin once each MONTH. After twenty six (26) weeks of District approved sampling and sample analysis data, Permittee/Owner/ Operator shall sample the cooling tower water at S-982 at the cooling water return line ONCE each

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WEEK and Permittee/Owner/Operator shall ensure that each sample is subjected to analysis by EPA laboratory method 8015. The results of the laboratory analysis shall disclose the organic content of the S-982 cooling tower water. Permittee/Owner/Operator shall ensure that the results of the each laboratory analysis along with the laboratory report of each analysis shall be available on site for inspection by District staff not later than two weeks (14 calendar days) after the date on which the sample was taken from S-982.

(basis: BACT)

- E7.) Permittee/Owner/Operator shall ensure that there is a District approved sample point at the cooling tower water return line for S-982 where cooling tower water in route to S-982 can be sampled. (basis: BACT)
- E8.) In a District approved log, Permittee/Owner/Operator shall record each date and location from which each sample of cooling tower was taken and the purpose of the sample. Permittee/Owner/Operator shall record the results of the laboratory analyses conducted pursuant to the requirements of these conditions along with copies of the laboratory results that disclose the date of the sampling, the location from which the sample was taken, the organic content of the cooling tower water determined by the laboratory method, the total dissolved solids content of the sample, the date of the analysis and name and address of the laboratory that conducted the analysis. The District approved log shall be retained on site for at least 5 years from last entry and be made available to the District staff upon request. (basis: cumulative increase, offsets, BACT)

S-1100 Iso-Octene Unit, Maximum Production Capacity: 3000 BPD (1,095,000 BPY)

- F0.) Deleted. (S-1100 Iso-Octene Unit was not built)
- F1.) Deleted. (S-1100 Iso-Octene Unit was not built)
- F2.) Deleted. (S-1100 Iso-Octene Unit was not built)
- F3.) Deleted. (S-1100 Iso-Octene Unit was not built)
- F4.) Deleted. (S-1100 Iso-Octene Unit was not built)
- F5.) Deleted. (S-1100 Iso-Octene Unit was not built)
- F6.) Deleted. (S-1100 Iso-Octene Unit was not built)
- F7.) Deleted. (S-1100 Iso-Octene Unit was not built)

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- F8.) Deleted. (S-1100 Iso-Octene Unit was not built)
- F9.) Deleted. (S-1100 Iso-Octene Unit was not built)
- S-1105 No. 4 Hydrodesulfurization Unit; Maximum Capacity: 40,080 BPD  
(14,629,200 BPY)
- G0.) Permittee/Owner/Operator shall ensure that the total throughput of hydrocarbon material/feed material to S-1105 does not exceed 40,080 barrels during each calendar day. (basis: Regulation 2-2-419)
- G1.) Completed. Final fugitive count for the project submitted prior to issuance of PTO and offsets were provided.
- G2.) Completed. Final fugitive count for the project submitted prior to issuance of PTO and offsets were provided.
- G3.) Deleted. ATC construction requirement completed. Emissions limit and/or inspection redundant with Regulation 8-18.
- G4.) Deleted. ATC construction requirement completed. Emissions limit and/or inspection redundant with Regulation 8-18.
- G5.) Permittee/Owner/Operator shall ensure that total organic compound emissions from each pump shall not exceed 100 ppm, subject to the leak repair provisions of Regulation 8, Rule 18.  
(basis: BACT, Reg. 8-18)
- G6.) Deleted. ATC construction requirement completed.
- G7.) Deleted. ATC construction requirement completed.
- G8.) Deleted. ATC construction requirement completed. Redundant with Regulation 8-28.
- G9.) In a District approved log, Permittee/Owner/Operator shall record the amount of feed material throughput to S-1105 each day, each month, and for each 12 consecutive month period. The District approved log shall be retained on site for at least 5 years from date of last entry and shall be made available to the District staff upon request.  
(basis: cumulative increase)

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S-1106 Furnace; FU72, No. 4 Hydrodesulfurization Reactor Feed Heater, Natural Gas Fired, Maximum Firing Rate (HHV): 30 MMBtu/hr abated by A-1106 Selective Catalytic Reduction System

- H0.) Permittee/Owner/Operator shall ensure that the maximum fuel firing rate at S-1106 does not exceed 30 MMBtu/hr averaged over each calendar day by dividing the fuel use rate during each day by 24. (basis: cumulative increase)
- H1.) Permittee/Owner/Operator shall ensure that no fuel other than natural gas is fired at S-1106. (basis: cumulative increase, toxics)
- H2.) Permittee/Owner/Operator shall ensure that S-1106 is not be operated unless it is equipped with a District approved fuel flow meter that measures the volume of fuel throughput to S-1106 in units of standard cubic feet.  
(basis: cumulative increase)
- H3.) Permittee/Owner/Operator shall ensure that the total fuel use at S-1106 does not exceed 225.257 million standard cubic feet of natural gas during any rolling 12 consecutive month period.  
(basis: cumulative increase, toxics, offsets)
- H4.) Permittee/Owner/Operator shall ensure that NO<sub>x</sub> emissions from S-1106 do not exceed 10 ppmv, dry, at 3% oxygen, based on a three hour average, after abatement at A-1106. (basis: BACT, cumulative increase, offsets)
- H5.) Permittee/Owner/Operator shall ensure that CO emissions from S-1106 do not exceed 50 ppmv, dry, at 3% oxygen, based on a three hour average.  
(basis: BACT, cumulative increase, offsets)
- H6.) Permittee/Owner/Operator shall ensure that POC emissions from S-1106 do not exceed 0.619 ton per rolling consecutive 12 month period (or the equivalent emission rate prorated to the time period during which emissions are measured/calculated).  
(basis: cumulative increase, offsets)
- H7.) Permittee/Owner/Operator shall ensure that PM-10 emissions from S-1106 do not exceed 0.856 ton per rolling consecutive 12 month period (or the equivalent emission rate prorated to the time period during which emissions are measured/calculated).  
(basis: cumulative increase, offsets)
- H8.) Permittee/Owner/Operator shall ensure that SO<sub>2</sub> emissions from S-1106 shall not exceed 0.068 ton per rolling consecutive 12 month period (or the



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equivalent emission rate prorated to the time period during which emissions are measured/calculated).  
(basis: cumulative increase, BACT, offsets)

H9.) Permittee/Owner/Operator shall ensure that S-1106 is abated by A-1106 at all times that a fuel is fired at S-1106 except for not more than 144 hours during any rolling 12 consecutive month period and during shutdown as defined by Regulation 9-10-218. The 144 hours is for start-up of S-1106. At all times other than the 144 hours per 12 consecutive month period and during shutdown as defined by Regulation 9-10-218, while a fuel is fired at S-1106, S-1106 shall be abated by A-1106 and there shall be ammonia injection at A-1106.  
(basis: BACT)

H10.) Permittee/Owner/Operator shall ensure that ammonia slip from A-1106 does not exceed 20 ppmv, dry, at 3% oxygen averaged over any 3 hour period. (basis: toxics)

H11.) Notwithstanding any provision of District regulations allowing for the malfunction of or lack of operation of the CEM, Permittee/Owner/Operator shall not operate S-1106 without a District approved continuous emissions monitoring device that continuously measures and continuously records the concentration of nitrogen oxides, in ppmv units, in the combustion exhaust from S-1106 corrected to 3 ppmv oxygen, dry; and the device shall continuously measure and continuously record the oxygen concentration in the combustion exhaust from S-1106.  
(basis: cumulative increase, BACT, offsets)

H12.) Once each calendar year Permittee/Owner/Operator shall ensure that a District approved source test is conducted that measures CO emissions from S-1106. The first CO source test for S-1106 shall be conducted within 60 days after the first date that fuel is first fired at S-1106. The District approved source test shall measure the emission rate of CO from S-1106 and the amount of oxygen in the S-1106 exhaust. Because of this condition S-1106 does not need a CEM for CO.

Permittee/Owner/Operator shall ensure that within 30 days of the date of completion of the (each) District approved source test, two identical copies of the results of the source test, each referencing permit application #2508, S-1106, and facility # B2758 are received by the District and that one copy is addressed to the District's Source Test Manager, and that the other copy is addressed the District's Engineering Division. (basis: start-up, offsets, BACT, cumulative increase, toxics)

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H13. Permittee/Owner/Operator shall ensure that a District approved source test is conducted that measures emissions from S-1106 and that the source test for S-1106 is conducted within 60 days after the first date that fuel is first fired at S-1106. The District approved source test shall measure the emission rate of NO<sub>x</sub>, CO, POC, SO<sub>2</sub>, ammonia, and PM-10 from S-1106 while it is operated at a fuel feed rate of 22857 SCF of natural gas per hour or more. For NO<sub>x</sub>, CO, and ammonia, the measurement shall be based on a three hour average. If the fuel firing rate of S-1106 during the testing is less than 22857 SCF natural gas per hour, then Permittee/Owner/Operator shall conduct a subsequent District approved source test at S-1106 every twelve months thereafter, until a District approved source test is completed while S-1106 is fired at 22857 SCF of natural gas per hour or more during the entire test period.

Permittee/Owner/Operator shall ensure that within 30 days of the date of completion of the (each) District approved source test, two identical copies of the results of the source test, each referencing permit application #2508, S-1106, and facility # B2758 are received by the District and that one copy is addressed to the District's Source Test Manager, and that the other copy is addressed the District's Engineering Division.  
(basis: start-up, offsets, BACT, cumulative increase, toxics)

H14.) In a District approved log, Permittee/Owner/Operator shall record, for S-1106, the amount of each fuel fired in units of standard cubic feet, the concentration of nitrogen oxides in the exhaust from S-1106 in ppmv corrected to 3% oxygen, the oxygen content in the combustion exhaust from S-1106, each time period during which S-1106 is operated without abatement by A-1106 and each time period during which S-1106 is operated without ammonia injection at A-1106. The District approved log shall be retained on site for at least 5 years from date of last entry and shall be made available to the District staff upon request. (basis: cumulative increase, offsets)

H15.) If, based on District approved source test results, emissions from S-1106 exceed permitted and/or offset emission levels, Permittee/Owner/Operator shall provide additional District approved emission reduction credits to the District in the amount and of the type(s) determined by the District to be due, to offset the emissions that are in excess of permitted and/or offset emission levels. (basis: offsets)

### Condition 19528

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Modified by App 18739 (Nov 2008) Removal of S924 from Part 6

Administratively Modified by Application 19326 (Feb2009), Removed Part 2 and 2A

Administratively changed by Application 19419 (June 2009). Updated to remove parts 7 and 7A redundant with District regulations.

Administratively Revised by Application 19874 (July 2009) Updates for Combustion Sources

Administratively Revised by Application 18261 Title V Renewal. Added Parts 20 and 20A for S-1411 SAP CAM.

Administratively Changed by Application 21711 (May 2010). Deleted Parts 8/8A. Deleted S1416 from Part 10/10A. Renumbered Part 11C.

Administratively Changed by Application 23232 (April 2012). Added 40 CFR 64 CAM requirements for S963 Gas Turbine.

1. Deleted. (Redundant with Title V Standard Conditions I.J.1 and I.J.2.)
- 2) Deleted. [The source test requirements in Regulation 8-44-601 are more stringent.]
- 2A) Deleted. [Part 2 source test requirements replaced by Regulation 8-44-601.]
- 3) Deleted. (Source Test not required. S-901 now has a CO CEM.)
- 3A) Deleted. (Source Test not required. S-901 now has a CO CEM.)
- 4) For each of S-909, S-912, S-913, S-915, S-916, S-919, S-920, and S-921, Permittee/Owner/Operator shall ensure that not less frequently than twice each calendar year a District approved source test is conducted for each source measuring its NOx and CO emission rate using a District approved source test method and that each test is conducted in compliance with the District's Manual of Procedures. Permittee/Owner/Operator shall ensure that the first District approved source for each of S909, S912, S913, S915, S916, S919, S920, and S921 is completed before July 31, 2004. (basis: Regulation 2-1-403; Regulation 9-10, Regulation 2-6-503)
- 4A) Permittee/Owner/Operator shall ensure that within 60 days of the date of completion of the (each) District approved source test required by condition 19528 part 4, two identical copies of the results of the source

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test along with supporting documentation, each referencing the subject source number, condition 19528 part 4 and part 4A, and plant # B12758 are received by the District and that both copies are addressed to the District's Engineering Division.

(basis: Regulation 2-1-403; Regulation 9-10, Regulation 2-6-503)

- 5) Deleted. (Sources either have a CEM or the Source Tests requirements are included in Condition 18372, Parts 33A2 or 34.)
- 5A) Deleted. (Sources either have a CEM or the Source Tests requirements are included in Condition 18372, Parts 33A2 or 34.)
- 6) Deleted. (Source Test Requirements now included in Condition 18372, Part 33A1.)
- 6A) Deleted. (Source Test Requirements now included in Condition 18372, Part 33A1.)
- 7) Deleted. (Monitoring requirements for S-952, S-953, S-954, S-955, S-956, S-957, and S-960 are required quarterly per Regulation 9-8-503)
- 7A) Deleted. (Monitoring requirements for S-952, S-953, S-954, S-955, S-956, S-957, and S-960 are required quarterly per Regulation 9-8-503)
- 8) Deleted. (Monitoring requirements for S-955, S-956, S-957, S-958, S-959, and S-960 are required quarterly per Regulation 9-8-503)
- 8A) Deleted. (Monitoring requirements for S-955, S-956, S-957, S-958, S-959, and S-960 are required quarterly per Regulation 9-8-503)
- 9) For S1401, Permittee/Owner/Operator shall ensure that not less frequently than once each calendar year a District approved source test is conducted for S-1401 measuring its SO<sub>3</sub> and H<sub>2</sub>S<sub>04</sub> emission rate per dry standard foot of exhaust volume, expressed as 100% H<sub>2</sub>S<sub>04</sub>. This monitoring requirement shall become effective April 1, 2004.  
(basis: Regulation 6-1-330, Regulation 2-1-403, Regulation 2-6-503)
- 9A) Permittee/Owner/Operator shall ensure that within 60 days of the date of completion of the (each) District approved source test required by condition 19528 part 9, two identical copies of the results of the source test and supporting documentation, each referencing S-1401, condition 19528 part 9 and part 9A, and plant #14628 are received by the District and that both copies are addressed to the District's Engineering Division.  
(basis: Regulation 2-1-403; Regulation 6-1-330, Regulation 2-6-503)

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- 10) For S-1415, Permittee/Owner/Operator shall ensure that not less frequently than once every 60 months, a District approved source test is conducted in compliance with the District's Manual of Procedures, measuring the POC emission rate and carbon concentration in ppm, dry. (basis: Regulation 8-2; Regulation 2-1-403, Regulation 2-6-503)
- 10A) Permittee/Owner/Operator shall ensure that within 60 days of the date of completion of the (each) District approved source test required by condition 19528 part 10, two identical copies of the results of the source test along with supporting documentation, each referencing the subject source number, condition 19528 part 10 and part 10A, and plant #14628 are received by the District and that both copies are addressed to the District's Engineering Division . (basis: Regulation 2-1-403; Regulation 8-2, Regulation 2-6-503)

Conditions for monitoring smoking flares :

11. Deleted. (See Discussion in Rev. 3 Statement of Basis.)
- 11A) Deleted. (See Discussion in Rev. 3 Statement of Basis.)
- 11B) 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 11C of this condition. (basis: Regulation 2-6-409.2)
- 11C) 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

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- (ii) Survey the flare by selecting a position that enables a clear view of the flare at least 15 feet, but not more than 0.25 miles, from the emission source, where the sun is not directly in the observer's eyes.
  - c). If a visible emission is observed, the owner/operator shall continue to monitor the flare for at least 3 minutes, or until there are no visible emissions, whichever is shorter.
  - d). The owner/operator shall repeat the inspection procedure for the duration of the flaring event, or until a violation is documented in accordance with Part 11D. After a violation is documented, no further inspections are required until the beginning of a new calendar day. (basis: Regulation 6-1-301, 2-1-403)
- 11D) 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 6-1-301 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)
- 11E) The owner/operator shall keep records of all flaring events, as defined in Part 11B. 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 11C of this condition) was used, the results of each inspection, and whether any violation of this condition (using visual inspection procedure in Part 11C of this condition) or Regulation 6-1-301 occurred (using EPA Method 9). (basis: Regulation 2-6-501; 2-6-409.2)
- 12) This condition applies to each organic liquid storage tank that is exempt from Regulation 8, Rule 5, Storage of Organic Liquids, due to Permittee/Owner/Operator's assertion or belief that the tank's contents comply with 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). Whenever the type of organic liquid in the tank is changed, the Permittee/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 Permittee/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 Permittee/Owner/Operator may use Table 1 to determine the material's true vapor pressure, rather than Lab Method 28.

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If the results are above 25.8 mm Hg (0.5 psia), Permittee/Owner/Operator shall report non-compliance in accordance with Standard Condition I.F and shall submit a complete permit application to the District to obtain a new Permit to Operate for the tank not more than 180 days from discovery that the true vapor pressure of the material in the tank is greater than 25.8 mm Hg (0.5 psia). This monitoring requirement shall take effect on April 1, 2004. (basis: Regulation 8-5, Regulation 2-1-403, Regulation 2-6-503)

- 12.1) Deleted (basis: Initial testing/data collection completed).
- 12A) When laboratory testing is conducted to determine the true vapor pressure of the material stored in a tank subject to condition 19528 part 12, in a District-approved log, Permittee/Owner/Operator shall record the results of the testing, the laboratory method used, along with the identity of tank by District assigned source number where the material was sampled/stored. Permittee shall retain the log for not less than five years from the date of the recording in the log. Permittee/Owner/Operator shall ensure that the log is made available to District staff upon request. (basis: Regulation 8-5, Regulation 2-1-403, Regulation 2-6-503)
- 13.) With a frequency not less than once per month, Permittee/Owner/Operator shall visually inspect the outlet at A-4 while it is abating any of the catalyst hoppers S-97, S-98, and/or S-99 and Permittee/Owner/Operator shall note whether any visible emissions are present at the A-4 exhaust point venting to atmosphere. If there are visible emissions, Permittee/Owner/Operator shall immediately take corrective action to eliminate the visible emissions. Upon completion of each inspection, in a District approved log, Permittee/Owner/Operator shall record whether there are visible emissions or not and, when visible emissions are detected, the corrective action taken to eliminate the visible emissions. During each month that S-97, S-98, and S-99 is not in operation for the entire month, Permittee/Owner/Operator need not complete this inspection for S-97, S-98, and S-99. (basis: Regulation 2-1-403, Regulation 2-6-503)
- 13A.) The owner/operator of S97, S98, S99 abated by A-4 Cyclone and Baghouse shall inspect the A-4 baghouse annually to ensure it is in good operating condition. The annual inspection and any filter bag changes shall be recorded in a District approved log. The logs in part 13 and 13A shall be kept for a minimum of five years and shall be made available to District personnel upon request. (basis: Regulation 2-1-403, Regulation 2-6-503)
- 14.) With a frequency not less than once per day, Permittee/Owner/Operator shall visually inspect S-810, S-821 and Permittee/Owner/Operator shall

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note whether any visible emissions are present at S-810, S-821. If there are visible emissions, Permittee/Owner/Operator shall immediately take corrective action to eliminate the visible emissions. Upon completion of each inspection, in a District approved log, Permittee/Owner/Operator shall record whether there are visible emissions or not and, when visible emissions are detected, the corrective action taken to eliminate the visible emissions. During each month that S-821 is not in operation for the entire month and when there is no petroleum coke stored at S-821, Permittee/Owner/Operator need not complete this inspection for S-821. This monitoring requirement shall take effect on April 1, 2004. (basis: Regulation 2-1-403, Regulation 2-6-503)

- 14a. Effective June 1, 2004, Permittee/Owner/Operator shall conduct a daily visual inspection at A-9 Coke Silo Precipitator for any emission that is greater than or equal to 20% opacity for more than 3 minutes in any hour. (basis: Regulation 6-1-302)
- 15.) Deleted. A-1420 was removed from service in 2006 when S-1405 became abated by S-1411 or S-1401.)
16. Deleted. (Moved to Title V Standard Condition I.J.3.)
17. Deleted. (63 Subpart UUU requirements have been completed.)
18. Deleted. (63 Subpart UUU requirements have been completed.)
19. The Owner/Operator of S963 shall conduct an annual District-approved source test to demonstrate compliance with Regulation 9-9-301.1 (NO<sub>x</sub> not to exceed 42 ppmv, dry, at 15% O<sub>2</sub>, fired on natural gas. The test results shall be provided to the District's Compliance and Enforcement Division and the District's Permit Services Division no less than 45 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 9-9-301.1]
- 20 For S1411, Permittee/Owner/Operator shall ensure that not less frequently than once each calendar year a District approved source test is conducted for S-1411 measuring its SO<sub>3</sub> and H<sub>2</sub>S<sub>04</sub> emission rate per dry standard foot of exhaust volume, expressed as 100% H<sub>2</sub>S<sub>04</sub>. (basis: Regulation 6-1-330, Regulation 2-1-403, Regulation 2-6-503; 40 CFR 64)
- 20A Permittee/Owner/Operator shall ensure that within 60 days of the date of completion of the (each) District approved source test required by condition 19528 part 20, two identical copies of the results of the source



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test and supporting documentation, each referencing S-1411, condition 19528 part 20 and part 20A, and plant #14628 are received by the District and that both copies are addressed to the District's Engineering Division. (basis: Regulation 2-1-403; Regulation 6-1-330, Regulation 2-6-503, 40 CFR 64)

21. For S963 Gas Turbine, the Owner/Operator shall install, calibrate, maintain and operate a continuous monitoring system to monitor and record the fuel consumption, steam injection and ratio of steam injection to fuel being fired in the turbine. When the turbine is in normal operation, as indicated by a fuel flow rate greater than 100 lb/hr (1 hour average), the steam to fuel ratio calculated by the monitoring system shall be greater than or equal to 30:1 steam to fuel (1 hour average) to ensure compliance with the NOx limit in SIP Regulation 9, Rule 9. During normal operation a steam to fuel ratio less than 30:1 (1 hour average) shall be considered an excursion under the CAM 40 CFR 64 rule and an exceedance of SIP Regulation 9, Rule 9 NOx limit for S963. (Basis: Regulations 2-1-403, 2-6-503, 40 CFR 64)
22. For S963 Gas Turbine, the Owner/Operator shall keep the following records in a District approved log:
  - a. The rate of fuel consumption, steam injection, and the steam to fuel ratio.
  - b. Monitor performance data and corrective actions taken for monitor downtime.
  - c. Written Quality Improvement Plan(s) as required by 40 CFR 60.8 and activities undertaken to implement such plans.
  - d. Other supporting information as needed.(Basis: Regulations 2-1-403, 2-6-503, 40 CFR 64)
23. For S963 Gas Turbine, the Owner/Operator shall submit an semiannual monitoring report that includes the following information:
  - a. Summary of the number, duration and cause of the steam to fuel ratio excursions and exceedances.
  - b. Corrective actions taken for each excursion or exceedance.
  - c. Summary of the number, duration and cause of monitor downtime incidents for the S963 fuel and steam monitors.
  - d. Description of actions taken to implement a Quality Improvement Plan (QIP) during the reporting period.
  - e. Documentation that the implementation of the QIP has been completed and reduced the likelihood of similar excursions or exceedances occurring.(Basis: Regulations 2-1-403, 2-6-503, 40 CFR 64.9)

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### Condition 19762

- S-775 Internal Floating Roof Tank (TK A-849);  
Capacity: 109,000 BBL, Storing: Gasoline  
Application 14580, modified by Application 2720, modified by  
Application 4579  
Administratively Changed via Application 17537, July 2008
- A1) Permittee/Owner/Operator shall ensure that the total throughput of all VOC/petroleum materials to S-775 does not exceed 11,336,000 barrels during any 12 consecutive month period.  
(basis: cumulative increase, toxics, offsets)
- A2) Permittee/Owner/Operator shall ensure that the true vapor pressure of each and all VOC/petroleum materials throughput to and/or stored in S-775 is always less than or equal to 11 psia. (basis: cumulative increase, toxics, offsets)
- A3) Deleted. Compliance with the tank design criteria was verified when S-775 was granted a Permit to Operate in 2001 via Application 4579.
- A4) Deleted. Final fitting count was verified for S-775 in a 2008 audit for Application 4579.
- A5) VOC/petroleum material other than Gasoline may be throughput to or stored at S-775, if in doing so, Permittee/Owner/Operator complies with each and all of the following:
- a) the Permittee/Owner/Operator shall ensure that the storage of each material complies with all other conditions applicable this source.
  - b) the Permittee/Owner/Operator shall ensure the storage of each material complies with all other applicable regulatory requirements applicable to this source.
  - c) the Permittee/Owner/Operator shall ensure that it creates and maintains accurate and factual District approved records that demonstrate to the District's satisfaction that no toxin listed in Table 2-5-1 is emitted from S-775 in an amount in excess of the toxin's respective trigger emission level set forth in Table 2-5-1.  
(basis: cumulative increase, toxics, offset)
- A6) On a monthly basis, in a District approved log, the Permittee/Owner/Operator shall record the throughput of each VOC/petroleum material throughput to S-775, in gallon or barrel units, by name (e.g., naphtha, Jet A, gasoline) for each month and for each rolling 12 consecutive month period. The Permittee/Owner/Operator shall ensure that the District approved log is retained on site for not less than 5 years

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from date of last entry, and that it is be made available to District staff upon request. (basis: cumulative increase, toxics, offsets)

S-1484 Oil Water Separator; Pressure Vessel;  
Volume: 1350 Gallons, Capacity: 286 BPH  
abated by A-14 Vapor Recovery  
Application 4579, August 2002.

- B1) Permittee/Owner/Operator shall ensure that the total throughput of all VOC/petroleum materials to S-1484 does not exceed 2,505,360 barrels during any 12 consecutive month period.  
(basis: cumulative increase, toxics, offsets)
- B2) Deleted. Compliance with the vessel vapor tight design criteria was verified when S-1484 was granted a Permit to Operate in 2002 via Application 4579.
- B3) Notwithstanding any provision of District regulations allowing for the mal- function of A-14 due to a valid breakdown at No. 1 Gas Plant vapor recovery compressor(s), Permittee/Owner/Operator shall ensure that S-1484 is abated by A-14 at all times that S-1484 is operated and at all times that S-1484 contains VOC/petroleum materials.  
(basis: Regulation 8-8, cumulative increase, toxics, offsets)
- B4) On a monthly basis, in a District approved log, the Permittee/Owner/Operator shall record the throughput of liquid material throughput to S-1484, in gallon or barrel units, for each month and for each rolling 12 consecutive month period. The Permittee/Owner/Operator shall ensure that the District approved log is retained on site for not less than 5 years from date of last entry, and that it is be made available to District staff upon request.  
(basis: cumulative increase, toxics, offsets)

### Condition 20099

Application 6201 (November 2002), Condition updated after Start-up (December 2004).

S-532 Oil Water Separator; Tank 532,  
modified to operate as an Oil Water  
Separator; Volume: 630K Gallons,  
Capacity: 286 BPH abated by

## VI. Permit Conditions

### A-14 Vapor Recovery System

Administratively Changed via Application 17537, July 2008

Application 17928/17458 (2008) Remove Demolished and OOS Sources

Administratively Changed by Application 24362 (June 2012) Removed S-913 from the source test requirements of Part 4 since no longer fired with 40# fuel gas.

- 1) Permittee/Owner/Operator shall ensure that the total throughput of all VOC/petroleum materials to S-532 does not exceed 2,505,360 barrels during any 12 consecutive month period. (basis: cumulative increase, toxics, BACT, offsets)
- 2) Deleted. Compliance with the tank vapor tight design criteria was verified when S-532 was granted a Permit to Operate in 2004 via Application 6201.
- 3) Notwithstanding any provision of District regulations allowing for the malfunction of A-14 due to a valid breakdown at No. 1 Gas Plant vapor recovery compressor(s), Permittee/ Owner/Operator shall ensure that S-532 (excluding the pressure vacuum relief valve vent), including the pressure vent at S-532, is abated by A-14 at all times that S-532 is operated and at all times that S-532 contains VOC/petroleum materials. basis: BACT, Regulation 8-8, cumulative increase, toxics, offsets)
- 4) Permittee/Owner/Operator shall ensure that VOC/POC emissions from S-532 that are ducted to A-14 are abated with a destruction efficiency of at least 98 percent, by weight, as measured across the combustion device(s) burning (the vapors from the) 40 Pound Fuel Gas system. (basis: BACT)
- 5) Not more than 120 days after the start-up of S-532 pursuant to Authority to Construct #6201, Permittee/Owner/Operator shall conduct a District approved source test at each of the following sources:

S-908 No. 8 Furnace @ No. 3 Crude Unit

S-909 No. 9 Furnace @ No. 1 Feed Prep.

S-912 No. 12 Furnace @ No. 1 Feed Prep.

to measure for each source each of the following:

the fuel feed rate in pounds/hr

the POC emission rate at the stack

the flue gas flow rate in SCFM at the stack

the oxygen content of the stack flue gas

the destruction efficiency of POC/VOC as measured across the Furnace/combustion device

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Permittee/Owner/Operator shall ensure that two copies of the results of the source testing along with related calculations and relevant process data are received by the District's Engineering Division not more than 35 days following the date of the source test.

5A) Deleted. (S-991 was taken out of service in 1993). (basis: BACT)

6) To determine compliance with part 4, the owner/operator shall conduct a District approved source test at each of the following sources every 5 years in the year prior to the Title V Permit Renewal.

S-908 No. 8 Furnace @ No. 3 Crude Unit  
S-909 No. 9 Furnace @ No. 1 Feed Prep.  
S-912 No. 12 Furnace @ No. 1 Feed Prep.

For each source, the owner/operator must measure the following:

- the fuel feed rate in pounds/hr
- the POC emission rate at the stack
- the flue gas flow rate in SCFM at the stack
- the oxygen content of the stack flue gas
- the stack temperature
- the destruction efficiency of POC as measured across the combustion device

The owner/operator shall submit individual copies of the results of the source tests (along with related calculations and process data) to the District's Engineering Division, Enforcement Division, and Source Test Division within 35 days of the source test.

(basis: Cumulative Increase, Toxic Risk Screen, Offsets, Regulation 1-238)

7) During periods of preventative maintenance on A-14 Vapor Recovery System not to exceed 36 hours per rolling consecutive 12 month period, Permittee/Owner/Operator shall ensure that there is no liquid flow into S-532 and that under no circumstances shall the preventative maintenance begin prior to 6:00 PM PST. During the preventative maintenance on A-14 Vapor Recovery System S-532 does not need to be abated by A-14.

(basis: BACT)

8) On a monthly basis, in a District approved log, the Permittee/Owner/Operator shall record the throughput of liquid material throughput to S-532, in gallon or barrel units, for each month and for each rolling 12 consecutive month period. The Permittee/Owner/Operator shall ensure that the District approved log is retained on site for not less than 5 years from date of last entry, and that it is made

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available to District staff upon request. (basis: cumulative increase, toxics, offsets)

9) On a monthly basis, in a District approved log, the Permittee/Owner/Operator shall record the time, date, duration, and reason for each instance during which S-532 is not abated by A-14. The Permittee/Owner/Operator shall ensure that the District approved log is retained on site for not less than 5 years from date of last entry, and that it is made available to District staff upon request. (basis: cumulative increase, toxics, offsets)

10) Deleted (S-46 TK046 has been taken out of service)

### Condition 20520

S-1485 Internal Floating Roof Tank; Tank A-870, Capacity: 130,000 BBL,  
Storing: Gasoline Blending Components

Administratively Changed via Application 17537, July 2008

1) Permittee/Owner/Operator shall ensure that the total throughput of all VOC/petroleum materials to S-1485 does not exceed 11,000,000 barrels during every 12 consecutive month period.  
(basis: cumulative increase, toxics, offsets)

2) Permittee/Owner/Operator shall ensure that the true vapor pressure of each and all VOC/petroleum materials throughput to and/or stored in S-1485 is always less than or equal to 11 psia.  
(basis: cumulative increase, toxics, offsets)

3) Deleted. Compliance with the tank design criteria was verified when S-1485 was granted a Permit to Operate in 2004 via Application 6674.

4) Deleted. Final fitting count was provided and offsets were adjusted in December 2004 via Application 6674.

5) Permittee/Owner/Operator shall ensure that no VOC/petroleum material other than heavy cracked naphtha, cat cracked heavy naphtha, heavy naphtha reformate, heavy catalytic reformed naphtha, medium reformate fractionator bottoms, stabilized reformate, FCC gasoline, and/or FCC Merox product is throughput to or stored at S-1485, unless Permittee/Owner/Operator complies with each and all of the following:

a) the Permittee/Owner/Operator shall ensure that the storage of each material complies with all other conditions applicable this source.

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b) the Permittee/Owner/Operator shall ensure the storage of each material complies with all other applicable regulatory requirements applicable to this source.

c) the Permittee/Owner/Operator shall ensure that it creates and maintains accurate and factual District approved records that demonstrate to the District's satisfaction that no toxin listed in Table 2-5-1 is emitted from S-1485 in an amount in excess of the toxin's respective trigger emission level set forth in Table 2-5-1.

(basis: cumulative increase, toxics, offset)

6) On a monthly basis, in a District approved log, the Permittee/Owner/Operator shall record the throughput of each VOC/petroleum material throughput to S-1485, in gallon or barrel units, by the material's MSDS name true name as disclosed on the material's MSDS (e.g., cat cracked heavy naphtha, medium reformat fractionator bottoms, stabilized reformat, FCC gasoline) for each month and for each rolling 12 consecutive month period. The Permittee/Owner/Operator shall ensure that the District approved log is retained on site for not less than 5 years from date of last entry, and that it is be made available to District staff upon request.

(basis: cumulative increase, toxics, offsets)

### Condition 20672

Application #6945; Amended by Application #7776  
Administratively changed by Application 19419 (June 2009). Updated to remove parts superceded by standard conditions and parts redundant with District regulations.

S-1487 Tank 38 Fire-Water Pump Engine; Diesel Fired, 420 BHP, Caterpillar 3406DBITA; Maximum Firing Rate: 2.79 MMBtu/hr

A1. Deleted. (basis: Superceded by Condition 22851, Part 1

A2. Deleted (basis: "Emergency Conditions" is defined in Regulation 9-8-231.5)

A3. Deleted (basis: ("Reliability-related activities" is defined in Regulation 9-8-232

A4. Deleted. (basis: Hour meter requirement redundant with Regulation 9-8-530.

A5. Permittee/Owner/Operator shall ensure that S-1487 is capable of operation with NOx emissions less than or equal to 9.65 grams/bhp-hr.

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(basis: BACT)

- A6. Permittee/Owner/Operator shall ensure that S-1487 is capable of operation with CO emissions less than or equal to 1.71 grams/bhp-hr. (basis: BACT)
- A7. Deleted (basis: Recordkeeping requirements redundant with Regulation 9-8-530. Record retention requirement redundant with Regulation 2-6-501.
- A8. At S-1487, Permittee/Owner/Operator shall fire no fuel other than CARB Ultra Low Sulfur diesel fuel with a maximum sulfur content not to exceed 15 ppmw .  
(basis: BACT, cumulative increase)
- A9. Startup Condition Deleted (basis: BACT, cumulative increase, start-up).  
(Deletion basis: Startup source tests completed and verified by the District).

S-1488 Canal Fire-Water Pump Engine; Diesel Fired, 538 BHP, Caterpillar 3412T; Maximum Firing Rate: 3.5 MMBtu/hr

- B1. Deleted (basis: Superseded by Condition 22851, Part 1)
- B2. Deleted ("Emergency Conditions" is defined in Regulation 9-8-231.5)
- B3. Deleted (basis: "Reliability-related activities" is defined in Regulation 9-8-232)
- B4. Deleted (basis: Hour meter requirement redundant with Regulation 9-8-530)
- B5. Permittee/Owner/Operator shall only operate S-1488 at a brake specific NOx emission rate less than or equal to 8.0 grams/bhp-hr.  
(basis: BACT)
- B6. Permittee/Owner/Operator shall only operate S-1488 at a brake specific CO emission rate less than or equal to 1.15 grams/bhp-hr.  
(basis: BACT)
- B7. Permittee/Owner/Operator shall only operate S-1488 at a brake specific PM-10 emission rate less than or equal to 0.22 grams/bhp-hr.  
(basis: cumulative increase, offsets)
- B8. Deleted (basis: Recordkeeping requirements redundant with Regulation 9-8-530. Record retention requirement redundant with Regulation 2-6-501.



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- B9. At S-1488, Permittee/Owner/Operator shall fire no fuel other than CARB Ultra Low Sulfur diesel fuel with a maximum sulfur content not to exceed 15 ppmw.  
(basis: BACT, cumulative increase)
- B10. Startup Condition Deleted (basis: BACT, cumulative increase, start-up)  
(Deletion basis: Startup source tests completed and verified by the District)

### Condition 20923

Application #7768

S-134 Fixed Cone Roof Tank; Tank A-134,  
Capacity: 651,000 Gallons,  
Storing: Recovered Oil  
abated by A-14 Vapor Recovery System

- 1.) Permittee/Owner/Operator shall ensure that the total throughput of all VOC/petroleum materials to S-134 does not exceed 700,000 barrels during every 12 consecutive month period.  
(basis: cumulative increase, toxics, offsets)
- 2.) Permittee/Owner/Operator shall ensure that no VOC/petroleum material other than recovered oil/slop oil is throughput to or stored in S-134.  
(basis: cumulative increase, offsets)
- 3.) Permittee/Owner/Operator shall ensure that S-134 is abated by A-14 Vapor Recovery System at all times that VOC/petroleum material is throughput to or stored/contained in S-134.  
(basis: BACT, Regulation 8-5, cumulative increase, toxics, NSPS, Regulation 10 Subpart Kb, offsets)
- 4.) On a monthly basis, in a District approved log, the Permittee/Owner/Operator shall record the throughput of each VOC/petroleum material throughput to S-134, in gallon or barrel units, by the material's name as disclosed on the MSDS for the material (e.g., slop oil/recovered oil) for each month and for each rolling 12 consecutive month period. The Permittee/Owner/Operator shall ensure that the District approved log is retained on site for not less than 5 years from date of last entry, and that it is be made available to District staff upon request.

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(basis: cumulative increase, toxics, offsets)

### Condition 21053

Tesoro Refining and Marketing Company  
150 Solano Way  
Martinez, CA 94533

Application 17928 (October 2008) Removed demolished sources S317, S324, S431, S457, S46, S21, and S991.

Application 19328/19329 (June 2009) Removal of S700 from Part 6

Administratively Changed by Application 24362 (June 2012) Removed S-913 from the source test requirements of Part 4 since no longer fired with 40# fuel gas.

1. Deleted. (See discussion of Compliance with Regulation 9-1-313.2 in the Revision 2 Statement of Basis).
2. The Owner/Operator shall monitor and record on a monthly basis the visible emissions from Sources S-1401, S-1404, and S-1411 to demonstrate compliance with Regulation 6-1-301 (Ringelmann 1 or 20% opacity). 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 6-1-301]
3. The Owner/Operator shall conduct an annual District-approved source test on the S-323, to demonstrate that the combined collection/destruction efficiency of A-14 is no less than 99.5%, by weight, for VOC. The Owner/Operator shall submit the test results to the District's Compliance and Enforcement Division and the District's Engineering 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: BAAQMD Condition 13605, Part 3 and 4, and BAAQMD Regulation 2-1-403]
4. To allow sufficient time to prepare test plans, train employees, and install any necessary equipment, the monitoring requirements are effective April 1, 2004.
5. Deleted. (See discussion of Compliance with Regulation 9-1-313.2 in the Revision 2 Statement of Basis).
6. The owner/operator of the listed tanks shall abate them by the A14 Vapor Recovery System at all times of operation, except as allowed in

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Regulation 8-5. A14 Vapor Recovery System compresses the vapors to be mixed with the refinery fuel gas system for combustion in S908, S909, or S912. The owner/operator will meet a POC destruction efficiency of at least 95% by weight.

Tanks: S318, S367, S134, S137, S513 (basis: 60.113b(c)(2))

Tanks: S323, S432, , S603, (basis: 63.646(a), 63.120(d)(5))

7. The owner/operator shall conduct a District approved source test at each of the following sources every 5 years in the year prior to the Title V Permit Renewal.:

S-908 No. 8 Furnace @ No. 3 Crude Unit

S-909 No. 9 Furnace @ No. 1 Feed Prep.

S-912 No. 12 Furnace @ No. 1 Feed Prep.

to measure for each source each of the following:

the fuel feed rate in pounds/hr

the POC emission rate at the stack

the flue gas flow rate in SCFM at the stack

the oxygen content of the stack flue gas

the destruction efficiency of POC/VOC as measured across the Furnace/combustion device

The owner/operator shall ensure that two copies of the results of the source testing along with related calculations and relevant process data are received by the District's Engineering Division not more than 45 days following the date of the source test.

### Condition 21100:

Application #8002 (December 11, 2003)

Amended by Application #9728 (June 25, 2004): Increase vapor pressure from 8 to 11 psig, decrease throughput from 5,500,000 barrels/yr to 2,500,000 barrels/yr, add monitoring.

Amended by Application 10659: Clarification of conditions including "net" versus "total" throughput limit.

Application 17928/17458(2008) Remove Demolished and OOS Sources.

Administratively Changed by Application 24362 (June 2012) Removed S-913 from the source test requirements of Part 4 since no longer fired with 40# fuel gas.

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S-1496 Fixed Roof Tank; Tank A-876, Capacity: 80,000 Barrels, Storing: Heavy Reformate with Pentanes, Straight Run Heavy Naphtha abated by A-14 Vapor Recovery System

1) The total net throughput at tank S-1496 shall not exceed 2,500,000 barrels in any consecutive 12-month period. The owner/operator shall use a radar-monitoring device to measure the height of the tank. The owner/operator shall use the change in height to calculate throughput.

(basis: Cumulative Increase, Toxic Risk Screen, Offsets)

2) Notwithstanding any provision of District regulations allowing for the malfunction of A-14 due to a valid break down at No. 1 Gas Plant vapor recovery compressor(s), the owner/operator shall ensure that S-1496 (excluding the pressure vacuum relief valve vent), including the pressure vent at S-1496, is abated by A-14 at all times. The A-14 Vapor Recovery System shall have a destruction efficiency of at least 99.5% by weight as measured across the combustion device(s) burning the vapors from the fuel gas system.

(basis: Cumulative Increase, Toxic Risk Screen, Offsets, Regulation 8-5, NSPS, Regulation 10 Subpart Kb)

3) Materials stored in S-1496 shall be limited to the following:

a. Heavy reformate, heavy reformate with pentanes, fractionator splitter bottoms, conventional gasoline stock, heavy naphtha, or straight run gasoline with a true vapor pressure less than 11 psia.

b. A liquid other than those specified above may be stored in S-1496, provided that all of the following criteria are met:

1. True vapor pressure must be less than 11 psia

2. POC emissions, based on the maximum throughput in part 1, do not exceed 8,868 pounds per year; and

3. toxic emissions in lbs/year, based on the maximum throughput in part 1, do not exceed any risk screening trigger level.

(basis: Cumulative Increase, Toxic Risk Screen, Offsets)

4) To determine compliance with part 2, the owner/operator shall conduct a District approved source test at each of the following sources every 5 years in the year prior to the Title V Permit Renewal (initial compliance has been demonstrated in a source test for AN 6201 by TIAX on October 28, 2003).

S-908 No. 8 Furnace @ No. 3 Crude Unit

S-909 No. 9 Furnace @ No. 1 Feed Prep.

S-912 No. 12 Furnace @ No. 1 Feed Prep.

For each source, the owner/operator must measure the following:

- the fuel feed rate in pounds/hr

- the POC emission rate at the stack

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- the flue gas flow rate in SCFM at the stack
- the oxygen content of the stack flue gas
- the stack temperature
- the destruction efficiency of POC as measured across the combustion device

The owner/operator shall submit individual copies of the results of the source tests (along with related calculations and process data) to the District's Engineering Division, Enforcement Division, and Source Test Division within 35 days of the source test.

(basis: Cumulative Increase, Toxic Risk Screen, Offsets, Regulation 1-238)

5) To determine compliance with the above parts, the owner/operator shall maintain the following records and provide all of the data necessary to evaluate compliance with the above conditions, including, but not necessarily limited to, the following information:

- a. On a monthly basis, type and amount of liquids stored and true vapor pressure ranges of such liquids.
- b. The throughput of material shall be added and recorded in the log for each month and for each rolling consecutive 12-month period.
- c. The time, date, duration, and reason for each instance that S-1496 is not abated by A-14.

These records shall be kept on-site for at least 5 years. All records shall be recorded in a District-approved log and made available for inspection by District staff upon request. These recordkeeping requirements shall not replace the recordkeeping requirements contained in any applicable District Regulations.

(basis: Cumulative Increase, Toxic Risk Screen, Offsets, Regulation 1-441, Regulation 8-5-501, Regulation 1-238)

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### Condition 21186

Application 6820

Administratively Revised by Application 19874 (July 2009) Updates for  
Combustion Sources

S-916 No. 16 Furnace - No. 1 HDS Heater; Firing Refinery Fuel Gas, Natural  
Gas, Maximum Firing Rate: 55 MMBtu/hr

S-917 No. 17 Furnace - No. 1 HDS Prefractionator Reboiler, Maximum Firing  
Rate: 18 MMBtu/hr

1. Once each day while 100# Fuel Gas is fired at S-916 and/or S-917, except for 36 calendar days per rolling 52 consecutive week period, and except for each calendar day when no fuel is fired at S-916 and S-917, and except for each calendar day that natural gas is fired exclusively at both S-916 and S-917, Permittee/Owner/Operator shall sample the Fuel Gas to be fired at S-916 and/or S-917 directly upstream of burner fuel gas feed line to S-916 and S-917, and Permittee/Owner/Operator shall ensure that the sample is subjected to laboratory analysis to determine the total reduced sulfur (TRS) content of the sample, in ppmvd units. Permittee/Owner/Operator shall ensure that the laboratory analysis method employed is a method that is approved by the District.  
(basis: cumulative increase, BACT, offsets, Regulation 2-1-403)

2. Not more than 14 days after the date that each sample of the Fuel Gas sample is taken pursuant to part 1 of these conditions, Permittee/Owner/Operator shall ensure that the laboratory analysis of the sample is completed and that the result of each sample analysis, disclosing the TRS content of the sample in ppmvd, is recorded in a District approved log.  
(basis: cumulative increase, BACT, offsets, Regulation 2-1-403)

3. Permittee/Owner/Operator shall ensure that the TRS content of the Fuel Gas to be fired at S-916 and/or S-917 is NOT greater than 300 ppmvd. This condition will have been violated when the result of any daily laboratory analysis of the TRS content of the Fuel Gas to be fired at S-916 and/or S-917 is greater than 300 ppmvd.  
(basis: cumulative increase, BACT, offsets, Regulation 2-1-403)

4. Permittee/Owner/Operator shall ensure that annual average of the daily Fuel Gas sample TRS analysis results is NOT greater than 281 ppmvd. This condition will have been violated when the annual average of the daily Fuel Gas sample TRS analysis results is greater than 281 ppmvd. Permittee/Owner/Operator shall determine the annual average of the daily Fuel Gas sample TRS analysis results

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by summing the TRS analysis results of each day during each rolling 52 consecutive week period, and dividing the sum by the number of days of sample analysis results.

(basis: cumulative increase, BACT, offsets, Regulation 2-1-403)

5. Deleted. (Daily fuel gas sampling and analysis started May 20, 2004.)

6. Deleted. (Variables that affect TRS content of fuel gas provided February 17, 2004.)

7. Each calendar day, in a District approved log, Permittee/Owner/Operator shall record:

A. Each fuel fired at S-916 each calendar day.

B. Each fuel fired at S-917 each calendar day.

C. Each calendar day that no fuel is fired at S-916.

D. Each calendar day that no fuel is fired at S-917.

E. Not more than 14 days after the date that a sample of Fuel Gas is taken pursuant to part 1 of these conditions, the results of each analysis disclosing the TRS content of the Fuel Gas sample, in units of ppmvd, along with the date the sample was taken, the District approved laboratory method used, and the identity of the entity completing the laboratory sample analysis.

F. The annual average of the daily Fuel Gas sample TRS analysis results.

Permittee/Owner/Operator shall ensure that each District approved log required pursuant to these conditions is kept on site, is retained for a period of not less than 5 years from date of last entry, and is made available to the District upon request.

(basis: cumulative increase, BACT, offsets, Regulation 2-1-403)

### Condition 21393

Application #9129 (April 2004).

Administratively Changed via Application 17537, July 2008

S-871 Tank A-871, External Floating Roof, Capacity: 13,146K gallons, Crude and Low Sulfur Vacuum Gas Oil Storage

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- 1) The total throughput at tank S-871 shall not exceed 20,000,000 barrels in any consecutive 12-month period.  
(basis: Cumulative Increase, Toxic Risk Screen, BACT)
- 2) Materials stored in S-871 shall be limited to the following:
  - a. Crude or low sulfur vacuum gas oil with a true vapor pressure less than 11 psia
  - b. A liquid other than those specified above may be stored in S-871, provided that both of the following criteria are met:
    1. true vapor pressure must be less than 11 psia
    2. POC emissions, based on the maximum throughput in part 1, do not exceed 15,904 pounds per year; and
    3. toxic emissions in lbs/year, based on the maximum throughput in part 1, do not exceed any risk screening trigger level.  
(basis: Cumulative Increase, Toxic Risk Screen)
- 3) Deleted. Final fitting count was provided and offsets were adjusted in January 2007 via Application 9129.
- 4) To determine compliance with the above conditions, the owner/operator shall maintain the following records and provide all of the data necessary to evaluate compliance with the above conditions, including, but not necessarily limited to, the following information:
  - a. On a monthly basis, type and amount of liquids stored and true vapor pressure ranges of such liquids. These records shall be kept for at least 5 years.
  - b. For external floating roof tanks, the owner/operator who replaces all or part of a primary or secondary seal shall keep an accurate record of the length of seal replaced and the date(s) on which replacement occurred. These maintenance records shall be kept for at least 10 years.All records shall be recorded in a District-approved log and made available for inspection by District staff upon request. These recordkeeping requirements shall not replace the recordkeeping requirements contained in any applicable District Regulations.  
(basis: Cumulative Increase, Regulation 1-441, Regulation 8-5-501)

### Condition 21535

Application #9160 (June 15, 2004)

S-1491 Fixed Volume Portable Tank #3; Storing: Slop Oil and Water Mixture, Capacity: 500 BBL abated in series by A-1001 Carbon Canister 200 LB Activated Carbon and A-1002 Carbon Canister 200 LB Activated Carbon



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1) The total throughput at tank S-1491 shall not exceed 13,000 barrels in any consecutive 12-month period.

(basis: Cumulative Increase, Toxic Risk Screen)

2) The owner/operator shall abate S-1491 with A-1001 and A-1002 Carbon Canisters in series at all times. The carbon canisters (200 lb/each activated carbon) shall have an overall collection and adsorption efficiency of at least 95% by weight POC.

(basis: Cumulative Increase, Toxic Risk Screen)

3) Materials stored in S-1491 shall be limited to the following:

a. Crude or low sulfur vacuum gas oil with a true vapor pressure less than 11 psia

b. A liquid other than those specified above may be stored in S-1491, provided that both of the following criteria are met:

1. Slop Oil and water mixture with true vapor pressure must be less than 11 psia

2. POC emissions, based on the maximum throughput in part 1, do not exceed 355.75 pounds per year; and

3. toxic emissions in lbs/year, based on the maximum throughput in part 1, do not exceed any risk screening trigger level.

(basis: Cumulative Increase, Toxic Risk Screen)

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

a. At the inlet to the second to last carbon vessel in series.

b. At the inlet to the last carbon vessel in series.

c. At the outlet of the carbon vessel that is last in series prior to venting to the atmosphere.

When using an FID to monitor breakthrough, readings may be taken with and without a carbon filter tip fitted on the FID probe. Concentrations measured with the carbon filter tip in place shall be considered methane for the purpose of these permit conditions.

(basis: Cumulative Increase, Toxic Risk Screen)

5) These monitor readings shall be recorded in a monitoring log at the time they are taken. The monitoring results shall be used to estimate the frequency of carbon change-out necessary to maintain compliance with parts number 6 and 7, and shall be conducted every other day. The owner/operator of this source may propose for District review, based on actual measurements taken at the site during operation of the source, that the monitoring schedule be changed based on the decline in organic emissions and/or the demonstrated breakthrough rates of the

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carbon vessels. Written approval by the District's Permit Services Division must be received by the owner/operator prior to a change to the monitoring schedule.  
(basis: Cumulative Increase, Toxic Risk Screen)

6) The second to last carbon vessel shall be changed out with unspent carbon upon breakthrough, defined as the detection at its outlet of the higher of the following:

- a. 10 % of the inlet stream VOC concentration to the Carbon vessel.
- b. 10 ppmv or greater VOC (measured as C1).

(basis: Cumulative Increase, Toxic Risk Screen)

7) The last carbon vessel shall be changed out with unspent carbon upon detection at its outlet of 10 ppmv or greater VOC (measured as C1).

(basis: Cumulative Increase, Toxic Risk Screen)

8) Any exceedance of conditions parts 6 and/or 7 shall be reported to the Permit Services Division with the log as well as the corrective action taken. 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, Toxic Risk Screen)

9) To determine compliance with the above conditions, the owner/operator shall maintain the following records and provide all of the data necessary to evaluate compliance with the above conditions, including, but not necessarily limited to, the following information:

- a. On a monthly basis, type and amount of liquids stored and true vapor pressure ranges of such liquids.
- b. Each monitor reading or analysis result for the day of operation they are taken.
- c. The number of carbon beds removed from service.

These records shall be kept on-site for at least 5 years. All records shall be recorded in a District-approved log and made available for inspection by District staff upon request. These recordkeeping Requirements shall not replace the recordkeeping Requirements contained in any applicable District Regulations.

(basis: Cumulative Increase, Regulation 1-441, Regulation 8-5-501)

### Condition 21536

Application #9259 (June 15, 2004)

S-1489 Fixed Volume Portable Tank #1; Storing: Slop Oil and Water Mixture, Capacity: 500 BBL abated in series by A-1001 Carbon Canister 200 LB Activated Carbon and A-1002 Carbon Canister 200 LB Activated Carbon

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S-1490 Fixed Volume Portable Tank #2; Storing: Slop Oil and Water Mixture, Capacity: 500 BBL abated in series by A-1001 Carbon Canister 200 LB Activated Carbon and A-1002 Carbon Canister 200 LB Activated Carbon

1) The total throughput at tank S-1489 shall not exceed 13,000 barrels in any consecutive 12-month period.

(basis: Cumulative Increase, Toxic Risk Screen)

2) The total throughput at tank S-1490 shall not exceed 13,000 barrels in any consecutive 12-month period.

(basis: Cumulative Increase, Toxic Risk Screen)

3) The owner/operator shall abate S-1489 and S-1490 with A-1001 and A-1002 Carbon Canisters in series at all times. The carbon canisters (200 lb/each activated carbon) shall have an overall collection and adsorption efficiency of at least 95% by weight POC.

(basis: Cumulative Increase, Toxic Risk Screen)

4) Materials stored in S-1489 and S-1490 shall be limited to the following:

a. Slop Oil and water mixture with a true vapor pressure less than 11 psia

b. Liquids other than those specified above may be stored in S-1489 and S-1490, provided that both of the following criteria are met:

1. true vapor pressure must be less than 11 psia

2. POC emissions, based on the maximum throughput in parts 1 and 2, do not exceed 711.50 pounds per year;and

3. toxic emissions in lbs/year, based on the maximum throughput in parts 1 and 2, do not exceed any risk screening trigger level.

(basis: Cumulative Increase, Toxic Risk Screen)

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

a. At the inlet to the second to last carbon vessel in series.

b. At the inlet to the last carbon vessel in series.

c. At the outlet of the carbon vessel that is last in series prior to venting to the atmosphere.

When using an FID to monitor breakthrough, readings may be taken with and without a carbon filter tip fitted on the FID probe. Concentrations measured with the carbon filter tip in place shall be considered methane for the purpose of these permit conditions.

(basis: Cumulative Increase, Toxic Risk Screen)

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

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carbon change-out necessary to maintain compliance with parts number 7 and 8, and shall be conducted every other day. The owner/operator of this source may propose for District review, based on actual measurements taken at the site during operation of the source, that the monitoring schedule be changed based on the decline in organic emissions and/or the demonstrated breakthrough rates of the carbon vessels. Written approval by the District's Permit Services Division must be received by the owner/operator prior to a change to the monitoring schedule. (basis: Cumulative Increase, Toxic Risk Screen)

7) The second to last carbon vessel shall be changed out with unspent carbon upon breakthrough, defined as the detection at its outlet of the higher of the following:

- a. 10 % of the inlet VOC stream concentration to the Carbon vessel.
- b. 10 ppmv or greater VOC (measured as C1).

(basis: Cumulative Increase, Toxic Risk Screen)

8) The last carbon vessel shall be changed out with unspent carbon upon detection at its outlet of 10 ppmv or greater VOC (measured as C1).

(basis: Cumulative Increase, Toxic Risk Screen)

9) Any exceedance of conditions parts 7 and/or 8 shall be reported to the Permit Services Division with the log as well as the corrective action taken. 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, Toxic Risk Screen)

10) To determine compliance with the above conditions, the owner/operator shall maintain the following records and provide all of the data necessary to evaluate compliance with the above

conditions, including, but not necessarily limited to, the following information:

- a. On a monthly basis, type and amount of liquids stored and true vapor pressure ranges of such liquids.
- b. Each monitor reading or analysis result for the day of operation they are taken.
- c. The number of carbon beds removed from service.

These records shall be kept on-site for at least 5 years. All records shall be recorded in a District-approved log and made available for inspection by District staff upon request. These recordkeeping Requirements shall not replace the recordkeeping Requirements contained in any applicable District Regulations.

(basis: Cumulative Increase, Regulation 1-441, Regulation 8-5-501)

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### Condition 21751

Application #9788 (September 17, 2004)

Application #10880 (October, 2004): Amendment to refund offsets and clarify conditions.

Application 18861/18862 (2008) Remove Redundant and Completed Fugitive Conditions

Ultra Low Sulfur Diesel Project

S-920 No. 2 HDS Charge Heater, No. 20 Furnace, Foster Wheeler, Maximum Firing Rate: 63 MMBtu/hr

S-1001 No. 50 Crude Unit

S-1003 No. 2 HDS Unit

1. Completed. (Final Fugitive Count submitted 3/3/06 and offsets were adjusted.)
2. Completed. (Final Fugitive Count submitted 3/3/06 and offsets were adjusted.)
3. Deleted. (Valve Design Requirements Completed and Leak Limits redundant with Regulation 8-18-302)
4. Deleted. (Connector Design Requirements Completed and Leak Limits redundant with Regulation 8-18-304)
5. Deleted. (Pump Design Requirements Completed and Leak Limits redundant with Regulation 8-18-303)
6. Deleted. (Compressor Design Requirements Completed and Leak Limits redundant with Regulation 8-18-303)
7. Deleted. (Pressure Relief Valve Design Requirements Completed and redundant with Regulation 8-28-302. . All PRDs vent to the refinery fuel gas system or an abatement device with  $\geq 98\%$  efficiency.)
8. Deleted. (Completed. All fugitive components have been added to the refinery fugitive monitoring and repair program)

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### Condition 21849

Application #10668 (October 29, 2004)  
Loading Rack Modernization Project

Application #13493 (October, 2005): Modification of emission limit from S-1025 to the RACT and Regulation 8-33-301 level of 0.08 lb POC per 1000 gallon of material loaded.

Administratively Changed by Application 18861 (June 2009) Removed completed parts and parts redundant with District Regulations

Application 17928/17458 (2008) Remove Demolished and OOS Sources

Application 21023 (January 2010): increase ethanol throughput of S-1504 from 400,000 bbl/yr to 1,200,000 bbl/yr.

Administratively changed by Application 23981 (April 2012):  
Updated Part 11 to remove 5 year source test link to Title V renewal, removed S-913 from source test requirement (no longer on 40# fuel gas system, and increased time allowed for submitting source test report to 60 days.

Administratively Changed by Application 24362 (June 2012) Removed S-913 from the source test requirements of Part 4 since no longer fired with 40# fuel gas.

S-613 Vapor Storage Tank A-613; Fixed Roof Tank, Capacity 420K Gallons, Storing: Organic Vapor

S-696 Tank A-696; Internal Floating Roof Tank, Capacity 630K Gallons, Storing: Gasoline

S-1025 Bulk Terminal Bottom Loading Facilities: Gasoline, Naphtha, Kerosene, Diesel, Fuel Oil, Ethanol

S-1504 Bulk Terminal Unloading Rack: Ethyl Alcohol

#### Fugitive Components

1) Completed. Final fugitive count for the project submitted 5/5/2005 and offsets were provided.

2) Completed. Final fugitive count for the project submitted 5/5/2005 and offsets were provided.

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- 3) Deleted. ATC construction requirement completed.
- 4) Deleted. ATC construction requirement completed.
- 5) Deleted. ATC construction requirement completed.
- 6) Deleted. ATC construction requirement completed. Redundant with Regulation 8-28.
- 7) Deleted. Redundant with Regulation 8-18. Components were incorporated into facility LDAR program on project startup.

S-1025 Bulk Plant Bottom Loading Facilities: Gasoline, Naphtha, Kerosene, Diesel, Fuel Oil, Ethanol

8) The owner/operator of S-1025 shall apply for the proper certification from the California Air Resources Board (CARB) for the A-14 Vapor Recovery System prior to startup.  
(basis: Regulation 8-33-301, 302)

9) The owner/operator of S-1025 Bulk Plant Loading Facilities shall not exceed the following throughputs.  
64,457 barrels (2,707,194 gallons) per day  
18,615,000 barrels (781,830,000 gallons) per any 12 month consecutive period  
(basis: toxic risk screen)

10) The owner/operator of S-1025 shall not transfer any material other than gasoline, naphtha, kerosene, diesel, fuel oil, or ethanol.  
(basis: toxic risk screen)

11) To ensure that the S-1025 Bulk Plant Unloading Rack does not exceed an emission factor greater than 0.08 lb POC per 1000 gallons of material loaded, the owner/operator shall:

- a) not operate S-1025 unless vented to S-613 Vapor Recovery Tank and A-14 Vapor Recovery System.
- b) install a sample line from each of the pressure-vacuum valves located at the loading racks, which is easily accessible by District personnel to determine any valve leakage.
- c) install and maintain a pressure switch at the knockout pot, V-61, located at the interface of the vapor outlet of the S-1025 Loading Rack and the inlet to the A-14 Vapor Recovery and S-613 Vapor Recovery Tank Systems. The pressure switch shall be set at 18 inches of water column as measured at the cargo tank/vapor coupler interface located the furthest

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from the knockout pot, V-61. If the pressure exceeds 18 inches, a high-pressure alarm will shutdown loading rack operations.

d) conduct District approved source tests to determine POC destruction efficiency at the following sources every 5 years (initial compliance has been demonstrated in a source test for AN 6201 by TIAX on October 28, 2003).

S-908 No. 8 Furnace @ No. 3 Crude Unit  
S-909 No. 9 Furnace @ No. 1 Feed Prep.  
S-912 No. 12 Furnace @ No. 1 Feed Prep.

For each source, the owner/operator must measure the following:

- the fuel feed rate in pounds/hr
- the POC emission rate at the stack
- the flue gas flow rate in SCFM at the stack
- the oxygen content of the stack flue gas
- the stack temperature
- the destruction efficiency of POC as measured across the combustion device

The owner/operator shall submit individual copies of the results of the source tests (along with related calculations and process data) to the District's Engineering Division, Enforcement Division, and Source Test Section within 60 days of the source test.

(basis: Cumulative Increase, Toxic Risk Screen, Regulation 8-33-301, Regulation 1-238, BACT)

12) To determine compliance with the parts 8-11, the owner/operator shall maintain the following records and provide all of the data necessary to evaluate compliance with the above conditions, including, but not necessarily limited to, the following information:

- a. California Air Resources Board certification of A-14.
- b. On a daily basis, type and quantity of product loaded.
- c. The throughput of material shall be added and recorded in the log for each month and for each rolling consecutive 12-month period.
- d. The time, date, duration, and reason for each instance that S-1025 is not abated by S-613 or A-14.

These records shall be kept on-site for at least 5 years. All records shall be recorded in a District-approved log and made available for inspection by District staff upon request. These recordkeeping requirements shall not replace the recordkeeping requirements contained in any applicable District Regulations.

(basis: Cumulative Increase, Toxic Risk Screen, Offsets, Regulation 1-441, Regulation 1-238)

S-1504 Bulk Plant Unloading Rack: Ethanol



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13) The owner/operator of S-1504 Bulk Plant Unloading Rack shall not exceed the following throughput.

1,200,000 barrels per any 12-month consecutive period  
(basis: cumulative increase, offsets, toxic riskscreen)

14) The owner/operator of S-1504 shall not transfer any material other than fuel grade ethanol.

(basis: cumulative increase, offsets, toxic risk screen)

15) To determine compliance with parts 13 and 14, the owner/operator shall maintain the following records and provide all of the data necessary to evaluate compliance with the above conditions, including, but not necessarily limited to, the following information:

a. On a daily basis amount of ethanol transferred.

b. The throughput of material shall be added and recorded in the log for each month and for each rolling consecutive 12-month period.

These records shall be kept on-site for at least 5 years. All records shall be recorded in a District-approved log and made available for inspection by District staff upon request. These recordkeeping requirements shall not replace the recordkeeping requirements contained in any applicable District Regulations.

(basis: Cumulative Increase, Toxic Risk Screen, Offsets, Regulation 1-441, Regulation 1-238, Regulation 8-6-501)

### Condition 22070

S-1005 No. 1 Hydrogen Plant: CO2 Vents #1 & #2:

The owner/operator shall conduct a District approved annual source test at CO2 Vent #1 and CO2 Vent #2 at the S-1005 No. 1 Hydrogen Plant to demonstrate compliance with Regulation 8-2-301 in accordance with District source test methods or other methods approved in advance by the District. At least two weeks prior to testing, Permittee/Owner/Operator shall contact the District's Source Test Section, in writing, to provide notification of the testing procedure, date and time, and to obtain details on source testing requirements. Source test procedures are subject to approval of the APCO. A copy of the test report shall be provided to the Engineering Division, the District Director of Compliance and Enforcement, and the District Source Test Division within 45 days of completion of the test. Records of the source test results and any related correspondence with the District's Source Test Division shall be retained on-site by the owner/operator for a minimum of 5 years from the date of the document.

(Basis: Regulation 2-6-409.2)

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### Condition 22150

Modified by App. 18739 (Nov 2008) Removal of S903 & A8.

Application 19300 (Dec 2008) Remove S-904 Backup CO Boiler Service and A-11

Administratively Revised by Application 19874 (July 2009) Updates for Combustion Sources

Administratively Revised by Application 18261 Title V Renewal. Added Regulation 6-1-311 to Part 2.

For ESP A30 abating CO Boiler S901.

1. In order to ensure compliance with Regulation 6-1-310 and 6-1-311, the owner/operator of A-30 FCCU Electrostatic Precipitator, shall conduct continuous monitoring of ESP opacity monitoring.  
(Basis: Regulation 6-1-310, 6-1-311, 2-6-503)
2. Each time opacity of emissions from A-30 FCCU Electrostatic Precipitator exceeds 30%, except for one 6-minute average opacity reading in any 1-hour period, the owner/operator shall conduct a source test to determine compliance with Regulation 6-1-310 and 6-1-311. Each time the opacity exceeds this range, the owner/operator shall conduct a source test to determine compliance with Regulation 6-1-310. The owner/operator shall conduct the source test within 45 days of detection of the exceedance.  
(Basis: Regulation 6-1-310, 6-1-311, 2-6-503)
3. Deleted. (Exceedance reporting is redundant with Title V Standard Condition I.F)

### Condition 22227

S-823 Heat Exchanger Cleaning Pit North

S-824 Heat Exchanger Cleaning Pit South

1. During heat exchanger tube cleaning at S823 Heat Exchanger Cleaning Pit North and/or S824 Heat Exchanger Cleaning Pit South, the owner/operator shall check hourly for visible emissions. The visible emissions check shall take place while the tube is being cleaned and during daylight hours. If any visible emissions are detected, the operator shall take corrective action within one day, and check for visible emissions after the corrective action is taken. The owner/operator shall continue to check for visible emissions on an hourly basis until the tube cleaning activity is completed. [basis: Regulation 2-6-

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409.2]

2. The owner/operator shall keep records of all visible emissions checks per Part 1 of this condition, the person performing the check, and all corrective action taken. The records shall be retained for five years and shall be made available to District personnel upon request. [basis: Regulation 2-6-409.2]

### Condition 22455

Application #12592 (August, 2005)

Modified by Application 17712 (June, 2008)

Amorco Transfer and Metering Project

Fugitive Components

1. Deleted. The project final fugitive component count was provided June 28, 2007.
2. Deleted. The increase in total fugitive component emissions was offset in July, 2007.
3. Deleted. The Authority to Construct requirement to install BACT compliant valves was satisfied. Fugitive organic emissions less than 100 ppm is required by Regulation 8-18-302.
4. Deleted. The Authority to Construct requirement to install BACT compliant flanges and connectors was satisfied. Fugitive organic emissions less than 100 ppm is required by Regulation 8-18-304.
5. Deleted. The Authority to Construct requirement to install BACT compliant pump seals was satisfied. Fugitive organic emissions less than 500 ppm is required by Regulation 8-18-303.
6. Deleted. The Authority to Construct requirements for Pressure Relief Valves was satisfied.
7. Deleted. The Authority to Construct requirements for fugitive emissions monitoring was satisfied.

S-55 Amorco Wharf Terminal, Crude Oil, Diesel, Gas Oil, Naphtha, Kerosene, Fuel Oils, 70,080,000 bbl/yr

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- S-19 Tank B-19, external floating roof, 3318K gal, Crude Oil, 70,080,000 bbl/yr limit applies to S-19, S-21, S-30, S-49, and S-50 combined
- S-21 Tank B-21, external floating roof, 3276K gal, Crude Oil, Gasoline, 70,080,000 bbl/yr limit applies to S-19, S-21, S-30, S-49, and S-50 combined
- S-30 Tank B-30, external floating roof, 3318K gal, Crude Oil, Gasoline, 70,080,000 bbl/yr limit applies to S-19, S-21, S-30, S-49, and S-50 combined
- S-49 Tank B-49, external floating roof, 5964K gal, Crude Oil, 70,080,000 bbl/yr limit applies to S-19, S-21, S-30, S-49, and S-50 combined
- S-50 Tank B-50, external floating roof, 5922K gas, Crude Oil, 70,080,000 bbl/yr limit applies to S-19, S-21, S-30, S-49, and S-50 combined
8. The owner/operator of S-55 Amorco Wharf Terminal shall not exceed a throughput of 70,080,000 barrels of crude oil per any consecutive 12 month period.  
(basis: cumulative increase, offsets, toxic risk screen)
9. The owner/operator of S-19, S-21, S-30, S-49, and S-50 Tanks shall not exceed a combined throughput of 70,080,000 barrels of crude oil per any consecutive 12 month period.  
(basis: cumulative increase, offsets, toxic risk screen)
10. The owner/operator shall not transfer any material received at the Amorco Wharf directly to another refinery via pipeline.  
(basis: cumulative increase)
11. The owner/operator shall not ship crude from the Amorco Wharf.  
(basis: cumulative increase)
12. The owner/operator shall maintain records, in a District approved log, for
- The date(s) and times at which the tank vessel arrived and departed from the marine terminal.
  - The type and amount of organic liquid cargo unloaded.
- All records shall be retained for a period of at least five years from the date of entry. This log shall be kept on site and made available to District staff upon request.  
(basis: cumulative increase, recordkeeping, Regulation 1-441)

### Condition 22590

Application 13076 (October 18, 2005): Addition of natural gas pilots.

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Application 19300 (Dec 2008) Remove S-904 Backup CO Boiler Service

Application 23194 (August 2011) S-904 Burner Replacement Alteration (added clarifying language regarding firing limits and corrected bases of Part 1 and Part 2)

Application 23194 Authority to Construct cancelled March 3013.

S-904 No. 6 Boiler, 775 MMBtu/hr: installation of 12 natural gas pilots with a combined maximum firing rate of 54 MMBtu/hr; MAXIMUM firing rate of burners and pilots limited to 775 MMBtu/hr

1. The owner/operator shall equip the natural gas line to the pilots with a dedicated fuel flow meter.  
(Basis: Monitoring)
2. The owner/operator shall ensure that S-904 Boiler is not fired above its maximum firing rate of 775 MMBtu/hr (HHV) at any time. The total amount of fuel burned at S- 904 at the natural gas pilots and the burners shall not exceed 775 MMBtu/hr.  
(Basis: Application 13076 alteration)
3. Deleted. (Redundant with Regulation 9-10-504.1)

### Condition 22621

Application #13047 (November, 2005): Installation of low NOx burners, change fuel gas supply from 40 psig to 100 psig fuel gas.

S-913 No. 2 Feed Prep Heater (F13), 59 MMBtu/hr fired on Refinery Fuel Gas and Natural Gas

Application 18861/18862 (2008) Remove completed and redundant fugitive conditions

Administratively Revised by Application 19874 (July 2009) Updates for Combustion Sources

Fugitive Components

1. Completed. Final fugitive count for the project submitted 3/28/2006 and offsets were provided.

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2. Completed. Final fugitive count for the project submitted 3/28/2006 and offsets were provided.
3. Deleted. ATC construction requirement completed.
4. Deleted. ATC construction requirement completed.
5. Deleted. ATC construction requirement completed. Redundant with Regulation 8-28.
6. Deleted. Redundant with Regulation 8-18. Components were incorporated into facility LDAR program on project startup.
7. Once each day, while 100 pound fuel gas is fired at S-913, except for 36 calendar days per rolling consecutive 12-month period, and except for each calendar day when no fuel is fired at S-913, and except for each calendar day that natural gas is fired exclusively at S-913, the owner/operator shall sample the fuel gas to be fired at S-913 directly upstream of the burner fuel gas feed line to S-913. The owner/operator shall ensure that the sample is subjected to laboratory analysis to determine the total reduced sulfur (TRS) content of the sample in ppmvd units. The owner/operator shall ensure that the laboratory analysis method employed is a method that is approved by the District.  
(basis: cumulative increase, offsets, Regulation 2-1-403)
8. Each calendar day, the owner/operator shall maintain records, in a District approved log, for
  - a. Each fuel fired at S-913
  - b. Each calendar day that no fuel is fired at S-913
  - c. Not more than 14 days after the date that a sample of fuel gas is taken pursuant to part 7 of these conditions, the results of each analysis disclosing the TRS content of the Fuel Gas sample, in units of ppmvd, along with the date the sample was taken, the District approved laboratory method used, and the laboratory completing the sample analysis.
  - d. The annual average of the daily fuel gas sample TRS analysis results.All records shall be retained for a period of at least five years from the date of entry. This log shall be kept on site and made available to District staff upon request.  
(basis: cumulative increase, offsets, recordkeeping, Regulation 2-1-403)
9. Deleted. (S-913 NO<sub>x</sub> Box is defined in Condition 18372, Part 31)
10. In order to generate Interchangeable Emission Reduction Credits (IERC's) at S-913, the owner/operator shall:

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- a. Use an emission factor of 0.033 lb/MMBtu for S-913 in the calculation of the refinery-wide emission rate from units affected by Regulation 9-10-301
  - b. Generate IERC's based on the difference between NOx emissions of 0.033 lb/MMBTU and the actual emission factor obtained by source tests from generation of the NOx box (expected to be 0.024 lb/MMBtu by the owner/operator)
  - c. Keep records of the firing rate and oxygen content of S-913 to ensure operation within the established NOx box.
- (basis: Regulation 9-10-301, Regulation 9-10-502, Regulation 2-9)

### Condition 22640

Application 13228 (November 2005)

S-1506 External Floating Roof Tank; Tank A-893, Capacity: 132,000 BBL,  
Storing: Gasoline and Gasoline Blending Stock

S-1507 External Floating Roof Tank; Tank A-894, Capacity: 132,000 BBL,  
Storing: Gasoline and Gasoline Blending Stock

1. The owner/operator shall not exceed a net throughput at each of tanks S-1506 and S-1507 of 11,000,000 barrels in any consecutive 12-month period. (basis: Cumulative Increase, Toxic Risk Screen, BACT)
2. Materials stored in S-1506 and S-1507 shall be limited to the following:
  - a. Gasoline or gasoline blending stock with a true vapor pressure less than 11 psia
  - b. A liquid other than those specified above may be stored in S-1506 and/or S-1507, provided that all of the following criteria are met:
    1. true vapor pressure must be less than 11 psia
    2. POC emissions, based on the maximum throughput in part 1, do not exceed 8,384.42 pounds per year per tank; and
    3. Toxic emissions in lbs/year, based on the maximum throughput in part 1, do not exceed any risk screening trigger level in Regulation 2-5.

(basis: Cumulative Increase, Toxic Risk Screen)
3. Deleted. The owner/operator disclosed the final fitting count March 14, 2008 and additional offsets were provided for the emission increase.  
(basis: Cumulative Increase, Toxic Risk Screen, Offsets)
4. To determine compliance with the above conditions, the owner/operator shall maintain the To determine compliance with the above conditions, the owner/operator shall maintain the following records and provide all of the

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data necessary to evaluate compliance with the above conditions, including, but not necessarily limited to, the following information:

- a. On a monthly basis, type and amount of liquids stored and true vapor pressure ranges of such liquids. These records shall be kept for at least 5 years.
- b. For external floating roof tanks, the owner/operator who replaced all or part of a primary or secondary seal shall keep an accurate record of the length of seal replaced and the date(s) on which replacement occurred. These maintenance records shall be kept for at least 10 years.

All records shall be recorded in a District-approved log and made available for inspection by District staff upon request. These recordkeeping requirements shall not replace the recordkeeping requirements contained in any application District Regulations. (basis: Cumulative Increase, Regulation 1-441, Regulation 8-5-501).

### Condition 22693

Application 13401 (December 2005)

Altered by Application 16082 (July 2007), addition of V-66 Degassing Drum

S-1009 Alkylation Unit: Mitigation of Atmospheric Releases, 2-PRVs on the C-2 DIB column to be vented to the V-104 Flare Knockout Pot with gases vented to the Flare Header (S-854 East Air Flare, S-944 North Steam Flare, S-945 South Steam Flare, S-992 Emergency Flare, and S-1012 West Air Flare). Process wastewater to be degassed by V-66.

1. Deleted. (Final fugitive component count provided September 2008 when S-1009 was granted a Permit to Operate. Facility has been permitted for 28 valves in gas service, 46 valves in light liquid service, 3 PRVs in liquid service, and 171 flanges.)
2. Deleted. (Offsets provided for additional fugitive emissions in October 2008 prior to S-1009 being granted a Permit to Operate. Facility is permitted for a total fugitive POC emissions of 0.110 tons.)
- 3 Deleted. (The Authority to Construct design requirements for valves were verified when S-1009 was granted a Permit to Operate in October 2008.)
4. Deleted. (The Authority to Construct design requirements for flanges/connectors were verified when S-1009 was granted a Permit to Operate in October 2008.)
5. Deleted. (No pumps were installed.)



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6. Deleted. (The Authority to Construct design requirements for Pressure Relief Valves were verified when S-1009 was granted a Permit to Operate in October 2008.)
7. Deleted. (Redundant with Regulation 8-18. Fugitive components associated with this application were incorporated into the facility LDAR program upon startup.)
8. Deleted. (The Authority to Construct design requirements for Pressure Relief Valves on C-2 DIB Column were verified when S-1009 was granted a Permit to Operate in October 2008.)
9. Immediately after the startup of the V-104 System, the 10" tie in line downstream of the two pressure safety valves on the C-2 DIB column shall be blinded.  
(basis: Regulation 8-28-304.2)

### Condition 22851

Application 19419 (June 2009)

Firewater Pumps for Facility B2758: S-1469, S-1471, S-1472, S-1475, S-1476, S-1487, S-1488

1. Operating for reliability-related activities is limited to no more than 34 hours per year per engine which is the number of hours necessary to comply with the testing requirements of the National Fire Protection Association (NFPA) 25. This emergency fire pump is subject to the current National Fire Protection Association (NFPA) 25 - "Standard for the Inspection, Testing and Maintenance of Water-Based Fire Protection Systems." [Basis: "Stationary Diesel Engine ATCM" section 93115, title 17, CA Code of Regulations]
2. The owner or operator shall operate each emergency standby engine only for the following purposes: to mitigate emergency conditions, for emission testing to demonstrate compliance with a District, state or Federal emission limit, or for reliability-related activities (maintenance and other testing, but excluding emission testing). Operating while mitigating emergency conditions or while emission testing to show compliance with District, state or Federal emission limits is not limited. [Basis: "Stationary Diesel Engine ATCM" section 93115, title 17, CA Code of Regulations, subsection (e)(2)(B)(3)]
3. The owner/operator shall operate each emergency standby engine only when a non-resettable totalizing meter (with a minimum display capability of 9,999

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hours) that measures the hours of operation for the engine is installed, operated and properly maintained.

[Basis: "Stationary Diesel Engine ATCM" section 93115, title 17, CA Code of Regulations, subsection (e)(4)(G)(1)]

4. Records: The owner/operator shall maintain the following monthly records in a District-approved log for at least 36 months from the date of entry (60 months if the facility has been issued a Title V Major Facility Review Permit or a Synthetic Minor Operating Permit). Log entries shall be retained on-site, either at a central location or at the engine's location, and made immediately available to the District staff upon request.

- a. Hours of operation for reliability-related activities (maintenance and testing).
- b. Hours of operation for emission testing to show compliance with emission limits.
- c. Hours of operation (emergency).
- d. For each emergency, the nature of the emergency condition.
- e. Fuel usage for each engine(s).

[Basis: "Stationary Diesel Engine ATCM" section 93115, title 17, CA Code of Regulations, subsection (e)(4)(I), (or, Regulation 2-6-501)]

### 5. At School and Near-School Operation:

If the emergency standby engine is located on school grounds or within 500 feet of any school grounds, the following requirements shall apply:

The owner 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.

"School" or "School Grounds" means any public or private school used for the purposes of the education of more than 12 children in kindergarten or any of grades 1 to 12, inclusive, but does not include any private school in which education is primarily conducted in a private home(s). "School" or "School Grounds" includes any building or structure, playground, athletic field, or other areas of school property but does not include unimproved school property.

[Basis: "Stationary Diesel Engine ATCM" section 93115, title 17, CA Code of Regulations, subsection (e)(2)(A)(1)] or (e)(2)(B)(2)]

## Condition 23129

Application 14141/14144 Coker Modification Project

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Modified by Application 16389/16390 and  
Application 18311 (Modify Part 26 – Initial source tests for heaters).

Application 20679/20680 (July 2009) Revise throughput in Part 3  
Application 24065 (July 2012) Revised Part 56 to include purge gas.

The following permit conditions will be imposed to ensure that the proposed project complies with all applicable District, State, and Federal Regulations. The conditions limit operational parameters such as fuel use, stack gas emission concentrations, and mass emission rates. Permit conditions will also specify abatement device operation and performance levels. For compliance assurance purpose, conditions specifying emission monitoring, source testing, and record keeping requirements are included. Furthermore, pollutant mass emission limits (in units of lb./hr) will ensure that daily and annual emission rate limitations are not exceeded.

Compliance with CO and NO<sub>x</sub> limitations will be verified by continuous in-stack emission monitors (CEMs) that will be in operation during all heater operating modes, including start-up and shutdown. Compliance with SO<sub>2</sub> and H<sub>2</sub>S limits will be determined by monitoring the total reduced sulfur (TRS) concentration level in the refinery fuel gas with a TRS analyzer. If natural gas is burned, the sulfur content will be assumed to be the same as natural gas specifications. Compliance with POC and PM<sub>10</sub> mass emission limits will be demonstrated by annual source testing.

### Delayed Coker (S-1510)

1. The owner/operator of source S-1510 shall not exceed Ringelmann No. 1.0, for three minutes in any consecutive 60-minutes period. (basis: Regulation 6-1).
2. The owner/operator of the delayed coker (S-1510) shall wash the pad area surrounding the Coke Pit and dewatering pad (where coke drops from the coker) at least once per day when the coker is operating or when coke is being removed from the coke drums. (basis: cumulative increase)
3. The owner/operator of S-1510 delayed coker shall not process more than 55,000 barrels per day (12 midnight to 12 midnight), and 20, 075,000 barrels in any consecutive 12-month period. (basis: Cumulative increase)
4. The owner/operator of all sources (S-1510 through S-1517, A-1511, A-1512, A-1514, A-1515) shall inspect and maintain all new valves, pumps and flanges/connectors associated with this project according to District Regulation 8-18. (basis: Regulation 8-18)

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5. The owner/operator of all sources (S-1510 through S-1517, A-1511, A-1512, A-1514, A-1515) shall ensure that each new pressure relief valve installed in hydrocarbon service is vented to the refinery fuel gas system or an abatement device with a capture/destruction efficiency of 98 wt% POC, or more, approved for this use in advance by the District. (basis: Regulation 8-28, BACT)
  6. The owner/operator of all sources (S-1510 through S-1517, A-1511, A-1512, A-1514, A-1515) shall ensure that each new process sample system in light liquid service installed is a closed loop, continuous flow design and in no event shall there be any line purging to process drains. (basis: cumulative increase)
  7. Deleted. [Final fugitive component count provided August 1, 2008. The Owner/Operator has been permitted to install fugitive components (992 gas service valves, 535 light liquid service valves, 15 pumps and 3080 connectors) with a total POC emission rate of 2.745 tons/yr for the entire Coker Modification Project.] (basis: cumulative increase, toxics)
  8. To demonstrate compliance with the above conditions, the owner/operator shall maintain the following records in a District-approved log:
    - a. The daily record of the throughput
    - b. The monthly record of the throughput summarized on a consecutive 12-month basisThese records shall be kept on site and made available for District inspection for a period of at least 5 years from the date on which a record is made. (basis: recordkeeping)
- Delayed Coker Heater # 1 and # 2 (S-1511 and S-1512)
9. The owner/operator of source S-1510 shall not exceed Ringlemann No. 1.0, for three minutes in any consecutive 60-minutes period. (basis: Regulation 6-1).
  10. The owner/operator shall burn in sources S-1511 and S-1512 only natural gas or refinery fuel gas. (basis: cumulative increase, BACT)
  11. The owner/operator shall not burn in sources S- 1511 and S-1512 refinery fuel gas having total reduced sulfur (TRS) greater than 100 ppmv, based on 24-hour average and 35 ppmv, based on consecutive 365 day average. (basis: BACT)
  12. Except as described below, the owner/operator of sources S-1511 or S-1512 shall not exceed 7 ppmv NO<sub>x</sub> (calculated as NO<sub>2</sub>) corrected to 3% oxygen dry (based on a three-hour average), and 35 ppmv CO, corrected to 3% oxygen dry (based on a three-hour average). (basis: BACT)
    - a. During startup, shut down and malfunction periods, the owner/operator of source S-1511 or S-1512 shall not exceed 50 ppmv NO<sub>x</sub> (calculated as NO<sub>2</sub>) corrected to 3% oxygen dry (based on a three hour average), and

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400 ppmv CO, corrected to 3% oxygen dry (based on a three hour average). Startup, shutdown or malfunction shall not exceed 144 hours during any consecutive 12-month period. (basis: cumulative increase, offsets)

b. For up to 100 days per consecutive 12 month period, during periods of reduced furnace firing (such as spalling or reduced rates due to unit shutdowns or other reasons) the owner/operator of source S-1511 or S-1512 shall not exceed 50 ppmv CO at 3% O<sub>2</sub> dry (based on a three hour average). (basis: basis: cumulative increase, offsets)

13. The owner/operator shall not exceed 10 ppmv ammonia at 3% O<sub>2</sub> dry at the outlet of A-1511 or A-1512. (basis: cumulative increase, toxics)

14. The owner/operator shall not exceed 2,014,800 MMBtu of refinery fuel gas and natural gas combined at each source (S-1511 or S-1512) in any consecutive 12-month period. (basis: cumulative increase)

15. The owner/operator shall ensure that the total sulfur content in the natural gas shall not exceed 1.0 grain per 100 scf of natural gas. The owner/operator shall use PG&E specification or equivalent pipeline quality natural gas. Compliance will be demonstrated through records that show the specification of natural gas by the supplier. (basis: BACT for SO<sub>2</sub> when firing natural gas)

16. The owner/operator shall ensure that the total sulfur content in the natural gas shall not exceed 1.0 grain per 100 scf of natural gas. The owner/operator shall use PG&E specification or equivalent pipeline quality natural gas. Compliance will be demonstrated through records that show the specification of natural gas by the supplier. (basis: BACT for PM<sub>10</sub> when firing natural gas)

17. The owner/operator of sources S-1511, S-1512, A-1511 and A-1512 shall comply with the requirement of Regulation 2-2-306 for sulfuric acid mist emissions (SAM). (basis: PSD)

18. The owner/operator of S-1511, S-1512, A-1511 and A-1512 shall ensure that the emissions from A-1511 or A-1512 shall not exceed 230 mg/dsm (0.10 gr/dscf or 160 ppmv (dry basis)) of H<sub>2</sub>S average over 3 hours at the inlet of S-1511 or S-1512, or 20 ppmv (dry basis) of SO<sub>2</sub> at the outlet of A-1511 or A-1512 except as allowed by NSPS Subpart J and Subpart A for startup, shutdown, or malfunction. (basis: NSPS 40 CFR 60, Subpart J)

19. When burning refinery fuel gas in S-1511 or S-1512, the owner/operator of S-1511, S-1512, A-1511 and A-1512 shall install a total reduced sulfur (TRS) or SO<sub>2</sub> continuous monitoring and recording system to verify compliance with the requirement of Part 18. The owner/operator shall maintain the equipment in

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accordance with manufacturer's recommendations. (basis: NSPS (40 CFR 60, Subpart J))

20. The owner/operator shall abate Heater #1 and Heater #2 (S-1511 and S-1512) with Selective Catalyst Reduction systems (A-1511 and A-1512), respectively at any time that S-1511 and S-1512 are in operation, except for 144 hours each in any consecutive 12-month period during startup, shutdown and malfunction. (basis: cumulative increase)

21. The owner/operator shall install, calibrate, maintain, and operate a District-approved continuous emission monitoring (CEM) device that continuously measures and records the concentration of nitrogen oxides (calculated as NO<sub>2</sub>), in ppmv units, in the combustion exhaust from A-1511 and A-1512, corrected to 3% oxygen, dry. This CEM device shall be in operation at all times when S-1511 and S-1512 operate except as allowed in the District's Manual of Procedures, which includes maintenance and malfunction. (basis: cumulative increase, BACT, offsets)

22. The owner/operator shall install, calibrate, maintain, and operate a District-approved continuous emission monitoring (CEM) device that continuously measures and records the concentration of carbon monoxide (CO), in ppmv units, in the combustion exhaust from A-1511 and A-1512, corrected to 3% oxygen, dry. This CEM device shall be in operation at all times when S-1511 and S-1512 operate except as allowed in the District's Manual of Procedures, which includes maintenance and malfunction. (basis: cumulative increase, BACT, offsets)

23. The owner/operator shall install, calibrate, maintain, and operate a District-approved continuous emission monitoring (CEM) device that continuously measures and records the concentration of oxygen in the combustion exhaust from A-1511 and A-1512. This CEM device shall be in operation at all times when S-1511 and S-1512 operate except as allowed in the District's Manual of Procedures, which includes maintenance and malfunction. (basis: cumulative increase, BACT, offsets)

24. The owner/operator shall install, operate and maintain a District approved fuel flow meter that measures the volume of fuel throughput to S-1511 and S-1512 in units of standard cubic feet. (basis: cumulative increase)

25. The owner/operator shall install, operate and maintain a District approved calorimeter that measures the heating value when refinery fuel gas is fired at S-1511 and S-1512. (basis: BACT, cumulative increase, offsets, toxics)

26. The owner/operator shall conduct District approved initial source tests on Heaters S-1511 and S-1512 to demonstrate compliance with the NO<sub>x</sub>, CO, TRS, NH<sub>3</sub>, PM<sub>10</sub> and SAM levels in Parts 11, 12, 13, and 17. For purposes of SAM, the

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applicant shall also test for SO<sub>3</sub> and ammonium sulfates. Source tests conducted while firing natural gas shall demonstrate compliance with the NO<sub>x</sub>, CO, NH<sub>3</sub> and PM<sub>10</sub> levels. Source tests conducted while firing refinery fuel gas shall demonstrate compliance with the NO<sub>x</sub>, CO, TRS, NH<sub>3</sub>, PM<sub>10</sub> and SAM levels.

The required source tests are as follows:

- a. Deleted. (The initial source test was completed from August 12 through August 14, 2008)
- b. Deleted. (The initial source test for part a. was at firing rates above 80% of maximum firing)
- c. Heaters S-1511 and S-1512 firing refinery fuel gas only at as-found conditions (within 60 days after the refinery fuel gas is first used). If Heater S-1511 or S-1512 is operating at 80% or more of maximum firing rate during this source test, then the requirements for source test (d) shall have been met for that heater.
- d. Heaters S-1511 and S-1512 firing refinery fuel gas only (within 60 days after 80% or more of maximum firing rate is first reached on refinery fuel gas).

The test results from source test (a) shall be forwarded to the District within 45 days of completion of the field tests, but no later than 150 days of initial startup. Subsequent test results shall be forwarded to the District within 45 days of completion of the field tests. The owner/operator shall notify the District of the following events:

- i. The actual date that each Heater first fires at 80% of maximum firing rate on natural gas within 15 days after such date.
- ii. The actual date that the Heaters first fire refinery fuel gas within 15 days after such date.
- iii. The actual date that each Heater first fires at 80% of maximum firing rate on refinery fuel gas within 15 days after such date.

(basis: compliance demonstration, PSD avoidance)

The owner/operator shall obtain approval for all source test procedures from the District's Source Test Section prior to conducting any tests. The owner/operator shall notify the District's Source Test Section in writing of the source test protocols and projected test dates at least 7 days prior to the testing date(s). As indicated above, the Owner/Operator shall measure the contribution of condensable PM (back half) to the total PM<sub>10</sub> emissions. However, the Owner/Operator may propose alternative measuring techniques to measure condensable PM such as the use of a dilution tunnel or other appropriate method used to capture semi-volatile organic compounds. Source test results shall be submitted to the District within 45 days of conducting the tests except as otherwise required above. (basis: source test compliance verification)

27. The owner/operator shall maintain all records and reports required by this permit in a District-approved log. These records shall be kept on site and made

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available for District inspection for a period of at least 5 years from the date on which a record is made (basis: Regulation 2-6-501)

28. When burning refinery fuel gas in sources S- 1511 and S-1512, the owner/operator shall record the consecutive 3-hour average total reduced sulfur content of the refinery fuel gas. On an annual basis, the owner/operator shall report: (a) the daily fuel consumption, (b) hourly total reduced sulfur content (as averaged over 24 consecutive hours) and (c) annual average reduced sulfur content. The report shall be sent to the District's Director of Compliance and Enforcement, and the Manager of the Permit Evaluation Section no later than 60 days after the end of the calendar year. (basis: BACT, offsets, cumulative increase)

Coker Screen/Crusher (S-1513) and Conveyors & Dewatering Pad

29. The owner/operator of S-1513 shall not exceed 1,277,500 wet tons of coke in any consecutive 12-month period. (basis: cumulative increase, BACT)

30. The owner/operator of S-1513 shall keep the moisture of the coke product to 5% by weight or more. (basis: cumulative increase)

31. The owner/operator of S-1513 shall not exceed Ringelmann No. 1.0, or 20% opacity visible emissions, for three minutes in any consecutive 60 minute period. (basis: Regulation 6-1)

32. The owner/operator shall use a water spray abatement system with chemical suppressant, if necessary, and take other control measures, as necessary, to maintain compliance with Regulation 6-1. (basis: Regulation 6-1, BACT)

33. The owner/operator shall completely enclose all coke conveyors downstream of the crusher and use water sprays to minimize particulate emissions from crushing operations. (basis: BACT)

34. The owner/operator shall inspect S-1513 for visible emissions no less than once per day when the equipment is in operation. If there are visible emissions, the owner/operator shall immediately take corrective action to eliminate the visible emissions. Upon completion of each inspection, in a District approved log, the owner/operator shall record the visible emission observation, and when visible emissions are detected, the corrective action taken to eliminate the visible emissions. During each day that S-1513 is not in operation for the entire day and when there is no petroleum coke stored or processed at S-1513, the owner/operator need not complete this inspection for S-1513. (basis: Regulation 2-1-403, Regulation 2-6-503).



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35. The owner/operator shall use water sprays, as necessary, to minimize particulate emissions from the surfaces of the coke piles on the Coke Dewatering Pad. If particulate emissions from the Coke Dewatering Pad result in 3 or more visible emission violations within a six month period, or two public nuisance violations within a 5 year period, the owner/operator shall install additional controls, as approved by the District, which may include one or more of the following:

- a. Additional water sprays;
- b. Chemical suppressant in water spray system;
- c. Additional/improved enclosures;
- d. Wind screens; or e. Equivalent, as approved by the District.

(basis: BACT)

36. Deleted. (Laboratory analysis completed May 22, 2008. Moisture content was over the 5% by weight limit of Part 30)

37. To demonstrate compliance with the above Parts, the owner/operator shall maintain the monthly records, and the consecutive 12-month summary of coke (wet) produced in a District-approved log. These records shall be kept on site and made available for District inspection for a period of at least 5 years from the date on which a record is made. (basis: recordkeeping)

Coker Silos (S-1514 and S-1515 abated by A-1514 and A-1515, respectively)

38. The owner/operator shall not operate S-1514, S-1515, A-1514, and A-1515 unless the visible particulate emissions from the listed equipment are less than or equal to Ringelmann Number 1.0 except for three minutes in any consecutive 60-minutes period, or result in fallout on adjacent property in such quantities as to cause a public nuisance per Regulation 1- 302. (basis: Regulation 6-1, and Regulation 1)

39. The owner/operator shall not operate S-1514 and S-1515 unless all particulate emissions from the silos are vented to A-1514 and A-1515, respectively. Particulate emissions from A-1514 and A-1515 baghouses shall not exceed 0.01 grains/dscf each. (basis: cumulative increase)

40. The owner/operator shall install, maintain, and operate an approved bag failure warning device such as manometer or equivalent on A-1514 and A-1515. (Basis: Cum Inc)

41. The owner/operator of each abatement device A-1514 or A-1515 shall not exceed 4,200 scfm of exhaust air flow rate without District approval. (basis: cumulative increase)

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42. The owner/operator of S-1514 and S-1515 shall record and keep the following records on site and make the log available for District inspection for a minimum period of 5 years from the date on which a record was made. (basis: cumulative increase)

- a. Total monthly hours of operation, summarized on a consecutive 12-month period.

### Coker Truck Loadout S-1516

43. The owner/operator of S-1516 shall not exceed Ringelmann Number 1.0 for three minutes in any consecutive 60-minute period or result in fallout on adjacent property in such quantities as to cause a public nuisance per Regulation 1-302. (basis: Regulation 6-1, and Regulation 1)

44. The owner/operator of S-1516 shall not exceed 1,277,500 tons of wet coke in any consecutive 12 month period. (basis: cumulative increase, BACT)

45. The owner/operator shall only conduct material truck loading in an enclosed structure that is either equipped with a water spray system to be used as needed to prevent visible dust emissions or vented to permitted air pollution control equipment that is operated during loading activities. The ends of the structure shall have overlapping flaps that reduce the opening to no greater than 11 feet high by 10 feet wide, or other equally effective devices as approved by the APCO. (basis: BACT)

46. The owner/operator shall load the trucks so that the level of coke is not higher than the top of the truck trailer. After loading onto trucks, the coke shall be completely covered with tarpaulin or other similar material, to minimize particulate spillage and entrainment during transit. If a slot-top type cover is used, either the material contained in the trailer is moist material, or a chemical stabilizer is applied to the surface of the material in sufficient amounts and concentration so as to prevent fugitive dust emissions during transport. (basis: BACT)

47. Before leaving the coke loading area, the owner/operator shall pass the trucks through a water wash system to remove coke from the truck and trailer tires, wheels and undercarriage, in order to minimize the tracking of coke onto the roadway. (basis: BACT)

48. The owner/operator shall sweep accumulated mud, dirt, or coke from the coke truck route in the refinery at least once a day except during periods of rain and equipment maintenance, and whenever there is visible accumulation. Dry rotary brushes shall not be used except where preceded or accompanied by sufficient wetting to limit the visible dust emissions. Blower devices shall not be used. (basis: BACT)

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49. In order to demonstrate compliance with the above Parts, the owner/operator of S-1516 shall maintain the daily records, monthly records and the consecutive 12-month summary of coke (wet) loaded into trucks in District approved logs. These records shall be kept on site and made available for District inspection for a minimum period of 5 years from the date on which a record was made. (basis: cumulative increase)

### Flare S-1517

50. The owner/operator of S-1517 shall not exceed Ringelmann Number 1.0 for three minutes in any consecutive 60-minutes period or result in fallout on adjacent property in such quantities as to cause a public nuisance per Regulation 1-302. (basis: Regulation 6-1, and Regulation 1)

51. The owner/operator of S-1517 shall use steam in the flare to minimize smoking. (basis: BACT)

52. The owner/operator of S-1517 shall have a hydrocarbon destruction efficiency of at least 98.5 wt.% POC on a mass basis: (basis: BACT)

53. The owner/operator of S-1517 shall not exceed 1,314,000 standard cubic feet of natural gas for flare pilots in any consecutive 12-month period. (basis: cumulative increase)

54. The owner/operator shall comply with the requirements of 40 CFR 60, Subpart J. (basis: NSPS 40 CFR 60, Subpart J)

55. The owner/operator of S-1517 shall install H<sub>2</sub>S continuous monitoring and recording system to verify compliance with the requirement of Regulation 12-11. The owner/operator shall maintain the equipment in accordance with manufacturer's recommendations. (basis: Regulation 12, Rule 11)

56. The owner/operator of S-1517 shall fire only natural gas at all flare pilots and purge gas. (basis: cumulative increase)

57. The owner/operator shall maintain all records and reports required by this permit in a District-approved log. The following records shall be kept on site and made available for District inspection for a period of at least 5 years from the date on which a record is made. (basis: Regulation 2-6-501)

- a. The continuous H<sub>2</sub>S concentration at source S-1517.
- b. Total daily flow rate of the gas through the flare, summarized in a consecutive 12-month period.

Contemporaneous Emissions reduction credit

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58. Deleted. (Sources S-806, S-808, S-836, S-837, S-838, S-903, S-923, S-924 and S-925 were shutdown and removed from the Owner/Operator's permit via Application 18739.)

### Condition 23258

Conditions for Source S-1038, Benzene Saturation Unit

Application #14894 (2006), BSU Throughput Increase , Plant # 14628 – Tesoro Refinery.

1. The Owner/Operator shall ensure that the Benzene Saturation Unit (S-1038) does not process more than 5,475,000 barrels of feed at S-1038 during any 12 consecutive month period. (basis: cumulative increase)
2. Deleted. Redundant with Regulation 8-18. Components were incorporated into the facility LDAR program on project startup.
3. Deleted. The Owner/Operator submitted a final component count and has been permitted to install fugitive components (24 valves, 19 flanges/connectors, 0 pumps, 0 PSD, 0 compressor) with a total POC emission rate of 40.6 lb/yr.
4. Deleted. Redundant with Regulation 8-28. All pressure relief valves have been tied into a closed system so there are no leaks to atmosphere.
5. The Owner/Operator shall maintain a District- approved file containing all measurements, and other data required to demonstrate compliance with the above conditions. This file shall include, but is not limited to, the daily throughput of feed processed by S-1038 summarized on a monthly basis. This material shall be kept available for District inspection for a period of at least 5 years following the date on which such measurements, records or data are made or recorded. (basis: cumulative increase)

### Condition 23263

Conditions for Source S-896, External Floating Roof Tank A-896  
Application #14919,  
Plant # 14628 - Tesoro Refinery.  
Modified by Application 16822, March 2008

1. The owner/operator of S-896 shall not exceed 2,500,000 barrels of materials, including Gasoline, Heavy Straight Run Naphtha, Jet Naphtha, Reformate,

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General Refinery Oils, and Slop Oils, during any consecutive twelve-month period. (Basis: Cumulative Increase)

2. The owner/operator may store alternate liquid(s) other than the materials specified in Part 1 and/or usages in excess of those specified in Part 1, provided that the owner/operator can demonstrate that all of the following are satisfied:
- Total POC emissions from S-896 do not exceed 4,943 pounds in any consecutive twelve month period; and
  - The use of these materials does not increase toxic emissions above any risk screening trigger level of Table 2-5-1 in Regulation 2-5.
- (Basis: Cumulative Increase, Toxics, Offsets)

3. To determine compliance with the above parts, the owner/operator shall maintain the following records and provide all of the data necessary to evaluate compliance with the

above parts, including the following information:

- Quantities of each type of liquid stored at this source on a monthly basis.
- If a material other than those specified in Part 1 is stored, POC/NPOC and toxic component contents of each material used; and mass emission calculations to demonstrate compliance with Part 2, on a monthly basis;
- Monthly throughput and/or emission calculations shall be totaled for each consecutive twelve-month period.

All records shall be retained on-site for five years, from the date of entry, and made available for inspection by District staff upon request. These recordkeeping requirements shall not replace the recordkeeping requirements contained in any applicable District Regulations.

(Basis: Cumulative Increase; Toxics)

4. The owner/operator of S-896 shall equip the source with a liquid mounted primary seal and a zero-gap secondary seal. There shall be no ungasketed roof fittings. Except for roof legs, each roof fitting shall be of the design, which yields the minimum roof fitting losses (per EPA Compilation of Air Pollution Emission Factors, AP-42, Supplement E, Section 12.3.2, Table 12.3-11). The following list indicates the type of control required for a variety of typical roof fittings. Control techniques for roof fittings not included in this list shall be subject to District approval, prior to installing the roof on the tank.

Fitting Type:	Control Technique
Access hatch:	Bolted cover, gasketed
Guide pole/well:	Unslotted guide pole, gasketed sliding cover; or slotted with controls per API 2517 Addendum (See Note 1)
Gauge float well:	Bolted cover, gasketed
Gauge hatch/sample well:	Weighted mechanical actuation, gasketed
Vacuum breaker:	Weighted mechanical actuation, gasketed
Roof drain:	Roof drain does not drain water into product
Roof leg:	Fixed; or adjustable with vapor seal boot, or gasket between roof leg and leg sleeve

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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 District approved equivalent
- d. Float with float wiper approximately 1 inch above the sliding cover, or alternately a float with multiple wipers (Basis: BACT)

NOTE 2: This part 4 Authority to Construct design condition will be deleted once the tank design is confirmed to comply with BACT.:

### Condition 23486

Application 15429 (April, 2007).

Revised by Application 19326 (February, 2009)

S-1508 Tank A906 and S-1509 Tank A907, Avon Wharf Slop Oil Tanks: Each tank: 4' W X 12' L X 3.5', 1,250 gallon capacity

1) The total combined net throughput of S-1508 Tank A906 and S-1509 Tank A907 shall not exceed 1,689,000 barrels in any consecutive 12-month period. The owner/operator shall use a radar-monitoring device to measure the height of the tank. The owner/operator shall use the change in height of liquid in the tank to calculate throughput. (basis: Cumulative Increase)

2) Materials collected in S-1508 and S-1509 shall be limited to the following:  
a. Water runoff, slop oil, or recovered oil with a true vapor pressure less than 11 psia

b. A liquid other than those specified above may be collected in S-1508 and S-1509, provided that both of the following criteria are met:

1. true vapor pressure must be less than 11 psia
2. toxic emissions in lbs/year, based on the maximum throughput in part 1, do not exceed any risk screening trigger level.

(basis: Cumulative Increase)

3) Deleted. (Final project fugitive component count provided July 11, 2007. Final count did not cause fugitive emissions to exceed the emissions estimated in the project application.)

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4) To determine compliance with the above conditions, the owner/operator shall maintain the following records and provide all of the data necessary to evaluate compliance with the above conditions, including, but not necessarily limited to, the following information:

- a. On a monthly basis, type and amount of liquids collected and true vapor pressure ranges of such liquids. These records shall be kept for at least 5 years.

All records shall be recorded in a District-approved log and made available for inspection by District staff upon request. These recordkeeping requirements shall not replace the recordkeeping requirements contained in any applicable District Regulations. (basis: Cumulative Increase, Regulation 1-441)

### Condition 23562

Application 15949 (May 2007): Add EPA Consent Decree requirements (Case No. SA-05-CA-0569-RF: United States of America v. Valero Refining Company – California, et. al.).

Modified by App. 18739 (Nov 2008) Removal of S923, S924 & S925

Application 17928/17458 (2008) Remove Demolished and OOS Sources

Application 19300 (December 2008) Remove S904 Backup CO Boiler Service

Administratively Revised by Application 19874 (July 2009) Updates for Combustion Sources

- S902 FCCU Startup Heater
- S904 No. 6 Boiler
- S913 No. 2 Feed Prep Heater (F13)
- S915 Platformer Intermediate Heater (F15)
- S916 No. 1 HDS Heater (F16)
- S920 No. 2 HDS Charge Heater (F20)
- S921 No. 2 HDS Charge Heater (F21)
- S922 No. 5 Gas Debutanizer Reboiler
- S926 No. 2 Reformer Splitter Reboiler (F26)
- S927 No. 2 Reformer Heat/Reheating (F27)
- S928 HDN Reactor A Heater (F28)
- S929 HDN Reactor B Heater (F29)
- S930 HDN Reactor C Heater (F30)
- S931 Hydrocracker Reactor 1 Heater (F31)
- S932 Hydrocracker Reactor 2 Heater (F32)
- S933 Hydrocracker Reactor 3 Heater (F33)
- S934 Hydrocracker Stabilizer Reboiler (F34)
- S935 Hydrocracker Splitter Reboiler (F35)

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S937 Hydrogen Plant Heater (F37)  
S950 50 Unit Crude Heater (F50)  
S1412 Sulfuric Acid Plant Startup Heater

Effective 12/31/2010

S908 No. 3 Crude Heater (F8)  
S909 No. 1 Feed Prep Heater (F9)  
S912 No. 1 Feed Prep Heater (F12)

1. The heaters and boilers listed above shall be “affected facilities” under 40 CFR 60 Subpart J as fuel gas combustion devices. Except as allowed in this permit condition, the owner/operator shall comply with all applicable provisions of 40 CFR 60 Subparts A and J for these fuel gas combustion devices, except during periods of startup, shutdown, or malfunction of the affected facilities or the malfunction of the associated control equipment, if any, provided that during startup, shutdown, or malfunction, the owner/operator shall, to the extent practicable, maintain and operate the affected facilities including associated air pollution control equipment in a manner consistent with good air pollution control practices for minimizing emissions. (Basis: NSPS Subparts A and J, EPA Consent Decree paragraphs 12, 117, 118, 122.)
2. The owner/operator is exempt from notification requirements in accordance with 40 CFR Part 60, Subparts A and J, including without limitation 40 CFR 60.7, with respect to the provisions of 40 CFR, Subparts A and J, as such requirements apply to the fuel gas combustion devices listed in this permit condition. (Basis: EPA Consent Decree paragraph 120.)
3. The owner/operator shall use either continuous emissions monitoring systems (CEMS) or an approved alternative monitoring plan (AMP) to demonstrate compliance with the NSPS Subpart J emission limits for the fuel gas combustion devices listed in this permit condition. (Basis: NSPS Subparts A and J, EPA Consent Decree paragraph 121)
4. The owner/operator shall conduct the accuracy tests listed below on the CEMS used to comply with Part 3 unless that CEMS is otherwise subject to the requirements of NSPS Subparts A and J. These accuracy tests are allowed in lieu of the requirements of Part 60, Appendix F 5.1.1, 5.1.3 and 5.1.4.
  - a. Conduct either a RAA or a RATA on each CEMS at least once every three years.
  - b. Conduct a CGA on each CEMS each calendar quarter during which a RAA or a RATA is not performed.



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- c. Conduct a FAT, as defined in BAAQMD regulations or procedures, if desired, in lieu of any required RAA or CGA. (Basis: EPA Consent Decree paragraph 121.)

### Condition 23739

Application # 16125

Source S-1521 External Floating Roof Tank A-904

1. Gasoline and Gasoline Blend Stock The total net throughput at Tank 904 (S-1521) shall not exceed 10,000,000 barrels of gasoline and gasoline blendstocks in any consecutive 12-month period. (Basis: Cumulative Increase, Toxics)
2. Only materials with a true vapor pressure less than 7.3 psia shall be stored in S-1521. (Basis: Cumulative Increase, Toxics)
3. In order to demonstrate compliance with the above conditions, the Permittee/Owner/Operator of tank S-1521 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 five years from the date that the record was made.
  - a. Identification of all materials stored and the dates that the materials were stored.
  - b. True Vapor Pressure of each material stored.
  - c. The total daily throughput of each material stored, summarized on a monthly basis.
  - d. The rolling 12-month throughput for all materials stored in S-1521. (basis: cumulative increase, toxics)

### Condition 23811

Application 14917, September 2006.

Modified by Application 16495, November 2007.

Modified by Application 19330, February 2009.

Modified by Application 21713, May 2010

Modified by Application 22152, October 2010 Modified by Application 25942, February 2014. Added S-1557.

Plant 14628 (B2758) Emergency Diesel Engines S-1518, S-1519 and S-1557

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Plant 14629 (B2759) Emergency Diesel Engines S-56 and S-57

Plant 14628 (B2758) Emergency Diesel Engine S-1522

Plant 14629 (B2759) Emergency Diesel Engine S-58

1. Operating for reliability-related activities is limited to 50 hours per year per engine.

[Basis: "Stationary Diesel Engine ATCM", CA Code of Regulations, Title 17, Section 93115.6(b)(3)(A)2b and 93115.6(a)(3)(A)1c]

2. The owner or operator shall operate each emergency standby engine only for the following purposes: to mitigate emergency conditions, for emission testing to demonstrate compliance with a District, state or Federal emission limit, or for reliability-related activities (maintenance and other testing, but excluding emission testing). Operating hours while mitigating emergency conditions or while emission testing to show compliance with District, state or Federal emission limits is not limited.

[Basis: Regulation 9-8-330, "Stationary Diesel Engine ATCM", CA Code of Regulations, Title 17, Section 93115.4(29)]

3. The owner/operator shall operate each emergency standby engine only when a non-resettable totalizing meter (with a minimum display capability of 9,999 hours) that measures the hours of operation for the engine is installed, operated and properly maintained.

[Basis: Regulation 9-8-530, "Stationary Diesel Engine ATCM", CA Code of Regulations, Title 17, Section 93115.10(d)(1)]

4. Records: The owner/operator shall maintain the following monthly records in a District-approved log for at least 60 months from the date of entry. Log entries shall be retained on-site, either at a central location or at the engine's location, and made immediately available to the District staff upon request.
  - a. Hours of operation for reliability-related activities (maintenance and testing).
  - b. Hours of operation for emission testing to show compliance with emission limits.
  - c. Hours of operation (emergency).
  - d. For each emergency, the nature of the emergency condition.
  - e. Fuel usage for each engine(s).

[Basis: Regulation 9-8-530, 2-6-501, and "Stationary Diesel Engine ATCM", CA Code of Regulations, Title 17, Section 93115.10(f)]

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### Condition 24171

Application 18835/18832 (2008) New Gasoline Station  
Conditions for S1525 Vehicle gasoline dispensing, Plant # 14628

1. The Phase 1 equipment shall be installed in accordance with California Air Resources Board (CARB) Executive Order G-70-97A and G-70-102. The nominal inside diameter of the vapor side of the two-pont system shall be no less than three inches anywhere between the storage tank and the vapor poppet.
2. The tank and the Phase II vapor recovery equipment shall be installed in accordance with CARB Executive Order G-70-194 and G-70-52AM.
3. Within ten (10) days of start-up, a Leak Test on all new and/or modified tank systems shall be performed in accordance with the District's Manual of Procedures Source Test Procedure ST-38. If the tank size is 500 gallons or less, the test shall be performed on an empty tank.
4. The applicant shall notify Source Test by email at [gdfnotice@baaqmd.gov](mailto:gdfnotice@baaqmd.gov) or by FAX at (510) 758-3087, at least 48 hours prior to any testing required for permitting. Test results for all performance tests shall be submitted in a District-approved format within thirty days of testing. Start-up tests results submitted to the District must include the application number and the GDF number. (For annual test results submitted to the District, enter "Annual" in lieu of the application number.) Test results may be submitted by email ([gdfresults@baaqmd.gov](mailto:gdfresults@baaqmd.gov)), FAX (510) 758-3087 or mail (BAAQMD Source Test Section, Attention Hiroshi Doi, 939 Ellis Street, San Francisco, CA 94109).

### Condition 24172

Application 18835/18832 (2008) New Gasoline Station  
Conditions for S1525 Vehicle gasoline dispensing, Plant # 14628

Pursuant to BAAQMD Toxic Section policy, this facility's annual gasoline throughput shall not exceed 440,000 gallons in any consecutive 12 month period. (basis: District Toxic Risk Management Policy)

### Condition 24321

Application 18949, May 2009

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Flaring Prevention Measure  
Hydrocracker Stage 1 Stripper Overhead Reroute to No 5 Gas Plant  
S1007 Hydrocracker Unit  
S1005 No 1 Hydrogen Plant  
S1526 No 5 Gas Plant

1. The Owner/Operator shall operate S-1005 only when the hydrogen production does not exceed 93 MMSCF for each day or 31,025 MMSCF for each year. (Basis: Cumulative Increase)
2. The Owner/Operator shall maintain daily hydrogen productions records for S1005 to demonstrate compliance with Part 1 above. (Basis: Recordkeeping)

### Condition 24323

Application 18752 (May 2009)  
No. 50 Crude Unit Blowdown Tower S-834 Replacement Project

Administratively revised by Application 22148 (Sept 2010)  
Revised purge and pilot gas Parts 8 and 10.

Application 24065 (July 2012) Deleted Part 4 and revised Part 10.

S-1001 No. 50 Crude Unit  
A-1524 No. 50 Crude Unit Vapor Recovery System  
S-1524 No. 50 Crude Unit Flare

1. Notwithstanding any provision of District regulations allowing for the malfunction of A-1524 due to a valid breakdown, the Owner/Operator shall operate S-1001 50 Crude Unit only when A-1524 Vapor Recovery System is in operation. (Basis: Cumulative Increase, Consent Decree §235(a))
2. The Owner/Operator shall only operate S-1524 50 Crude Unit Flare during upsets, malfunctions or emergencies. (Basis: BACT, Cumulative Increase)
3. The Owner/Operator of S-1524 50 Crude Unit Flare shall comply with all applicable requirements of NSPS Subpart J. (Basis: NSPS)
4. Deleted. (40 CFR 60.18 is not applicable to S-1524)
5. Deleted. (FMP Update submitted July 31, 2009.)

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6. The owner/operator of S-1524 shall use steam assisted, staged combustion in the flare to minimize smoking. (Basis: BACT)
7. The owner/operator of S-1524 shall have a hydrocarbon destruction efficiency of at least 98% POC on a mass basis: (basis: BACT)
8. The owner/operator of S-1524 shall not exceed 3,942,000 standard cubic feet of natural gas for flare pilots in any consecutive 12-month period. The owner/operator shall fire only natural gas at all flare pilots, except during periods of natural gas curtailment, when refinery fuel gas may be used. (Basis: cumulative increase)
9. The owner/operator of S-1524 shall install H<sub>2</sub>S continuous vent gas monitoring and recording system to verify compliance with the requirement of Regulation 12-11. The monitoring system shall be designed and operated such that gas samples are taken at a location that ensures accurate vent gas composition. The owner/operator shall maintain the equipment in accordance with manufacturer's recommendations. (Basis: Regulation 12-11-501 and 12-11-506)
10. The owner/operator of S-1524 shall not exceed 3,767,000 standard cubic feet of natural gas for the flare purge in any consecutive 12-month period. The Owner/operator shall use only natural gas or nitrogen for the flare purge gas, except during periods of natural gas curtailment, when refinery fuel gas may be used. (Basis: cumulative increase)
11. The owner/operator shall maintain all records and reports required by this permit in a District-approved log. The following records shall be kept on site and made available for District inspection for a period of at least 5 years from the date on which a record is made. (basis: Regulation 2-6-501)
  - a. The continuous vent gas H<sub>2</sub>S concentration at source S-1524.
  - b. Total daily flow rate of the gas through the flare, summarized in a consecutive 12-month period.
  - c. Total daily flow rate of the pilot gas to the flare, summarized in a consecutive 12-month period
  - d. Total daily flow rate of the purge gas through the flare, including the type of gas and the reason natural gas was not used, when applicable, summarized in a consecutive 12-month period

### Condition 24324

Application 17752, July 2009  
Consent Decree Requirements for  
S-854 East Air Flare

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S-992 Emergency Flare  
S-1012 West Air Flare  
S-1517 Coker Flare

Note: The 'Consent Decree' referenced in this condition is:  
Case No. SA-05-CA-0569-RF; United States of America v. Valero Refining Company – California, et al in the United States District Court, Western District of Texas, San Antonio Division, Lodged 6/15/2005, Entered 11/23/2005.

1. The Owner/Operator shall operate Flares S-854, S-992, S-1012 and S1517 only when in compliance with NSPS. (Basis: Consent Decree paragraphs 231 and 238).
2. The Owner/Operator of Flares S-854, S-992, S-1012 and S1517 shall comply with NSPS Subpart J by operating and maintaining a Flare Gas Recovery System to control continuous or routine combustion in the Flaring Device. Use of a flare gas recovery system on a flare obviates the need to continuously monitor and maintain records of hydrogen sulfide in the gas as otherwise required by 40 C.F.R. 60.105(a)(4) and 60.7 (Basis: Consent Decree paragraphs 233 and 235(a))
3. The Owner/Operator of Flares S-854, S-992, S-1012 and S1517 will take all reasonable measures to minimize emissions while periodic maintenance is being performed on the Flare Gas Recovery System. (Basis: Consent Decree paragraph 263)
4. The Owner/Operator of Flares S-854, S-992, S-1012 and S1517 may bypass the Flare Gas Recovery System in the event of an emergency, including unscheduled maintenance of such system in order to ensure continued safe operation of refinery processes. (Basis: Consent Decree paragraph 264)
5. The combustion in a Flaring Device of process upset gases or fuel gas that is released to the Flaring Device as a result of relief valve leakage or other emergency malfunctions is exempt from the requirement to comply with 40 C.F.R. 60.104(a)(1). (Basis: Consent Decree paragraph 241)

### Condition 24491

Application 20977 (November 2009)  
Modified by Application 22169 (September 2010). Added S-1553 and deleted Part 3.

S-1550 Backup Steam Boiler #1, 99 MM Btu/hr, Natural Gas Fired,  
Abated by A-1550 SCR

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S-1551 Backup Steam Boiler #2, 99 MM Btu/hr, Natural Gas Fired,  
Abated by A-1551 SCR  
S-1553 Backup Steam Boiler #3, 99 MM Btu/hr, Natural Gas Fired,  
Abated by A-1553 SCR

1. The owner/operator shall ensure that S-1550, S-1551 and S-1553 are fired exclusively on natural gas at a rate not to exceed 99 MMBtu/hr each. (Basis: Cumulative Increase, Offsets, Toxics, NSPS, BACT)
2. The owner/operator shall ensure that S-1550, S-1551 and S-1553 are on site at the refinery for no more than 6 consecutive months per 12 consecutive month period. The 6-month period for each boiler begins upon the initial firing of the boiler. (Basis: BACT)
3. Deleted. (Application 22169)
4. Except for a time period not to exceed 24 hours per boiler startup or shutdown, the owner/operator shall ensure that S-1550, S-1551 and S-1553 are only operated when abated by SCRs A-1550, A-1551 and A-1553, respectively. The total cumulative hours that all three boilers can be operated without SCR abatement shall not exceed 192 hours per consecutive 12-month period. (Basis: Cumulative Increase, Offsets, Toxics)
5. The owner/operator shall ensure that S-1550, S-1551 and S-1553 are not operated unless they are each equipped with a District approved, fuel flow meter that measures the total volume of fuel throughput to S-1550, S-1551 and S-1553 in units of standard cubic feet. (Basis: Cumulative Increase, Offsets, Toxics)
6. The owner/operator shall ensure that the total fuel fired in S-1550, S-1551 and S-1553 shall not exceed 4,277,000 therms in any 12 consecutive month period. (Basis: Cumulative Increase, Offsets, Toxics)
7. Except for periods of startup and shutdown as allowed in Part 4, the owner operator shall not operate S-1550, S-1551 or S-1553 unless NO<sub>x</sub> emissions are less than 7 ppmv, dry, @ 3% O<sub>2</sub>. (Basis: Cumulative Increase, Offsets, BACT)
8. During for periods of startup and shutdown as allowed in Part 4, the owner operator shall not operate S-1550, S-1551 or S-1553 unless NO<sub>x</sub> emissions are less than 30 ppmv, dry, @ 3% O<sub>2</sub>. (Basis: Cumulative Increase, Offsets)
9. The owner operator shall not operate S-1550, S-1551 or S-1553 unless CO emissions are less than 50 ppmv, dry, @ 3% O<sub>2</sub>. (Basis: Cumulative Increase,

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Offsets, BACT)

10. Within 10 days of the first fire date, the owner/operator shall conduct a District approved source test of each S-1550, S-1551 and S-1553. The District approved source test shall measure the emission rates of NOx, POC, SO<sub>2</sub>, and PM<sub>10</sub>, from S-1550, S-1551 and S-1553 while it is operated at not less than 80 MMBtu/hr. The owner/operator shall ensure that within 45 days of the date of completion of the source testing, two identical copies of the source tests results (each referencing permit application #20977, #22169 and plant #14628) are received by the District. One copy shall be sent to Source Testing and the other shall be sent to the Engineering Division. This District approved source test shall be repeated within 5 days of each subsequent boiler startup (or any operation without SCR abatement) during the 6-month period of boiler operation. (Basis: Cumulative Increase, Offsets, BACT)
11. In a District approved log, the owner/operator shall record the manufacturer, make, model, and maximum rated firing rate of each boiler used as S-1550, S-1551 and S-1553, and the following information for each calendar day that either S-1550, S-1551 or S-1553 fires fuel. The District approved log(s) shall be retained by the owner/operator on site for at least 5 years from the date of the last entry and made available to District staff upon request. (Basis: Cumulative Increase, Offsets, Toxics, BACT)
  - a. The date and hours that each S-1550, S-1551 and S-1553 fire fuel.
  - b. The amount of fuel fired at each S-1550, S-1551 and S-1553.
  - c. The hours that each S-1550, S-1551 and S-1553 operate without abatement by a fully functioning SCR.
  - d. The amount of steam produced at each boiler S-1550, S-1551 and S-1553.

### Condition 24649

Application # 20968  
Source S-1549 Horizontal Fixed Roof Tank Diesel Additive

1. The owner/operator of S-1549 shall not exceed the following throughput limits during any consecutive twelve-month period:

Innospec OLI-9085.x : 40,000 Gallons

(Basis: Cumulative Increase)

2. To determine compliance with the above part, the owner/operator shall maintain the following records and provide all of the data necessary to evaluate compliance with the above parts, including the following information:



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- a. Quantities of liquid stored at this source on a monthly basis.
- b. Monthly throughput shall be totaled for each consecutive twelve-month period. All records shall be retained on-site for five years, from the date of entry, and made available for inspection by District staff upon request. These recordkeeping requirements shall not replace the recordkeeping requirements contained in any applicable District Regulations.  
(Basis: Cumulative Increase; Toxics)

### Condition 24724

Conditions for Source S-690, External Floating Roof  
Tank A-690  
Application #11737 (March 2005)  
Modified by Application 11737 (August 2010)

Plant # 14628 - Tesoro Refinery.

1. The owner/operator of S-690 shall not exceed 18,250,000 barrels of Crude Oil with a TVP not to exceed 11 psia in any consecutive twelve-month period.  
(Basis: Cumulative Increase)
2. The owner/operator may store alternate liquid(s) other than the material specified in Part 1 and/or usages in excess of that specified in Part 1, provided that the owner/operator can demonstrate that all of the following are satisfied:
  - a. Total POC emissions from S-690 do not exceed 9,078 pounds in any consecutive twelve month period; and
  - b. The use of these materials does not increase toxic emissions above any risk screening trigger level of Table 2-5-1 in Regulation 2-5.  
(Basis: Cumulative Increase, Toxics, Offsets)
3. To determine compliance with the above parts, the owner/operator shall maintain the following records and provide all of the data necessary to evaluate compliance with the above parts, including the following information:
  - a. Quantities of Crude Oil stored at this source on a monthly basis.
  - b. If a material other than Crude Oil specified in Part 1 is stored, POC/NPOC and toxic component contents of each material used; and mass emission calculations to demonstrate compliance with Part 2, on a monthly basis;
  - c. Monthly throughput and/or emission calculations shall be totaled for each consecutive twelve-month period.

All records shall be retained on-site for five years, from the date of entry, and made available for inspection by District staff upon request. These recordkeeping requirements shall not replace the recordkeeping requirements

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contained in any applicable District Regulations. (Basis: Cumulative Increase; Toxics)

4. Completed. S-690 was constructed in accordance with BACT.

### Condition 24834

Application 22615  
Hot Naphtha Feed to S-1020 No 3 Reformer Project  
January 2011

1. Deleted. (S-1020 throughput limit superseded by Condition 25476, Part 1)
2. Deleted. Final fugitive component count provided 5/3/2012. Facility is permitted to emit 0.245 lb/day of POC emissions from the fugitive components associated with the Reformer Hot Feed Project.
3. Permittee/Owner/Operator shall maintain a District- approved file containing all measurements, and other data required to demonstrate compliance with the above conditions. This material shall be kept available for District inspection for a period of at least 5 years following the date on which such measurements, records or data are made or recorded. (basis: cumulative increase, recordkeeping)

### Condition 25025

Application # 22823  
Source S-1554 Fixed Roof Tank A-943  
Abated by A-14 Vapor Recovery System  
High Sulfur Vacuum Gas Oil  
Including operation when S-850 No 3 HDS is start-up and shutdown

1. The owner/operator of S-1554 shall not exceed the following throughput and operation limits during any consecutive twelve-month period:  
High Sulfur Vacuum Gas Oil, TVP not to exceed 0.235 psia: 420,000,000 Gallons Including for periods of up to 200 hours per consecutive 12-month period:  
Unstripped High Sulfur Vacuum Gas Oil, TVP not to exceed 4.65 psia  
(Basis: Cumulative Increase)

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2. The owner/operator may store alternate liquid(s) other than the materials specified in Part 1 and/or usages in excess of those specified in Part 1, provided that the owner/operator can demonstrate that all of the following are satisfied:
  - a. Total POC emissions from S-1554 do not exceed 386 pounds in any consecutive twelve-month period;
  - b. Total NPOC emissions from S-1554 do not exceed 0 pounds in any consecutive twelve month period; and
  - c. The use of these materials does not increase toxic emissions above any risk screening trigger level of Table 2-5-1 in Regulation 2-5.

(Basis: Cumulative Increase; Toxics)

3. When the owner/operator stores materials with a true vapor pressure above 0.235 psia in S-1554, S-1554 shall be abated at all times with A-14, Vapor Recovery System, with an overall collection and destruction efficiency of at least 99.5%, by weight (basis: Cumulative Increase, Toxics)
4. Deleted. Final fugitive count provided 12/9/2011. Facility is permitted to emit 0.414 tons/yr POC from the S-1554 Tank A-943 HSVGO Project. (basis: Cumulative Increase, offsets)
5. Completed. Final fugitive count provided 12/9/2011 and additional offsets were provided. (basis: offsets)
6. Completed. Fugitive components installed as part of the S-1554 project were added into the facility fugitive equipment monitoring and repair program. (basis: Regulation 8-18)
7. To determine compliance with the above parts, the owner/operator shall maintain the following records and provide all of the data necessary to evaluate compliance with the above parts, including the following information:
  - a. Quantities and True Vapor Pressure of each type of liquid stored at this source on a monthly basis.
  - b. If a material other than those specified in Part 1 is stored, POC/NPOC and toxic component contents of each material used; and mass emission calculations to demonstrate compliance with Part 2, on a monthly basis;
  - c. Monthly throughput and/or emission calculations shall be totaled for each consecutive twelve-month period.

All records shall be retained on-site for five years, from the date of entry, and made available for inspection by District staff upon request. These

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recordkeeping requirements shall not replace the recordkeeping requirements contained in any applicable District Regulations. (Basis: Cumulative Increase; Toxics)

### Condition 25161

Tesoro 50 Crude Unit AGO Project  
Application 23341 (January 2012)  
Revised by Application 23322 (Sept 2015). Deleted S-920.

1. The owner/operator shall operate the following sources only if firing rates do not exceed the following limits in any consecutive 365 calendar days:

S-909	1,036,600 MM Btu
S-912	1,162,608 MM Btu
S-950	3,417,495 MM Btu

(Basis: Regulations 2-1-233 and 2-1-403, Application No. 23341)

2. The owner/operator shall notify the District if in any calendar day, the following firing rates are exceeded:

S-909	3,168 MM Btu
S-912	3,240 MM Btu
S-950	9,840 MM Btu

Notifications shall be made in writing to the address below within 96 hours of the occurrence and shall make reference to this condition.

Manager, Permit Evaluation Section  
Bay Area Air Quality Management District  
939 Ellis Street  
San Francisco, CA 94109

(Basis: Regulations 2-1-233 and 2-1-403, Application No. 23341)

3. All firing rate records for the sources subject to this condition shall be retained for at least five years from the date of entry, and shall be made available to the District upon request.

(Basis: Regulation 2-6-501)

### Condition 25476

Tesoro Refinery and Marketing Company  
Plant 14628, Application 23322  
No 3 Reformer Capacity Increase

1. The Owner/Operator shall ensure that the S-1020 No. 3 Reformer Unit

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throughput rate does not exceed 26,000 barrels per day based on a rolling 365-day average and that the throughput does not exceed 9,490,000 barrels during each 12 consecutive month period. (basis: cumulative increase).

2. The Owner/Operator shall ensure that the combined product reformates produced by both S-1004 No 2 Reformer and S-1020 No. 3 Reformer does not exceed 40,000 barrels per calendar day The throughput of S-1555 Reformate Splitter shall not exceed 40,000 barrels per calendar day. (basis: cumulative increase).
3. The Owner/Operator of S-971 shall not exceed 300MM Btu/hr, 7,200 MM Btu per day, and 2,628,000 MM Btu of firing in any consecutive 12-month period. (basis: cumulative increase, toxics)
4. The Owner/Operator of S-972 shall not exceed 45MM Btu/hr, 1,080 MM Btu per day, and 394,200 MM Btu of firing in any consecutive 12-month period. (basis: cumulative increase, toxics)
5. The Owner/Operator of S-908 shall not exceed 220MM Btu/hr of firing, on a calendar day basis, and 1,927,200 MMBtu/yr. (basis: Regulation 2-1-233)
6. The Owner/Operator of S-926 shall not exceed 130MM Btu/hr of firing, on a calendar day basis, and 1,138,800 MMBtu/yr. [The requirements for submitting the permit application for S-926 were completed.] (basis: Regulation 2-1-233)
7. The Owner/Operator shall burn in sources S-971 and S-972 only natural gas or refinery fuel gas. (basis: cumulative increase, BACT, toxics).
8. The Owner/Operator shall only operate S-971 and S-972 when annual POC emissions from S-971 and S-972 do not exceed 7.085 and 1.321 tons, respectively, per rolling consecutive 12 month period. (basis: cumulative increase, offsets)
9. The Owner/Operator shall only operate S-971 and S-972 when annual PM-10 emissions from S-971 and S-972 do not exceed 2.444 and 0.367 tons, respectively, per rolling consecutive 12 month period.(basis: cumulative increase, offsets)
10. The Owner/Operator shall only operate S-971 when NOx emissions do not exceed 166 pounds per calendar day, and 30.353 tons per rolling consecutive 12 month period. (basis: RACT, cumulative increase, BACT and offset avoidance)
11. The Owner/Operator shall only operate S-972 when NOx emissions do not

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exceed 26.9 pounds per calendar day, and 4.914 tons per rolling consecutive 12 month period. (basis: RACT, cumulative increase, BACT and offset avoidance)

12. The Owner/Operator shall only operate S-971 when CO emissions do not exceed 75.423 tons per rolling consecutive 12 month period. (basis:, cumulative increase,)
13. The Owner/Operator shall only operate S-972 when CO emissions do not exceed 12.211 tons per rolling consecutive 12 month period. (basis:, cumulative increase)
14. Deleted because the applicable requirements of NSPS 40 CFR 60 Subpart Ja were incorporated into the Title V permit.
15. The Owner/Operator shall abate S-971 with Selective Catalyst Reduction systems (A-1433), at any time that S-971 is in operation, not including the startup and shutdown periods allowed by Regulation 9, Rule 10 when A-1433 is not at operating temperature. When starting up for the first time following refractory replacement, the owner/operator may exceed the 12-hour startup time period allowed in Regulation 9, Rule 10, provided that CEMs are operating and all applicable emission limits are met. (basis: cumulative increase)
16. The Owner/Operator shall calibrate, maintain, and operate a District-approved continuous emission monitoring system (CEMS) that continuously measures and records the concentration of nitrogen oxides (calculated as NO<sub>2</sub>), in ppmv units corrected to 3% oxygen, dry, in the combined combustion exhaust from S-971 abated by A-1433 and from S-972. The CEMS shall be in operation at all times when S-971 and/or S-972 operate except as allowed in the District's Manual of Procedures, which includes maintenance and malfunction. (basis: monitoring)
17. The Owner/Operator shall calibrate, maintain, and operate a District-approved continuous emission monitoring system (CEMS) that continuously measures and records the concentration of carbon monoxide (CO), in ppmv units corrected to 3% oxygen, dry, in the combined combustion exhaust from S-971 abated by A-1433 and from S-972. The CEMS devices shall be in operation at all times when S-971 and/or S-972 operate except as allowed in the District's Manual of Procedures, which includes maintenance and malfunction. (basis: monitoring)
18. Owner/Operator shall calibrate, maintain, and operate District-approved continuous emission monitoring system (CEMS) that continuously measures and records the concentration of oxygen in the combined combustion exhaust

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from S-971 abated by A-1433 and from S-972. The CEMS shall be in operation at all times when S-971 and/or S-972 operate except as allowed in the District's Manual of Procedures, which includes maintenance and malfunction. (basis: monitoring)

19. The Owner/Operator shall ensure that all natural gas burned at sources S-971 and S-972, shall be PUC quality gas. Compliance will be demonstrated through records that show the specification of natural gas by the supplier. (basis: BACT for SO<sub>2</sub> and BACT for PM<sub>10</sub> when firing natural gas)
20. The Owner/Operator shall not combust in sources S-971 and S-972 refinery fuel gas having a total hydrogen sulfide content greater than 50 ppmv, based on consecutive 365 day average, or a total reduced sulfur (TRS) content greater than 100ppmv, based on consecutive 365 day average. (basis: BACT for SO<sub>2</sub> when firing refinery fuel gas)
21. Owner/Operator shall ensure ammonia slip from the SCR system abating S-971 shall not exceed 20 ppmv, dry, corrected to 3% oxygen. (basis: toxics)
22. Deleted. [Fugitive component counts were provided.] The owner/operator shall not exceed 34 pounds per year of POC emissions measured as C1 from the total fugitive component count installed in TOC services as part of Application 23322. Compliance with this provision shall be verified quarterly using the District approved equations for Estimating Mass Emissions of Fugitive Hydrocarbon Leaks at Petroleum Facilities. The results shall be submitted to the District on a quarterly basis for two years commencing with start-up. Documentation of results shall be kept on site for five years.
23. If there is an increase in the total fugitive component emissions, the plant's cumulative emissions for the project shall be adjusted to reflect the difference between emissions based on predicted versus actual component counts. The owner/operator shall provide to the District all additional required offsets at an offset ratio of 1.15:1 no later than 14 days after submittal of the final POC fugitive count. If the actual component count is less than the predicted, the total will be adjusted accordingly and all emission offsets applied by the owner/operator in excess of the actual total fugitive emissions will be credited back to the owner/operator. (basis: offsets)
24. The Owner/Operator shall maintain a District-approved record containing all measurements, calculations and other data required to demonstrate compliance with the throughput and concentration limits of this condition. This record shall include, but is not limited to, the daily throughput of feed processed by S-1020, summarized on a monthly basis, the daily reformat combined product from S-1004 and S-1020, summarized on a monthly basis, and the daily NO<sub>x</sub> mass emissions from S-971 and S-972. The NO<sub>x</sub> mass

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emissions shall be included in the monthly CEM reports required by Regulation 1-522. This information shall be kept available for District inspection for a period of at least 5 years following the date on which such measurements, records or data are made or recorded. (basis: recordkeeping)

25. Within 60 days of the first fire date of the modified S-971 and S-972 the owner/operator shall conduct a District approved source test that measures the emission rate of ammonia from the combined stacks of S-971 and S-972 at firing rates at normal operation. The ammonia concentration will be calculated and adjusted to reflect the concentration in the A-1433 exhaust stream prior to comingling with the exhaust stream from S-972. The owner/operator shall ensure that within 60 days of the date of completion of the source testing, two identical copies of the source tests results (each referencing permit application #23322 and plant #14628) are received by the District. One copy shall be sent to the Source Test Section of the Technical Division and the other shall be sent to the Engineering Division. These tests will be repeated for three years. If there are no exceedances of the ammonia limit, then testing shall be reduced to a frequency of every 5 years. (Basis: Cumulative Increase, Offsets, Toxics)
26. Within 60 days of the first fire date of the modified S-972 the owner/operator shall conduct District approved source tests while firing S-972 with refinery fuel gas. The District approved source test shall measure the emission rates of POC, PM-10, CO and NOx from S-972, at a firing rate greater than or equal to 80% of maximum firing rate. A second set of source tests will be completed one year after the initial source tests. Emission factors for S-972 (lb/MMBtu) will be developed from these tests. If it can be demonstrated that using the highest emission factor at maximum firing rate does not exceed the S-972 mass emission limits in Parts 8, 9, 11 and 13, then the source tests will be repeated at 5 year intervals. The owner/operator shall ensure that within 60 days of the date of completion of the source testing, two identical copies of the source tests results (each referencing permit application #23322 and plant #14628) are received by the District. One copy shall be sent to the Source Test Section of the Technical Division and the other shall be sent to the Engineering Division. (Basis: Cumulative Increase, Offsets, BACT, Regulation 1-107)
27. Within 60 days of the first fire date of the modified S-971 and S-972 the owner/operator shall conduct District approved source tests while firing both S-971 and S-972 with refinery fuel gas. The District approved source test shall measure the emission rates of POC, and PM10 from the combined stacks of S-971 and S-972, both at firing rates equal to or greater than 80% of maximum firing rate. Mass emissions shall be calculated individually for S-971 and S-972 using the emission factor derived from the source tests required by Part 26 above. A second set of source tests will be completed one year



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after the initial source tests. If it can be demonstrated that using the highest emission factor at maximum firing rate does not exceed the S-971 mass emission limits in Parts 8, 9, 10 and 12, then the source tests will be repeated at 5 year intervals. The owner/operator shall ensure that within 60 days of the date of completion of the source testing, two identical copies of the source tests results (each referencing permit application #23322 and plant #14628) are received by the District. One copy shall be sent to the Source Test Section of the Technical Division and the other shall be sent to the Engineering Division. (Basis: Cumulative Increase, Offsets, BACT, Regulation 1-107)

28. If there is an increase in the POC or PM-10 emissions for either S-971 or S-972, the plant's cumulative emissions for the project shall be adjusted to reflect the difference between the emission limits in Parts 8 and 9 above versus the hourly emissions demonstrated by the source tests required in Parts 26 and 27, prorated by the factor Maximum Firing Rate/Source Test Firing Rate, multiplied by 8760. The owner/operator shall provide to the District all additional required offsets no later than 14 days after submittal of the final source test reports. If the actual emissions are less than the predicted, the total may be adjusted accordingly and all emission offsets applied by the owner/operator in excess of the actual emissions will be credited back to the owner/operator. (basis: offsets)
29. The source tests required in Parts 25, 26 and 27 shall be performed simultaneously. Within 90 days of any source test required above, the owner/operator shall submit all source test protocols for District approval. This submission shall include one copy submitted to the Source Test Section and one copy submitted to the Engineering Division. The protocol submission shall identify the plant number, the source number, the condition number, and Permit Application 23322. Once the source test protocol is approved and the source test is performed, if the source test does not comply with the approved test requirements, or the results are not valid, then the owner operator shall submit a permit application to modify the source or the permit conditions to resolve the source test issues. (Basis: Cumulative Increase, Offsets, BACT, Regulation 1-107)

### Condition 25798

Tesoro Refinery and Marketing Company  
Plant 14628, Application 26272  
Permit to Operate, Temporary Operation for  
S-850 No. 3 Hydrodesulphurization Unit  
S-973 No. 3 HDS Recycle Gas Heater (F56)  
S-974 No. 3 HDS Fractionator Feed Heater (F55)

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1. Completed. The testing with the temporary permitted throughput increase was completed and the permit expired on September 19, 2014. (Basis: Regulation 2-1-302.3)
2. Completed. The testing with the temporary permitted throughput increase was completed and the permit expired on September 19, 2014. (Basis: Regulation 2-1-302.3, Offsets)
3. Completed. The testing with the temporary permitted throughput increase was completed and the permit expired on September 19, 2014. (Basis: Regulation 2-1-302.3, Offsets)
4. Completed. The testing with the temporary permitted throughput increase was completed and the permit expired on September 19, 2014. (Basis: Regulation 2-1-302.3, Offsets)
5. Completed. The testing with the temporary permitted throughput increase was completed and the permit expired on September 19, 2014. (Basis: Offsets)
6. The Tesoro Refinery Emissions Cap shall be reduced by the amount of the Coker Modification Project emissions credits granted by Tesoro Application 17798. (Basis: Cumulative Increase, Offsets, Regulation 2, Rule 4)
7. The Tesoro Refinery Emissions Cap shall be reduced by the amount of the No. 2 Hydrogen Plant emissions, as permitted in Permit Application 3318 Refinery Modernization and Energy Conservation Project, to reflect the ownership transfer of this plant to Air Products and Chemicals, Inc. (Basis: Cumulative Increase, Offsets)
8. To ensure compliance with Parts 8 and 9 above, Permit Condition 8077, Part B2A emission limits shall be revised to read as follows:

Particulates	417.5	tons/year
Hydrocarbons	217.83	tons/year
NOx	2579.57	tons/year
SO2	1675.04	tons/year
CO	495.37	tons/year

(Basis: Cumulative Increase, Offsets, Regulation 2, Rule 4)
9. To ensure compliance with Parts 8 and 9 above, Permit Condition 8077, Part B2B emission limits shall be revised to read as follows:

Particulates	43.875	tons/month
Hydrocarbons	76.677	tons/ month
NOx	315.659	tons/ month
SO2	441.920	tons/ month

## VI. Permit Conditions

CO 50.531 tons/ month  
(Basis: Cumulative Increase, Offsets, Regulation 2, Rule 4)

10. Completed. The testing with the temporary permitted throughput increase was completed and the permit expired on September 19, 2014. (Basis: Offsets, Monitoring)
11. Completed. The testing with the temporary permitted throughput increase was completed and the permit expired on September 19, 2014. (Basis: Offsets)
12. Completed. The testing with the temporary permitted throughput increase was completed and the permit expired on September 19, 2014. (Basis: Regulation 2-1-302.3.3)
13. Completed. The testing with the temporary permitted throughput increase was completed and the permit expired on September 19, 2014. (Basis: Regulation 2-1-302.3.3, Offsets)

### Condition 25846

Tesoro Refinery and Marketing Company  
Plant 14628, Application 25758  
S-1412 SAP Startup Heater  
Modified in 1980  
Altered in 2014

1. The owner/operator of S-1412 shall operate this source on natural gas or refinery fuel gas exclusively. (basis: Cumulative Increase)
2. The owner/operator shall not use more than 9000 MM Btu of gas fuel at S-1412 in any consecutive twelve-month period unless a permit application is submitted within 7 days of the exceedance to the Air Quality Engineering Manager in the Engineering Division for including S-1412 into the Regulation 9, Rule 10 bubble. (basis: Cumulative Increase, Regulation 9-10-112)
3. To determine compliance with the above parts, the owner/operator shall maintain the monthly records of gas consumption at S-1412 in a District approved log. These logs shall be kept for at least 5 years and shall be made available to the District upon request. (basis: Cumulative Increase)
4. Within 60 days of the next scheduled startup following the commissioning of S-1412, the owner/operator shall conduct a District approved source test of S-1412 for NO<sub>x</sub> and CO to determine emissions when using gas as a fuel. If the source test shows higher emissions than those reported in the engineering

## **VI. Permit Conditions**

evaluation report (Application 25758), then Tesoro may need to submit an administrative permit amendment to the District to change the engineering evaluation to reflect the higher emissions. (basis: Total source emissions)

5. Deleted. (Tesoro requested that it not be required to provide post-project emissions information that demonstrated the project was an alteration.)

**VII. APPLICABLE LIMITS & COMPLIANCE MONITORING REQUIREMENTS**

This section has been included to summarize the applicable emission limits contained in Section IV, Source-Specific Applicable Requirements, of this permit. The following tables show the relationship between each emission limit and the associated compliance monitoring provisions, if any. The monitoring frequency column indicates whether periodic (P) or continuous (C) monitoring is required. For periodic monitoring, the frequency of the monitoring has also been shown using the following codes: annual (A), quarterly (Q), monthly (M), weekly (W), daily (D), or on an event basis (E). No monitoring (N) has been required if the current applicable rule or regulation does not require monitoring, and the operation is unlikely to deviate from the applicable emission limit based upon the nature of the operation.

This section is only a summary of the limits and monitoring requirements. In the case of a conflict with any requirement in Sections I-VI, the preceding sections take precedence over Section VII.

**SECTION A SITEWIDE (REFINERY AND AMORCO)**

**Table VII – A.1  
 Applicable Limits and Compliance Monitoring Requirements  
 FACILITY B2758**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Benzene	40 CFR 61.342(e)(2)(i) 63.647(a)	Y		6.0 Mg/yr (6.6 tons/yr) [Facility wide limit – combined with Facility B2759]	40 CFR 61.356(b)(4)	N	Records
CO	BAAQMD Condition 8077, Part B2A Appendix A.4	Y		495.37 tons/year	BAAQMD Condition 8077, Parts B4, B5	P/M	Calculations and Report [EMIT Report]
CO	BAAQMD Condition 8077, Part B2B Appendix A.4	Y		50.531 tons/month Maximum emission limit	BAAQMD Condition 8077, Parts B4, B5	P/M	Calculations and Report [EMIT Report]
CO	BAAQMD Condition 8077, Part B2C Appendix A.4	Y		49.1 tons/month compensatory emission limit	BAAQMD Condition 8077, Parts B4, B5	P/M	Calculations and Report [EMIT Report]

## VII. Applicable Limits & Compliance Monitoring Requirements

**Table VII – A.1**  
**Applicable Limits and Compliance Monitoring Requirements**  
**FACILITY B2758**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
CO	BAAQMD Condition 8077, Part B2D Appendix A.4	Y		Allowable accumulated emissions at end of any month 573 tons/year prorated by elapsed months + 9.3 tons	BAAQMD Condition 8077, Parts B4, B5	P/M	Calculations and Report [EMIT Report]
NOx	BAAQMD Condition 8077, Part B2A Appendix A.2	Y		2579.57 tons/year	BAAQMD Condition 8077, Parts B4, B5	P/M	Calculations and Report [EMIT Report]
NOx	BAAQMD Condition 8077, Part B2B Appendix A.2	Y		315.659 tons/month Maximum emission limit	BAAQMD Condition 8077, Parts B4, B5	P/M	Calculations and Report [EMIT Report]
NOx	BAAQMD Condition 8077, Part B2D Appendix A.2	Y		Allowable accumulated emissions at end of any month 2579.57 tons/year prorated by elapsed months + 69 tons	BAAQMD Condition 8077, Parts B4, B5	P/M	Calculations and Report [EMIT Report]
POC	BAAQMD 8-8-304	N		Combined collection/destruction efficiency of 95% by weight. or vapor-tight covers [sludge dewatering]	BAAQMD 8-8-602	N	Source test or EPA Method 25 or 25A
POC	SIP 8-8-304	Y		Combined collection/destruction efficiency of 95% by weight. or vapor-tight covers [sludge dewatering]	SIP 8-8-602	N	Source test or EPA Method 25 or 25A
POC	40 CFR 61.343 (a)(1)(i)(A)	Y		Tanks fittings leak ≤ 500 ppm	40 CFR 61.343 (a)(1)(i)(A)	P/A	Method 21 Inspection
POC	40 CFR 61.343 (a)(1)(i)(B)	Y		Tanks openings closed and properly gasketed	40 CFR 61.343(c)	P/Q	Visual Inspection

## VII. Applicable Limits & Compliance Monitoring Requirements

**Table VII – A.1**  
**Applicable Limits and Compliance Monitoring Requirements**  
**FACILITY B2758**

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 61.343(d)	Y		Tank broken seals & gaskets repaired within 45 days	40 CFR 61.356(g)	P/Q	Reports
POC	40 CFR 61.345(a)(1)(i)	Y		Container openings leak ≤ 500 ppm	40 CFR 61.345(a)(1)(i)	P/A	Method 21 Inspection
POC	40 CFR 61.345(b)	Y		Containers closed & properly gasketed	40 CFR 61.345(b)	P/Q	Visual Inspection
POC	40 CFR 61.345(c)	Y		Container broken seals & gaskets repaired within 15 days	40 CFR 61.356(g)	P/Q	Reports
Hydrocarbons	BAAQMD Condition 8077, Part B2A Appendix A.1	Y		217.83 tons/year	BAAQMD Condition 8077, Parts B4, B5	P/M	Calculations and Report [EMIT Report]
Hydrocarbons	BAAQMD Condition 8077, Part B2B Appendix A.1	Y		76.677 tons/month Maximum emission limit	BAAQMD Condition 8077, Parts B4, B5	P/M	Calculations and Report [EMIT Report]
Hydrocarbons	BAAQMD Condition 8077, Part B2D Appendix A.1	Y		Allowable accumulated emissions at end of any month 217.83 tons/year prorated by elapsed months + 35 tons	BAAQMD Condition 8077, Parts B4, B5	P/M	Calculations and Report [EMIT Report]
VOC	BAAQMD 8-5-328.1	N		< 10,000 ppm organic concentration (Degassing)	BAAQMD 8-5-328.1 8-5-605.2	P/E	Method 21 Inspection At least four consecutive measurements performed at intervals no shorter than 15 minutes each.
VOC	SIP 8-5-328.1.2	Y		< 10,000 ppm organic concentration (Degassing)	BAAQMD 8-5-328.1.2 8-5-605	P/E	Method 21 Inspection

**VII. Applicable Limits & Compliance Monitoring Requirements**

**Table VII – A.1  
 Applicable Limits and Compliance Monitoring Requirements  
 FACILITY B2758**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	BAAQMD 8-5-328.1	N		90% abatement efficiency (tank degassing)	BAAQMD 8-5-502.2 8-5-603	P/ Within 12 months prior to abatement use or during operation	Source Test
VOC	SIP 8-5-328.1.2	N		90% abatement efficiency (tank Degassing)	SIP 8-5-502 8-5-603.2	P/ A	Source Test
VOC	BAAQMD 8-5-331	N		90% abatement efficiency (tank cleaning)	BAAQMD 8-5-502.2 8-5-603	P/ A	Source Test
VOC	BAAQMD 8-5-332.1	N		No liquid leakage [Sludge containers]	None	N	N/A
VOC	BAAQMD 8-5-332.2	N		Gaps <=1.3 cm (1/2 inch) [Sludge containers]	None	N	N/A
VOC	BAAQMD 8-10-301	N		Abatement of emissions from process vessel depressurization is required until pressure is reduced to less than 1000 mm Hg (4.6 psig)	BAAQMD 8-10-401 8-10-501 8-10-502	P/E	Records
VOC	SIP 8-10-301	Y		Abatement of emissions from process vessel depressurization is required until pressure is reduced to less than 1000 mm Hg (4.6 psig)	SIP 8-10-401 BAAQMD 8-10-501 8-1-502	P/E	Records
VOC	BAAQMD 8-10-302.1 8-10-302.2	N		< 10,000 ppm organic concentration [A refinery vessel may exceed this limit provided total number of such vessels does not exceed 10% of total vessel population over 5- consecutive year period and total mass organic compound emissions are less than 15 lb/day]	BAAQMD 8-10-501 8-10-502 8-10-503	P/E (prior to opening vessel and daily during time vessel is open to atmosphere)	Method 21 Inspection and Records



**VII. Applicable Limits & Compliance Monitoring Requirements**

**Table VII – A.1  
 Applicable Limits and Compliance Monitoring Requirements  
 FACILITY B2758**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Ambient SO <sub>2</sub>	BAAQMD 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 hours	BAAQMD 9-1-501 9-1-604	C	Area Monitoring
Ambient SO <sub>2</sub> [For S802]	BAAQMD 9-1-310.3 9-1-110.2 9-1-301 [For S802]	Y		Ground level SO <sub>2</sub> concentration (0.5 ppm for 3 min; 0.25 ppm for 60 min; 0.05 ppm for 24 hours)	BAAQMD 9-1-110.1 1-510	C	Area Monitoring
Ambient H <sub>2</sub> S	BAAQMD 9-2-301	Y		Ground level concentrations of 0.06 ppm for 3 min or 0.03 ppm for 60 min	BAAQMD 9-2-501 9-2-602	C	Area Monitoring
H <sub>2</sub> S NH <sub>3</sub>	BAAQMD 9-1-313.2	N		Refinery wide: 95% H <sub>2</sub> S removal (refinery fuel gas) 95% H <sub>2</sub> S removal (process water streams) 95% NH <sub>3</sub> removal (process water streams)	None	N	N/A
H <sub>2</sub> S NH <sub>3</sub>	SIP 9-1-313.2	Y		Refinery wide: 95% H <sub>2</sub> S removal (refinery fuel gas) 95% H <sub>2</sub> S removal (process water streams) 95% NH <sub>3</sub> removal (process water streams)	None	N	N/A
SO <sub>2</sub>	BAAQMD 9-1-304	Y		Sulfur content ≤ 0.5% (liquid fuels) where burning such fuel would produce emissions of 300 ppmvd SO <sub>2</sub>	BAAQMD 9-1-602	N	BAAQMD MOP Method 10
SO <sub>2</sub>	BAAQMD Condition 8077, Part B2A Appendix A.3	Y		1675.04 tons/year	BAAQMD Condition 8077, Parts B4, B5	P/M	Calculations and Report [EMIT Report]

## VII. Applicable Limits & Compliance Monitoring Requirements

**Table VII – A.1**  
**Applicable Limits and Compliance Monitoring Requirements**  
**FACILITY B2758**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
SO2	BAAQMD Condition 8077, Part B2B Appendix A.3	Y		441.920 tons/month Maximum emission limit	BAAQMD Condition 8077, Parts B4, B5	P/M	Calculations and Report [EMIT Report]
SO2	BAAQMD Condition 8077, Part B2D Appendix A.3	Y		Allowable accumulated emissions at end of any month 1675.04 tons/year prorated by elapsed months + 258 tons	BAAQMD Condition 8077, Parts B4, B5	P/M	Calculations and Report [EMIT Report]
PM	BAAQMD 8-40-304	Y		Exposed surface area ≤ 6,000 square feet (Active storage pile)	None	N	N/A
PM	BAAQMD 8-40-305	Y		Cover contaminated soil with heavy duty plastic sheeting when inactive > one hour	None	N	N/A
PM	BAAQMD Condition 8077, Part B2A Appendix A.5	Y		417.5 tons/year	BAAQMD Condition 8077, Parts B4, B5	P/M	Calculations and Report [EMIT Report]
PM	BAAQMD Condition 8077, Part B2B Appendix A.5	Y		43.875 tons/month Maximum emission limit	BAAQMD Condition 8077, Parts B4, B5	P/M	Calculations and Report [EMIT Report]
PM	BAAQMD Condition 8077, Part B2C Appendix A.5	Y		42 tons/month Compensatory emission limit	BAAQMD Condition 8077, Parts B4, B5	P/M	Calculations and Report [EMIT Report]
PM	BAAQMD Condition 8077, Part B2D Appendix A.5	Y		Allowable accumulated emissions at end of any month 417.5 tons/year prorated by elapsed months + 9 tons	BAAQMD Condition 8077, Parts B4, B5	P/M	Calculations and Report [EMIT Report]

**VII. Applicable Limits & Compliance Monitoring Requirements**

**Table VII – A.1  
 Applicable Limits and Compliance Monitoring Requirements  
 FACILITY B2758**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	BAAQMD 8-40-306.4	Y		Within 45 days of excavation or 90 days of < 500 ppmw, cover with ≥ 6” uncontaminated soil or remove all contaminated soil from site or initiate treatment	BAAQMD 8-40-601.3 (≤ 250 cubic yds) 8-40-601.4 (> 250 cubic yds)	P/E	Sample every 50 cubic yds excavated (≤ 250 cubic yds)  Sample every 100 cubic yds excavated (> 250 cubic yds)
VOC	BAAQMD 8-40-306.6	Y		During periods of inactivity > 12 hours, Backfilled contaminated soil covered with ≥ 6” un contaminated soil or continuous heavy duty plastic sheeting	None	N	N/A
VOC	40 CFR 60.113b(b)(2) 60.113b(b)(3) 60.113b(b)(4)	Y		Gap width ≤ 3.81 cm Total gap surface area ≤ 212 cm <sup>2</sup> per meter of tank diameter	40 CFR 60.113b(b)(1)(i) 60.113b(b)(1)(iii)	P/ Within 60 days of initial fill after 1 year OOS	EFR Primary seal gap measurements
VOC	40 CFR 60.113b(b)(2) 60.113b(b)(3) 60.113b(b)(4)	Y		Gap width ≤ 1.27 cm Total gap surface area ≤ 21.2 cm <sup>2</sup> per meter of tank diameter	40 CFR 60.113b(b)(1)(ii) 60.113b(b)(1)(iii)	P/ Within 60 days of initial fill after 1 year OOS	EFR Secondary seal gap measurements
VOC	40 CFR 63.120(b)(2) 63.120(b)(3) 63.120(b)(4)	Y		Gap width ≤ 3.81 cm Total gap surface area ≤ 212 cm <sup>2</sup> per meter of tank diameter	40 CFR 63.120(b)(1)(i) 63.120(b)(1)(iv)	P/ Within 90 days of refilling after 1 year OOS	EFR Primary seal gap measurements
VOC	40 CFR 63.120(b)(2) 63.120(b)(3) 63.120(b)(4)	Y		Gap width ≤ 1.27 cm Total gap surface area ≤ 21.2 cm <sup>2</sup> per meter of tank diameter	40 CFR 63.120(b)(1)(ii) 63.120(b)(1)(iii)	P/ Within 90 days of refilling after 1 year OOS	EFR Secondary seal gap measurements

**VII. Applicable Limits & Compliance Monitoring Requirements**

**Table VII – A.1  
 Applicable Limits and Compliance Monitoring Requirements  
 FACILITY B2758**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	Condition 19528 Part 12	Y		Tank TVP <= 0.5 psia [8-5-117 exemption]	BAAQMD Condition 19528 Part 12	P/E on change of material stored	Reference table or lab analysis
<b>40 CFR 63 Subpart GGGGG</b>							
Exemption	40 CFR 63.7884(b)	Y		Complete site remediation within 30 consecutive days (40 CFR Subpart GGGGG Exemption)	40 CFR 63.7884(b)(3)	N	Records
HAP	40 CFR 63.7886(b)(1)(i)	Y		For Tanks: Comply with 63.7895-7898 (Option 1)	None	N	N/A
HAP	40 CFR 63.7886(b)(1)(ii)	Y		For Containers: Comply with 63.7900-7903 (Option 1)	None	N	N/A
HAP	40 CFR 63.7886(b)(1)(v)	Y		For Transfer system: Comply with 63.7915-7918 (Option 1)	None	N	N/A
VOHAP	40 CFR 63.7886(b)(2)	Y		500 ppmw (40 CFR 63 Subpart GGGGG Option 2)	None	N	N/A
HAP	40 CFR 63.7886(b)(3)	Y		If subject to 40 CFR 61 or 40 CFR 63 Subpart, comply with the other subpart unless unit is exempt (Option 3)	None	N	N/A
HAP	40 CFR 63.7886(b)(4)(i) 63.684(b)(4)	Y		≥ 95% HAP reduction efficiency or HAP removed by biological degradation ≥ required mass removal (Option 4)	40 CFR 63.7886(b)(4)(ii) 63.684(e)(4)	P/ Dependent on written procedures & operating plan	Dependent on written procedures & operating plan

**VII. Applicable Limits & Compliance Monitoring Requirements**

**Table VII – A.1  
 Applicable Limits and Compliance Monitoring Requirements  
 FACILITY B2758**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
<b>40 CFR 63 Subpart GGGGG Containers</b>							
Gaps	40 CFR 63.7902(a) [63.926(a)(1) reference]	Y		No visible cracks, holes, gaps, or other open spaces (Regulated material already in container)	40 CFR 63.926(a)(1)	P/ Before or on date of container acceptance	Visual Inspection
Gaps	40 CFR 63.7902(a) [63.926(a)(2) reference]	Y		No visible cracks, holes, gaps, or other open spaces (Regulated containers unopened > 1 year)	40 CFR 63.7903(c)(2) ) 63.7903(d)(3) 63.926(a)(2)	P/A	Visual Inspection
Gaps	40 CFR 63.7902(a) 63.7903(c)(3) 63.7903(d)(4) [63.926(a)(3) reference]	Y		Transfer regulated material from defective container within 5 calendar days of detection of defect; or Make 1 <sup>st</sup> attempt at repair within 24 hours & repair defect within 5 calendar days of detection of defect	None	N	N/A
<b>40 CFR 63 Subpart GGGGG Transfer Systems</b>							
Joints	40 CFR 63.7915(c)(2) 63.7918(d)(1)	Y		All joints or pipe section seams must be permanently or semi-permanently sealed	None	N	N/A
Leaks	40 CFR 63.7917(c) 63.7917(e)(1) 63.7917(e)(2) 63.7918(d)(2)	Y		No leaks or defects Make 1 <sup>st</sup> attempt at repair within 5 calendar days & repair within 45 calendars days unless no alternative available transfer system	40 CFR 63.7917(c)	P/A	Visual Inspection

## VII. Applicable Limits & Compliance Monitoring Requirements

**Table VII – A.2**  
**Applicable Limits and Compliance Monitoring Requirements**  
**FACILITY B2759**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Benzene	40 CFR 61.342(e)(2)(i) 63.647(a)	Y		6.0 Mg/yr (6.6 tons/yr) [Facility-wide limit combined with Facility B2758]	40 CFR 61.356(b)(4)	N	Records
CO	BAAQMD Condition 8077, Part B2A Appendix A.4	Y		495.37 tons/year	BAAQMD Condition 8077, Parts B4, B5	P/M	Calculations and Report [EMIT Report]
CO	BAAQMD Condition 8077, Part B2B Appendix A.4	Y		50.531 tons/month Maximum emission limit	BAAQMD Condition 8077, Parts B4, B5	P/M	Calculations and Report [EMIT Report]
CO	BAAQMD Condition 8077, Part B2C Appendix A.4	Y		49.1 tons/month compensatory emission limit	BAAQMD Condition 8077, Parts B4, B5	P/M	Calculations and Report [EMIT Report]
CO	BAAQMD Condition 8077, Part B2D Appendix A.4	Y		Allowable accumulated emissions at end of any month 495.37 tons/year prorated by elapsed months + 9.3 tons	BAAQMD Condition 8077, Parts B4, B5	P/M	Calculations and Report [EMIT Report]
NOx	BAAQMD Condition 8077, Part B2A Appendix A.2	Y		2579.57 tons/year	BAAQMD Condition 8077, Parts B4, B5	P/M	Calculations and Report [EMIT Report]
NOx	BAAQMD Condition 8077, Part B2B Appendix A.2	Y		315.659 tons/month Maximum emission limit	BAAQMD Condition 8077, Parts B4, B5	P/M	Calculations and Report [EMIT Report]

## VII. Applicable Limits & Compliance Monitoring Requirements

**Table VII – A.2**  
**Applicable Limits and Compliance Monitoring Requirements**  
**FACILITY B2759**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NOx	BAAQMD Condition 8077, Part B2D Appendix A.2	Y		Allowable accumulated emissions at end of any month 2579.57 tons/year prorated by elapsed months + 69 tons	BAAQMD Condition 8077, Parts B4, B5	P/M	Calculations and Report [EMIT Report]
Hydro-carbons	BAAQMD Condition 8077, Part B2A Appendix A.1	Y		217.83 tons/year	BAAQMD Condition 8077, Parts B4, B5	P/M	Calculations and Report [EMIT Report]
Hydro-carbons	BAAQMD Condition 8077, Part B2B Appendix A.1	Y		76.677 tons/month Maximum emission limit	BAAQMD Condition 8077, Parts B4, B5	P/M	Calculations and Report [EMIT Report]
Hydro-carbons	BAAQMD Condition 8077, Part B2D Appendix A.1	Y		Allowable accumulated emissions at end of any month 217.83 tons/year prorated by elapsed months + 35 tons	BAAQMD Condition 8077, Parts B4, B5	P/M	Calculations and Report [EMIT Report]
Ambient H <sub>2</sub> S	BAAQMD 9-2-301	Y		Ground level concentrations of 0.06 ppm for 3 min or 0.03 ppm for 60 min	BAAQMD 9-2-501	P/As required by APCO consistent with Regulation 9-2-501	Area Monitoring
POC	40 CFR 61.343 (a)(1)(i)(A)	Y		Tanks fittings leak ≤ 500 ppm	40 CFR 61.343 (a)(1)(i)(A)	P/A	Method 21 Inspection
POC	40 CFR 61.343 (a)(1)(i)(B)	Y		Tanks openings closed and properly gasketed	40 CFR 61.343(c)	P/Q	Visual Inspection
POC	40 CFR 61.343(d)	Y		Tank broken seals & gaskets repaired within 45 days	40 CFR 61.356(g)	P/Q	Reports
POC	40 CFR 61.345(a)(1)(i)	Y		Container openings leak ≤ 500 ppm	40 CFR 61.345(a)(1)(i)	P/A	Method 21 Inspection

**VII. Applicable Limits & Compliance Monitoring Requirements**

**Table VII – A.2  
 Applicable Limits and Compliance Monitoring Requirements  
 FACILITY B2759**

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 61.345(b)	Y		Containers closed & properly gasketed	40 CFR 61.345(b)	P/Q	Visual Inspection
POC	40 CFR 61.345(c)	Y		Container broken seals & gaskets repaired within 15 days	40 CFR 61.345(g)	P/Q	Reports
Ambient SO2	BAAQMD 9-1-301	Y		Ground level concentrations of 0.5 ppm for 3 min or 0.25 ppm for 60 min or 0.5 ppm for 24 hours	BAAQMD 9-1-501	P/ As required by APCO consistent with BAAQMD 9-1-501	Area Monitoring
SO2	BAAQMD 9-1-304	Y		Sulfur content $\leq 0.5\%$ (liquid fuels) where burning such fuel would produce emissions of 300 ppmvd SO2	BAAQMD 9-1-602	N	BAAQMD MOP Method 10
SO2	BAAQMD Condition 8077, Part B2A Appendix A.3	Y		1675.04 tons/year	BAAQMD Condition 8077, Parts B4, B5	P/M	Calculations and Report [EMIT Report]
SO2	BAAQMD Condition 8077, Part B2B Appendix A.3	Y		441.920 tons/month Maximum emission limit	BAAQMD Condition 8077, Parts B4, B5	P/M	Calculations and Report [EMIT Report]
SO2	BAAQMD Condition 8077, Part B2D Appendix A.3	Y		Allowable accumulated emissions at end of any month 1675.04 tons/year prorated by elapsed months + 258 tons	BAAQMD Condition 8077, Parts B4, B5	P/M	Calculations and Report [EMIT Report]
PM	BAAQMD 8-40-304	Y		Exposed surface area $\leq 6,000$ square feet (Active storage pile)	None	N	N/A
PM	BAAQMD 8-40-305	Y		Cover contaminated soil with heavy duty plastic sheeting when inactive > one hour	None	N	N/A



## VII. Applicable Limits & Compliance Monitoring Requirements

**Table VII – A.2**  
**Applicable Limits and Compliance Monitoring Requirements**  
**FACILITY B2759**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
PM	BAAQMD Condition 8077, Part B2A Appendix A.5	Y		417.5 tons/year	BAAQMD Condition 8077, Parts B4, B5	P/M	Calculations and Report [EMIT Report]
PM	BAAQMD Condition 8077, Part B2B Appendix A.5	Y		43.875 tons/month Maximum emission limit	BAAQMD Condition 8077, Parts B4, B5	P/M	Calculations and Report [EMIT Report]
PM	BAAQMD Condition 8077, Part B2C Appendix A.5	Y		42 tons/month Compensatory emission limit	BAAQMD Condition 8077, Parts B4, B5	P/M	Calculations and Report [EMIT Report]
PM	BAAQMD Condition 8077, Part B2D Appendix A.5	Y		Allowable accumulated emissions at end of any month 417.5 tons/year prorated by elapsed months + 9 tons	BAAQMD Condition 8077, Parts B4, B5	P/M	Calculations and Report [EMIT Report]
VOC	BAAQMD 8-5-328.1	N		< 10,000 ppm organic concentration (Degassing)	BAAQMD 8-5-328.1 8-5-605.2	P/E	Method 21 Inspection At least four consecutive measurements performed at intervals no shorter than 15 minutes each.
VOC	SIP 8-5-328.1	Y		< 10,000 ppm organic concentration (Degassing)	BAAQMD 8-5-328.1.2 8-5-605	P/E	Method 21 Inspection
VOC	BAAQMD 8-5-328.1	N		90% abatement efficiency (tank degassing)	BAAQMD 8-5-502.2 8-5-603	P/ Within 12 months prior to abatement use or during operation	Source Test

**VII. Applicable Limits & Compliance Monitoring Requirements**

**Table VII – A.2  
 Applicable Limits and Compliance Monitoring Requirements  
 FACILITY B2759**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	SIP 8-5-328.1.2	N		90% abatement efficiency (tank degassing)	SIP 8-5-502 8-5-603.2	P/ A	Source Test
VOC	BAAQMD 8-5-331	N		90% abatement efficiency (tank cleaning)	BAAQMD 8-5-502.2 8-5-603	P/A	Source Test
VOC	BAAQMD 8-5-331	N		90% abatement efficiency (tank cleaning)	BAAQMD 8-5-502.2 8-5-603	P/ A	Source Test
VOC	BAAQMD 8-5-332.1	N		No liquid leakage [Sludge containers]	None	N	N/A
VOC	BAAQMD 8-5-332.2	N		Gaps <=1.3 cm (1/2 inch) [Sludge containers]	None	N	N/A
VOC	BAAQMD 8-40-306.4	Y		Within 45 days of excavation or 90 days of < 500 ppmw, cover with ≥ 6” uncontaminated soil or remove all contaminated soil from site or initiate treatment	BAAQMD 8-40-601.3 (≤ 250 cubic yds) 8-40-601.4 (> 250 cubic yds)	P/E	Sample every 50 cubic yds excavated (≤ 250 cubic yds)  Sample every 100 cubic yds excavated (> 250 cubic yds)
VOC	BAAQMD 8-40-306.6	Y		During periods of inactivity > 12 hours, Backfilled contaminated soil covered with ≥ 6” un contaminated soil or continuous heavy duty plastic sheeting	None	N	N/A
VOC	40 CFR 60.113b(b)(2) 60.113b(b)(3) 60.113b(b)(4)	Y		Gap width <= 3.81 cm Total gap surface area <= 212 cm <sup>2</sup> per meter of tank diameter	40 CFR 60.113b(b)(1)(i) 60.113b(b)(1)(iii)	P/ Within 60 days of initial fill after 1 year OOS	EFR Primary seal gap measurements

**VII. Applicable Limits & Compliance Monitoring Requirements**

**Table VII – A.2  
 Applicable Limits and Compliance Monitoring Requirements  
 FACILITY B2759**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	40 CFR 60.113b(b)(2) 60.113b(b)(3) 60.113b(b)(4)	Y		Gap width <= 1.27 cm Total gap surface area <= 21.2 cm <sup>2</sup> per meter of tank diameter	40 CFR 60.113b(b)(1)(ii) 60.113b(b)(1)(iii)	P/ Within 60 days of initial fill after 1 year OOS	EFR Secondary seal gap measurements
VOC	40 CFR 63.120(b)(2) 63.120(b)(3) 63.120(b)(4)	Y		Gap width <= 3.81 cm Total gap surface area <= 212 cm <sup>2</sup> per meter of tank diameter	40 CFR 63.120(b)(1)(i) 63.120(b)(1)(iv)	P/ Within 90 days of refilling after 1 year OOS	EFR Primary seal gap measurements
VOC	40 CFR 63.120(b)(2) 63.120(b)(3) 63.120(b)(4)	Y		Gap width <= 1.27 cm Total gap surface area <= 21.2 cm <sup>2</sup> per meter of tank diameter	40 CFR 63.120(b)(1)(ii) 63.120(b)(1)(iii)	P/ Within 90 days of refilling after 1 year OOS	EFR Secondary seal gap measurements
VOC	Condition 19528 Part 12	Y		Tank TVP <= 0.5 psia [8-5-117 exemption]	Condition 19528 Part 12	P/E on change of material stored	Reference table or lab analysis
<b>40 CFR 63 Subpart GGGGG</b>							
Exemption	40 CFR 63.7884(b)	Y		Complete site remediation within 30 consecutive days (40 CFR Subpart GGGGG Exemption)	40 CFR 63.7884(b)(3)	N	Records
HAP	40 CFR 63.7886(b)(1)(i)	Y		For Tanks: Comply with 63.7895-7898 (Option 1)	None	N	N/A
HAP	40 CFR 63.7886(b)(1)(i)	Y		For Containers: Comply with 63.7900-7903 (Option 1)	None	N	N/A
HAP	40 CFR 63.7886(b)(1)(v)	Y		For Transfer system: Comply with 63.7915-7918 (Option 1)	None	N	N/A
VOHAP	40 CFR 63.7886(b)(2)	Y		500 ppmw (40 CFR 63 Subpart GGGGG Option 2)	None	N	N/A

**VII. Applicable Limits & Compliance Monitoring Requirements**

**Table VII – A.2  
 Applicable Limits and Compliance Monitoring Requirements  
 FACILITY B2759**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
HAP	40 CFR 63.7886(b)(3)	Y		If subject to 40 CFR 61 or 40 CFR 63 Subpart, comply with the other subpart unless unit is exempt (Option 3)	None	N	N/A
HAP	40 CFR 63.7886(b)(4)(i) ) 63.684(b)(4)	Y		≥ 95% HAP reduction efficiency or HAP removed by biological degradation ≥ required mass removal (Option 4)	40 CFR 63.7886(b)(4)(ii) 63.684(e)(4)	P/ Dependent on written procedures & operating plan	Dependent on written procedures & operating plan
<b>40 CFR 63 Subpart GGGGG Containers</b>							
Gaps	40 CFR 63.7902(a) [63.926(a)(1) reference]	Y		No visible cracks, holes, gaps, or other open spaces (Regulated material already in container)	40 CFR 63.926(a)(1)	P/ Before or on date of container acceptance	Visual Inspection
Gaps	40 CFR 63.7902(a) [63.926(a)(2) reference]	Y		No visible cracks, holes, gaps, or other open spaces (Regulated containers unopened > 1 year)	40 CFR 63.7903(c)(2) ) 63.7903(d)(3) 63.926(a)(2)	P/A	Visual Inspection
Gaps	40 CFR 63.7902(a) 63.7903(c)(3) 63.7903(d)(4) [63.926(a)(3) reference]	Y		Transfer regulated material from defective container within 5 calendar days of detection of defect; or Make 1 <sup>st</sup> attempt at repair within 24 hours & repair defect within 5 calendar days of detection of defect	None	N	N/A

**VII. Applicable Limits & Compliance Monitoring Requirements**

**Table VII – A.2  
 Applicable Limits and Compliance Monitoring Requirements  
 FACILITY B2759**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
<b>40 CFR 63 Subpart GGGGG Transfer Systems</b>							
Joints	40 CFR 63.7915(c)(2) 63.7918(d)(1)	Y		All joints or pipe section seams must be permanently or semi-permanently sealed	None	N	N/A
Leaks	40 CFR 63.7917(c) 63.7917(e)(1) 63.7917(e)(2) 63.7918(d)(2)	Y		No leaks or defects Make 1 <sup>st</sup> attempt at repair within 5 calendar days & repair within 45 calendar days unless no alternative available transfer system	40 CFR 63.7917(c)	P/A	Visual Inspection

**VII. Applicable Limits & Compliance Monitoring Requirements**

**SECTION B PROCESS UNITS & MISC**

**Table VII – B.1  
 Applicable Limits and Compliance Monitoring Requirements  
 S802- FCCU FLUID CATALYTIC CRACKING UNIT  
 ABATED BY S901 CO BOILER  
 ABATED BY A30 ESP**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
SO2	BAAQMD 9-1-310.1	Y		1000 ppmv	BAAQMD 9-1-502, BAAQMD 1-520.5	C	SO2 CEM
NOx	BAAQMD Condition 11433, Part 2	Y		Total from S802 and S901 <= 354.4 tons/yr [at exit of S901 CO Boiler]	BAAQMD Condition 11433, Parts 2A and 4 Condition 8077, Part B4D	C	CEM
					BAAQMD Condition 11433, Part 4 Condition 8077, parts B5A, B5B	P/M	Calculations and report [EMIT Report]
NOx	BAAQMD Condition 11433, Part 7	Y		20 ppmvd @ 0% O2, 365-calendar day rolling average, measured prior to commingling with other streams	BAAQMD Permit Condition 11433, Part 13	C	NOx and O2 CEMs
NOx	BAAQMD Condition 11433, Parts 7 & 12	Y		40 ppmvd @ 0% O2, 7-calendar day rolling average, measured prior to commingling with other streams, except during feed hydrotreater outages	BAAQMD Condition 11433, Part 13	C	NOx and O2 CEMS

**VII. Applicable Limits & Compliance Monitoring Requirements**

**Table VII – B.1  
 Applicable Limits and Compliance Monitoring Requirements  
 S802- FCCU FLUID CATALYTIC CRACKING UNIT  
 ABATED BY S901 CO BOILER  
 ABATED BY A30 ESP**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Opacity	BAAQMD 6-1-302	N		20% opacity, except for 3 minutes in any one hour	BAAQMD 1-520.5, 1-522, 6-1-501., 6-1-502	C	COMs
Opacity	BAAQMD SIP 6-302	Y		20% opacity, except for 3 minutes in any one hour	BAAQMD 1-520.5, 1-522 SIP 6-501, 6-502	C	COMs
Opacity	BAAQMD Condition 11433, Part 2B	Y		20% opacity, except for 3 minutes in any one hour [at exit of S901 CO Boiler when S901 is burning CO gas from the FCCU	BAAQMD Condition 11433, Part 2B	C	COMs
Opacity	40 CFR 60.102(a)(2) 63.1564 (a)(1) BAAQMD 1-520.8 BAAQMD Condition 11433, Part 11	Y		30% opacity, except for one 6 minute average opacity reading in 1 hour [at exit of S901 CO Boiler]	40 CFR 60.105(a)(1) 60.105(e)(1) 63.1564(b)(1) 63.1564(c)(1) BAAQMD Condition 11433, Parts 2B & 11	C	COMs
PM	40 CFR 60.102(a)(1) 63.1564 (a)(1) BAAQMD Condition 11433, Parts 10 & 11	Y		1.0 lb per 1000 lb of coke burn-off.	40 CFR 60.105(c), 63.1564(b)(5) 63.1564(c)(1) BAAQMD Condition 11433, Part 10	P/Initial and when required by APCO	Source Test

**VII. Applicable Limits & Compliance Monitoring Requirements**

**Table VII – B.1  
 Applicable Limits and Compliance Monitoring Requirements  
 S802- FCCU FLUID CATALYTIC CRACKING UNIT  
 ABATED BY S901 CO BOILER  
 ABATED BY A30 ESP**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
PM/PM10	BAAQMD Condition 11433, Part 2	Y		Total from S802 and S901 <= 151.5 tons/yr	BAAQMD Condition 11433, part 4 Condition 8077, Part B4D, and Appendix C.4(b)	P/monthly every other year	Source Test
					BAAQMD Condition 11433, part 4 Condition 8077, parts B5A, B5B	P/M	Calculations and Report [EMIT Report]
POC	BAAQMD Condition 11433, Part 2	Y		Total from S802 and S901 <= 5.8 tons/yr	BAAQMD Condition 11433, part 4 Condition 8077, parts B4, B5A, B5B	P/M	Calculations and Report [EMIT Report]
SO2	BAAQMD Condition 11433, Part 2	Y		Total from S802 and S901 <= 1335.5 tons/yr [at exit of S901 CO Boiler]	BAAQMD Condition 11433, Parts 2A and 4 Condition 8077, Part B4D	C	CEM
					BAAQMD Condition 11433, Part 4 Condition 8077, parts B5A, B5B	P/M	Calculations and report [EMIT Report]



**VII. Applicable Limits & Compliance Monitoring Requirements**

**Table VII – B.1  
 Applicable Limits and Compliance Monitoring Requirements  
 S802- FCCU FLUID CATALYTIC CRACKING UNIT  
 ABATED BY S901 CO BOILER  
 ABATED BY A30 ESP**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
SO <sub>2</sub>	40CFR 60.104(b)(2) 60.104(c) BAAQMD Condition 11433, Part 11	Y		9.8 kg/Mg (20 lb/ton) coke burn-off, 7-day rolling average	40 CFR 60.105(c), 60.106(i)(12) BAAQMD Condition 11433, Part 11	P/D	AMP
SO <sub>2</sub>	BAAQMD Condition 11433, Part 8	Y		25 ppmvd @ 0% O <sub>2</sub> , 365- day rolling average	BAAQMD Condition 11433, Part 14	C	SO <sub>2</sub> and O <sub>2</sub> CEMs
SO <sub>2</sub>	BAAQMD Condition 11433, Parts 8 & 12	Y		50 ppmvd @ 0% O <sub>2</sub> , 7-day rolling average, except during feed hydrotreater outages	BAAQMD Condition 11433, Part 14	C	SO <sub>2</sub> and O <sub>2</sub> CEMs
CO	40 CFR 60.103(a) 63.1565 (a)(1) BAAQMD Condition 11433, Part 11	Y		500 ppmvd, 1-hour average	BAAQMD 1-520.8, 1-522  40 CFR 60.105(a)(2), 60.105(c) 60.105(e)(2) 63.1565(b)(1) 63.1565(c)(1)  BAAQMD Condition 11433, Part 11	C	CO CEMs

**VII. Applicable Limits & Compliance Monitoring Requirements**

**Table VII – B.1  
 Applicable Limits and Compliance Monitoring Requirements  
 S802- FCCU FLUID CATALYTIC CRACKING UNIT  
 ABATED BY S901 CO BOILER  
 ABATED BY A30 ESP**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
CO	BAAQMD Condition 11433, Part 2	Y		Total from S802 and S901 <= 121.9 tons/yr	BAAQMD Condition 11433, Part 11	C	CO CEM
					BAAQMD Condition 11433, part 4 Condition 8077, parts B4, B5A, B5B	P/M	Calculations and Report [EMIT Report]
CO	BAAQMD Condition 11433, Part 9	Y		500 ppmvd @ 0% O2, 1-hour block average	BAAQMD Condition 11433, Parts 9 & 11	C	CO & O2 CEMs
Visible Emissions	BAAQMD 6-1-301	N		Ringelmann No. 1 < 3 minutes/hour	None	N	N/A
Visible Emissions	SIP 6-301	Y		Ringelmann No. 1 < 3 minutes/hour	None	N	N/A
Visible Particles	BAAQMD 6-1-305	N		Prohibition of nuisance	None	N	N/A
Visible Particles	SIP 6-305	Y		Prohibition of nuisance	None	N	N/A
FP	BAAQMD 6-1-310	N		0.15 grain/dscf	Condition 22150, Part 1	C	COMs
FP	SIP 6-310	Y		0.15 grain/dscf	BAAQMD Condition 22150, Part 1	C	COMs

**VII. Applicable Limits & Compliance Monitoring Requirements**

**Table VII – B.1  
 Applicable Limits and Compliance Monitoring Requirements  
 S802- FCCU FLUID CATALYTIC CRACKING UNIT  
 ABATED BY S901 CO BOILER  
 ABATED BY A30 ESP**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
FP	BAAQMD 6-1-310 6-1-311 SIP 6-310 SIP 6-311 BAAQMD Condition 22150, Part 2	Y		30% opacity, except for one 6 minute average opacity reading in 1 hour	BAAQMD Condition 22150, Part 2	P/E	Source Test

**Table VII – B.2  
 Applicable Limits and Compliance Monitoring Requirements  
 S815–No. 1 FEED PREP UNIT, S816–No. 2 FEED PREP UNIT,  
 S817–No. 3 CRUDE UNIT, S1001–No. 50 CRUDE UNIT**

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 (S817)	BAAQMD Condition 17837, Part 1	Y		63,000 bbl/calendar day	BAAQMD Condition 17837, Part 3	P/D	Records
Through-put (S817)	BAAQMD Condition 17837, Part 2	Y		22,995,000 bbl/rolling 365 consecutive days	BAAQMD Condition 17837, Part 3	P/D	Records

**VII. Applicable Limits & Compliance Monitoring Requirements**

**Table VII – B.2  
 Applicable Limits and Compliance Monitoring Requirements  
 S815–No. 1 FEED PREP UNIT, S816–No. 2 FEED PREP UNIT,  
 S817–No. 3 CRUDE UNIT, S1001–No. 50 CRUDE UNIT**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Through-put	BAAQMD Condition 8077, Part B3Aii	Y		108,000 barrels/stream day or 97,000 barrels/day calendar day avg. (if limits of BAAQMD Condition 8077, Part B2A are exceeded and until emission reductions of Part B3Ai are installed )	BAAQMD Condition 8077, Part B5A	P/D	Records
VOC (all except S1001)	BAAQMD Condition 10696, Part 1	Y		95% abatement efficiency [A12 vapor recovery]	None	N	N/A

**Table VII – B.3  
 Applicable Limits and Compliance Monitoring Requirements  
 S850–No. 3 HDS UNIT**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Thruput	BAAQMD Condition 8077, Part B6B and B6C	Y		70,000 bbl/stream day	BAAQMD Condition 8077, Part B5A	P/D	Records

**VII. Applicable Limits & Compliance Monitoring Requirements**

**Table VII – B.4  
 Applicable Limits and Compliance Monitoring Requirements  
 S1002-No. 1 HDS UNIT  
 S1003-No. 2 HDS UNITS1006-No. 1 HDA UNIT,  
 S1105-No. 4 HDS UNIT**

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 (S-1002)	BAAQMD Condition 8350, Part A1	Y		28,000 bbl naphtha/day, rolling 365-day average  10,220,000 bbl feed per 12 consecutive months	BAAQMD Condition 8350, Part A4	P/D	Records
Through-put (S1003)	BAAQMD Condition 8350, Part B1	Y		40,000 bbls diesel/day, rolling 365-day average  14,600 bbls feed per 12 consecutive months	BAAQMD Condition 8350, Part B4	P/D	Records
Through-put (S1006)	BAAQMD Condition 8350, Part C1	Y		20,000 bbls/day, rolling 365-day average  7,300,000 bbls feed per 12 consecutive months	BAAQMD Condition 8350, Part C4	P/D	Records
Through-put (S1105)	BAAQMD Condition 19199, Part G0	Y		40,080 bbls hydrocarbon material/calendar day	BAAQMD Condition 19199, Part G9	P/D	Records

**Table VII – B.5  
 Applicable Limits and Compliance Monitoring Requirements  
 S1004-No. 2 CATALYTIC REFORMER**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
HCl	40 CFR 63.1567 (a)(1)(ii)	Y		<= 30 ppmv dry at 3%O <sub>2</sub> during coke burn-off and catalyst rejuvenation	40 CFR 63.1567(b)	P/Initial	Performance Test (Method 26)

**VII. Applicable Limits & Compliance Monitoring Requirements**

**Table VII – B.5  
 Applicable Limits and Compliance Monitoring Requirements  
 S1004-NO. 2 CATALYTIC REFORMER**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
HCl	40 CFR 63.1567 (a)(1)(ii)	Y		<= 30 ppmv dry at 3%O <sub>2</sub> during coke burn-off and catalyst rejuvenation	40 CFR 63.1567(c)(1)	P/E	Colormetric Tube System
HCl	40 CFR 63.1567(a)(2)	Y		Daily average HCl <= performance test limit	40 CFR 63.1567(c)(1)	P/E	Colormetric Tube System

**Table VII – B.6  
 Applicable Limits and Compliance Monitoring Requirements  
 S1005-NO. 1 HYDROGEN PLANT**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
POC CO2 Vents #1 & #2	BAAQMD 8-2-301	Y		15 lbs/day & 300 ppm total carbon, dry basis	BAAQMD 8-2-601 BAAQMD Condition 22070, Part 1	P/2-year	Biennial Source Test
Through-put	BAAQMD Condition 24321, Part 1	Y		93 mmscf/day 31,025 mmscf/year Hydrogen production	BAAQMD Condition 24321, Part 2	P/D	Records

**VII. Applicable Limits & Compliance Monitoring Requirements**

**Table VII –B.7  
 Applicable Limits and Compliance Monitoring Requirements  
 S1038 BENZENE SATURATION UNIT**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Through-put	BAAQMD Condition 23258, Part 1	Y		5,475,000 barrels of feed to S-1038 during any 12 consecutive month period.	BAAQMD Condition 23258, Part 5	P/D	Records

**Table VII –B.8  
 Applicable Limits and Compliance Monitoring Requirements  
 S1007 HYDROCRACKER UNIT 2<sup>ND</sup> STAGE,  
 S1008 HYDROCRACKER UNIT 1<sup>ST</sup> STAGE**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Through-put	BAAQMD Condition 8077, Part C1	Y		35,000 bbls/calendar day or 37,000 bbls/stream day	BAAQMD Condition 8077, Part C2 (S1007)	P/D	Records

**Table VII –B.9  
 Applicable Limits and Compliance Monitoring Requirements  
 S1009 ALKYLATION UNIT**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
None							

**VII. Applicable Limits & Compliance Monitoring Requirements**

**Table VII – B.10  
 Applicable Limits and Compliance Monitoring Requirements  
 S1020-No. 3 UOP REFORMER**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
HCl	40 CFR 63.1567 (a)(1)(ii)	Y		<= 10 ppmv dry at 3% O <sub>2</sub>	40 CFR 63.1567(b)(2)	P/Initial	Performance test (Method 26)
pH	40 CFR 63.1567 (a)(2)	Y		Daily average pH of scrubbing liquid >= 7.5	40 CFR 63.1567(c)(1)	C	pH monitoring system
Liquid-to-gas ratio	40 CFR 63.1567 (a)(2)	Y		Daily average liquid-to-gas ratio in wet scrubber >= 1.5	40 CFR 63.1567(c)(1)	C	Liquid and gas flow meters
Organic HAPs	40 CFR 63.1566(a)(1)(ii) 63.1566(a)(3) 63.1566(a)(4)	Y		Meet TOC or nonmethane TOC percent reduction standard or concentration limit [when venting to process furnace]	63.1566(b)(5)(ii)	None	n/a
Throughput	BAAQMD Condition 25476 Part 1	Y		26,000 barrels per day on a rolling 365-day average	BAAQMD Condition 25476 Part 24	P/D	Records
Throughput	BAAQMD Condition 25476 Part 1	Y		9,490,000 barrels per each 12 consecutive month period	BAAQMD Condition 25476, Part 24	P/M	Records
Throughput	BAAQMD Condition 25476 Part 2	Y		Combined product reformates produced by S-1004 and S-1020 shall not exceed 40,000 barrels per calendar day	BAAQMD Condition 25476 Part 24	P/D	Records



**VII. Applicable Limits & Compliance Monitoring Requirements**

**Table VII – B.11  
 Applicable Limits and Compliance Monitoring Requirements  
 DELAYED COKER (S1510) WITH 4 COKE DRUMS AND ASSOCIATED EQUIPMENT**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
FP	BAAQMD 6-1-310	N		0.15 grain/dscf	None	N	NA
FP	SIP 6-310	Y		0.15 grain/dscf	None	N	NA
FP	BAAQMD 6-1-311	N		4.10 P <sup>0.67</sup> lb/hr particulate, where P is process weight rate in ton/hr	None	N	NA
FP	SIP 6-311	Y		4.10 P <sup>0.67</sup> lb/hr particulate, where P is process weight rate in ton/hr	None	N	NA
Throughput	Condition 23129, Part 3	Y		55,000 bbls/day	Condition 23129, Part 8a	P/D	Records
Throughput	Condition 23129, Part 3	Y		20,075,000 bbls/consecutive 12-month period	Condition 23129, Part 8b	P/M	Records
Visible Emissions	BAAQMD 6-1-301	N		Ringelmann No. 1 for no more than 3 minutes/hour	None	N	N/A
Visible Emissions	SIP 6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour	None	N	N/A
Visible Particles	BAAQMD 6-1-305	N		Prohibition of nuisance	None	N	N/A
Visible Particles	SIP 6-305	Y		Prohibition of nuisance	None	N	N/A

**VII. Applicable Limits & Compliance Monitoring Requirements**

**Table VII – B.12  
 Applicable Limits and Compliance Monitoring Requirements  
 S1555-reformate splitter**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Throughput	BAAQMD Condition 25476 Part 2	Y		40,000 barrels per calendar day	BAAQMD Condition 25476 Part 24	P/D	Records

## VII. Applicable Limits & Compliance Monitoring Requirements

### SECTION C COMBUSTION SOURCES SECTION C.1 COMBUSTION – BOILERS

**Table VII – C.1.1**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S901-NO. 7 BOILER, FCCU CO BOILER**  
**ABATES S802**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NOx	BAAQMD Condition 11433, Part 2	Y		Total from S-802/S-901 ≤ 354.4 tpy [at exit of S901]	BAAQMD Condition 11433, Part 4 and Part 2A Condition 8077, Part B4D	C	CEM
					BAAQMD Condition 11433, Part 4 Condition 8077, parts B5A, B5B	P/M	Calculations and EMIT Report
NOx	BAAQMD 9-10-303.1	Y		Federal interim emissions: CO Boiler emissions: 300 ppm (dry, 3% O <sub>2</sub> ), operating day average	BAAQMD 9-10-502.1; BAAQMD Condition 11433, Part 2A	C	CEM
NOx	BAAQMD 9-10-304	N		CO Boiler emissions: 150 ppm (dry, 3% O <sub>2</sub> ), operating day average or >50% abatement	BAAQMD 9-10-502.1; BAAQMD Condition 11433, Part 2A	C	CEM
O <sub>2</sub>		Y		No limit	BAAQMD 9-10-502.1	C	Monitor

**VII. Applicable Limits & Compliance Monitoring Requirements**

**Table VII – C.1.1  
 Applicable Limits and Compliance Monitoring Requirements  
 S901-NO. 7 BOILER, FCCU CO BOILER  
 ABATES S802**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
CO	BAAQMD Condition 11433, Part 2	Y		Total from S-802/S-901 $\leq$ 121.9 tpy [at exit of S901 CO Boiler]	BAAQMD Condition 11433, Part 4 Condition 8077, parts B4, B5A, B5B	P/M	Calculations and Refinery Emissions Cap "EMIT" Report
CO	BAAQMD 9-10-305	N		400 ppmv (dry, 3% O <sub>2</sub> )	BAAQMD 9-10-502 BAAQMD Condition 11433, Part 11	C	CO CEM
PM/PM10	BAAQMD Condition 11433, Part 2	Y		Total from S-802/S-901 $\leq$ 151.5 tpy	BAAQMD Condition 11433, part 4 Condition 8077, parts B5A, B5B	P/M	Calculation and EMIT Report
PM/PM10	BAAQMD Condition 11433, part 2	Y		Total from S-802/S-901 $\leq$ 151.5 tpy	BAAQMD Condition 11433, part 4 Condition 8077, Part B4D, and Appendix C.4(b)	P/Monthly every other year	Source Test
Visible Emissions	BAAQMD 6-1-301	N		$\geq$ Ringelmann No. 1 for no more than 3 minutes/hour	BAAQMD Condition 11433, Part 2B; BAAQMD Condition 22150, Part 1	C	COM

**VII. Applicable Limits & Compliance Monitoring Requirements**

**Table VII – C.1.1  
 Applicable Limits and Compliance Monitoring Requirements  
 S901-NO. 7 BOILER, FCCU CO BOILER  
 ABATES S802**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Visible Emissions	SIP 6-301	Y		≥ Ringelmann No. 1 for no more than 3 minutes/hour	BAAQMD Condition 11433, Part 2B; BAAQMD Condition 22150, Part 1	C	COM
Opacity	BAAQMD 6-1-304	N		During tube cleaning, ≥ Ringelmann No. 2 for 3 min/hr and 6 min/billion btu/24 hours	BAAQMD Condition 11433, Part 2B; BAAQMD Condition 22150, Part 1	C	COM
Opacity	SIP 6-304	Y		During tube cleaning, ≥ Ringelmann No. 2 for 3 min/hr and 6 min/billion btu/24 hours	BAAQMD Condition 11433, Part 2B; BAAQMD Condition 22150, Part 1	C	COM
FP	BAAQMD 6-1-310	N		0.15 grain/dscf	BAAQMD Condition 11433, Part 2B; BAAQMD Condition 22150, Part 1	C	COM
FP	SIP 6-310	Y		0.15 grain/dscf	BAAQMD Condition 11433, Part 2B; BAAQMD Condition 22150, Part 1	C	COM

**VII. Applicable Limits & Compliance Monitoring Requirements**

**Table VII – C.1.1  
 Applicable Limits and Compliance Monitoring Requirements  
 S901-NO. 7 BOILER, FCCU CO BOILER  
 ABATES S802**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
FP	BAAQMD 6-1-310.3	N		0.15 grain/dscf @ 6% O <sub>2</sub>	BAAQMD Condition 11433, Part 2B; BAAQMD Condition 22150, Part 1	C	COM
FP	SIP 6-310.3	Y		0.15 grain/dscf @ 6% O <sub>2</sub>	BAAQMD Condition 11433, Part 2B; BAAQMD Condition 22150, Part 1	C	COM
FP	BAAQMD 6-1-311	N		4.10 P <sup>0.67</sup> lb/hr particulate, where P is process weight rate in ton/hr	BAAQMD Condition 11433, Part 2B; BAAQMD Condition 22150, Part 1	C	COM
FP	SIP 6-311	Y		4.10 P <sup>0.67</sup> lb/hr particulate, where P is process weight rate in ton/hr	BAAQMD Condition 11433, Part 2B; BAAQMD Condition 22150, Part 1	C	COM
POC	BAAQMD Condition 11433, Part 2	Y		Total from S-802/S-901 ≤ 5.8 tpy [at exit of S901 CO Boiler]	BAAQMD Condition # 11433, part 4 Condition 8077, parts B4, B5A, B5B	P/M	Calculations and Report [EMIT Report]

**VII. Applicable Limits & Compliance Monitoring Requirements**

**Table VII – C.1.1  
 Applicable Limits and Compliance Monitoring Requirements  
 S901-NO. 7 BOILER, FCCU CO BOILER  
 ABATES S802**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
SO2	BAAQMD Condition 11433, Part 2	Y		Total from S-802/S-901 $\leq$ 1335.5 tpy [at exit of S901 CO Boiler]	BAAQMD Condition 11433, Parts 2A and 4 BAAQMD Condition 8077, Part B4D	C	CEM
					BAAQMD Condition 11433, part 4 Condition 8077, parts B5A, B5B	P/M	Calculations and report [EMIT Report]
Fuel Flow	Table IIA	Y		668 MMBtu/hr, 5,851,680 MMBtu/yr	BAAQMD 9-10-502.2; BAAQMD Condition 8077, Part B4D	C	Fuel Flow meter
Ammonia Injection	BAAQMD Condition # 7397, part 1	Y		Ammonia injection $\leq$ 1800 lbs/ consecutive 24-hr period	BAAQMD Condition # 7397, part 2	C	Ammonia Flow meter

**VII. Applicable Limits & Compliance Monitoring Requirements**

**Table VII – C.1.2  
 Applicable Limits and Compliance Monitoring Requirements  
 S904-NO. 6 BOILERHOUSE, CAPACITY: 775 MMBTU/HR, REFINERY FUEL GAS,  
 NATURAL GAS  
 NSPS SUBPART J BY CONDITION 23562**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NH3 Slip	BAAQMD Condition 17322, Part 5	Y		20 ppmv, dry @ 3% O2	BAAQMD Condition 17322, Part 6	P/ Semi-annual	Source Test
NOx				CEM for NOx, O2, or CO2 if >250 MMBTU/hr	BAAQMD 1-520.1	C	CEM
NOx	BAAQMD 9-10-301 BAAQMD Condition 18372, Part 27	N		Refinery-wide emissions (excluding CO Boilers): 0.033 lb NOx/ MMBTU	BAAQMD 9-10-502.1 BAAQMD Condition 17322, Part 4	C	CEM
NOx	BAAQMD 9-10-303	Y		Federal interim emissions: Refinery-wide emissions (excluding CO Boilers): 0.20 lb NOx/MMBTU	BAAQMD 9-10-502.1 BAAQMD Condition 17322, Part 4	C	CEM
O2		N		CEM for NOx, O2, or CO2 if >250 MMBTU/hr	BAAQMD 1-520.1	C	CEM
O2		Y		CEM for O2	BAAQMD 9-10-502.1 BAAQMD Condition 17322, Part 4 Condition 18372, Part 28	C	CEM



**VII. Applicable Limits & Compliance Monitoring Requirements**

**Table VII – C.1.2  
 Applicable Limits and Compliance Monitoring Requirements  
 S904-NO. 6 BOILERHOUSE, CAPACITY: 775 MMBTU/HR, REFINERY FUEL GAS,  
 NATURAL GAS  
 NSPS SUBPART J BY CONDITION 23562**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
CO	BAAQMD 9-10-305	N		400 ppmv (dry, 3% O <sub>2</sub> ), operating day average	BAAQMD 9-10-502.1 BAAQMD Condition 17322, Part 4	C	CEM
Visible Emissions	BAAQMD 6-1-301	N		≥ Ringelmann No. 1 for no more than 3 minutes/hour	None	N	N/A
Visible Emissions	SIP 6-301	Y		≥ Ringelmann No. 1 for no more than 3 minutes/hour	None	N	N/A
Opacity	BAAQMD 6-1-304	N		During tube cleaning, ≥ Ringelmann No. 2 for 3 min/hr and 6 min/billion btu/24 hours	None	N	N/A
Opacity	SIP 6-304	Y		During tube cleaning, ≥ Ringelmann No. 2 for 3 min/hr and 6 min/billion btu/24 hours	None	N	N/A
FP	BAAQMD 6-1-310	N		0.15 grain/dscf	None	N	N/A
FP	SIP 6-310	Y		0.15 grain/dscf	None	N	N/A
FP	BAAQMD 6-1-310.3	N		0.15 grain/dscf @ 6% O <sub>2</sub>	None	N	N/A
FP	SIP 6-310.3	Y		0.15 grain/dscf @ 6% O <sub>2</sub>	None	N	N/A

**VII. Applicable Limits & Compliance Monitoring Requirements**

**Table VII – C.1.2  
 Applicable Limits and Compliance Monitoring Requirements  
 S904-NO. 6 BOILERHOUSE, CAPACITY: 775 MMBTU/HR, REFINERY FUEL GAS,  
 NATURAL GAS  
 NSPS SUBPART J BY CONDITION 23562**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
H2S	BAAQMD Condition 23562, Part 1 40 CFR 60.104(a)(1) 60.105(e)(3)(ii)	Y		160 ppmv, dry, 3 hour rolling average	BAAQMD Condition 23562, Part 3 40 CFR 60.105(a)(4)	C	H2S analyzer on fuel gas
Fuel Flow	Table IIA	Y		775 MMBtu/hr, 6,789,000 MMBtu/yr	BAAQMD 9-10-502.2	C	Fuel Flowmeter
Fuel Flow	BAAQMD Condition 17322, Part 1 Condition 22590, Part 2	Y		775 MMBtu/hr (refinery gas and natural gas)	BAAQMD 9-10-502.2 BAAQMD Condition 22590, Part 1	C	Fuel Flowmeter
Visible Particles	BAAQMD 6-1-305	N		Prohibition of nuisance	None	N	N/A
Visible Particles	SIP 6-305	Y		Prohibition of nuisance	None	N	N/A
SO2	None	Y		None	BAAQMD Condition 8077, Part B4D	C	CEM
Stack gas flow	None	Y		None	BAAQMD Condition 8077, Part B4D	C	Stack gas Flowmeter

**VII. Applicable Limits & Compliance Monitoring Requirements**

**Table VII – C.1.3  
 Applicable Limits and Compliance Monitoring Requirements  
 S1550, S1551 AND S1553 BACKUP BOILERS**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Visible Emissions	BAAQMD 6-1-301	N		≥ Ringelmann No. 1 for no more than 3 minutes/hour	None	N	N/A
Visible Emissions	SIP 6-301	Y		≥ Ringelmann No. 1 for no more than 3 minutes/hour	None	N	N/A
Visible Particles	BAAQMD 6-1-305	N		Prohibition of nuisance	None	N	N/A
Visible Particles	SIP 6-305	Y		Prohibition of nuisance	None	N	N/A
FP	BAAQMD 6-1-310	N		0.15 grain/dscf	None	N	N/A
FP	SIP 6-310	Y		0.15 grain/dscf	None	N	N/A
FP	BAAQMD 6-1-310.3	N		0.15 grain/dscf @ 6% O <sub>2</sub>	None	N	N/A
FP	SIP 6-310.3	Y		0.15 grain/dscf @ 6% O <sub>2</sub>	None	N	N/A
Firing Rate	Condition 24491 Part 1	Y		99 MMBTU/hr each Natural gas only	Condition 24491 Part 11	P/E	Records
On-site Residence Time	Condition 24491 Part 2	Y		6 consecutive months each boiler per 12 consecutive month period	Condition 24491 Part 11	P/E	Records
Unabated Operation	Condition 24491 Part 4	Y		Operation without SCR limited to 192 hours per consecutive 12-month period total for both boilers during SU and SD events (24 hours per event (SU or SD))	Condition 24491 Part 11	P/E	Records

**VII. Applicable Limits & Compliance Monitoring Requirements**

**Table VII – C.1.3  
 Applicable Limits and Compliance Monitoring Requirements  
 S1550, S1551 AND S1553 BACKUP BOILERS**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Fuel Consumption	Condition 24491 Part 6	Y		Total, both boilers 4,277,000 therms in any 12 consecutive month period	Condition 24491 Part 5	C	Fuel Flow CPMS
NOx	Condition 24491 Part 7	Y		< 7ppmvd @ 3% O2 except during startup and shutdown events (24 hours per boiler per SU or SD event)	Condition 24491 Part 10	P/E	Source test
NOx	Condition 24491, Part 8	Y		< 30 ppmvd @ 3% O2 during startup and shutdown events (24 hours per boiler per SU or SD event)	Condition 24491, Part 10	P/E	Source test
CO	Condition 24491 Part 9	Y		< 50 ppmvd @ 3% O2	Condition 24491 Part 10	P/E	Source test
SO2				None	Condition 24491 Part 10	P/E	Source test
POC				None	Condition 24491 Part 10	P/E	Source test

**VII. Applicable Limits & Compliance Monitoring Requirements**

**SECTION C.2 COMBUSTION - FLARES**

**Table VII – C.2.1  
 Applicable Limits and Compliance Monitoring Requirements  
 FLARES SUBJECT TO NSPS BY DATE OF CONSTRUCTION  
 S854-EAST AIR FLARE, S992-EMERGENCY FLARE, , S1012 WEST AIR FLARE,  
 S1517- COKER FLARE, S1524-50 UNIT FLARE**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
SO2	60.104(a)(1)	Y		H2S in fuel gas burned $\leq$ 230 mg/dscm (0.1 gr/dscf), except process upset gases, relief valve leakage or emergency malfunctions	40 CFR 60.105(a)(4)(iv) exemption from 40 CFR 60.105(a)(4) and 60.105(e)(3)	P/E Within 15 Days of Loss of Exemption	Monitoring of flare gas composition and records
SO2	40 CFR 60.104(a)(1)	Y		H2S in fuel gas burned < 230 mg/dscm (0.1 gr/dscf), except process upset gases, relief valve leakage or emergency malfunctions	Condition 24324, Part 2	SO2	40 CFR 60.104(a)(1)
VOC, HAP	None	N		No limit	BAAQMD 12-11-501 12-11-505	P/C	Flow Rate
VOC, HAP	None	N		No limit	BAAQMD 12-11-502.1 12-11-505	P/E	Composition
VOC, HAP	None	N		No limit	BAAQMD 12-11-502.3 12-11-505	P/E	Composition
Pilot Flame	None	N		No limit	BAAQMD 12-11-503 12-11-505	P/C	Flame Detector
Pilot/ Purge Gas	None	N		No limit	BAAQMD 12-11-504 12-11-505	P/C	Purge Gas Flow Rate
Flame Detection	None	N		No limit	BAAQMD 12-11-507	P/C	1 frame per minute image video recording

**VII. Applicable Limits & Compliance Monitoring Requirements**

**Table VII – C.2.1  
 Applicable Limits and Compliance Monitoring Requirements  
 FLARES SUBJECT TO NSPS BY DATE OF CONSTRUCTION  
 S854-EAST AIR FLARE, S992-EMERGENCY FLARE, , S1012 WEST AIR FLARE,  
 S1517- COKER FLARE, S1524-50 UNIT FLARE**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Visible Emissions	None	Y		No limit	BAAQMD Condition 19528, Part 11B, 11C	P/ 30 minutes	Video monitoring/ visual inspection
PM	BAAQMD 6-1-310	N		0.15 grain/dscf	BAAQMD Condition 19528, Part 11B, 11C, 11D and 11E	P/E	Gas Flow Meter along with Visual Inspection and Records
PM	SIP 6-310	Y		0.15 grain/dscf	BAAQMD Condition 19528, Part 11B, 11C, 11D and 11E	P/E	Gas Flow Meter along with Visual Inspection and Records
Water Seal	None	N		No limit	BAAQMD 12-12-501	C	Water Seal pressure and water level
Visible Emissions	BAAQMD 6-1-301	N		≥ Ringelmann No. 1 for no more than 3 minutes/hour	BAAQMD 6-1-401 BAAQMD Condition 19528, Part 11B, 11C, 11D and 11E	P/E	Gas Flow Meter along with Visual Inspection and Records
Visible Emissions	SIP 6-301	Y		≥ Ringelmann No. 1 for no more than 3 minutes/hour	SIP 6-401 BAAQMD Condition 19528, Part 11B, 11C, 11D and 11E	P/E	Gas Flow Meter along with Visual Inspection and Records

**VII. Applicable Limits & Compliance Monitoring Requirements**

**Table VII – C.2.1  
 Applicable Limits and Compliance Monitoring Requirements  
 FLARES SUBJECT TO NSPS BY DATE OF CONSTRUCTION  
 S854-EAST AIR FLARE, S992-EMERGENCY FLARE, , S1012 WEST AIR FLARE,  
 S1517- COKER FLARE, S1524-50 UNIT FLARE**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Visible Particles	BAAQMD 6-1-305	N		Prohibition of nuisance	BAAQMD 6-1-401 BAAQMD Condition 19528, Part 11B, 11C, 11D and 11E	P/E	Gas Flow Meter along with Visual Inspection and Records
Visible Particles	SIP 6-305	Y		Prohibition of nuisance	SIP 6-401 BAAQMD Condition 19528, Part 11B, 11C, 11D and 11E	P/E	Gas Flow Meter along with Visual Inspection and Records
Sulfur	40 CFR 60.105(a)(4)(iv)(A)	Y		Exemption for exempt fuel gas streams – pilot gas for flares	40 CFR 60.107(e)	N	Records
<b>The following requirements apply only to S1517</b>							
H2S (S1517)		Y		No limit	BAAQMD Condition 23129, Part 55	C	H2S Monitoring System
POC (S1517)	BAAQMD Condition 23129, Part 52	Y		98.5 wt.% POC abatement efficiency (mass basis)	None	N	N/A
Through-put (S1517)	BAAQMD Condition 23129, Part 53	Y		1,314,000 scf natural gas/ consecutive 12-month period (Flare Pilot)	BAAQMD 12-11-501	C	Flow Meter
Through-put (S1517)	BAAQMD Condition 23129, Part 56	Y		8,584,800 scf natural gas/ consecutive 12-month period (Flare Purge)	BAAQMD 12-11-501	C	Flow Meter

**VII. Applicable Limits & Compliance Monitoring Requirements**

**Table VII – C.2.1  
 Applicable Limits and Compliance Monitoring Requirements  
 FLARES SUBJECT TO NSPS BY DATE OF CONSTRUCTION  
 S854-EAST AIR FLARE, S992-EMERGENCY FLARE, , S1012 WEST AIR FLARE,  
 S1517- COKER FLARE, S1524-50 UNIT FLARE**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
<b>The following requirements apply only to S1524</b>							
H2S (S1524)		Y		No limit	BAAQMD Condition 24323, Part 9 & 11	C	H2S Monitoring System, Records
POC (S1524)	BAAQMD Condition 24323, Part 7	Y		98 wt.% POC abatement efficiency (mass basis)	None	N	N/A
Through-put (S1524)	BAAQMD Condition 24323 Part 8	Y		3,942,000 scf natural gas/ consecutive 12-month period (Flare Pilot)	BAAQMD 12-11-501 BAAQMD Condition 24323, Part 11	C	Flow Meter, Records
Through-put (S1524)	BAAQMD Condition 24323 Part 10	Y		3,767,000 scf natural gas/ consecutive 12-month period (Flare Purge)	BAAQMD 12-11-501 BAAQMD Condition 24323, Part 11	C	Flow Meter, Records

**Table VII – C.2.2  
 Applicable Limits and Compliance Monitoring Requirements  
 S943- BUTANE TANK 691 SAFETY FLARE**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Visible Emissions		Y		No limit	BAAQMD Condition 19528, Part 11B, 111C	P/ 30 minutes	Video monitoring/ visual inspection



**VII. Applicable Limits & Compliance Monitoring Requirements**

**Table VII – C.2.2  
 Applicable Limits and Compliance Monitoring Requirements  
 S943- BUTANE TANK 691 SAFETY FLARE**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
PM	BAAQMD 6-1-310	N		0.15 grain/dscf	BAAQMD Condition 19528, Part 11B, 11C, 11D and 11E	P/E	Gas Flow Meter along with Visual Inspection and Records
PM	SIP 6-310	Y		0.15 grain/dscf	BAAQMD Condition 19528, Part 11B, 11C, 11D and 11E	P/E	Gas Flow Meter along with Visual Inspection and Records
Visible Emissions	BAAQMD 6-1-301	N		≥ Ringelmann No. 1 for no more than 3 minutes/hour	BAAQMD 6-1-401 BAAQMD Condition 19528, Part 11B, 11C, 11D and 11E	P/E	Gas Flow Meter along with Visual Inspection and Records
Visible Emissions	SIP 6-301	Y		≥ Ringelmann No. 1 for no more than 3 minutes/hour	SIP 6-401 BAAQMD Condition 19528, Part 11B, 11C, 11D and 11E	P/E	Gas Flow Meter along with Visual Inspection and Records
Visible Particles	BAAQMD 6-1-305	N		Prohibition of nuisance	BAAQMD 6-1-401 BAAQMD Condition 19528, Part 11B, 11C, 11D and 11E	P/E	Gas Flow Meter along with Visual Inspection and Records
Visible Particles	SIP 6-305	Y		Prohibition of nuisance	SIP 6-401 BAAQMD Condition 19528, Part 11B, 11C, 11D and 11E	P/E	Gas Flow Meter along with Visual Inspection and Records

NOTE – S943 OPERATION. S943 IS THE TANK 691 (REFRIGERATED BUTANE TANK S691) SAFETY FLARE. DURING ROUTINE OPERATION, THE BUTANE TANK IS ABATED BY A REFRIGERATION SYSTEM A21. A21 FUNCTIONS AS A FLARE GAS RECOVERY

**VII. Applicable Limits & Compliance Monitoring Requirements**

SYSTEM AND CONTROLS THE TEMPERATURE AND THUS THE PRESSURE IN THE TANK TO MAINTAIN THE BUTANE AS A LIQUID AND PREVENT RELEASE OF BUTANE VAPOR. BUTANE IS ROUTED TO AND FLARED IN S943 ONLY DURING NON-ROUTINE OPERATIONS WHEN THE TEMPERATURE AND PRESSURE IN THE TANK INCREASES AND BUTANE VAPOR IS RELEASED.

**Table VII – C.2.3  
 Applicable Limits and Compliance Monitoring Requirements  
 FLARES NOT SUBJECT TO NSPS  
 S944-NORTH STEAM FLARE  
 S945-SOUTH STEAM FLARE**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC, HAP	None	N		No limit	BAAQMD 12-11-501 & 12-11-505	P/C	Flow Rate
VOC, HAP	None	N		No limit	BAAQMD 12-11-502.1 & 12-11-505	P/E	Composition
VOC, HAP	None	N		No limit	BAAQMD 12-11-502.3 & 12-11-505	P/E	Composition
Pilot Flame	None	N		No limit	BAAQMD 12-11-503 & 12-11-505	P/C	Flame Detector
Pilot/Purge Gas	None	N		No limit	BAAQMD 12-11-504 & 12-11-505	P/C	Purge Gas Flow Rate
Flame Detection	None	N		No limit	BAAQMD 12-11-507	P/C	1 frame per minute image video recording
Visible Emissions	None	Y		No Limit	BAAQMD Condition 19528, Parts 11B, 11C	P/30 minutes	Video Monitoring/visual inspection
Water seal	None	N		No Limit	BAAQMD 12-12-501	C	Water Seal pressure and water level
Visible Emissions	BAAQMD 6-1-301	N		> Ringelmann No. 1 for no more than 3 minutes/hour	BAAQMD 6-1-401 BAAQMD Condition 19528, Parts 11B, 11C, 11D, and 11E	P/E	Gas Flow Meter along with Visual Inspection and Records

**VII. Applicable Limits & Compliance Monitoring Requirements**

**Table VII – C.2.3  
 Applicable Limits and Compliance Monitoring Requirements  
 FLARES NOT SUBJECT TO NSPS  
 S944-NORTH STEAM FLARE  
 S945-SOUTH STEAM FLARE**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Visible Emissions	SIP 6-301	Y		> Ringelmann No. 1 for no more than 3 minutes/hour	BAAQMD Condition 19528, Parts 11B, 11C, 11D, and 11E	P/E	Gas Flow Meter along with Visual Inspection and Records
Visible Particles	BAAQMD 6-1-305	N		Prohibition of nuisance	BAAQMD Condition 19528, Parts 11B, 11C, 11D, and 11E; SIP 6-401	P/E	Gas Flow Meter along with Visual Inspection and Records
Visible Particles	SIP 6-305	Y		Prohibition of nuisance	BAAQMD Condition 19528, Parts 11B, 11C, 11D, and 11E	P/E	Gas Flow Meter along with Visual Inspection and Records
PM	BAAQMD 6-1-310	N		0.15 grain/dscf	BAAQMD Condition 19528, Parts 11B, 11C, 11D, and 11E	P/E	Gas Flow Meter along with Visual Inspection and Records
PM	SIP 6-310	Y		0.15 grain/dscf	BAAQMD Condition 19528, Parts 11B, 11C, 11D, and 11E	P/E	Gas Flow Meter along with Visual Inspection and Records

**VII. Applicable Limits & Compliance Monitoring Requirements**

**Table VII - C.2.4  
 Applicable Limits and Compliance Monitoring Requirements  
 ACID GAS FLARE SUBJECT TO NSPS  
 S1013-AMMONIA PLANT FLARE**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC, HAP	None	N		No Limit	BAAQMD 12-11-501 & 12-11-505	P/C	Flow Rate
VOC, HAP	None	N		No Limit	BAAQMD 12-11-502.1 & 12-11-505	P/E	Composition
VOC, HAP	None	N		No Limit	BAAQMD 12-11-502.3 & 12-11-505	P/E	Composition
Pilot Flame	None	N		No Limit	BAAQMD 12-11-503 & 12-11-505	P/C	Flame Detector
Pilot/ Purge Gas	None	N		No Limit	BAAQMD 12-11-504 & 12-11-505	P/C	Purge Gas Flow Rate
Flame Detection	None	N		No Limit	BAAQMD 12-11-507	P/C	1 frame per minute image video recording
Sulfur	40 CFR 60.105(a)(4)(iv)(A)	Y		Exemption for exempt fuel gas streams – pilot gas for flares	40 CFR 60.107(e)	N	Records
Water Seal	None	N		No Limit	BAAQMD 12-12-501	C	Water seal pressure and water level
Visible Particles	BAAQMD 6-1-305	N		Prohibition of nuisance	BAAQMD Condition 19528, Parts 11B, 11C, 11D, and 11E	P/E	Gas Flow Meter along with Visual Inspection and Records
Visible Particles	SIP 6-305	Y		Prohibition of nuisance	BAAQMD Condition 19528, Parts 11B, 11C, 11D, and 11E	P/E	Gas Flow Meter along with Visual Inspection and Records

## VII. Applicable Limits & Compliance Monitoring Requirements

**Table VII - C.2.4**  
**Applicable Limits and Compliance Monitoring Requirements**  
**ACID GAS FLARE SUBJECT TO NSPS**  
**S1013-AMMONIA PLANT FLARE**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Visible Emissions	BAAQMD 6-1-301	N		> Ringelmann No. 1 for no more than 3 minutes/hour	BAAQMD Condition 19528, Parts 11B, 11C, 11D, and 11E	P/E	Gas Flow Meter along with Visual Inspection and Records
Visible Emissions	SIP 6-301	Y		> Ringelmann No. 1 for no more than 3 minutes/hour	BAAQMD Condition 19528, Parts 11B, 11C, 11D, and 11E	P/E	Gas Flow Meter along with Visual Inspection and Records
Visible Emissions	None	Y		No Limit	BAAQMD Condition 19528, Parts 11B, 11C	P/ 30 minutes	Video monitoring/ visual inspection
PM	BAAQMD 6-1-310	N		0.15 grain/dscf	BAAQMD Condition 19528, Parts 11B, 11C, 11D, and 11E	P/E	Gas Flow Meter along with Visual Inspection and Records
PM	SIP 6-310	Y		0.15 grain/dscf	BAAQMD Condition 19528, Parts 11B, 11C, 11D, and 11E	P/E	Gas Flow Meter along with Visual Inspection and Records

**VII. Applicable Limits & Compliance Monitoring Requirements**

**SECTION C.3 COMBUSTION - INTERNAL COMBUSTION ENGINES**

**Table VII – C.3.1  
 Applicable Limits and Compliance Monitoring Requirements  
 Facility B2759  
 S56 ON-SHORE FIRE-WATER PUMP DIESEL ENGINE,  
 S57 OFF-SHORE/WHARF FIRE-WATER PUMP DIESEL ENGINE**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Visible Emissions	BAAQMD 6-1-303.1	N		≥ Ringelmann No. 2 for no more than 3 minutes/hour	None	N	N/A
Visible Emissions	SIP 6-303.1	Y		≥ Ringelmann No. 2 for no more than 3 minutes/hour	None	N	None
Visible Particles	BAAQMD 6-1-305	N		Prohibition of nuisance	None	N	NA
Visible Particles	SIP 6-305	Y		Prohibition of nuisance	None	N	NA
FP	BAAQMD 6-1-310	N		0.15 grain/dscf	None	N	NA
FP	SIP 6-310	Y		0.15 grain/dscf	None	N	NA
Diesel Particulate Matter	CCR, Title 17, Section 93115.6(a)(3)(A)(1)(a)	N		≤ 0.15 g/bhp-hr for 50 hour/year operating limit	None	N	NA
Hours of operation	BAAQMD Condition 23811, Part 1	Y		< 50 hours/year for reliability-related activities	BAAQMD Condition 23811, Part 3 BAAQMD 9-8-530	C	Totalizing meter
Hours of operation	BAAQMD 9-8-330.2	N		< 100 hours/year for reliability-related activities	BAAQMD 9-8-530 BAAQMD Condition 23811, Part 3	C	Totalizing meter

**VII. Applicable Limits & Compliance Monitoring Requirements**

**Table VII – C.3.1  
 Applicable Limits and Compliance Monitoring Requirements  
 Facility B2759  
 S56 ON-SHORE FIRE-WATER PUMP DIESEL ENGINE,  
 S57 OFF-SHORE/WHARF FIRE-WATER PUMP DIESEL ENGINE**

<b>Type of Limit</b>	<b>Citation of Limit</b>	<b>FE Y/N</b>	<b>Future Effective Date</b>	<b>Limit</b>	<b>Monitoring Requirement Citation</b>	<b>Monitoring Frequency (P/C/N)</b>	<b>Monitoring Type</b>
Hours of operation	BAAQMD 9-8-330.3	N	1/1/2012	< 50 hours/year for reliability-related activities	BAAQMD 9-8-530 BAAQMD Condition 23811, Part 3	C	Totalizing meter
Hours of operation	CCR, Title 17, Section 93115.6(a)(3)(A)(1)(c)	N		< 50 hours/year for maintenance and testing	CCR, Title 17, Section 93115.10(e)(1) BAAQMD Condition 23811, Part 3	C	Totalizing meter
					CCR, Title 17, Section 93115.10(g)	M	Records
SO2	BAAQMD 9-1-304	Y		0.5% by weight sulfur content in liquid fuel or solid fuel creating emissions > 300 ppm	None	N	N/A

**VII. Applicable Limits & Compliance Monitoring Requirements**

**Table VII – C.3.2  
 Applicable Limits and Compliance Monitoring Requirements  
 S952-INTERNAL COMBUSTION ENGINE, S953-INTERNAL COMBUSTION ENGINE, S954-  
 INTERNAL COMBUSTION ENGINE  
 SPARK IGNITION, 4 STROKE, Rich Burn Engines, EACH ABATED BY NON-SELECTIVE  
 CATALYTIC REDUCTION**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Visible Emissions	BAAQMD 6-1-301	N		≥ Ringelmann No. 1 for no more than 3 minutes/hour	None	N	N/A
Visible Emissions	SIP 6-301	Y		≥ Ringelmann No. 1 for no more than 3 minutes/hour	None	N	N/A
FP	BAAQMD 6-1-310	N		0.15 grain/dscf	None	N	N/A
FP	SIP 6-310	Y		0.15 grain/dscf	None	N	N/A
NOx	BAAQMD 9-8-301.1	N		25 ppmv, dry, at 15% oxygen	BAAQMD 9-8-503	P/ Quarterly	Portable Analyzer Monitoring
NOx	SIP 9-8-301.1	Y		56 ppmv, dry, at 15% oxygen	None	N	N/A
CO	BAAQMD 9-8-301.3	Y		2000 ppmv, dry, at 15% oxygen	BAAQMD 9-8-503	P/Quarterly	Portable Analyzer Monitoring
Visible Particles	BAAQMD 6-1-305	N		Prohibition of nuisance	None	N	N/A
Visible Particles	SIP 6-305	Y		Prohibition of nuisance	None	N	N/A
Natural gas flow	None	Y		None	BAAQMD Condition 8077, Part B4D	C	Natural gas flow meter (combined flow to engines)



**VII. Applicable Limits & Compliance Monitoring Requirements**

**TABLE VII – C.3.3  
 APPLICABLE LIMITS AND COMPLIANCE MONITORING REQUIREMENTS  
 S955-INTERNAL COMBUSTION ENGINE, S956-INTERNAL COMBUSTION ENGINE, S957-  
 INTERNAL COMBUSTION ENGINE, S958-INTERNAL COMBUSTION ENGINE, S959-  
 INTERNAL COMBUSTION ENGINE, S960-INTERNAL COMBUSTION ENGINE  
 SPARK IGNITION, 2-STROKE, LEAN BURN ENGINES  
 EACH ABATED BY SELECTIVE CATALYTIC REDUCTION (SCR)**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Visible Emissions	BAAQMD 6-1-301	N		≥ Ringelmann No. 1 for no more than 3 minutes/hour	None	N	N/A
Visible Emissions	SIP 6-301	Y		≥ Ringelmann No. 1 for no more than 3 minutes/hour	None	N	N/A
FP	BAAQMD 6-1-310	N		0.15 grain/dscf	None	N	N/A
FP	SIP 6-310	Y		0.15 grain/dscf	None	N	N/A
NOx	BAAQMD 9-8-301.2	N		65 ppmv, dry, at 15% oxygen	BAAQMD 9-8-503	P/ Quarterly	Portable Analyzer Monitoring
NOx	SIP 9-8-301.2	Y		140 ppmv, dry at 15% oxygen	None	N	N/A
CO	BAAQMD 9-8-301.3	Y		2000 ppmv, dry, at 15% oxygen	BAAQMD 9-8-503	P/Quarterly	Portable Analyzer Monitoring
Visible Particles	BAAQMD 6-1-305	N		Prohibition of nuisance	None	N	N/A
Visible Particles	SIP 6-305	Y		Prohibition of nuisance	None	N	N/A
Natural gas flow	None	Y		None	BAAQMD Condition 8077, Part B4D	C	Natural gas flow meter (combined flow to engines)

**VII. Applicable Limits & Compliance Monitoring Requirements**

**Table VII – C.3.4  
 Applicable Limits and Compliance Monitoring Requirements  
 S1469 AVON WHARF FIRE WATER PUMP ENGINE; DIESEL FIRED  
 S1471 LANSEND FIRE WATER PUMP ENGINE; DIESEL FIRED,  
 S1472 TRACT 4 NORTH FIRE WATER PUMP ENGINE; DIESEL FIRED,  
 S1475 TRAILER 1 FIRE WATER PUMP ENGINE; DIESEL FIRED,  
 S1476 TRAILER 4 FIRE WATER PUMP ENGINE; DIESEL FIRED; PORTABLE**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Visible Emissions	BAAQMD 6-1-303.1	N		≥ Ringelmann No. 2 for no more than 3 minutes/hour	None	N	N/A
Visible Emissions	SIP 6-303.1	Y		≥ Ringelmann No. 2 for no more than 3 minutes/hour	None	N	None
Visible Particles	BAAQMD 6-1-305	N		Prohibition of nuisance	None	N	N/A
Visible Particles	SIP 6-305	Y		Prohibition of nuisance	None	N	N/A
FP	BAAQMD 6-1-310	N		0.15 grain/dscf	None	N	N/A
FP	SIP 6-310	Y		0.15 grain/dscf	None	N	N/A
SO2	BAAQMD 9-1-304	Y		0.5% by weight sulfur content in liquid fuel or solid fuel creating emissions > 300 ppm	None	N	N/A
Hours of operation	BAAQMD 9-8-330.2	N		< 100 hours/year for reliability-related activities	BAAQMD 9-8-530	C	Totalizing meter
					BAAQMD 9-8-520.1 & 9-8-530	M	Records
Hours of operation	BAAQMD 9-8-330.3	N	1/1/2012	< 50 hours/year for reliability-related activities	BAAQMD 9-8-530	C	Totalizing meter
					BAAQMD 9-8-520.1 & 9-8-530	M	Records

**VII. Applicable Limits & Compliance Monitoring Requirements**

**Table VII – C.3.4  
 Applicable Limits and Compliance Monitoring Requirements  
 S1469 AVON WHARF FIRE WATER PUMP ENGINE; DIESEL FIRED  
 S1471 LANSEND FIRE WATER PUMP ENGINE; DIESEL FIRED,  
 S1472 TRACT 4 NORTH FIRE WATER PUMP ENGINE; DIESEL FIRED,  
 S1475 TRAILER 1 FIRE WATER PUMP ENGINE; DIESEL FIRED,  
 S1476 TRAILER 4 FIRE WATER PUMP ENGINE; DIESEL FIRED; PORTABLE**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Hours of operation	CCR, Title 17, Section 93115.3(n)	N		< 34 hours/year for maintenance and testing	CCR, Title 17, Section 93115.10(g)	M	Records
					CCR, Title 17, Section 93115.10(e)(1)	C	Totalizing Meter
Hours of operation	BAAQMD Condition 22851, Part 1	N		< 34 hours/year for reliability-related activities	BAAQMD Condition 22851, Part 3	C	Totalizing meter
					BAAQMD Condition 22851, Part 4	M	Records
Hours of operation	40 CFR 63.6640(f)(1) 63.6640(f)(4)	Y	5/3/2013	< 50 hours/year for non-emergency operation	40 CFR 63.6625(f)	C	Totalizing meter
					40 CFR 63.6655(f) 63.6660	M	Records
Hours of operation	40 CFR 63.6640(f)(3)	Y	5/3/2013	< 100 hours/year for maintenance checks and readiness testing required by Federal, state or local government or manufacturer	40 CFR 63.6625(f)	C	Totalizing meter
					40 CFR 63.6655(f) 63.6660	M	Records
Idle during Startup	40 CFR 63.6625(h) 40 CFR 63 Subpart ZZZZ, Table 2c.1	Y	5/3/2013	<30 minutes	40 CFR 63.6625(f)	C	Totalizing meter
					40 CFR 63.6655(f) 63.6660	M	Records

**VII. Applicable Limits & Compliance Monitoring Requirements**

**Table VII – C.3.4  
 Applicable Limits and Compliance Monitoring Requirements  
 S1469 AVON WHARF FIRE WATER PUMP ENGINE; DIESEL FIRED  
 S1471 LANSEND FIRE WATER PUMP ENGINE; DIESEL FIRED,  
 S1472 TRACT 4 NORTH FIRE WATER PUMP ENGINE; DIESEL FIRED,  
 S1475 TRAILER 1 FIRE WATER PUMP ENGINE; DIESEL FIRED,  
 S1476 TRAILER 4 FIRE WATER PUMP ENGINE; DIESEL FIRED; PORTABLE**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Work and Maintenance Practices	40 CFR 63.6602 40 CFR 63.6625(i) 40 CFR 63 Subpart ZZZZ, Table 2c.1	Y	5/3/2013	Oil change; inspect air cleaner; inspect belts and hoses; OPTIONAL oil analysis program	40 CFR 63.6625(i) 40 CFR 63 Subpart ZZZZ, Table 2c.1	P/A or as specified in 40 CFR 63 Subpart ZZZZ, Table 2c.1	Manufacturer's written instructions or Owner's Maintenance Plan
<b>S1475 and S1476</b>							
Sulfur Content	BAAQMD Condition 18947, Part 6	Y		0.0015% by weight	None	N	N/A
Through-put	BAAQMD Condition 18947, Part 4	Y		1315 gallons of diesel/ consecutive 12 month period	BAAQMD Condition 18947, Part 10	P/weekly	records

**VII. Applicable Limits & Compliance Monitoring Requirements**

**Table VII - C.3.5  
 Applicable Limits and Compliance Monitoring Requirements  
 S1487 TANK 38 FIRE-WATER PUMP DIESEL ENGINE  
 S1488 CANAL FIRE-WATER PUMP DIESEL ENGINE**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
CO (S1487)	BAAQMD Condition 20672, Part A6	Y		1.71 g/bhp-hr	None	N	N/A
CO (S1488)	BAAQMD Condition 20672, Part B6	Y		1.15 g/bhp-hr	None	N	N/A
FP	BAAQMD 6-1-310	N		0.15 grain/dscf	None	N	N/A
FP	SIP 6-310	Y		0.15 grain/dscf	None	N	N/A
Hours of operation	BAAQMD 9-8-330.2	N		< 100 hours/year for reliability-related activities	BAAQMD 9-8-530	C	Totalizing meter
					BAAQMD 9-8-520.1 & 9-8-530	M	Records
Hours of operation	BAAQMD 9-8-330.3	N	1/1/2012	< 50 hours/year for reliability-related activities	BAAQMD 9-8-530	C	Totalizing meter
					BAAQMD 9-8-520.1 & 9-8-530	M	Records
Hours of operation (S1487)	CCR, Title 17, Section 93115.3(n)	N		< 34 hours/year for maintenance and testing	CCR, Title 17, Section 93115.10(g)	M	Records
Hours of operation, PM (S1488)	CCR, Title 17, Section 93115.6(b)(3)(A)(1)(b)	N		< 30 hours/year for maintenance and testing, if PM ≤ 0.40 g/bhp-hr	CCR, Title 17, Section 93115.10(e)(1)	C	Totalizing meter
Hours of operation, PM (S1488)	CCR, Title 17, Section 93115.6(b)(3)(A)(2)(b)	N		< 50 hours/year for maintenance and testing, if PM ≤ 0.01 g/bhp-hr & < 0.15 g/bhp-hr	CCR, Title 17, Section 93115.10(e)(1)	C	Totalizing meter

**VII. Applicable Limits & Compliance Monitoring Requirements**

**Table VII - C.3.5  
 Applicable Limits and Compliance Monitoring Requirements  
 S1487 TANK 38 FIRE-WATER PUMP DIESEL ENGINE  
 S1488 CANAL FIRE-WATER PUMP DIESEL ENGINE**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Hours of operation	BAAQMD Condition 22851, Part 1	Y		<34 hours/year for reliability related activities	BAAQMD Condition 22851, Part 3	C	Totalizing meter
					BAAQMD Condition 22851, Part 4	M	Records
NOx (S1487)	BAAQMD Condition 20672, Part A5	Y		9.65 g/bhp-hr	None	N	N/A
NOx (S1488)	BAAQMD Condition 20672, Part B5	Y		8.0 g/bhp-hr	None	N	N/A
PM10 (S1488)	BAAQMD Condition 20672, Part B7k	Y		0.22 g/bhp-hr	None	N	N/A
SO2	BAAQMD 9-1-304	Y		0.5% by weight sulfur content in liquid fuel or solid fuel creating emissions > 300 ppm	None	N	N/A
Sulfur Content (S1487)	B AAQMD Condition 20672, Part A8	Y		15 ppmw	None	N	N/A
Visible Emissions (S1488)	BAAQMD 6-1-301	N		≥ Ringelmann No. 1 for no more than 3 minutes/hour	None	N	N/A
Visible Emissions (S1487)	BAAQMD 6-1-303.1	N		≥ Ringelmann No. 2 for no more than 3 minutes/hour	None	N	N/A

**VII. Applicable Limits & Compliance Monitoring Requirements**

**Table VII - C.3.5  
 Applicable Limits and Compliance Monitoring Requirements  
 S1487 TANK 38 FIRE-WATER PUMP DIESEL ENGINE  
 S1488 CANAL FIRE-WATER PUMP DIESEL ENGINE**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Visible Emissions (S1488)	SIP 6-301	Y		≥ Ringelmann No. 1 for no more than 3 minutes/hour	None	N	N/A
Visible Emissions (S1487)	SIP 6-303.1	Y		≥ Ringelmann No.2 for no more than 3 minutes/hour	None	N	N/A
Visible Particles	BAAQMD 6-1-305	N		Prohibition of nuisance	None	N	N/A
Visible Particles	SIP 6-305	Y		Prohibition of nuisance	None	N	N/A

**Table VII – C.3.6  
 Applicable Limits and Compliance Monitoring Requirements  
 S1518 NORTH RESERVOIR WEST FIRE WATER PUMP ENGINE; DIESEL FIRED  
 S1519 NORTH RESERVOIR EAST FIRE WATER PUMP ENGINE; DIESEL FIRED**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NMHC + NOx	40 CFR 60.4205(c)	Y		7.8 g/bhp-hr	40 CFR 60.4211(a)	C	Operate and maintain per mfg instructions
CO	40 CFR 60.4205(c)	Y		2.6 g/bhp-hr	40 CFR 60.4211(a)	C	Operate and maintain per mfg instructions
PM	40 CFR 60.4205(c)	Y		0.40 g/bhp-hr	40 CFR 60.4211(a)	C	Operate and maintain per mfg instructions
SO2	40 CFR 60.4207(a)	Y		Use diesel fuel that meets 500 ppm sulfur content per 40 CFR 80.510(a) requirements	None	N	N/A

**VII. Applicable Limits & Compliance Monitoring Requirements**

**Table VII – C.3.6  
 Applicable Limits and Compliance Monitoring Requirements  
 S1518 NORTH RESERVOIR WEST FIRE WATER PUMP ENGINE; DIESEL FIRED  
 S1519 NORTH RESERVOIR EAST FIRE WATER PUMP ENGINE; DIESEL FIRED**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
SO2	40 CFR 60.4207(b)	Y	10/1/2010	Use diesel fuel that meets 15 ppm sulfur content per 40 CFR 80.510(b) for nonroad diesel	None	N	N/A
Visible Emissions	BAAQMD 6-1-303.1	N		≥ Ringelmann No. 2 for no more than 3 minutes/hour	None	N	N/A
Visible Emissions	SIP 6-303.1	Y		≥ Ringelmann No. 2 for no more than 3 minutes/hour	None	N	None
Visible Particles	BAAQMD 6-1-305	N		Prohibition of nuisance	None	N	N/A
Visible Particles	SIP 6-305	Y		Prohibition of nuisance	None	N	N/A
FP	BAAQMD 6-1-310	N		0.15 grain/dscf	None	N	N/A
FP	SIP 6-310	Y		0.15 grain/dscf	None	N	N/A
SO2	BAAQMD 9-1-304	Y		0.5% by weight sulfur content in liquid fuel or solid fuel creating emissions > 300 ppm	None	N	None
Hours of operation	BAAQMD 9-8-330.2	N		< 100 hours/year for reliability-related activities	BAAQMD 9-8-530	C	Totalizing meter
					BAAQMD 9-8-520.1 & 9-8-530	M	Records
Hours of operation	BAAQMD 9-8-330.3	N	1/1/2012	< 50 hours/year for reliability-related activities	BAAQMD 9-8-530	C	Totalizing meter
					BAAQMD 9-8-520.1 & 9-8-530	M	Records



**VII. Applicable Limits & Compliance Monitoring Requirements**

**Table VII – C.3.6  
 Applicable Limits and Compliance Monitoring Requirements  
 S1518 NORTH RESERVOIR WEST FIRE WATER PUMP ENGINE; DIESEL FIRED  
 S1519 NORTH RESERVOIR EAST FIRE WATER PUMP ENGINE; DIESEL FIRED**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Hours of operation	CCR, Title 17, Section 93115.6(b) (3)(A) (2)(b)	N		< 50 hours/year for maintenance and testing	CCR, Title 17, Section 93115.10(e)(1)	C	Totalizing Counter
					CCR, Title 17, Section 93115.10(g)	M	Records
Hours of operation	40 CFR 60.4211(e)	Y		< 100 hours/year for maintenance and readiness checks	40 CFR 60.4209(a)	C	Totalizing meter
Hours of operation	BAAQMD Condition 23811, Part 1	N		50 hours/year each engine (non-emergency)	BAAQMD Condition 23811, Part 3	C	Totalizing meter
					BAAQMD Condition 23811, Part 4	M	Records

**Table VII – C.3.7  
 Applicable Limits and Compliance Monitoring Requirements  
 S1552--NO 1 PUMP STATION WATER PUMP ENGINE; DIESEL FIRED**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
SO2	BAAQMD 9-1-304	Y		0.5% by weight sulfur content in liquid fuel or solid fuel creating emissions > 300 ppm	None	N	None
SO2	40 CFR 60.4207(a)	Y		Use diesel fuel that meets 500 ppm sulfur content per 40 CFR 80.510(a) requirements	None	N	N/A

## VII. Applicable Limits & Compliance Monitoring Requirements

**Table VII – C.3.7**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S1552--NO 1 PUMP STATION WATER PUMP ENGINE; DIESEL FIRED**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
SO2	40 CFR 60.4207(b)	Y	10/1/2010	Use diesel fuel that meets 15 ppm sulfur content per 40 CFR 80.510(b) for nonroad diesel	None	N	N/A
Visible Emissions	BAAQMD 6-1-303.1	N		≥ Ringelmann No. 2 for no more than 3 minutes/hour	None	N	N/A
Visible Emissions	SIP 6-303.1	Y		≥ Ringelmann No. 2 for no more than 3 minutes/hour	None	N	None
Visible Particles	BAAQMD 6-1-305	N		Prohibition of nuisance	None	N	N/A
Visible Particles	SIP 6-305	Y		Prohibition of nuisance	None	N	N/A
FP	BAAQMD 6-1-310	N		0.15 grain/dscf	None	N	N/A
FP	SIP 6-310	Y		0.15 grain/dscf	None	N	N/A
Hours of operation	BAAQMD 9-8-330.2	N		< 100 hours/year for reliability-related activities	BAAQMD 9-8-530	C	Totalizing meter
					BAAQMD 9-8-520.1 & 9-8-530	M	Records
Hours of operation	BAAQMD 9-8-330.3	N	1/1/2012	< 50 hours/year for reliability-related activities	BAAQMD 9-8-530	C	Totalizing meter
					BAAQMD 9-8-520.1 & 9-8-530	M	Records
Hours of operation	CCR, Title 17, Section 93115.6(a)(3)(A)(1)(c)	N		< 50 hours/year for maintenance and testing	CCR, Title 17, Section 93115.10(e)(1)	C	Totalizing Counter
					CCR, Title 17, Section 93115.10(g)	M	Records
Hours of operation	40 CFR 60.4211(e)	Y		< 100 hours/year for maintenance and readiness checks	40 CFR 60.4209(a)	C	Totalizing meter

**VII. Applicable Limits & Compliance Monitoring Requirements**

**Table VII – C.3.7  
 Applicable Limits and Compliance Monitoring Requirements  
 S1552--NO 1 PUMP STATION WATER PUMP ENGINE; DIESEL FIRED**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Hours of operation	BAAQMD Condition 23811, Part 1	N		50 hours/year each engine (non-emergency)	BAAQMD 9-8-530 BAAQMD Condition 23811, Part 3	C	Totalizing meter
					BAAQMD 9-8-502.1 & 9-8-530 BAAQMD Condition 23811, Part 4	M	Records
HC	40 CFR 60.4205(a)	Y		1.0 g/bhp-hr	40 CFR 60.4211(a)	C	Operate and maintain per mfg instructions
NOx	40 CFR 60.4205(a)	Y		6.9 g/bhp-hr	40 CFR 60.4211(a)	C	Operate and maintain per mfg instructions
CO	40 CFR 60.4205(a)	Y		8.5 g/bhp-hr	40 CFR 60.4211(a)	C	Operate and maintain per mfg instructions
PM	40 CFR 60.4205(a)	Y		0.40 g/bhp-hr	40 CFR 60.4211(a)	C	Operate and maintain per mfg instructions

**VII. Applicable Limits & Compliance Monitoring Requirements**

**Table VII – C.3.8  
 Applicable Limits and Compliance Monitoring Requirements  
 S1557-- EMERGENCY STANDBY GENERATOR ENGINE; DIESEL FIRED**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
SO2	BAAQMD 9-1-304	Y		0.5% by weight sulfur content in liquid fuel	None	N	None
SO2	40 CFR 60.4207(a)	Y		Use diesel fuel that meets 500 ppm sulfur content per 40 CFR 80.510(a) requirements	None	N	N/A
SO2	40 CFR 60.4207(b)	Y		Use diesel fuel that meets 15 ppm sulfur content per 40 CFR 80.510(b) for nonroad diesel	None	N	N/A
Visible Emissions	BAAQMD 6-1-303.1	N		≥ Ringelmann No. 2 for no more than 3 minutes/hour	None	N	N/A
Visible Emissions	SIP 6-303.1	Y		≥ Ringelmann No. 2 for no more than 3 minutes/hour	None	N	None
Visible Particles	BAAQMD 6-1-305	N		Prohibition of nuisance	None	N	N/A
Visible Particles	SIP 6-305	Y		Prohibition of nuisance	None	N	N/A
FP	BAAQMD 6-1-310	N		0.15 grain/dscf	None	N	N/A
FP	SIP 6-310	Y		0.15 grain/dscf	None	N	N/A
Hours of operation	BAAQMD 9-8-330.3	N		< 50 hours/year for reliability-related activities	BAAQMD 9-8-530	C	Totalizing meter
					BAAQMD 9-8-520.1 & 9-8-530	M	Records
Hours of operation	CCR, Title 17, Section 93115.6(a)(3)(A)(1)(c)	N		< 50 hours/year for maintenance and testing	CCR, Title 17, Section 93115.10(e)(1)	C	Totalizing Counter
					CCR, Title 17, Section 93115.10(g)	M	Records

**VII. Applicable Limits & Compliance Monitoring Requirements**

**Table VII – C.3.8  
 Applicable Limits and Compliance Monitoring Requirements  
 S1557-- EMERGENCY STANDBY GENERATOR ENGINE; DIESEL FIRED**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Hours of operation	40 CFR 60.4211(e)	Y		< 100 hours/year for maintenance and readiness checks	40 CFR 60.4209(a)	C	Totalizing meter
Hours of operation	40 CFR 63.6640 (f)(1)(ii)	Y		< 100 hours/year for readiness testing	40 CFR 63.6625(f)	C	Totalizing meter
Hours of operation	40 CFR 63.6640 (f)(1)(iii)	Y		< 50 hours/year for non-emergency and not readiness testing	40 CFR 63.6625(f)	C	Totalizing meter
Hours of operation	BAAQMD Condition 23811, Part 1	N		50 hours/year each engine (non-emergency)	BAAQMD 9-8-530 BAAQMD Condition 23811, Part 3	C	Totalizing meter
					BAAQMD 9-8-502.1 & 9-8-530 BAAQMD Condition 23811, Part 4	M	Records
NMHC + NOx	40 CFR 60.4205(b)	Y		4.77 g/bhp-hr	40 CFR 60.4211(a)	C	Operate and maintain per mfg instructions
CO	40 CFR 60.4205(b)	Y		2.61 g/bhp-hr	40 CFR 60.4211(a)	C	Operate and maintain per mfg instructions
PM	40 CFR 60.4205(b)	Y		0.15 g/bhp-hr	40 CFR 60.4211(a)	C	Operate and maintain per mfg instructions

**VII. Applicable Limits & Compliance Monitoring Requirements**

**SECTION C.4 COMBUSTION - PROCESS HEATERS AND FURNACES**

**Table VII – C.4.1  
 Applicable Limits and Compliance Monitoring Requirements  
 S902-FCC START UP HEATER  
 NSPS SUBPART J BY CONSENT DECREE CONDITION 23562**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
FP	BAAQMD 6-1-310	N		0.15 grain/dscf	None	N	N/A
FP	SIP 6-310	Y		0.15 grain/dscf	None	N	N/A
H2S	BAAQMD Condition 23562, Part 1 40 CFR 60.104(a)(1) 60.105(e)(3)(ii)	Y		160 ppmv, dry, 3 hour rolling average	BAAQMD Condition 23562, Part 3 40 CFR 60.105(a)(4)	C	H2S analyzer on fuel gas
H2S (100 psi fuel gas system)				No limit	BAAQMD Condition 8077 Part B4D	C	H2S analyzer on fuel gas mix pot
Visible Emissions	BAAQMD 6-1-301	N		≥ Ringelmann No. 1 for no more than 3 minutes/hour	None	N	N/A
Visible Emissions	SIP 6-301	Y		≥ Ringelmann No. 1 for no more than 3 minutes/hour	None	N	N/A
Visible Particles	BAAQMD 6-1-305	N		Prohibition of nuisance	None	N	N/A
Visible Particles	SIP 6-305	Y		Prohibition of nuisance	None	N	N/A

**VII. Applicable Limits & Compliance Monitoring Requirements**

**Table VII – C.4.2**

**Applicable Limits and Compliance Monitoring Requirements**

**S908-No. 8 FURNACE, S909-No. 9 FURNACE, S912-No. 12 FURNACE, S913-No. 13 FURNACE, S915-No. 15 FURNACE, S916-No. 16 FURNACE, S920-No. 20 FURNACE, S921-No. 21 FURNACE, S922-No. 22 FURNACE, S926-No. 26 FURNACE, S927-No. 27 FURNACE, S928-No. 28 FURNACE, S-929-No. 29 FURNACE, S930-No. 30 FURNACE, S931-No. 31 FURNACE, S932-No. 32 FURNACE, S933-No. 33 FURNACE, S934-No. 34 FURNACE, S935-No. 35 FURNACE, S937-No. 1 HYDROGEN PLANT FURNACE  
 NSPS SUBPART J BY CONSENT DECREE CONDITION 23562**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
CO	BAAQMD 9-10-305 BAAQMD Condition 18372, Part 27	N		400 ppmv (dry, 3% O <sub>2</sub> )	BAAQMD 9-10-502 BAAQMD Condition 18372, Part 18 (S927)	C	CEM
					BAAQMD 9-10-502 Condition 18372, Part 33.A.1 (S915, S928, S929, S930, S931, S932, S933)	P/Annual	Source Test
					BAAQMD 9-10-502 BAAQMD Condition 18372, Part 33.A.2 (S909, S912, S913, S916, S920, S921, S926)	P/ Twice per year	Source Test
					BAAQMD 9-10-502 BAAQMD Condition 18372, Part 34 (S908, S922, S934, S935, S937)	P/ Semi-annual	Source Test

**VII. Applicable Limits & Compliance Monitoring Requirements**

**Table VII – C.4.2**

**Applicable Limits and Compliance Monitoring Requirements**

**S908-No. 8 FURNACE, S909-No. 9 FURNACE, S912-No. 12 FURNACE, S913-No. 13 FURNACE, S915-No. 15 FURNACE, S916-No. 16 FURNACE, S920-No. 20 FURNACE, S921-No. 21 FURNACE, S922-No. 22 FURNACE, S926-No. 26 FURNACE, S927-No. 27 FURNACE, S928-No. 28 FURNACE, S-929-No. 29 FURNACE, S930-No. 30 FURNACE, S931-No. 31 FURNACE, S932-No. 32 FURNACE, S933-No. 33 FURNACE, S934-No. 34 FURNACE, S935-No. 35 FURNACE, S937-No. 1 HYDROGEN PLANT FURNACE  
 NSPS SUBPART J BY CONSENT DECREE CONDITION 23562**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
CO	BAAQMD Condition 8077, Part B7A (S908)	Y		50 ppmvd/ 3-hr avg. corrected to 3% O2)	BAAQMD 9-10-502 BAAQMD Condition 18372, Part 34 (S908)	P/ Semi-annual	Source Test
FP	BAAQMD 6-1-310	N		0.15 grain/dscf	None	N	N/A
FP	SIP 6-310	Y		0.15 grain/dscf	None	N	N/A
FP	BAAQMD 6-1-310.3	N		0.15 grain/dscf @ 6% O2	None	N	N/A
FP	SIP 6-310.3	N		0.15 grain/dscf @ 6% O2	None	N	N/A
Firing Rate (S908)	BAAQMD Condition 18539, Part 18A	Y		1,927,200 MMBtu, consecutive 365-day period	BAAQMD 9-10-502.2	C	Fuel Flowmeter
Firing Rate (S908)	BAAQMD Condition 25476, Part 5	Y		220MM Btu/hr of firing, on a calendar day basis, and 1,927,200 MMBtu/yr	BAAQMD 9-10-502.2	C	Fuel Flowmeter
Firing Rate (S909)	BAAQMD Condition 25161, Part 1	Y		1,036,600 MMBtu, consecutive 365-day period	BAAQMD 9-10-502.2	C	Fuel Flowmeter
Firing Rate (S909)	BAAQMD Condition 25161, Part 2	Y		3,168 MMBtu, calendar day period	BAAQMD 9-10-502.2	C	Fuel Flowmeter



**VII. Applicable Limits & Compliance Monitoring Requirements**

**Table VII – C.4.2**

**Applicable Limits and Compliance Monitoring Requirements**

**S908-No. 8 FURNACE, S909-No. 9 FURNACE, S912-No. 12 FURNACE, S913-No. 13 FURNACE, S915-No. 15 FURNACE, S916-No. 16 FURNACE, S920-No. 20 FURNACE, S921-No. 21 FURNACE, S922-No. 22 FURNACE, S926-No. 26 FURNACE, S927-No. 27 FURNACE, S928-No. 28 FURNACE, S-929-No. 29 FURNACE, S930-No. 30 FURNACE, S931-No. 31 FURNACE, S932-No. 32 FURNACE, S933-No. 33 FURNACE, S934-No. 34 FURNACE, S935-No. 35 FURNACE, S937-No. 1 HYDROGEN PLANT FURNACE  
 NSPS SUBPART J BY CONSENT DECREE CONDITION 23562**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit			Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Firing Rate	Title V Permit Table IIA,\  BAAQMD Condition 16685, Part 1	Y		S-	MM Btu/hr	MM Btu/day	BAAQMD 9-10-502.2	C	Fuel Flowmeter
				908	220	5,280			
				909	145	3,480			
				912	135	3,240			
				913	59	1,416			
				915	50	1,200			
				916	55	1,320			
				920	63	1,512			
				921	63	1,512			
				922	130	3,120			
				926	130	3,120			
				927	280	6,720			
				928	20	480			
				929	20	480			
				930	20	480			
				931	20	480			
932	20	480							
933	20	480							
934	135	3,240							
935	135	3,240							
937	743	17,832							
Firing Rate (S912)	BAAQMD Condition 25161, Part 1	Y		1,162,608 MMBtu, consecutive 365-day period			BAAQMD 9-10-502.2	C	Fuel Flowmeter

**VII. Applicable Limits & Compliance Monitoring Requirements**

**Table VII – C.4.2**

**Applicable Limits and Compliance Monitoring Requirements**

**S908-NO. 8 FURNACE, S909-NO. 9 FURNACE, S912-NO. 12 FURNACE, S913-NO. 13 FURNACE, S915-NO. 15 FURNACE, S916-NO. 16 FURNACE, S920-NO. 20 FURNACE, S921-NO. 21 FURNACE, S922-NO. 22 FURNACE, S926-NO. 26 FURNACE, S927-NO. 27 FURNACE, S928-NO. 28 FURNACE, S-929-NO. 29 FURNACE, S930-NO. 30 FURNACE, S931-NO. 31 FURNACE, S932-NO. 32 FURNACE, S933-NO. 33 FURNACE, S934-NO. 34 FURNACE, S935-NO. 35 FURNACE, S937-NO. 1 HYDROGEN PLANT FURNACE  
 NSPS SUBPART J BY CONSENT DECREE CONDITION 23562**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Firing Rate (S912)	BAAQMD Condition 25161, Part 2	Y		3,420 MMBtu, calendar day period	BAAQMD 9-10-502.2	C	Fuel Flowmeter
Firing Rate (S915)	BAAQMD Condition 8350, Part C5	Y		438,000 MMBtu/yr	BAAQMD 9-10-502.2	C	Fuel Flowmeter
Firing Rate (S915)	BAAQMD Condition 8350, Part C5	Y		50 MMBtu/hr, on a calendar day basis	BAAQMD 9-10-502.2	C	Fuel Flowmeter
Firing Rate (S916)	BAAQMD Condition 8350, Part A5	Y		481,800 MMBtu/yr	BAAQMD 9-10-502.2	C	Fuel Flowmeter
Firing Rate (S916)	BAAQMD Condition 8350, Part A5	Y		55 MMBtu/hr, on a calendar day basis	BAAQMD 9-10-502.2	C	Fuel Flowmeter
Firing Rate (S920)	BAAQMD Condition 8350, Part B6	Y		551,880 MMBtu/yr	BAAQMD 9-10-502.2	C	Fuel Flowmeter
Firing Rate (S920)	BAAQMD Condition 8350, Part B6	Y		63 MMBtu/hr, on a calendar day basis	BAAQMD 9-10-502.2	C	Fuel Flowmeter

**VII. Applicable Limits & Compliance Monitoring Requirements**

**Table VII – C.4.2**

**Applicable Limits and Compliance Monitoring Requirements**

**S908-No. 8 FURNACE, S909-No. 9 FURNACE, S912-No. 12 FURNACE, S913-No. 13 FURNACE, S915-No. 15 FURNACE, S916-No. 16 FURNACE, S920-No. 20 FURNACE, S921-No. 21 FURNACE, S922-No. 22 FURNACE, S926-No. 26 FURNACE, S927-No. 27 FURNACE, S928-No. 28 FURNACE, S-929-No. 29 FURNACE, S930-No. 30 FURNACE, S931-No. 31 FURNACE, S932-No. 32 FURNACE, S933-No. 33 FURNACE, S934-No. 34 FURNACE, S935-No. 35 FURNACE, S937-No. 1 HYDROGEN PLANT FURNACE  
 NSPS SUBPART J BY CONSENT DECREE CONDITION 23562**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Firing Rate (S921)	BAAQMD Condition 8350, Part B7	Y		551,880 MMBtu/yr	BAAQMD 9-10-502.2	C	Fuel Flowmeter
Firing Rate (S921)	BAAQMD Condition 8350, Part B7	Y		63 MMBtu/hr, on a calendar day basis	BAAQMD 9-10-502.2	C	Fuel Flowmeter
Firing Rate (S926)	BAAQMD Condition 25476, Part 6	Y		1,138,800 MMBtu/yr	BAAQMD 9-10-502.2	C	Fuel Flowmeter
Firing Rate (S926)	BAAQMD Condition 25476, Part 6	Y		130 MMBtu/hr of firing, on a calendar day basis	BAAQMD 9-10-502.2	C	Fuel Flowmeter
Firing Rate (S928 through S933)	BAAQMD Condition 8077, Part C3	Y		175,200 MMBtu/yr	BAAQMD 9-10-502.2	C	Fuel Flowmeter
Firing Rate (S928 through S933)	BAAQMD Condition 8077, Part C3	Y		20 MMBtu/hr of firing, on a calendar day basis	BAAQMD 9-10-502.2	C	Fuel Flowmeter

**VII. Applicable Limits & Compliance Monitoring Requirements**

**Table VII – C.4.2**

**Applicable Limits and Compliance Monitoring Requirements**

**S908-No. 8 FURNACE, S909-No. 9 FURNACE, S912-No. 12 FURNACE, S913-No. 13 FURNACE, S915-No. 15 FURNACE, S916-No. 16 FURNACE, S920-No. 20 FURNACE, S921-No. 21 FURNACE, S922-No. 22 FURNACE, S926-No. 26 FURNACE, S927-No. 27 FURNACE, S928-No. 28 FURNACE, S-929-No. 29 FURNACE, S930-No. 30 FURNACE, S931-No. 31 FURNACE, S932-No. 32 FURNACE, S933-No. 33 FURNACE, S934-No. 34 FURNACE, S935-No. 35 FURNACE, S937-No. 1 HYDROGEN PLANT FURNACE  
 NSPS SUBPART J BY CONSENT DECREE CONDITION 23562**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Firing Rate (S934 and S935)	BAAQMD Condition 8077, Part C4	Y		1,182,600 MMBtu/yr	BAAQMD 9-10-502.2	C	Fuel Flowmeter
Firing Rate (S934 and S935)	BAAQMD Condition 8077, Part C4	Y		135 MMBtu/hr of firing, on a calendar day basis	BAAQMD 9-10-502.2	C	Fuel Flowmeter
Fuel Flow (S909, S912, S913, S916, S920, S921, S928 to S933)		N		No limit	BAAQMD Condition 8077, Part B4C	C	Fuel Flow meter
Fuel Flow (all)		N		No limit	BAAQMD Condition 8077, Part B4D	C	Fuel flow meter
H2S [in fuel gas]	BAAQMD Condition 23562, Part 1 40 CFR 60.104(a)(1) 60.105(e)(3) (ii)	Y		160 ppmv, dry, 3 hour rolling average	BAAQMD Condition 23562, Part 3 40 CFR 60.105(a)(4)	C	CEM

**VII. Applicable Limits & Compliance Monitoring Requirements**

**Table VII – C.4.2**

**Applicable Limits and Compliance Monitoring Requirements**

**S908-No. 8 FURNACE, S909-No. 9 FURNACE, S912-No. 12 FURNACE, S913-No. 13 FURNACE, S915-No. 15 FURNACE, S916-No. 16 FURNACE, S920-No. 20 FURNACE, S921-No. 21 FURNACE, S922-No. 22 FURNACE, S926-No. 26 FURNACE, S927-No. 27 FURNACE, S928-No. 28 FURNACE, S-929-No. 29 FURNACE, S930-No. 30 FURNACE, S931-No. 31 FURNACE, S932-No. 32 FURNACE, S933-No. 33 FURNACE, S934-No. 34 FURNACE, S935-No. 35 FURNACE, S937-No. 1 HYDROGEN PLANT FURNACE  
 NSPS SUBPART J BY CONSENT DECREE CONDITION 23562**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
H2S (100 psi fuel gas system)				No limit	BAAQMD Condition 8077 Part B4D	C	H2S analyzer on 100 psi fuel gas mix pot
NH3 slip (S908)	BAAQMD Condition 18539, Part 16	Y		20 ppmv, dry, corrected to 3% O2, 3-hr average	BAAQMD Condition 18539, Part 16	P/Annual	Source Test
NH3 slip (S927)	BAAQMD Condition 18372, Part 22	Y		20 ppmv, dry, corrected to 3% O2	None	N	N/A
NOx	BAAQMD 9-10-301 BAAQMD Condition 18372, Part 27	Y		Refinery-wide emissions (excluding CO Boilers): 0.033 lb NOx/ MMBTU	(S909, S912, S913, S915, S916, S920, S921, S926, S928, S929, S930, S931, S932, S933) BAAQMD Condition 18372, Part 33.A.2	P/ Twice per year	Source Test
					(S908, S922, S927, S934, S935, S937) BAAQMD Condition 18372, Part 27	C	CEM

**VII. Applicable Limits & Compliance Monitoring Requirements**

**Table VII – C.4.2**

**Applicable Limits and Compliance Monitoring Requirements**

**S908-No. 8 FURNACE, S909-No. 9 FURNACE, S912-No. 12 FURNACE, S913-No. 13 FURNACE, S915-No. 15 FURNACE, S916-No. 16 FURNACE, S920-No. 20 FURNACE, S921-No. 21 FURNACE, S922-No. 22 FURNACE, S926-No. 26 FURNACE, S927-No. 27 FURNACE, S928-No. 28 FURNACE, S-929-No. 29 FURNACE, S930-No. 30 FURNACE, S931-No. 31 FURNACE, S932-No. 32 FURNACE, S933-No. 33 FURNACE, S934-No. 34 FURNACE, S935-No. 35 FURNACE, S937-No. 1 HYDROGEN PLANT FURNACE  
 NSPS SUBPART J BY CONSENT DECREE CONDITION 23562**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NOx	BAAQMD 9-10-303 BAAQMD Condition 18372, Part 27	Y		Federal interim emissions: Refinery-wide emissions (excluding CO Boilers): 0.20 lb NOx/MMBTU	(S909, S912, S913, S915, S916, S920, S921, S926, S928, S929, S930, S931, S933, S932) BAAQMD Condition 18372, Part 33.A.2	P/ Twice per year	Source Test
					(S908, S922, S927, S934, S935, S937) BAAQMD Condition 18372, Part 27	C	CEM
NOx (S937)	BAAQMD Condition 677, Part 1	Y		1430 lbs/stream day or 1089 lbs/calendar day	BAAQMD Condition 677, Part 2	C	CEM
NOx (S908)	BAAQMD Condition 8077, Part B7A	Y		10 ppmvd/ 3-hr avg. corrected to 3% O2	BAAQMD Condition 8077, Part B4B	C	CEM
NOx (S922, S934, S935)	BAAQMD Condition 8077, Part B7A	Y		60 ppmvd/ 8-hr avg. corrected to 3% O2	BAAQMD Condition 8077, Part B4B	C	CEM

**VII. Applicable Limits & Compliance Monitoring Requirements**

**Table VII – C.4.2**

**Applicable Limits and Compliance Monitoring Requirements**

**S908-No. 8 FURNACE, S909-No. 9 FURNACE, S912-No. 12 FURNACE, S913-No. 13 FURNACE, S915-No. 15 FURNACE, S916-No. 16 FURNACE, S920-No. 20 FURNACE, S921-No. 21 FURNACE, S922-No. 22 FURNACE, S926-No. 26 FURNACE, S927-No. 27 FURNACE, S928-No. 28 FURNACE, S-929-No. 29 FURNACE, S930-No. 30 FURNACE, S931-No. 31 FURNACE, S932-No. 32 FURNACE, S933-No. 33 FURNACE, S934-No. 34 FURNACE, S935-No. 35 FURNACE, S937-No. 1 HYDROGEN PLANT FURNACE  
 NSPS SUBPART J BY CONSENT DECREE CONDITION 23562**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NOx	BAAQMD Condition 18372, Part 3	N		Operate within specified NOx box	Condition 18372, Part 32	P/E (on NOx box deviation)	Source Test
O2		N		No limit	BAAQMD 9-10-502.1 BAAQMD Condition 18372, Part 28	C	CEM
O2 (S908, S922, S934, S935)	None	Y		No limit	BAAQMD Condition 8077, Parts B4B, B4D	C	CEM
O2 (S909, S912, S913, S916, S920, S921, S928 to S933)	None	Y		No limit	BAAQMD Condition 8077, Parts B4C, B4D	C	CEM
TRS (S916)	BAAQMD Condition 21186, Part 3	Y		300 ppmvd	BAAQMD Condition 21186, Part 1	P/ Each day	TRS Sample

**VII. Applicable Limits & Compliance Monitoring Requirements**

**Table VII – C.4.2**

**Applicable Limits and Compliance Monitoring Requirements**

**S908-No. 8 FURNACE, S909-No. 9 FURNACE, S912-No. 12 FURNACE, S913-No. 13 FURNACE, S915-No. 15 FURNACE, S916-No. 16 FURNACE, S920-No. 20 FURNACE, S921-No. 21 FURNACE, S922-No. 22 FURNACE, S926-No. 26 FURNACE, S927-No. 27 FURNACE, S928-No. 28 FURNACE, S-929-No. 29 FURNACE, S930-No. 30 FURNACE, S931-No. 31 FURNACE, S932-No. 32 FURNACE, S933-No. 33 FURNACE, S934-No. 34 FURNACE, S935-No. 35 FURNACE, S937-No. 1 HYDROGEN PLANT FURNACE  
 NSPS SUBPART J BY CONSENT DECREE CONDITION 23562**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
TRS (S916)	BAAQMD Condition 21186, Part 4	Y		281 ppmvd, annual average	BAAQMD Condition 21186, Part 1	P/ Each day	TRS Sample
TRS (S913)		Y		No Limit	BAAQMD Condition 22621, Part 7	P/ Each day	TRS Sample
Visible Emissions	BAAQMD 6-1-301	N		≥ Ringelmann No. 1 for no more than 3 minutes/hour	None	N	N/A
Visible Emissions	SIP 6-301	Y		≥ Ringelmann No. 1 for no more than 3 minutes/hour	None	N	N/A
Visible Particles	BAAQMD 6-1-305	N		Prohibition of nuisance	None	N	N/A
Visible Particles	SIP 6-1-305	Y		Prohibition of nuisance	None	N	N/A
VOC S908, S909, S912 Only	BAAQMD Condition 13605, Part 3 BAAQMD Condition 21053, Part 3 BAAQMD Condition 21100, Part 2	Y		99.5% abatement efficiency	BAAQMD Condition 13605, Part 4 BAAQMD Condition 21053, Part 4 BAAQMD Condition 21100, Part 4	P/5 years	Source Tests



**VII. Applicable Limits & Compliance Monitoring Requirements**

**Table VII – C.4.2**

**Applicable Limits and Compliance Monitoring Requirements**

**S908-No. 8 FURNACE, S909-No. 9 FURNACE, S912-No. 12 FURNACE, S913-No. 13 FURNACE, S915-No. 15 FURNACE, S916-No. 16 FURNACE, S920-No. 20 FURNACE, S921-No. 21 FURNACE, S922-No. 22 FURNACE, S926-No. 26 FURNACE, S927-No. 27 FURNACE, S928-No. 28 FURNACE, S-929-No. 29 FURNACE, S930-No. 30 FURNACE, S931-No. 31 FURNACE, S932-No. 32 FURNACE, S933-No. 33 FURNACE, S934-No. 34 FURNACE, S935-No. 35 FURNACE, S937-No. 1 HYDROGEN PLANT FURNACE  
 NSPS SUBPART J BY CONSENT DECREE CONDITION 23562**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC S908, S909, S912 Only	BAAQMD Condition 20099, Part 4	Y		98% abatement efficiency	BAAQMD Condition 20099, Part 6	P/5 years	Source Tests
POC S908, S909, S912 Only	BAAQMD Condition 21849, Part 11	Y		0.08 lb POC per gallon loaded at S-1025	BAAQMD Condition 21849, Part 11d	P/5 years	Source Tests

**VII. Applicable Limits & Compliance Monitoring Requirements**

**Table VII – C.4.3  
 Applicable Limits and Compliance Monitoring Requirements  
 S917 No. 17 FURNACE, S919 No. 19 FURNACE, S951 No. 51 FURNACE, S973–No. 55  
 FURNACE, S974–No. 56 FURNACE  
 NSPS SUBPART J BY DATE OF CONSTRUCTION, RECONSTRUCTION, MODIFICATION**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
CO	BAAQMD 9-10-305 BAAQMD Condition 18372, Part 27	N		400 ppmv (dry, 3% O2)	BAAQMD 9-10-502 BAAQMD Condition 18372, Part 33.A.1 (S917)	P/ Annual	Source Test
					BAAQMD 9-10-502 BAAQMD Condition 18372, Part 33.A.2 (S919, S951)	P/ Twice per Consecutive 12-month period	Source Test
					BAAQMD 9-10-502 BAAQMD Condition 18372, Part 34 (S973, S974)	P/ Semi-annual	Source Test
FP	BAAQMD 6-1-310	N		0.15 grain/dscf	None	N	N/A
FP	BAAQMD 6-1-310.3	N		0.15 grain/dscf @ 6% O2	None	N	N/A
FP	SIP 6-310	Y		0.15 grain/dscf	None	N	N/A
FP	SIP 6-310.3	N		0.15 grain/dscf @ 6% O2	None	N	N/A

**VII. Applicable Limits & Compliance Monitoring Requirements**

**Table VII – C.4.3  
 Applicable Limits and Compliance Monitoring Requirements  
 S917 NO. 17 FURNACE, S919 NO. 19 FURNACE, S951 NO. 51 FURNACE, S973–NO. 55  
 FURNACE, S974–NO. 56 FURNACE  
 NSPS SUBPART J BY DATE OF CONSTRUCTION, RECONSTRUCTION, MODIFICATION**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit			Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
				S-#	MM Btu/hr	MM Btu/day			
Firing Rate	Title V Permit Table IIA, BAAQMD Condition 16685, Part 1	Y		917	18	432	BAAQMD 9-10-502.2	C	Fuel Flowmeter
				919	111	2,664			
				951	30	720			
				973	110	2,640			
				974	55	1,320			
Firing Rate (S917)	BAAQMD Condition 8350, Part A6	Y		157,680 MMBtu/yr			BAAQMD 9-10-502.2	C	Fuel Flowmeter
Firing Rate (S917)	BAAQMD Condition 8350, Part A6	Y		18 MMBtu/hr, on a calendar day basis			BAAQMD 9-10-502.2	C	Fuel Flowmeter
Firing Rate (S919)	BAAQMD Condition 8350, Part B5	Y		972,360 MMBtu/yr			BAAQMD 9-10-502.2	C	Fuel Flowmeter
Firing Rate (S919)	BAAQMD Condition 8350, Part B5	Y		111 MMBtu/hr, on a calendar day basis			BAAQMD 9-10-502.2	C	Fuel Flowmeter
Firing Rate (S973, S974)	BAAQMD Condition 8077, Part B7B	Y		123 MMBTU/hr (sum of firing rates)			BAAQMD 9-10-502.2	C	Fuel Flowmeter
Fuel Flow (all)	None	Y		No limit			BAAQMD Condition 8077, Part B4D	C	Fuel flow meter

**VII. Applicable Limits & Compliance Monitoring Requirements**

**Table VII – C.4.3  
 Applicable Limits and Compliance Monitoring Requirements  
 S917 NO. 17 FURNACE, S919 NO. 19 FURNACE, S951 NO. 51 FURNACE, S973–No. 55  
 FURNACE, S974–No. 56 FURNACE  
 NSPS SUBPART J BY DATE OF CONSTRUCTION, RECONSTRUCTION, MODIFICATION**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
H2S	40 CFR 60.104(a)(1) 60.105(e)(3)(ii)	Y		160 ppmv, dry, 3 hour rolling average	40 CFR 60.105(a)(4)	C	CEM
H2S (100 psi fuel gas system)	Condition 8077 Part B4A	Y		160 ppmv, dry, 3 hour rolling average	BAAQMD Condition 8077 Parts B4A, B4D	C	H2S analyzer on 100 psi fuel gas mix pot
NOx	BAAQMD 9-10-301	N		Refinery-wide emissions (excluding CO Boilers): 0.033 lb NOx/ MMBTU	BAAQMD 9-10-502 BAAQMD Condition 8077, Parts B4B, B4D (S973, S974)	C	CEM
					BAAQMD 9-10-502 BAAQMD Condition 18372, Part 33.A.1 (S917)	P/Annual	Source Test
					BAAQMD 9-10-502 BAAQMD Condition 18372, Part 33.A.2 (S919, S951)	P/ Twice per consecutive 12-month period	Source Test

**VII. Applicable Limits & Compliance Monitoring Requirements**

**Table VII – C.4.3  
 Applicable Limits and Compliance Monitoring Requirements  
 S917 NO. 17 FURNACE, S919 NO. 19 FURNACE, S951 NO. 51 FURNACE, S973–No. 55  
 FURNACE, S974–No. 56 FURNACE  
 NSPS SUBPART J BY DATE OF CONSTRUCTION, RECONSTRUCTION, MODIFICATION**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NOx	BAAQMD 9-10-303	Y		Federal interim emissions: Refinery-wide emissions (excluding CO Boilers): 0.20 lb NOx/MMBTU	BAAQMD 9-10-502 BAAQMD Condition 8077, Part B4B (S973, S974)	C	CEM
					BAAQMD 9-10-502 BAAQMD Condition 18372, Part 33.A.1 (S917)	P/Annual	Source Test
					BAAQMD 9-10-502 BAAQMD Condition 18372, Part 33A2 (S919, S951)	P/ Twice per consecutive 12-month period	Source Test
NOx (S917, S919)	BAAQMD Condition 8077, Part B7A	Y		60 ppmvd/ 8-hr avg. corrected to 3% O2	BAAQMD Condition 8077, Part B7D (S917, S919)	P/SA	Y
NOx (S973, S974)	BAAQMD Condition 8077, Part B7A	Y		40 ppmvd/ 8-hr avg. corrected to 3% O2	BAAQMD Condition 8077, Part B4B	C	CEM
NOx	Condition 18372, Part 3	N		Operate within specified NOx box	Condition 18372, Part 32	P/E (on NOx box deviation)	Source Test

**VII. Applicable Limits & Compliance Monitoring Requirements**

**Table VII – C.4.3  
 Applicable Limits and Compliance Monitoring Requirements  
 S917 NO. 17 FURNACE, S919 NO. 19 FURNACE, S951 NO. 51 FURNACE, S973–NO. 55  
 FURNACE, S974–NO. 56 FURNACE  
 NSPS SUBPART J BY DATE OF CONSTRUCTION, RECONSTRUCTION, MODIFICATION**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
O2	None	N		No limit	BAAQMD 9-10-502.1 BAAQMD Condition 18372, Part 28	C	CEM
O2 (S973, S974)	None	Y		No limit	BAAQMD Condition 8077, Parts B4B, B4D	C	CEM
O2 (S917)	None	Y		No limit	BAAQMD Condition 8077, Parts B4C, B4D	C	CEM
O2 (S917, S919)	None	Y		No limit	BAAQMD Condition 8077, Part B4D	C	CEM
TRS (S917)	BAAQMD Condition 21186, Part 3	Y		300 ppmvd, daily	BAAQMD Condition 21186, Part 1	P/ Once per day	TRS Sample
TRS (S917)	BAAQMD Condition # 21186, Part 4	Y		281 ppmvd, annual average	BAAQMD Condition 21186, Part 1	P/ Once per day	TRS Sample
Visible Emissions	BAAQMD 6-1-301	N		≥ Ringelmann No. 1 for no more than 3 minutes/hour	None	N	N/A
Visible Emissions	SIP 6-301	Y		≥ Ringelmann No. 1 for no more than 3 minutes/hour	None	N	N/A

**VII. Applicable Limits & Compliance Monitoring Requirements**

**Table VII – C.4.3  
 Applicable Limits and Compliance Monitoring Requirements  
 S917 No. 17 FURNACE, S919 No. 19 FURNACE, S951 No. 51 FURNACE, S973–No. 55  
 FURNACE, S974–No. 56 FURNACE  
 NSPS SUBPART J BY DATE OF CONSTRUCTION, RECONSTRUCTION, MODIFICATION**

<b>Type of Limit</b>	<b>Citation of Limit</b>	<b>FE Y/N</b>	<b>Future Effective Date</b>	<b>Limit</b>	<b>Monitoring Requirement Citation</b>	<b>Monitoring Frequency (P/C/N)</b>	<b>Monitoring Type</b>
Visible Particles	BAAQMD 6-1-310	N		Prohibition of nuisance	None	N	N/A
Visible Particles	SIP 6-310	Y		Prohibition of nuisance	None	N	N/A

**VII. Applicable Limits & Compliance Monitoring Requirements**

**Table VII – C.4.4  
 Applicable Limits and Compliance Monitoring Requirements  
 S950-NO. 50 FURNACE  
 NSPS SUBPART J BY CONSENT DECREE CONDITION 23562  
 SUBJECT TO NESHAPS SUBPART FF (ABATES WASTEWATER UNIT S606, S607)**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NH3 slip	BAAQMD Condition 18372, Part 22	Y		20 ppmv, dry, corrected to 3% O2	None	N	N/A
NOx	BAAQMD 9-10-301 BAAQMD Condition 18372, Part 27	N		Refinery-wide emissions (excluding CO Boilers): 0.033 lb NOx/MMBTU	BAAQMD 9-10-502 BAAQMD Condition 18372, Part 19	C	CEM
NOx	BAAQMD 9-10-303	Y		Federal interim emissions: Refinery-wide emissions (excluding CO Boilers): 0.20 lb NOx/MMBTU	BAAQMD 9-10-502 BAAQMD Condition 18372, Part 19	C	CEM
O2		N		No limit	BAAQMD 9-10-502 BAAQMD Condition 18372, Part 19	C	CEM
O2	None	Y		No limit	BAAQMD Condition 8077, Part B4D	C	CEM
CO	BAAQMD 9-10-305	N		400 ppmv (dry, 3% O <sub>2</sub> )	BAAQMD 9-10-502 BAAQMD Condition 18372, Part 19	C	CEM



**VII. Applicable Limits & Compliance Monitoring Requirements**

**Table VII – C.4.4  
 Applicable Limits and Compliance Monitoring Requirements  
 S950-NO. 50 FURNACE  
 NSPS SUBPART J BY CONSENT DECREE CONDITION 23562  
 SUBJECT TO NESHAPS SUBPART FF (ABATES WASTEWATER UNIT S606, S607)**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
FP	BAAQMD 6-1-310	N		0.15 grain/dscf	None	N	N/A
FP	SIP 6-310	Y		0.15 grain/dscf	None	N	N/A
FP	BAAQMD 6-1-310.3	N		0.15 grain/dscf @ 6% O2	None	N	N/A
FP	SIP 6-310.3	Y		0.15 grain/dscf @ 6% O2	None	N	N/A
Firing Rate	BAAQMD Condition 25161, Part 1	Y		3,417,495 MMBtu, consecutive 365-day period	BAAQMD 9-10-502.2	C	Fuel Flowmeter
Firing Rate	BAAQMD Condition 25161, Part 2	Y		9,840 MMBtu, calendar day period	BAAQMD 9-10-502.2	C	Fuel Flowmeter
Fuel Flow	Title V Permit Table IIA	Y		440 MMBtu/hr 3,854,400 MMBtu/yr	BAAQMD 9-10-502.2	C	Fuel Flowmeter
Fuel Flow	None	Y		No limit	BAAQMD Condition 8077, Part B4D	C	Fuel flow meter
TOC	40 CFR 61.349 (a)(2)(i)(B)	Y		20 ppmv, dry, corrected to 3% O2	BAAQMD Condition 7410, Part 6	C	Temperature monitoring
VOC	BAAQMD Condition # 7410, Part 3	Y		20 ppm as C1 from S950, rolling hourly average	BAAQMD Condition 7410, Part 6	C	Temperature monitoring

**VII. Applicable Limits & Compliance Monitoring Requirements**

**Table VII – C.4.4  
 Applicable Limits and Compliance Monitoring Requirements  
 S950-No. 50 FURNACE  
 NSPS SUBPART J BY CONSENT DECREE CONDITION 23562  
 SUBJECT TO NESHAPS SUBPART FF (ABATES WASTEWATER UNIT S606, S607)**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	40 CFR 61.349 (a)(1)(i)	Y		No detectable emissions (< 500 ppmv) from closed vent system	40 CFR 61.349(a)(i)	P/ Annual	Instrument
VOC	40 CFR 61.349 (a)(2)(i)(A) 61.349 (a)(2)(ii)	Y		95 weight % reduction	BAAQMD Condition 7410, Part 6	C	Temperature monitoring
H2S (in fuel gas)	BAAQMD Condition 23562, Part 1 40 CFR 60.104 (a)(1) 60.105 (e)(3)(ii)	Y		160 ppmv, dry, 3 hour rolling average	BAAQMD Condition 23562, Part 3 40 CFR 60.105(a)(4)	C	H2S analyzer on fuel gas
H2S (100 psi fuel gas system)	None	Y		No limit	BAAQMD Condition 8077 Parts B4D	C	H2S analyzer on 100 psi fuel gas mix pot
H2S	BAAQMD Condition 7410, Part 4	Y		1 ppm from S950, rolling hourly average	BAAQMD Condition 7410, Part 6	C	Temperature monitoring
Residence Time	40 CFR 61.349(a)(2)(i)(C)	Y		0.5 seconds @ $\geq$ 760 C (1400 F)	40 CFR 61.349(c)(1) 61.356(f)(1) 61.356(f)(2)	C	Engineering Calculations and Records

**VII. Applicable Limits & Compliance Monitoring Requirements**

**Table VII – C.4.4  
 Applicable Limits and Compliance Monitoring Requirements  
 S950-NO. 50 FURNACE  
 NSPS SUBPART J BY CONSENT DECREE CONDITION 23562  
 SUBJECT TO NESHAPS SUBPART FF (ABATES WASTEWATER UNIT S606, S607)**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Temperature	BAAQMD Condition 7410, Part 5	Y		> 1500° F at S950	BAAQMD Condition 7410, Part 6	C	Temperature monitoring
Visible Emissions	BAAQMD 6-1-301	N		≥ Ringelmann No. 1 for no more than 3 minutes/hour	None	N	N/A
Visible Emissions	SIP 6-301	Y		≥ Ringelmann No. 1 for no more than 3 minutes/hour	None	N	N/A
Visible Particles	BAAQMD 6-1-310	N		Prohibition of nuisance	None	N	N/A
Visible Particles	SIP 6-310	Y		Prohibition of nuisance	None	N	N/A

**Table VII – C.4.5  
 Applicable Limits and Compliance Monitoring Requirements  
 S1412- SULFURIC ACID PLANT START-UP HEATER NSPS SUBPART J BY CONSENT DECREE CONDITION 23562**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Firing Rate	BAAQMD 9-10-112 Condition 25846 Part 2	Y		9000 MMBtu per consecutive 12-month period	BAAQMD 9-10-502.2	C	Fuel Flow Meter
FP	BAAQMD 6-1-310	N		0.15 grain/dscf	None	N	N/A
FP	SIP 6-310	Y		0.15 grain/dscf	None	N	N/A

**VII. Applicable Limits & Compliance Monitoring Requirements**

**Table VII – C.4.5  
 Applicable Limits and Compliance Monitoring Requirements  
 S1412- SULFURIC ACID PLANT START-UP HEATERS NSPS SUBPART J BY CONSENT  
 DECREE CONDITION 23562**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
FP	BAAQMD 6-1-310.3	N		0.15 grain/dscf @ 6% O2	None	N	N/A
FP	SIP 6-310.3	Y		0.15 grain/dscf @ 6% O2	None	N	N/A
Opacity	BAAQMD 6-1-301	N		Ringelmann 1 for > 3 minutes in any hour or equivalent opacity	None	N	N/A
Opacity	SIP 6-301	Y		Ringelmann 1 for > 3 minutes in any hour or equivalent opacity	None	N	N/A
H2S (in fuel gas)	BAAQMD Condition 23562, Part 1 40 CFR 60.104 (a)(1) 60.105 (e)(3)(ii)	Y		160 ppmv, dry, 3 hour rolling average	BAAQMD Condition 23562, Part 3 40 CFR 60.105(a)(4)	C	H2S analyzer on fuel gas
H2S (100 psi fuel gas system)	None			No limit	BAAQMD Condition 8077 Parts B4D	C	H2S analyzer on 100 psi fuel gas mix pot
Visible Particles	BAAQMD 6-1-305	N		Prohibition of nuisance	None	N	N/A
Visible Particles	SIP 6-305	Y		Prohibition of nuisance	None	N	N/A

**VII. Applicable Limits & Compliance Monitoring Requirements**

**TABLE VII – C.4.6  
 APPLICABLE LIMITS AND COMPLIANCE MONITORING REQUIREMENTS  
 S1106-NO. 72 FURNACE, NO. 4 HDS FEED REACTOR HEATER, S1470-NO. 71 FURNACE  
 NATURAL GAS FIRED, NOT SUBJECT TO REGULATION 9, RULE 10**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NH3 slip	BAAQMD Condition 18539, Part 16 (S1470) BAAQMD Condition 19199 Part H10 (S1106)	Y		20 ppmv (dry @ 3% O <sub>2</sub> ) avg. over any 3-hr period	None	N	N/A
NOx	BAAQMD Condition 18539, Part 10 (S1470) BAAQMD Condition 19199 Part H4 (S1106)	Y		10 ppmv (dry, 3% O <sub>2</sub> )	BAAQMD Condition 18539, Part 8 (S1470) BAAQMD Condition 19199 Part H11 (S1106)	C	CEM
O <sub>2</sub> (S1106)	No limit	Y		No limit	BAAQMD Condition 19199 Part H11	C	CEM
CO	BAAQMD Condition 18539, Part 11 (S1470) BAAQMD Condition 19199 Part H5 (S1106)	Y		50 ppmv (dry, 3% O <sub>2</sub> ), three-hour average	BAAQMD Condition 18539, Part 17A (S1470) BAAQMD Condition 19199 Part H12 (S1106)	P/A	Source test

**VII. Applicable Limits & Compliance Monitoring Requirements**

**TABLE VII – C.4.6  
 APPLICABLE LIMITS AND COMPLIANCE MONITORING REQUIREMENTS  
 S1106-NO. 72 FURNACE, NO. 4 HDS FEED REACTOR HEATER, S1470-NO. 71 FURNACE  
 NATURAL GAS FIRED, NOT SUBJECT TO REGULATION 9, RULE 10**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
FP	BAAQMD 6-1-310	N		0.15 grain/dscf	None	N	N/A
FP	SIP 6-310	Y		0.15 grain/dscf	None	N	N/A
FP	BAAQMD 6-1-310.3	N		0.15 grain/dscf @ 6% O2	None	N	N/A
FP	SIP 6-310.3	Y		0.15 grain/dscf @ 6% O2	None	N	N/A
H2S (in fuel gas)	40 CFR 60.104(a)(1) 60.105(e)(3) (ii)	Y		160 ppmv, dry, 3 hour rolling average	40 CFR 60.105(a)(4)	C	H2S analyzer on fuel gas
Fuel Flow (S1470)	BAAQMD Condition 18539, Part 9			262,800 MMBtu/ rolling, consecutive 12-month period	BAAQMD Condition 18539, Parts 2, 3A	C	Fuel flow meter and calorimeter
Fuel Flow (S1106)	BAAQMD Condition 19199 Part H0	Y		30 MMBtu/hr averaged over each calendar day	BAAQMD Condition 19199 Part H2	C	Fuel flow meter
Fuel Flow (S1106)	BAAQMD Condition 19199 Part H3	Y		225.257 MM SCF/yr	BAAQMD Condition 19199 Part H2	C	Fuel flow meter
PM10 (S1470)	BAAQMD Condition 18539, Part 13	Y		0.946 ton/ rolling consecutive 12- month period	None	N	N/A
PM10 (S1106)	BAAQMD Condition 19199 Part H7	Y		0.856 ton/ rolling consecutive 12- month period	None	N	N/A

**VII. Applicable Limits & Compliance Monitoring Requirements**

**TABLE VII – C.4.6  
 APPLICABLE LIMITS AND COMPLIANCE MONITORING REQUIREMENTS  
 S1106-NO. 72 FURNACE, NO. 4 HDS FEED REACTOR HEATER, S1470-NO. 71 FURNACE  
 NATURAL GAS FIRED, NOT SUBJECT TO REGULATION 9, RULE 10**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
POC (S1470)	BAAQMD Condition 18539, Part 12	Y		0.683 ton/ rolling consecutive 12-month period	None	N	N/A
POC (S1106)	BAAQMD Condition 19199 Part H6	Y		0.619 ton/rolling consecutive 12-month period	None	N	N/A
SO2 (S1470)	BAAQMD Condition 18539, Part 14	Y		1.793 tons/ rolling consecutive 12-month period	None	N	N/A
SO2 (S1106)	BAAQMD Condition 19199, Part H8	Y		0.068 ton/ rolling consecutive 12-month period	None	N	N/A
TRS (S1470)	BAAQMD Condition 18539, Part 4	Y		35 ppmv, rolling 365 day average when firing refinery fuel gas	BAAQMD Condition 18539, Part 6	P/ 4 times per hour	TRS Analyzer
TRS (S1470)	BAAQMD Condition 18539, Part 5	Y		100 ppmv, rolling 24 hour average when firing refinery fuel gas	BAAQMD Condition 18539, Part 6	P/ 4 times per hour	TRS Analyzer
Visible Emissions	BAAQMD 6-1-301	N		≥ Ringelmann No. 1 for no more than 3 minutes/hour	None	N	N/A
Visible Emissions	SIP 6-301	Y		≥ Ringelmann No. 1 for no more than 3 minutes/hour	None	N	N/A
Visible Particles	BAAQMD 6-1-305	N		Prohibition of nuisance	None	N	N/A
Visible Particles	SIP 6-305	Y		Prohibition of nuisance	None	N	N/A

**VII. Applicable Limits & Compliance Monitoring Requirements**

**Table VII – C.4.7  
 Applicable Limits and Compliance Monitoring Requirements  
 DELAYED COKER HEATERS  
 ABATED BY SELECTIVE CATALYTIC REDUCTION SYSTEMS  
 S-1511 ( F78 ABATED BY A-1511)  
 S-1512 ( F79 ABATED BY A-1512)**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Visible Emissions	BAAQMD 6-1-301	N		≥ Ringelmann No. 1 for no more than 3 minutes/hour	None	N	NA
Visible Emissions	SIP 6-301	Y		≥ Ringelmann No. 1 for no more than 3 minutes/hour	None	N	N/A
Visible Particles	BAAQMD 6-1-305	N		Prohibition of nuisance	None	N	NA
Visible Particles	SIP 6-305	Y		Prohibition of nuisance	None	N	N/A
FP	BAAQMD 6-1-310.3	N		0.15 grain/dscf @ 6% O <sub>2</sub>	None	N	N/A
FP	SIP 6-310.3	Y		0.15 grain/dscf @ 6% O <sub>2</sub>	None	N	N/A
TRS	Condition 23129, Part 11	Y		100 ppmv TRS in fuel gas (24 hour average)	Condition 23129, Part 19	C	CEM
TRS	Condition 23129, Part 11	Y		100 ppmv TRS in fuel gas (24 hour average)	Condition 23129, Part 26	P/E	Initial source tests (fuel gas firing only)
TRS	Condition 23129, Part 11	Y		35 ppmv TRS in fuel gas (365 day average)	Condition 23129, Part 19	C	CEM
Total Sulfur	Condition 23129, Parts 15, 16	Y		1.0 gr/100 scf in natural gas	Condition 23129, Parts 15, 16	None	Records
SAM	Condition 23129, Part 17 BAAQMD 2-2-306	Y		38 lb/day (annual average)	Condition 23129, Part 26	P/E	Initial source tests (fuel gas firing only)



## VII. Applicable Limits & Compliance Monitoring Requirements

**Table VII – C.4.7**  
**Applicable Limits and Compliance Monitoring Requirements**  
**DELAYED COKER HEATERS**  
**ABATED BY SELECTIVE CATALYTIC REDUCTION SYSTEMS**  
**S-1511 ( F78 ABATED BY A-1511)**  
**S-1512 ( F79 ABATED BY A-1512)**

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 #23129, Part 18 40 CFR 60.104(a)(1)	Y		230 mg/dscm (0.10 gr/dscf) or 160 ppmvd (3-hour rolling average) in fuel gas	Condition #23129, Part 19 40 CFR 60.105(a)(4)	C	CEM
NOx	Condition 23129, Part 12	Y		7 ppmvd NOx (calculated as NO <sub>2</sub> ) @ 3% O <sub>2</sub> (3-hour average)	Condition 23129, Part 21	C	CEM
NOx	Condition 23129, Part 12	Y		7 ppmvd NOx (calculated as NO <sub>2</sub> ) @ 3% O <sub>2</sub> (3-hour average)	Condition 23129, Part 26	P/E	Initial source tests
NOx	Condition 23129, Part 12a	Y		50 ppmvd NOx (calculated as NO <sub>2</sub> ) @ 3% O <sub>2</sub> (3-hour average) During Startup, Shutdown, Malfunctions not to exceed 144 hours in consecutive 12 months	Condition 23129, Part 21	C	CEM
CO	Condition 23129, Part 12	Y		35 ppmvd CO @ 3% O <sub>2</sub> (3-hour average)	Condition 23129, Part 22	C	CEM
CO	Condition 23129, Part 12	Y		35 ppmvd CO @ 3% O <sub>2</sub> (3-hour average)	Condition 23129, Part 26	P/E	Initial source tests
CO	Condition 23129, Part 12a	Y		400 ppmvd CO @ 3% O <sub>2</sub> (3-hour average) During Startup, Shutdown, Malfunctions not to exceed 144 hours in consecutive 12 months	Condition 23129, Part 22	C	CEM

**VII. Applicable Limits & Compliance Monitoring Requirements**

**Table VII – C.4.7  
 Applicable Limits and Compliance Monitoring Requirements  
 DELAYED COKER HEATERS  
 ABATED BY SELECTIVE CATALYTIC REDUCTION SYSTEMS  
 S-1511 ( F78 ABATED BY A-1511)  
 S-1512 ( F79 ABATED BY A-1512)**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
CO	Condition 23129, Part 12b	Y		50 ppmvd CO @ 3% O <sub>2</sub> (3-hour average) For 100 days per consecutive 12 month period	Condition 23129, Part 22	C	CEM
O2	None	Y		No limit	Condition 23129, Part 23	C	CEM
NH3 slip	Condition 23129, Part 13	Y		10 ppmvd @ 3% O <sub>2</sub> (3 hour average)	Condition 23129, Part 26	P/E	Initial Source Tests
Through put	Condition 23129, Part 14	Y		2,014,800 MMBtu/year	Condition 23129, Parts 24 & 25	C	Fuel flow meter and calorimeter

**VII. Applicable Limits & Compliance Monitoring Requirements**

**Table VII – C.4.8  
 Applicable Limits and Compliance Monitoring Requirements  
 S971–No. 53 FURNACE, S972–No. 54 FURNACE,  
 NSPS SUBPART JA BY DATE OF CONSTRUCTION, RECONSTRUCTION, MODIFICATION**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type									
CO	BAAQMD 9-10-305 BAAQMD Condition 18372, Part 27	N		400 ppmv (dry, 3% O2)	BAAQMD 9-10-502 BAAQMD Condition 18372, Part 20	C	CEM									
FP	BAAQMD 6-1-310	N		0.15 grain/dscf	None	N	N/A									
FP	BAAQMD 6-1-310.3	N		0.15 grain/dscf @ 6% O2	None	N	N/A									
FP	SIP 6-310	Y		0.15 grain/dscf	None	N	N/A									
FP	SIP 6-310.3	N		0.15 grain/dscf @ 6% O2	None	N	N/A									
Firing Rate	BAAQMD Conditions 16685, Part 1 25476, Part 3 and Part 4	Y		<table border="1"> <tr> <td>S-#</td> <td>MM Btu/hr</td> <td>MM Btu/day</td> </tr> <tr> <td>971</td> <td>300</td> <td>7,200</td> </tr> <tr> <td>972</td> <td>45</td> <td>1,080</td> </tr> </table>	S-#	MM Btu/hr	MM Btu/day	971	300	7,200	972	45	1,080	BAAQMD 9-10-502.2	C	Fuel Flowmeter
S-#	MM Btu/hr	MM Btu/day														
971	300	7,200														
972	45	1,080														
Firing Rate	BAAQMD Conditions 25476, Part 3 and Part 4	Y		<table border="1"> <tr> <td>S-#</td> <td>MM Btu/rolling 12-mo</td> </tr> <tr> <td>971</td> <td>2,628,000</td> </tr> <tr> <td>972</td> <td>394,200</td> </tr> </table>	S-#	MM Btu/rolling 12-mo	971	2,628,000	972	394,200	BAAQMD 9-10-502.2	C	Fuel Flowmeter			
S-#	MM Btu/rolling 12-mo															
971	2,628,000															
972	394,200															
Fuel Flow	None	Y		No limit	BAAQMD Condition 8077, Part B4D	C	Fuel flow meter									
PM10	BAAQMD Condition 25476, Part 9	Y		<table border="1"> <tr> <td>S-#</td> <td>tons/rolling 12-mo</td> </tr> <tr> <td>971</td> <td>2.444</td> </tr> <tr> <td>972</td> <td>0.367</td> </tr> </table>	S-#	tons/rolling 12-mo	971	2.444	972	0.367	BAAQMD Condition 25476, Parts 26, 27	P/A, and if no excesses, P/5 years	Source Test, Calculation			
S-#	tons/rolling 12-mo															
971	2.444															
972	0.367															

**VII. Applicable Limits & Compliance Monitoring Requirements**

**Table VII – C.4.8  
 Applicable Limits and Compliance Monitoring Requirements  
 S971–No. 53 FURNACE, S972–No. 54 FURNACE,  
 NSPS SUBPART JA BY DATE OF CONSTRUCTION, RECONSTRUCTION, MODIFICATION**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit		Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
				S-#	tons/rolling 12-mo			
POC	BAAQMD Condition 25476, Part 8	Y		971	7.085	BAAQMD Condition 25476, Parts 26, 27	P/A, and if no excesses, P/5 years	Source Test, Calculation
				972	1.063			
H2S	40 CFR 60.102a(g)(1)(ii)	Y		162 ppmv, 3 hour rolling average		60.107a(a)(2)	C	CEM
H2S	40 CFR 60.102a(g)(1)(ii)	Y		60 ppmv, 365-day rolling average		60.107a(a)(2)	C	CEM
H2S (100 psi fuel gas system)	Condition 8077 Part B4A	Y		160 ppmv, dry, 3 hour rolling average		BAAQMD Condition 8077 Parts B4A, B4D	C	H2S analyzer on 100 psi fuel gas mix pot
NH3 slip (S971)	BAAQMD Conditions 18372, Part 22 and 25476 Part 21	Y		20 ppmv, dry, corrected to 3% O2		BAAQMD Condition 25476 Part 25	P/A	Source Test
NOx (S-971)	BAAQMD 9-10-301	N		Refinery-wide emissions (excluding CO Boilers): 0.033 lb NOx/ MMBTU		BAAQMD 9-10-502 BAAQMD Condition 18372, Part 20	C	CEM
NOx (S-971)	BAAQMD Condition 25476 Part 10	Y		166 lbs/calendar day		BAAQMD Condition 25476 Part 27	P/A, and if no excesses, P/5 years	Source Test, Calculation
NOx (S-972)	BAAQMD Condition 25476 Part 11	Y		26.9 lbs/calendar day		BAAQMD Condition 25476 Part 26	P/A, and if no excesses, P/5 years	Source Test

**VII. Applicable Limits & Compliance Monitoring Requirements**

**Table VII – C.4.8  
 Applicable Limits and Compliance Monitoring Requirements  
 S971–No. 53 FURNACE, S972–No. 54 FURNACE,  
 NSPS SUBPART JA BY DATE OF CONSTRUCTION, RECONSTRUCTION, MODIFICATION**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NOx (S-971)	BAAQMD Condition 25476 Part 10	Y		30.353 tons/rolling consecutive 12-months	BAAQMD Condition 25476 Part 27	P/A, and if no excesses, P/5 years	Source Test, Calculation
NOx (S-972)	BAAQMD Condition 25476 Part 11	Y		4.914 tons/rolling consecutive 12-months	BAAQMD Condition 25476 Part 26	P/A, and if no excesses, P/5 years	Source Test
NOx (S-971)	BAAQMD 9-10-303	Y		Federal interim emissions: Refinery-wide emissions (excluding CO Boilers): 0.20 lb NOx/MMBTU	BAAQMD 9-10-502 BAAQMD Condition 18372, Part 20	C	CEM
NOx (S-972)	BAAQMD 9-10-303	Y		Federal interim emissions: Refinery-wide emissions (excluding CO Boilers): 0.20 lb NOx/MMBTU	BAAQMD Condition 25476 Part 26	P/A, and if no excesses, P/5 years	Source Test
NOx (S971, S972)	BAAQMD Condition 8077, Part B7A	Y		75 ppmvd/ 8-hr avg. corrected to 3% O2	BAAQMD Condition 18372, Part 20	C	CEM
O2	None	N		No limit	BAAQMD 9-10-502.1 BAAQMD Condition 18372, Part 28	C	CEM
Visible Emissions	BAAQMD 6-1-301	N		≥ Ringelmann No. 1 for no more than 3 minutes/hour	None	N	N/A
Visible Emissions	SIP 6-301	Y		≥ Ringelmann No. 1 for no more than 3 minutes/hour	None	N	N/A

**VII. Applicable Limits & Compliance Monitoring Requirements**

**Table VII – C.4.8  
 Applicable Limits and Compliance Monitoring Requirements  
 S971–No. 53 FURNACE, S972–No. 54 FURNACE,  
 NSPS SUBPART JA BY DATE OF CONSTRUCTION, RECONSTRUCTION, MODIFICATION**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Visible Particles	BAAQMD 6-1-310	N		Prohibition of nuisance	None	N	N/A
Visible Particles	SIP 6-310	Y		Prohibition of nuisance	None	N	N/A

**VII. Applicable Limits & Compliance Monitoring Requirements**

**SECTION C.5 COMBUSTION – GAS TURBINES**

**Table VII – C.5.1 Combustion  
 Applicable Limits and Compliance Monitoring Requirements  
 S963 - ALKYLATION PLANT GAS TURBINE 177**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
FP	BAAQMD 6-1-310	N		0.15 grain/dscf	None	N	N/A
FP	SIP 6-310	Y		0.15 grain/dscf	None	N	N/A
Fuel flow	None			No Limit	BAAQMD Condition 8077, Part B4D	C	Natural gas meter
Fuel flow (CAM)	None			No Limit	BAAQMD Condition 19528, Part 21	C	Natural gas meter
NOx	SIP 9-9-301.1	Y		42 ppmv @ 15% O <sub>2</sub> (dry) for natural gas,	BAAQMD Condition 19528, Part 19	P/A	Source Test
NOx	BAAQMD 9-9-301.1.1	N		42 ppmv @ 15% O <sub>2</sub> (dry) for natural gas,	BAAQMD 9-9-504	P/A	Source Test
NOx	BAAQMD 9-9-301.2	N		42 ppmv @ 15% O <sub>2</sub> (dry) for natural gas	BAAQMD 9-9-504	P/A	Source Test
NOx (CAM)	BAAQMD Condition 19528, Part 21	Y		Ratio of Steam Injection for NOx control (lbs) to Fuel Consumption (lbs) >= 30	BAAQMD Condition 19528, Part 21	C	Natural gas and Steam Flow meters
Steam Injection Rate (CAM)	None	Y		No Limit	BAAQMD Condition 19528, Part 21	C	Steam flow meter
Visible Emissions	BAAQMD 6-1-301	N		≥ Ringelmann No. 1 for no more than 3 minutes/hour	BAAQMD 6-1-401	P/E	Visual Inspection

**VII. Applicable Limits & Compliance Monitoring Requirements**

**Table VII – C.5.1 Combustion  
 Applicable Limits and Compliance Monitoring Requirements  
 S963 - ALKYLATION PLANT GAS TURBINE 177**

<b>Type of Limit</b>	<b>Citation of Limit</b>	<b>FE Y/N</b>	<b>Future Effective Date</b>	<b>Limit</b>	<b>Monitoring Requirement Citation</b>	<b>Monitoring Frequency</b>	<b>Monitoring Type</b>
Visible Emissions	SIP 6-301	Y		≥ Ringelmann No. 1 for no more than 3 minutes/hour	SIP 6-401	P/E	Visual Inspection
Visible Particles	BAAQMD 6-1-305	N		Prohibition of nuisance	None	N	N/A
Visible Particles	SIP 6-305	Y		Prohibition of nuisance	None	N	N/A



**VII. Applicable Limits & Compliance Monitoring Requirements**

**SECTION D LIQUID LOADING**

**Table VII – D.1  
 Applicable Limits and Compliance Monitoring Requirements  
 Facility B2759  
 S55 AMORCO WHARF TERMINAL  
 Unloading Only**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
POC	SIP 8-44-301.1 8-44-301.2	Y		5.7 g/m3 (2 lbs/1000 bbls loaded) or reduce by 95% by weight [does not apply to unloading]	SIP 8-44-501.1 8-44-502	P/E Each loading event	Records
POC	SIP 8-44-304.1	Y		Liquid leaks < 4 drops/minute Gas tight <=10,000 ppm (methane)	None	N	N/A
POC	BAAQMD 8-44-301 8-44-304.1	N		5.7 g/m3 (2 lbs/1000 bbls loaded) or Reduce by 95% by weight [Loading]	BAAQMD 8-44-501.1	P/E Each loading event	Records
POC	BAAQMD 8-44-304.2	N		Use emission control equipment for control of loading emissions	None	N	N/A
POC	BAAQMD 8-44-302.1 8-44-304.1 8-44-304.2	N		5.7 g/m3 (2 lbs/1000 bbls loaded) or Reduce by 95% by weight (Ballasting Option 1)	BAAQMD 8-44-501.2	P/E Each ballasting event	Records
POC	BAAQMD 8-44-302.2	N		Control ballasting emissions with segregated ballast tanks, dedicated clean ballast tanks, internal vapor balancing, and compression ballasting (Ballasting Option 2)	BAAQMD 8-44-501.2	P/E Each ballasting event	Records
POC	BAAQMD 8-44-303.1 8-44-304.1 8-44-304.2	N		5.7 g/m3 (2 lbs/1000 bbls loaded) or Reduce by 95% by weight (Venting Option 1)	BAAQMD 8-44-501.3	P/E Each venting event	Records

**VII. Applicable Limits & Compliance Monitoring Requirements**

**Table VII – D.1  
 Applicable Limits and Compliance Monitoring Requirements  
 Facility B2759  
 S55 AMORCO WHARF TERMINAL  
 Unloading Only**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
POC	BAAQMD 8-44-303.2	N		Control venting emissions through (1) automatic operation of PRV set at highest setpoint approved by the US Coast Guard OR (2) manual venting to avoid PRV release when tank pressure has reached 90% of setpoint (Venting Option 2)	BAAQMD 8-44-501.3	P/E Each venting event	Records
HAPS	40 CFR 63.651(a) 63.560(a)(2)			< 10 and 25 tons [defined in 40 CFR 63.561]	40 CFR 63.560(a)(3) 63.565(l) 63.567(j)(4)	P/A	Records
Through-put (Crude)	BAAQMD Condition 22455, Part 8	Y		70,080,000 bbls crude oil/consecutive 12-month period	BAAQMD Condition 22455, Part 12	P/ Vessel unloading	Records

**Table VII – D.2  
 Applicable Limits and Compliance Monitoring Requirements  
 S100-AVON WHARF LOADING BERTH NO. 1 MARINE BULK PLANT  
 WITH A-14 VAPOR RECOVERY SYSTEM**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
POC	SIP 8-44-301.1 8-44-301.2	Y		5.7 g/m3 (2 lbs/1000 bbls loaded) or Reduce by 95% by weight	SIP 8-44-501.1 8-44-502	P/E Each loading event	Records
POC	SIP 8-44-304.1	Y		Liquid leaks < 4 drops/minute Gas tight <=10,000 ppm (methane)	None	N	N/A

**VII. Applicable Limits & Compliance Monitoring Requirements**

**Table VII – D.2  
 Applicable Limits and Compliance Monitoring Requirements  
 S100-AVON WHARF LOADING BERTH NO. 1 MARINE BULK PLANT  
 WITH A-14 VAPOR RECOVERY SYSTEM**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
POC	BAAQMD 8-44-301 8-44-304.1	N		5.7 g/m <sup>3</sup> (2 lbs/1000 bbls loaded) or Reduce by 95% by weight (Loading)	BAAQMD 8-44-501.1	P/E Each loading event	Records
POC	BAAQMD 8-44-304.2	N		Use emission control equipment for control of loading emissions	None	N	N/A
POC	BAAQMD 8-44-302.1 8-44-304.1 8-44-304.2	N		5.7 g/m <sup>3</sup> (2 lbs/1000 bbls loaded) or Reduce by 95% by weight (Ballasting Option 1)	BAAQMD 8-44-501.2	P/E Each ballasting event	Records
POC	BAAQMD 8-44-302.2	N		Control ballasting emissions with segregated ballast tanks, dedicated clean ballast tanks, internal vapor balancing, and compression ballasting (Ballasting Option 2)	BAAQMD 8-44-501.2	P/E Each ballasting event	Records
POC	BAAQMD 8-44-303.1 8-44-304.1 8-44-304.2	N		5.7 g/m <sup>3</sup> (2 lbs/1000 bbls loaded) or Reduce by 95% by weight (Venting Option 1)	BAAQMD 8-44-501.3	P/E Each venting event	Records
POC	BAAQMD 8-44-303.2	N		Control venting emissions through (1) automatic operation of PRV set at highest setpoint approved by the US Coast Guard OR (2) manual venting to avoid PRV release when tank pressure has reached 90% of setpoint (Venting Option 2)	BAAQMD 8-44-501.3	P/E Each venting event	Records
HAPS	40 CFR 63.651(a) 63.560(a)(2)	Y		< 10 and 25 tons [defined in 40 CFR 63.561]	40 CFR 63.560(a)(3) 63.565(l) 63.567(j)(4)	P/A	Records

**VII. Applicable Limits & Compliance Monitoring Requirements**

**Table VII – D.2  
 Applicable Limits and Compliance Monitoring Requirements  
 S100-AVON WHARF LOADING BERTH NO. 1 MARINE BULK PLANT  
 WITH A-14 VAPOR RECOVERY SYSTEM**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
POC		Y		No limit	BAAQMD Condition 878, Part 2	C	Pressure recorder/controller
POC	BAAQMD Condition 878, Part 3	Y		Atmospheric relief valves leaks per Regulation 8, Rule 18	BAAQMD Condition 878, Part 3	P/ Semi-annual	PRV leak tests

**Table VII – D.3  
 Applicable Limits and Compliance Monitoring Requirements  
 S101 - TRUCK UNLOADING RACK – TRACT 2**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
POC	BAAQMD 8-6-110	Y		Exemption: organic liquids with TVP < 0.5 psia	BAAQMD 8-6-501.1 8-6-603 8-6-604	P/E	Records, MOP Method III.28
POC	BAAQMD 8-6-306	Y		Vapor tight, leak free equipment	BAAQMD 8-6-502	N	Portable Hydrocarbon Detector

**VII. Applicable Limits & Compliance Monitoring Requirements**

**Table VII – D.4  
 Applicable Limits and Compliance Monitoring Requirements  
 S108-AVON WHARF LOADING BERTH NO. 5**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
POC	SIP 8-44-301.1 8-44-301.2	Y		5.7 g/m3 (2 lbs/1000 bbls loaded) or Reduce by 95% by weight	SIP 8-44-501.1 8-44-502	P/E Each loading event	Records
POC	SIP 8-44-304.1	Y		Liquid leaks < 4 drops/minute Gas tight <=10,000 ppm (methane)	None	N	N/A
POC	BAAQMD 8-44-301 8-44-304.1	N		5.7 g/m3 (2 lbs/1000 bbls loaded) or Reduce by 95% by weight (Loading)	BAAQMD 8-44-501.1	P/E Each loading event	Records
POC	BAAQMD 8-44-304.2	N		Use emission control equipment for control of loading emissions	None	N	N/A
POC	BAAQMD 8-44-302.1 8-44-304.1 8-44-304.2	N		5.7 g/m3 (2 lbs/1000 bbls loaded) or Reduce by 95% by weight (Ballasting Option 1)	BAAQMD 8-44-501.2	P/E Each ballasting event	Records
POC	BAAQMD 8-44-302.2	N		Control ballasting emissions with segregated ballast tanks, dedicated clean ballast tanks, internal vapor balancing, and compression ballasting (Ballasting Option 2)	BAAQMD 8-44-501.2	P/E Each ballasting event	Records
POC	BAAQMD 8-44-303.1 8-44-304.1 8-44-304.2	N		5.7 g/m3 (2 lbs/1000 bbls loaded) or Reduce by 95% by weight (Venting Option 1)	BAAQMD 8-44-501.3	P/E Each venting event	Records

**VII. Applicable Limits & Compliance Monitoring Requirements**

**Table VII – D.4  
 Applicable Limits and Compliance Monitoring Requirements  
 S108-AVON WHARF LOADING BERTH NO. 5**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
POC	BAAQMD 8-44-303.2	N		Control venting emissions through (1) automatic operation of PRV set at highest setpoint approved by the US Coast Guard OR (2) manual venting to avoid PRV release when tank pressure has reached 90% of setpoint (Venting Option 2)	BAAQMD 8-44-501.3	P/E Each venting event	Records
HAPS	40 CFR 63.651(a) 63.560(a)(2)	Y		< 10 and 25 tons [defined in 40 CFR 63.561]	40 CFR 63.560(a)(3) 63.565(l) 63.567(j)(4)	P/A	Records

**Table VII – D.5  
 Applicable Limits and Compliance Monitoring Requirements  
 S115 - BULK PLANT TRUCK/RAIL  
 CAUSTIC WASTE LOADING RACK**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
POC	BAAQMD 8-6-110	Y		Exemption: organic liquids with TVP < 0.5 psia	BAAQMD 8-6-501.1 8-6-603 8-6-604	P/E	Records, MOP Method III.28
POC	BAAQMD 8-6-302	Y		44 gr/m <sup>3</sup> (0,35 lb/1000 gal loaded) [TVP > 1.5 psia]	BAAQMD 8-6-501.2	P/M	Records
POC	BAAQMD 8-6-306	Y		Vapor tight, leak free equipment	BAAQMD 8-6-502	N	Portable Hydrocarbon Detector

**VII. Applicable Limits & Compliance Monitoring Requirements**

**Table VII – D.6  
 Applicable Limits and Compliance Monitoring Requirements  
 S126, S127 – EXEMPT LPG LOADING RACKS**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
				<b>NO MONITORING REQUIRED</b>			

**Table VII – D.7  
 Applicable Limits and Compliance Monitoring Requirements  
 S1025 BULK PLANT TRUCKBOTTOM LOADING RACK – GASOLINE, NAPHTHA, KEROSENE,  
 FUEL OIL AND DIESEL  
 ABATED BY A14 VAPOR RECOVERY**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
<b>Applicable to Non-Gasoline Loading Only</b>							
POC	BAAQMD 8-6-110	Y		Exemption: organic liquids with TVP < 0.5 psia	BAAQMD 8-6-501.1 8-6-603 8-6-604	P/E	Records, MOP Method III.28
POC	BAAQMD 8-6-301	Y		21 gr/m3 (0.17 lb/1000 gal loaded)	BAAQMD 8-6-501.2	P/M	Records
POC	BAAQMD 8-6-306	Y		Vapor tight, leak free equipment	BAAQMD 8-6-502	N	Portable Hydrocarbon Detector
<b>Applicable to Gasoline Loading Only</b>							
Liquid Leaks	BAAQMD 8-33-205 8-33-304.8	N		3 drops/minute; or 10 mL/ disconnect, avg. over three consecutive disconnects (gasoline cargo tanks)	BAAQMD 8-33-116	P/A	Source Test
Liquid Leaks	BAAQMD 8-33-205 8-33-309.6	N		3 drops/minute; or 10 mL/ disconnect, avg. over three consecutive disconnects (gasoline bulk terminal liquid fill & vapor return connectors)	None	N	N/A

**VII. Applicable Limits & Compliance Monitoring Requirements**

**Table VII – D.7  
 Applicable Limits and Compliance Monitoring Requirements  
 S1025 BULK PLANT TRUCKBOTTOM LOADING RACK – GASOLINE, NAPHTHA, KEROSENE,  
 FUEL OIL AND DIESEL  
 ABATED BY A14 VAPOR RECOVERY**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Liquid Leaks	BAAQMD 8-33-205 8-33-309.6	N		3 drops/minute; or 10 mL/ disconnect, avg. over three consecutive disconnects (gasoline bulk terminal liquid fill & vapor return connectors)	BAAQMD 8-33-309.8	P/D	P/V valves, liquid fill hose & vapor hose connector seal physical inspection
POC	BAAQMD Condition 21849, Part 11	Y		= 9.6 g/m3 (0.08 lb/1000 gal) organic liquid loaded	BAAQMD 8-33-116 BAAQMD Condition # 21849, Part 11d	P/every five years	Source Test
POC	BAAQMD 8-33-301.2	N		0.04 lb/1000 gal organic liquid loaded	BAAQMD Condition # 21849, Part 11d	P/every five years	Source Test
POC	BAAQMD 8-33-301.2	N		0.04 lb/1000 gal organic liquid loaded	BAAQMD 8-33-309.13.2	C	POC parametric monitoring
POC	SIP 8-33-301	Y		9.6 g/m3 (0.08 lb/1000 gal) organic liquid loaded	BAAQMD Condition # 21849, Part 11d	P/every five years prior to Title V Permit Renewal	Source Test
POC	BAAQMD Condition 21849, Part 11	Y		9.6 g/m3 (0.08 lb/1000 gal)gasoline material loaded	BAAQMD Condition 21849, Part 11c	C	Pressure indicator and switch at V- 61 knockout pot
Through-put	BAAQMD Condition 21849, Part 9	Y		64,457 bbl/day and 18,615K bbl/yr	BAAQMD Condition 21849, Part 12c	P/M	Records



**VII. Applicable Limits & Compliance Monitoring Requirements**

**Table VII – D.7  
 Applicable Limits and Compliance Monitoring Requirements  
 S1025 BULK PLANT TRUCKBOTTOM LOADING RACK – GASOLINE, NAPHTHA, KEROSENE,  
 FUEL OIL AND DIESEL  
 ABATED BY A14 VAPOR RECOVERY**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
POC	BAAQMD 8-33-217 8-33-304.6	N		Pressure decay & vapor leak standards of CARB CP-204 (gasoline cargo tank)	None	N	N/A
POC	BAAQMD 8-33-216 8-33-304.7	N		100% of LEL (gasoline cargo tank liquid fill & vapor return connectors)	None	N	N/A
POC	BAAQMD 8-33-216 8-33-309.5	N		3,000 ppm; or 6% of LEL (gasoline bulk terminal)	BAAQMD 8-33-309.8	P/W	Hydrocarbon analyzer
POC	BAAQMD 8-33-216 8-33-309.5	N		3,000 ppm; or 6% of LEL (gasoline bulk terminal)	BAAQMD 8-33-116	P/A	Source Test
Pressure	BAAQMD 8-33-309.2	N		18.0 inches of H <sub>2</sub> O during product loading (at cargo tank/vapor hose interface)	BAAQMD Condition # 21849, Part 11c	C	Pressure indicator and switch at V-61 knockout pot
Pressure	BAAQMD 8-33-309.2	N		18.0 inches of H <sub>2</sub> O during product loading (at cargo tank/vapor hose interface)	BAAQMD 8-33-309.10	C	Backpressure monitor
Pressure	BAAQMD 8-33-309.2	N		18.0 inches of H <sub>2</sub> O during product loading (at cargo tank/vapor hose interface)	BAAQMD 8-33-309.10	P/A	Backpressure monitor correlation test
NONE	<b>40 CFR 63 Subpart CC – NESHAP for Petroleum Refineries</b> Vapor collection and processing equipment is EXEMPT per 63.640(d)(5) – The affected source subject to this subpart does not include emission points routed to a fuel gas system						

**VII. Applicable Limits & Compliance Monitoring Requirements**

**Table VII – D.7  
 Applicable Limits and Compliance Monitoring Requirements  
 S1025 BULK PLANT TRUCK BOTTOM LOADING RACK – GASOLINE, NAPHTHA, KEROSENE,  
 FUEL OIL AND DIESEL  
 ABATED BY A14 VAPOR RECOVERY**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Requirements for Loading Cargo Trucks							
Vapor Tight Cargo Trucks	40 CFR 63.650(a) 63.422(a)\ 60.502(e)(1) – (e)(4)	Y		Procedures for loading gasoline cargo trucks	40 CFR 63.650(a) 63.422(a) 60.502(e)(1) – (e)(4)	P/E	Records
Vapor Tight Cargo Trucks	40 CFR 63.650(a) 63.422(a) 60.502(e)(5) 63.422(c)(2)	Y		Have a procedure in place to ensure that non-vapor tight trucks are not reloaded until new vapor tight documentation is received	40 CFR 63.650(a) 63.422(a) 60.502(e)(5) 63.422(c)(2)	P/E	Records
Vapor Collection	40 CFR 63.650(a) 63.422(a) 60.502(f) 60.502(g)	Y		Ensure truck vapor collection equipment is: (1) Compatible with terminal (2) Connected to terminal	None	N	NA
Pressure	40 CFR 63.650(a) 63.422(a) 60.502(h)	Y		Maximum cargo tank pressure during loading: 450 mm H2O	40 CFR 63.650(a) 63.422(a) 60.503(d)	P/E	Record maximum pressure each loading event

**VII. Applicable Limits & Compliance Monitoring Requirements**

**Table VII – D.8  
 Applicable Limits and Compliance Monitoring Requirements  
 S1504 ETHANOL UNLOADING RACK  
 S1528 – ALKYLATE RAILCAR UNLOADING RACK**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
POC	BAAQMD 8-6-306	Y		Vapor tight, leak free equipment	BAAQMD 8-6-502	N	Portable Hydrocarbon Detector
Through-put [S1504]	BAAQMD Condition 21849, Part 13	Y		S1504 <= 1200K bbl/12 consecutive months	BAAQMD Condition 21849, Part 15b	P/M	Records
Through-put [S1528]		Y		S1528 - No Limit	BAAQMD Condition 13605, Part 5a	P/M	Records

**Table VII – D.9  
 Applicable Limits and Compliance Monitoring Requirements  
 S1525-NON-RETAIL SERVICE STATION 1 NOZZLE**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Through-put	BAAQMD Condition 24172	Y		440,000 gallons gasoline/ consecutive 12-month period	BAAQMD 8-7-503.1	P/A	Records
VOC	BAAQMD 8-7-301.2	Y		Phase I vapor recovery efficiency standards per CARB certification	BAAQMD 8-7-407 8-7-603	N	Source test
VOC	BAAQMD 8-7-301.6	Y		Phase I leak-free, vapor tight	BAAQMD 8-7-301.13 8-7-407 8-7-602 BAAQMD Condition 16516, Part 1	P/A	Source test

**VII. Applicable Limits & Compliance Monitoring Requirements**

**Table VII – D.9  
 Applicable Limits and Compliance Monitoring Requirements  
 S1525-NON-RETAIL SERVICE STATION 1 NOZZLE**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	BAAQMD 8-7-301.6	Y		Phase I leak-free, vapor tight	BAAQMD 8-7-301.13 8-7-407 8-7-602 BAAQMD Condition 16516, Part 3	P/ Initial Start Up	Source Test
VOC	BAAQMD 8-7-302.5	Y		Phase II leak-free, vapor tight	BAAQMD 8-7-301.13 8-7-407 8-7-602 BAAQMD Condition 16516, Part 1	P/A	Source test
VOC	BAAQMD 8-7-302.5	Y		Phase II leak-free, vapor tight	BAAQMD 8-7-301.13 8-7-407 8-7-602 BAAQMD Condition 16516, Part 3	P/ Initial Start Up	Source Test
VOC	BAAQMD 8-7-302.8	Y		Phase II Liquid Removal >= 5 ml/gallon dispensed (at 5 gpm or per CARB EO)	BAAQMD 8-7-407 8-7-605	N	Source test
VOC	BAAQMD 8-7-302.12	Y		Phase II Liquid Retain <= 100 ml/1000 gallons dispensed per nozzle or as specified in CARB CP-201	BAAQMD 8-7-302.12 8-7-407	N	Source test
VOC	BAAQMD 8-7-302.13	Y		Phase II Spitting <= 1 ml/1000 gallons dispensed per nozzle or as specified in CARB CP-201	BAAQMD 8-7-302.13 8-7-407	N	Source test
VOC	BAAQMD 8-7-313.1	Y		Phase II Fugitives ≤ 0.42 lb/1000 gallon	None	N	Use CARB certified Phase II VR

**VII. Applicable Limits & Compliance Monitoring Requirements**

**Table VII – D.9  
 Applicable Limits and Compliance Monitoring Requirements  
 S1525-NON-RETAIL SERVICE STATION 1 NOZZLE**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	BAAQMD 8-7-313.2	Y		Phase II Spillage ≤ 0.42 lb/1000 gallon	None	N	Use CARB certified Phase II VR
VOC	BAAQMD 8-7-313.3	Y		Phase II Liquid Retain + Spitting < 0.42 lb/1000 gallon	None	N	Use CARB certified Phase II VR

**Table VII – D.10  
 Applicable Limits and Compliance Monitoring Requirements  
 S613 VAPOR STORAGE TANK  
 Vented to A14 Vapor Recovery**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
TOC	BAAQMD 8-33-308.1	N		3,000 ppm as C1; or 6% of LEL (vapor storage tank)	BAAQMD 8-33-308.2	P/W	Hydrocarbon analyzer
TOC	SIP 8-33-308	Y		3,000 ppm as C1; or 15 lb/day (vapor diaphragm requirements)	None	N	N/A

## VII. Applicable Limits & Compliance Monitoring Requirements

### SECTION E SOLIDS HANDLING

**Table VII – E.1  
 Applicable Limits and Compliance Monitoring Requirements  
 S97-CATALYST FINES HOPPER  
 S98-FCCU: CATALYST FINES HOPPER  
 S99 -FCCU: CATALYST FINES HOPPER  
 ABATED BY A30 ESP OR BY A3/A4 CYCLONE & BAGHOUSE**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
<b>The following apply when abated by A3/A4</b>							
FP	BAAQMD 6-1-310	N		0.15 grain/dscf	BAAQMD Condition 19528, Part 13	P/Monthly	Visual Inspection
FP	SIP 6-310	Y		0.15 grain/dscf	BAAQMD Condition 19528, Part 13	P/Monthly	Visual Inspection
Operation [A3/A4]	N/A	Y		No limit	BAAQMD Condition 19528, Part 13A	P/ Annual	Inspection
Visible Emissions	BAAQMD 6-1-301	N		≥ Ringelmann No. 1 for no more than 3 minutes/hour	BAAQMD Condition 19528, Part 13	P/Monthly	Visual Inspection
Visible Emissions	SIP 6-301	Y		≥ Ringelmann No. 1 for no more than 3 minutes/hour	BAAQMD Condition 19528, Part 13	P/Monthly	Visual Inspection
Visible Particles	BAAQMD 6-1-305	N		Prohibition of nuisance	BAAQMD Condition 19528, Part 13	P/Monthly	Visual Inspection
Visible Particles	SIP 6-305	Y		Prohibition of nuisance	BAAQMD Condition 19528, Part 13	P/Monthly	Visual Inspection
<b>The following apply when abated by A30</b>							
FP	BAAQMD 6-1-310	N		0.15 grain/dscf	Condition 22150, Part 1	C	COMs
FP	SIP 6-310	Y		0.15 grain/dscf	Condition 22150, Part 1	C	COMs
Visible Emissions	BAAQMD 6-1-301	N		≥ Ringelmann No. 1 for no more than 3 minutes/hour	None	N	N/A

**VII. Applicable Limits & Compliance Monitoring Requirements**

**Table VII – E.1  
 Applicable Limits and Compliance Monitoring Requirements  
 S97-CATALYST FINES HOPPER  
 S98-FCCU: CATALYST FINES HOPPER  
 S99 -FCCU: CATALYST FINES HOPPER  
 ABATED BY A30 ESP OR BY A3/A4 CYCLONE & BAGHOUSE**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Visible Emissions	SIP 6-301	Y		≥ Ringelmann No. 1 for no more than 3 minutes/hour	None	N	N/A
Visible Particles	BAAQMD 6-1-305	N		Prohibition of nuisance	None	N	N/A
Visible Particles	SIP 6-305	Y		Prohibition of nuisance	None	N	N/A

**Table VII – E.2  
 Applicable Limits and Compliance Monitoring Requirements  
 S659- COKE STORAGE, S660- COKE STORAGE,  
 ABATED BY A-9, BAGHOUSE**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Visible Emissions	BAAQMD 6-1-301 BAAQMD Condition 23129 Part 38	N		≥ Ringelmann No. 1 for no more than 3 minutes/hour	BAAQMD Condition 19528, Part 14a	P/D	Visual Inspection
Visible Emissions	SIP 6-301	Y		≥ Ringelmann No. 1 for no more than 3 minutes/hour	BAAQMD Condition 19528, Part 14a	P/D	Visual Inspection
Visible Particles	BAAQMD 6-1-305	N		Prohibition of nuisance	BAAQMD Condition 19528, Part 14a	P/D	Visual Inspection
Visible Particles	SIP 6-305	Y		Prohibition of nuisance	BAAQMD Condition 19528, Part 14a	P/D	Visual Inspection

**VII. Applicable Limits & Compliance Monitoring Requirements**

**Table VII – E.2  
 Applicable Limits and Compliance Monitoring Requirements  
 S659- COKE STORAGE, S660- COKE STORAGE,  
 ABATED BY A-9, BAGHOUSE**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
FP	BAAQMD 6-1-310	N		0.15 grain/dscf	BAAQMD Condition 19528, Part 14a	P/D	Visual Inspection
FP	SIP 6-310	Y		0.15 grain/dscf	BAAQMD Condition 19528, Part 14a	P/D	Visual Inspection
FP	BAAQMD 6-1-311	N		4.10 P <sup>0.67</sup> lb/hr particulate, where P is process weight rate in ton/hr	BAAQMD Condition 19528, Part 14a	P/D	Visual Inspection
FP	SIP 6-311	Y		4.10 P <sup>0.67</sup> lb/hr particulate, where P is process weight rate in ton/hr	BAAQMD Condition 19528, Part 14a	P/D	Visual Inspection
Through-put (Fluid Coke)	BAAQMD Condition 20682, Part 2	Y		1,016,160 tons/ rolling consecutive 12 months [Fluid coke service]	BAAQMD Condition 20682, Part 3	P/M	Records
Through-put (Delayed Coke)	BAAQMD Condition 23129, Part 41	Y		<= 550 scfm exhaust air flow at A9 [Delayed coke service]	BAAQMD Condition 23129, Part 42	P/M	Records



**VII. Applicable Limits & Compliance Monitoring Requirements**

**Table VII – E.3  
 Applicable Limits and Compliance Monitoring Requirements  
 S809 – COKER SLURRY SETTLER ABATED BY A6 SCRUBBER  
 S810-FLUID COKE PILE LOADING SYSTEM,  
 S821-FLUID COKE STORAGE PILE**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Visible Emissions	BAAQMD 6-1-301	N		≥ Ringelmann No. 1 for no more than 3 minutes/hour	BAAQMD Condition 19528, Part 14	P/D	Visual Inspection
Visible Emissions	SIP 6-301	Y		≥ Ringelmann No. 1 for no more than 3 minutes/hour	BAAQMD Condition 19528, Part 14	P/D	Visual Inspection
Visible Particles	BAAQMD 6-1-305	N		Prohibition of nuisance	BAAQMD Condition 19528, Part 14	P/D	Visual Inspection
Visible Particles	SIP 6-305	Y		Prohibition of nuisance	BAAQMD Condition 19528, Part 14	P/D	Visual Inspection
FP	BAAQMD 6-1-310	N		0.15 grain/dscf	BAAQMD Condition 19528, Part 14	P/D	Visual Inspection
FP	SIP 6-310	Y		0.15 grain/dscf	BAAQMD Condition 19528, Part 14	P/D	Visual Inspection
FP	BAAQMD 6-1-311	N		4.10 P <sup>0.67</sup> lb/hr particulate, where P is process weight rate in ton/hr	BAAQMD Condition 19528, Part 14	P/D	Visual Inspection
FP	SIP 6-311	Y		4.10 P <sup>0.67</sup> lb/hr particulate, where P is process weight rate in ton/hr	BAAQMD Condition 19528, Part 14	P/D	Visual Inspection

**VII. Applicable Limits & Compliance Monitoring Requirements**

**Table VII – E.4  
 Applicable Limits and Compliance Monitoring Requirements  
 S846-No. 3 HDS COOLING TOWER  
 S975-No. 4 GAS PLANT COOLING TOWER,  
 S976-No. 5 GAS PLANT COOLING TOWER  
 S977-CRUDE UNIT COOLING TOWER  
 S978-FOUL WATER STRIPPER COOLING TOWER  
 S979-No. 2 FEED PREP COOLING TOWER  
 S980-HYDROCRACKER COOLING TOWER  
 S981-No. 1 HDS COOLING TOWER  
 S982-No. 2 HDS COOLING TOWER  
 S983-ALKY AND NO. 2 REFORMER COOLING TOWER  
 S985-No. 1 GAS PLANT COOLING TOWER  
 S987-No. 50 UNIT COOLING TOWER  
 S988-No. 3 REFORMER COOLING TOWER**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Opacity	BAAQMD 6-1-301	N		≥ Ringelmann No. 1 for no more than 3 minutes/hour	None	N	N/A
Opacity	SIP 6-301	Y		≥ Ringelmann No. 1 for no more than 3 minutes/hour	None	N	N/A
FP	BAAQMD 6-1-310	N		0.15 grain/dscf of exhaust gas volume	None	N	N/A
FP	SIP 6-310	Y		0.15 grain/dscf	None	N	N/A
FP	BAAQMD 6-1-311	N		Process weight < those on Table 1 of Regulation 6-1-311	None	N	N/A
FP	SIP 6-311	Y		Process weight < those on Table 1 of Regulation 6-311	None	N	N/A
POC (S975)	BAAQMD Condition 19199, Part D5	Y		100 ppm (gasoline range organics) 100 ppm (diesel range organics)	BAAQMD Condition 19199, Part D6	P/ Weekly	Lab analysis EPA Method 8015

**VII. Applicable Limits & Compliance Monitoring Requirements**

**Table VII – E.4  
 Applicable Limits and Compliance Monitoring Requirements  
 S846-No. 3 HDS COOLING TOWER  
 S975-No. 4 GAS PLANT COOLING TOWER,  
 S976-No. 5 GAS PLANT COOLING TOWER  
 S977-CRUDE UNIT COOLING TOWER  
 S978-FOUL WATER STRIPPER COOLING TOWER  
 S979-No. 2 FEED PREP COOLING TOWER  
 S980-HYDROCRACKER COOLING TOWER  
 S981-No. 1 HDS COOLING TOWER  
 S982-No. 2 HDS COOLING TOWER  
 S983-ALKY AND NO. 2 REFORMER COOLING TOWER  
 S985-No. 1 GAS PLANT COOLING TOWER  
 S987-No. 50 UNIT COOLING TOWER  
 S988-No. 3 REFORMER COOLING TOWER**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
POC (S982)	BAAQMD Condition 19199, Part E5	Y		100 ppm (gasoline range organics) 100 ppm (diesel range organics)	BAAQMD Condition 19199, Part E6	P/ Weekly	Lab analysis EPA Method 8015
Circulation rate (S975)	BAAQMD Condition 19199, Part D1	Y		4,140,000 gallons/hr or 69,000 gallons/min	None	N	N/A
Circulation rate (S982)	BAAQMD Condition 19199, Part E1	Y		1,080,000 gallons/hr or 18,000 gallons/min	None	N	N/A
TDS	None			None	None	N	N/A
TDS (S975)	BAAQMD Condition 19199, Part D3	Y		5000 mg/L	BAAQMD Condition 19199, Part D4	P/ Quarterly	Lab analysis
TDS (S982)	BAAQMD Condition 19199, Part E3	Y		5000 mg/L	BAAQMD Condition 19199, Part E4	P/ Quarterly	Lab analysis

**VII. Applicable Limits & Compliance Monitoring Requirements**

**Table VII – E.4  
 Applicable Limits and Compliance Monitoring Requirements  
 S846-No. 3 HDS COOLING TOWER  
 S975-No. 4 GAS PLANT COOLING TOWER,  
 S976-No. 5 GAS PLANT COOLING TOWER  
 S977-CRUDE UNIT COOLING TOWER  
 S978-FOUL WATER STRIPPER COOLING TOWER  
 S979-No. 2 FEED PREP COOLING TOWER  
 S980-HYDROCRACKER COOLING TOWER  
 S981-No. 1 HDS COOLING TOWER  
 S982-No. 2 HDS COOLING TOWER  
 S983-ALKY AND NO. 2 REFORMER COOLING TOWER  
 S985-No. 1 GAS PLANT COOLING TOWER  
 S987-No. 50 UNIT COOLING TOWER  
 S988-No. 3 REFORMER COOLING TOWER**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Visible Particles	BAAQMD 6-1-305	N		Prohibition of nuisance	None	N	N/A
Visible Particles	SIP 6-305	Y		Prohibition of nuisance	None	N	N/A
Particulate Matter	BAAQMD 6-1-311	N		Process weight < those on Table 1 of Regulation 6-1-311	None	N	N/A
Particulate Matter	SIP 6-311	Y		Process weight < those on Table 1 of Regulation 6-311	None	N	N/A

**VII. Applicable Limits & Compliance Monitoring Requirements**

**Table VII – E.5  
 Applicable Limits and Compliance Monitoring Requirements  
 DELAYED COKER SCREEN/CRUSHER (S-1513) & CONVEYORS & DEWATERING PAD**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Visible Emissions	BAAQMD 6-1-301 BAAQMD Condition 23129 Part 31	N		≥ Ringelmann No. 1 for no more than 3 minutes/hour	Condition 23129, Part 34	P/D	Visual Inspection
Visible Emissions	SIP 6-301	Y		≥ Ringelmann No. 1 for no more than 3 minutes/hour	Condition 23129, Part 34	P/D	Visual Inspection
Visible Particles	BAAQMD 6-1-305	N		Prohibition of nuisance	Condition 23129, Part 34	P/D	Visual Inspection
Visible Particles	SIP 6-305	Y		Prohibition of nuisance	Condition 23129, Part 34	P/D	Visual Inspection
FP	BAAQMD 6-1-310	N		0.15 grain/dscf	Condition 23129, Part 34	P/D	Visual Inspection
FP	SIP 6-310	Y		0.15 grain/dscf	Condition 23129, Part 34	P/D	Visual Inspection
FP	BAAQMD 6-1-311	N		4.10 P <sup>0.67</sup> lb/hr particulate, where P is process weight rate in ton/hr	Condition 23129, Part 34	P/D	Visual Inspection
FP	SIP 6-311	Y		4.10 P <sup>0.67</sup> lb/hr particulate, where P is process weight rate in ton/hr	Condition 23129, Part 34	P/D	Visual Inspection
Moisture	Condition 23129, Part 30	Y		Coke moisture ≥ 5% (wt)	Condition 23129, Part 36	P/E	Initial source test
Throughput	Condition 23129, Part 29	Y		1,277,500 wet tons per consecutive 12 months	Condition 23129, Part 37	P/M	Records

**VII. Applicable Limits & Compliance Monitoring Requirements**

**Table VII – E.6  
 Applicable Limits and Compliance Monitoring Requirements  
 DELAYED COKE SILOS ABATED BY BAGHOUSES  
 S-1514 (SILO #1 ABATED BY A-1514)  
 S-1515 (SILO #2 ABATED BY A-1515)**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Visible Emissions	BAAQMD 6-1-301	N		≥ Ringelmann No. 1 for no more than 3 minutes/hour	Condition 23129, Part 40	<u>C</u>	Bag Failure Monitor
Visible Emissions	SIP 6-301	Y		≥ Ringelmann No. 1 for no more than 3 minutes/hour	Condition 23129, Part 40	<u>C</u>	Bag Failure Monitor
Visible Particles	BAAQMD 6-1-305	N		Prohibition of nuisance	Condition 23129, Part 40	<u>C</u>	Bag Failure Monitor
Visible Particles	SIP 6-305	Y		Prohibition of nuisance	Condition 23129, Part 40	<u>C</u>	Bag Failure Monitor
FP	BAAQMD 6-1-310	N		0.15 grain/dscf	Condition 23129, Part 40	<u>C</u>	Bag Failure Monitor
FP	SIP 6-310	Y		0.15 grain/dscf	Condition 23129, Part 40	<u>C</u>	Bag Failure Monitor
FP	BAAQMD 6-1-311	N		4.10 P <sup>0.67</sup> lb/hr particulate, where P is process weight rate in ton/hr	Condition 23129, Part 40	<u>C</u>	Bag Failure Monitor
FP	SIP 6-311	Y		4.10 P <sup>0.67</sup> lb/hr particulate, where P is process weight rate in ton/hr	Condition 23129, Part 40	<u>C</u>	Bag Failure Monitor
PM	Condition 23129, Part 39	Y		0.01 grain/dscf	Condition 23129, Part 40	<u>C</u>	Bag Failure Monitor
Throughput	Condition 23129, Part 41	Y		4,200 scfm exhaust air flow (each abatement device)	Condition 23129, Part 42	P/M	Records

## VII. Applicable Limits & Compliance Monitoring Requirements

**Table VII – E.7**  
**Applicable Limits and Compliance Monitoring Requirements**  
**DELAYED COKER TRUCK LOADOUT (S-1516)**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Visible Emissions	BAAQMD 6-1-301	N		≥ Ringelmann No. 1 for no more than 3 minutes/hour	None	N	N/A
Visible Emissions	SIP 6-301	Y		≥ Ringelmann No. 1 for no more than 3 minutes/hour	None	N	N/A
Visible Particles	BAAQMD 6-1-305	N		Prohibition of nuisance	None	N	N/A
Visible Particles	SIP 6-305	Y		Prohibition of nuisance	None	N	N/A
FP	BAAQMD 6-1-310	N		0.15 grain/dscf	None	N	N/A
FP	SIP 6-310	Y		0.15 grain/dscf	None	N	N/A
FP	BAAQMD 6-1-311	N		$4.10 P^{0.67}$ lb/hr particulate, where P is process weight rate in ton/hr	None	N	N/A
FP	SIP 6-311	Y		$4.10 P^{0.67}$ lb/hr particulate, where P is process weight rate in ton/hr	None	N	N/A
Throughput	Condition 23129, Part 44	Y		1,277,500 wet tons per consecutive 12 months	Condition 23129, Part 49	P/D P/M	Records

**VII. Applicable Limits & Compliance Monitoring Requirements**

**SECTION F TANKS**

Refer to Table IV-F.1 TANKS – SOURCE LISTING AND APPLICABLE PERMIT CONDITIONS

Refer to Table IV-F.2 TANKS – GROUPS AND GROUP DESCRIPTIONS

<b>Table VII – F.3</b> <b>Applicable Limits and Compliance Monitoring Requirements</b> <b>TANK GROUP APPLICABLE LIMITS &amp; COMPLIANCE MONITORING REQUIREMENTS</b>																			
Limit				Monitoring			Source #	101 ABCD	201 AB	202	203 ABC	301 AB	302 ABC	401 ABCD	402 AB	403(Reserved)	404	501	502
Type	Citation	FE Y/N	Future Effective Date	Description	Citation	Frequency (P/C/N)	Type												
<b>BAAQMD Regulation 8, Rule 5 Organic Compounds - Storage of Organic Liquids</b> <b>SIP Regulation 8, Rule 5 Organic Compounds – Storage of Organic Liquids</b>																			
TVP	BAAQMD 8-5-117 SIP 8-5-117	Y		Exempt Tank true vapor pressure not greater than 0.5 psia.	BAAQMD Condition 19528, Parts 12, 12.1	P/E upon change of service	Look up table or sample analysis; Records		X										
TVP	BAAQMD 8-5-117 8-5-301 SIP 8-5-117 8-5-301	Y		True vapor pressure	BAAQMD 8-5-501.1	P/E initially and upon change of service	Look up table or sample analysis; Records		X	X	X	X	X	X	X		X	X	X
VOC	BAAQMD 8-5-303.1	N		Pressure vacuum valve set to 90% of tank's maximum allowable working pressure or at least 0.5 psig	BAAQMD 8-5-501.4	P/initial	Records							X	X		X	X	
VOC	SIP 8-5-303.1	Y		Pressure vacuum valve set pressure within 10% of maximum allowable working pressure of the tank, or at least 0.5 psig	SIP 8-5-403	P/SA	visual inspection							X	X		X	X	



**VII. Applicable Limits & Compliance Monitoring Requirements**

<b>Table VII – F.3</b> <b>Applicable Limits and Compliance Monitoring Requirements</b> <b>TANK GROUP APPLICABLE LIMITS &amp; COMPLIANCE MONITORING REQUIREMENTS</b>																				
Limit				Monitoring			Source #	101 ABCD	201 AB	202	203 ABC	301 AB	302 ABC	401 ABCD	402 AB	403(Reserved)	404	501	502	
Type	Citation	FE Y/N	Future Effective Date	Description	Citation	Frequency (P/C/N)	Type													
VOC	BAAQMD 8-5-303.2	N		Pressure vacuum valve sealing mechanism must be gas-tight: < 500 ppm <b>OR</b>	BAAQMD 8-5-403 8-5-403.1	P/SA	Method 21 portable hydrocarbon detector													
					BAAQMD 8-5-403 8-5-403.1 8-5-411.3 (optional)	P/Q (optional)	Method 21 portable hydrocarbon detector							X	X		X	X		
				BAAQMD 8-5-502.1	P/A	Source test (Not required if vented to fuel gas)														
VOC	SIP 8-5-303.2	Y		Pressure relief valve gas tight (< 500 psig)	SIP 8-5-403 8-5-503 8-5-605	P/SA	Method 21 portable hydrocarbon detector						X	X			X	X		
VOC	BAAQMD 8-5-304.6.1	N		EFR leaking pontoons gas tight requirements	BAAQMD 8-5-412	P/Q until repaired	Method 21 portable hydrocarbon detector			X	X	X								
VOC	BAAQMD 8-5-305 8-5-321.1 8-5-322.1 SIP 8-5-305	Y		IFR visual inspection of outer most seal	BAAQMD 8-5-402.2 SIP 8-5-402.2	P/SA	Visual inspection					X	X							
VOC	BAAQMD 8-5-306.1	N		Control device standards; includes 95% efficiency requirement	BAAQMD 8-5-502	P/A	Source test										X		X	

**VII. Applicable Limits & Compliance Monitoring Requirements**

<b>Table VII – F.3</b> <b>Applicable Limits and Compliance Monitoring Requirements</b> <b>TANK GROUP APPLICABLE LIMITS &amp; COMPLIANCE MONITORING REQUIREMENTS</b>																			
Limit				Monitoring			Source #	101 ABCD	201 AB	202	203 ABC	301 AB	302 ABC	401 ABCD	402 AB	403(Reserved)	404	501	502
Type	Citation	FE Y/N	Future Effective Date	Description	Citation	Frequency (P/C/N)	Type												
VOC	SIP 8-5-306	Y		Control device standards; includes 95% efficiency requirement	SIP 8-5-603.1	P/A	Source test										X		X
VOC	BAAQMD 8-5-306.1	N		Control device standards; includes 95% efficiency requirement	BAAQMD 8-5-502	N	No monitoring required – Vented to FG							X					
VOC	SIP 8-5-306	Y		Control device standards; includes 95% efficiency requirement	BAAQMD 8-5-502	N	No monitoring required – Vented to FG							X					
VOC	BAAQMD 8-5-307.3	N		Pressure relief valve gas tight (< 500 psig)	BAAQMD 8-5-403 8-5-403.2 8-5-605	P/SA	Method 21 portable hydrocarbon detector							X	X		X	X	
VOC	BAAQMD 8-5-320 SIP 8-5-320	Y		EFR floating roof fitting closure standards; includes gasketed covers	BAAQMD 8-5-401.2 SIP 8-5-401.2	P/SA	Measurement and visual inspection			X	X	X							
VOC	BAAQMD 8-5-320 SIP 8-5-320	Y		IFR fitting closure standards; includes gasketed covers	BAAQMD 8-5-402.3	P/SA	Measurement and visual inspection					X	X						
VOC	BAAQMD 8-5-321 SIP 8-5-321	Y		EFR primary rim-seal standards; includes gap criteria	BAAQMD 8-5-401.1 SIP 8-5-401.1	P/SA and every time a seal is replaced	Seal inspection			X	X	X							

**VII. Applicable Limits & Compliance Monitoring Requirements**

<b>Table VII – F.3                      Applicable Limits and Compliance Monitoring Requirements                      TANK GROUP APPLICABLE LIMITS &amp; COMPLIANCE MONITORING REQUIREMENTS</b>																			
Limit				Monitoring			Source #	101 ABCD	201 AB	202	203 ABC	301 AB	302 ABC	401 ABCD	402 AB	403(Reserved)	404	501	502
Type	Citation	FE Y/N	Future Effective Date	Description	Citation	Frequency (P/C/N)	Type												
VOC	BAAQMD 8-5-321 SIP 8-5-321	Y		IFR primary rim-seal standards; includes gap criteria	BAAQMD 8-5-402.1	P/10 year intervals and every time a seal is replaced	Seal inspection					X	X						
VOC	BAAQMD 8-5-322 SIP 8-5-322	Y		EFR secondary rim-seal standards; includes gap criteria	BAAQMD 8-5-401.1 SIP 8-5-401.1	P/SA and every time a seal is replaced	Seal inspection		X	X	X								
VOC	BAAQMD 8-5-322 SIP 8-5-322	Y		IFR secondary rim-seal standards; includes gap criteria	BAAQMD 8-5-402.1	P/10 year intervals and every time a seal is replaced	Seal inspection					X	X						
VOC	BAAQMD 8-5-320 8-5-321 8-5-322 SIP 8-5-320 8-5-321	N		EFR floating roof fitting, primary and secondary seal standards	BAAQMD 8-5-401.1 8-5-401.2 8-5-411.3 (optional)	P/Q (optional)	Seal and fitting inspection; (enhanced monitoring)		X	X	X								
VOC	BAAQMD 8-5-328.1	N		Tanks > 75 m <sup>3</sup> residual organic concentration of < 10,000 ppm as methane after degassing	BAAQMD 8-5-328.1	P/each time emptied & degassed; 4 consecutive measurements at 15 minute intervals	Method 21 portable hydrocarbon detector		X	X	X	X	X	X			X	X	X

**VII. Applicable Limits & Compliance Monitoring Requirements**

<p align="center"><b>Table VII – F.3</b>  <b>Applicable Limits and Compliance Monitoring Requirements</b>  <b>TANK GROUP APPLICABLE LIMITS &amp; COMPLIANCE MONITORING REQUIREMENTS</b></p>																			
Limit				Monitoring			Source #	101 ABCD	201 AB	202	203 ABC	301 AB	302 ABC	401 ABCD	402 AB	403(Reserved)	404	501	502
Type	Citation	FE Y/N	Future Effective Date	Description	Citation	Frequency (P/C/N)	Type												
VOC	SIP 8-5-328.1.2	Y		Tanks > 75 m <sup>3</sup> concentration of < 10,000 ppm as methane after degassing	SIP 8-5-503	P/each time emptied & degassed	Portable hydrocarbon detector			X	X	X	X	X	X		X	X	X
VOC	SIP 8-5-328.1	Y		Tanks > 75 m <sup>3</sup> tank degassing control by liquid balancing in which the resulting organic liquid has a TVP is less than 0.5 psia	BAAQMD 8-5-501	P/E	Records			X	X	X	X	X	X		X	X	X
VOC	BAAQMD 8-5-328.1 SIP 8-5-328.1	Y		Tank degassing control device standards; includes 90% efficiency requirement	BAAQMD 8-5-502 and 8-5-603.2 SIP 8-5-502	P/A	Source test			X	X	X	X	X	X		X	X	X
VOC		Y		Certification reports on tank inspections and source tests	BAAQMD 8-5-404 SIP 8-5-404 SIP 8-5-405	P/ after each tank inspection and source test	Certification report			X	X	X	X	X	X		X	X	X
VOC		Y		Records of tank seal replacement	BAAQMD 8-5-501.2	P/ for each tank seal replacement	Records (retain 10 years)			X	X	X	X	X					
VOC		Y		Determination of applicability	BAAQMD 8-5-604	P/E	Look-up table or sample analysis			X	X	X	X	X	X		X	X	

**VII. Applicable Limits & Compliance Monitoring Requirements**

<b>Table VII – F.3                      Applicable Limits and Compliance Monitoring Requirements                      TANK GROUP APPLICABLE LIMITS &amp; COMPLIANCE MONITORING REQUIREMENTS</b>																			
Limit				Monitoring			Source #	101 ABCD	201 AB	202	203 ABC	301 AB	302 ABC	401 ABCD	402 AB	403(Reserved)	404	501	502
Type	Citation	FE Y/N	Future Effective Date	Description	Citation	Frequency (P/C/N)	Type												
<b>NSPS 40 CFR 60 Subpart Kb Volatile Organic Liquid Storage Vessels</b>																			
VOC	60.112b (a)(3)(i)	Y		Fixed roof closed vent system leak tightness standards (< 500 ppmw)	60.112b (a)(3)(i)	N	Method 21 portable hydrocarbon detector												X
VOC	60.112b (a)(3)(ii)	Y		Fixed roof control device standards; includes 95% efficiency requirement	60.113b(c)(1) 60.113b(c)(2)	N	Operating Plan												X
VOC	60.116b(c)	Y		Record of liquid stored and true vapor pressure	60.116b(e)	P/E upon change of service	Records												X
VOC	63.640(n)(1) 60.112b (a)(1)	Y		IFR deck fitting closure standards	63.640(n)(8), 60.113b(a)(1) 60.113b(a)(4)	Prior to filling tank, each time emptied & degassed, and at least every 10 yr	Visual inspection						A B						
VOC	63.647(a) 61.351(a)(1) 60.112b (a)(1)	Y		IFR deck fitting closure standards	63.647(a), 61.351(a)(1) 60.113b(a)(1) 60.113b(a)(4)	Prior to filling tank, each time emptied & degassed, and at least every 10 yr	Visual inspection						C						

**VII. Applicable Limits & Compliance Monitoring Requirements**

<b>Table VII – F.3</b> <b>Applicable Limits and Compliance Monitoring Requirements</b> <b>TANK GROUP APPLICABLE LIMITS &amp; COMPLIANCE MONITORING REQUIREMENTS</b>																			
Limit				Monitoring			Source #	101 ABCD	201 AB	202	203 ABC	301 AB	302 ABC	401 ABCD	402 AB	403(Reserved)	404	501	502
Type	Citation	FE Y/N	Future Effective Date	Description	Citation	Frequency (P/C/N)	Type												
VOC	63.640(n)(1) 60.113b(a)(1) 60.113b(a)(4)	Y		IFR primary rim-seal standards; no holes or tears	63.640(n)(8) 60.113b(a)(1) 60.113b(a)(4)	Prior to filling tank, each time emptied & degassed, and at least every 10 yr	Visual inspection						A B						
VOC	63.647(a), 61.351(a)(1) 60.113b(a)(1) 60.113b(a)(4)	Y		IFR primary rim-seal standards; no holes or tears	63.647(a), 61.351(a)(1) 60.113b(a)(1) 60.113b(a)(4)	Prior to filling tank, each time emptied & degassed, and at least every 10 years	Visual inspection						C						
VOC	63.640(n)(1) 60.113b(a)(1) 60.113b(a)(4)	Y		IFR secondary rim-seal standards; no holes or tears	63.640(n)(8) 60.113b(a)(1) & (a)(4)	Prior to filling tank, each time emptied & degassed, and at least every 10 yr	Visual inspection						A B						
VOC	63.647(a) 61.351(a)(1) 60.113b(a)(1) 60.113b(a)(4)	Y		IFR secondary rim-seal standards; no holes or tears	63.647(a) 61.351(a)(1) 60.113b(a)(1) 60.113b(a)(4)	Prior to filling tank, each time emptied & degassed, and at least every 10 years	Visual inspection						C						

**VII. Applicable Limits & Compliance Monitoring Requirements**

<b>Table VII – F.3                      Applicable Limits and Compliance Monitoring Requirements                      TANK GROUP APPLICABLE LIMITS &amp; COMPLIANCE MONITORING REQUIREMENTS</b>																					
Limit					Monitoring			Source #	101 ABCD	201 AB	202	203 ABC	301 AB	302 ABC	401 ABCD	402 AB	403(Reserved)	404	501	502	
Type	Citation	FE Y/N	Future Effective Date	Description	Citation	Frequency (P/C/N)	Type														
VOC	63.640(n)(1) 60.113b(a)(2)	Y		IFR internal visual inspection from viewports of fixed roof	63.640(n)(8), 60.113b(a)(2)	P/A	Visual inspection							A B							
VOC	63.647(a) 61.351(a)(1) 60.113b(a)(2)	Y		IFR internal visual inspection from viewports of fixed roof	63.647(a), 61.351(a)(1), 60.113b(a)(2)	P/A	Visual inspection							C							
VOC	63.640(n)(1) 60.112b(a)(2)(ii)	Y		EFR deck fitting closure standards; includes gasketed covers	63.640(n)(8) 60.113b(b)(6)	Each time emptied & degassed	Visual inspection					A									
VOC	63.640(n)(1) 61.351(a)(2) 60.112b(a)(2)(ii)	Y		EFR deck fitting closure standards; includes gasketed covers	63.640(n)(1), 61.351(a)(2), 60.113b(b)(6)	Each time emptied & degassed	Visual inspection					B									
VOC	63.640(n)(1) 60.113b(b)(4)(i)	Y		EFR primary rim-seal standards; includes gap criteria	63.640(n)(8) 60.113b(b)(1) 60.113b(b)(2) 60.113b(b)(3)	P/ at 5 year intervals	Measurement and visual inspection					A									
VOC	63.640(n)(1) 61.351(a)(2) 60.113b(b)(4)(i)	Y		EFR primary rim-seal standards; includes gap criteria	63.640(n)(1), 61.351(a)(2), 60.113b(b)(1) 60.113b(b)(2) 60.113b(b)(3)	P/ at 5 year intervals	Measurement and visual inspection					B									
VOC	63.640(n)(1) 60.113b(b)(4)(ii)	Y		EFR secondary rim-seal standards; includes gap criteria	63.640(n)(8) 60.113b(b)(1) 60.113b(b)(2) 60.113b(b)(3)	P/A	Measurement and visual inspection					A									

**VII. Applicable Limits & Compliance Monitoring Requirements**

<b>Table VII – F.3                      Applicable Limits and Compliance Monitoring Requirements                      TANK GROUP APPLICABLE LIMITS &amp; COMPLIANCE MONITORING REQUIREMENTS</b>																			
Limit				Monitoring			Source #	101 ABCD	201 AB	202	203 ABC	301 AB	302 ABC	401 ABCD	402 AB	403(Reserved)	404	501	502
Type	Citation	FE Y/N	Future Effective Date	Description	Citation	Frequency (P/C/N)	Type												
VOC	63.640(n)(1) 61.351(a)(2) 60.113b(b)(4)(ii)	Y		EFR secondary rim-seal standards; includes gap criteria	63.640(n)(1), 61.351(a)(2), 60.113b(b)(1) 60.113b(b)(2) 60.113b(b)(3)	P/A	Measurement and visual inspection				B								
VOC	63.640(n)(8) 60.116b(c)	Y		Record of liquid stored and true vapor pressure	63.640(n)(8) 60.116b(c)	P/E upon change of service	Records				X	X							
VOC		Y		EFR seal inspection records for report in 60.115b(b)(2)	63.640(n)(8) 60.115b(b)(3)	P/A For each gap measurement	Records				X								
VOC		Y		EFR inspection report for non-compliant seals	63.640(n)(8) 60.115b(b)(4)	P/A Within 30 days of seal inspection	Report				X								
<b>40 CFR 63 Subpart CC NESHAP for Petroleum Refineries (MACT)</b>																			
HAP	63.641	Y		Retain weight percent total organic HAP in stored liquid for Group 2 determination.	63.654(i)(1)(iv)	P/E	Records		B	X									
HAP	63.646(a) 63.120(a)(4)	Y		IFR additional rim-seal standards; includes no gaps visible from the tank top, no liquid on the floating roof or other obvious defects	63.646(a) 63.120(a)(2) 63.120(a)(3)	P/A	Visual inspection					X							



**VII. Applicable Limits & Compliance Monitoring Requirements**

<b>Table VII – F.3                      Applicable Limits and Compliance Monitoring Requirements                      TANK GROUP APPLICABLE LIMITS &amp; COMPLIANCE MONITORING REQUIREMENTS</b>																				
Limit				Monitoring			Source #	101 ABCD	201 AB	202	203 ABC	301 AB	302 ABC	401 ABCD	402 AB	403(Reserved)	404	501	502	
Type	Citation	FE Y/N	Future Effective Date	Description	Citation	Frequency (P/C/N)	Type													
HAP	63.646(a) 63.120(a)(7)	Y		IFR primary rim-seal standards; no holes or tears	63.646(a) 63.120(a)(2) 63.120(a)(3)	P/ each time emptied & degassed, at least every 10 yr	Visual inspection						X							
HAP	63.646(a) 63.120(a)(7)	Y		IFR secondary rim-seal standards (if so equipped); no holes or tears	63.646(a) 63.120(a)(2) 63.120(a)(3)	P/ each time emptied & degassed, at least every 10 yr	Visual inspection					X								
HAP	63.646(a) 63.120(b)(3) 63.120(b)(5)	Y		EFR primary rim-seal standards; includes gap criteria	63.646(a) 63.120(b)(1) 63.120(b)(2)	P/ at 5 year intervals	Measurement and visual inspection			X	X									
HAP	63.646(a) 63.120(b)(4) 63.120(b)(6)	Y		EFR secondary rim-seal standards; includes gap criteria	63.646(a) 63.120(b)(1) 63.120(b)(2)	P/A	Measurement and visual inspection			X	X									
HAP	63.646(f)	Y		IFR deck fitting closure standards	63.646(a) 63.646(e) 63.120(a)(2) 63.120(a)(3)	P/ each time emptied & degassed, at least every 10 yr	Visual inspection						X							
HAP	63.646(f)	Y		EFR deck fitting closure standards	63.646(a) 63.646(e) 63.120(b)(10)	P/ each time emptied & degassed	Visual inspection			X	X									
VOC	63.654(i)	Y		Recordkeeping	63.654(i)(1) and 63.123(a)	periodic and upon change of service	Records		B	X	X		X							

**VII. Applicable Limits & Compliance Monitoring Requirements**

<b>Table VII – F.3                      Applicable Limits and Compliance Monitoring Requirements                      TANK GROUP APPLICABLE LIMITS &amp; COMPLIANCE MONITORING REQUIREMENTS</b>																			
Limit				Monitoring			Source #	101 ABCD	201 AB	202	203 ABC	301 AB	302 ABC	401 ABCD	402 AB	403(Reserved)	404	501	502
Type	Citation	FE Y/N	Future Effective Date	Description	Citation	Frequency (P/C/N)	Type												
<b>40 CFR 61 Subpart FF –Benzene Waste Operations NESHAP</b>																			
VOC	63.647(a) 61.343(a) (1)(i)(A)	Y		Tank cover and openings leak tightness standards (< 500 ppmw)	63.647(a) 61.343(a)(1) (i)(A)	P/A	Method 21 portable hydrocarbon detector										B D		X
VOC	63.647(a) 61.343(a)(1) (i)(B)	Y		Tank openings maintained in closed and sealed position	63.647(a) 61.343(c)	P/Q	Visual inspection										B D		X
VOC	63.647(a) 61.349(a) (1)(i)	Y		CVS leak tightness standards (< 500 ppmw)	63.647(a) 61.349(a) (1)(i)	P/A	Method 21 portable hydrocarbon detector										B D		X
VOC	63.647(a) 61.349(a) (1)(ii)(B)	Y		CVS with bypass line car-seal closed	63.647(a) 61.354(f)(1)	P/M	Visual inspection										B D		X
VOC	63.647(a) 61.349(a) (2)(ii)	Y		Control device standards; includes 95% VOC efficiency requirement	63.647(a) 61.340(d)	N	Exempt from control standards – vented to fuel gas										B D		
VOC	63.647(a) 61.349(a) (2)(ii)	Y		Control device standards; includes 95% VOC efficiency requirement	63.647(a) 61.349(h) 61.354(d)	P/D	VOC analyzer												X
VOC	63.647(a) 61.349(f)	Y		CVS evidence of visual defects	63.647(a) 61.349(f)	P/Q	Visual inspection										B D		X
<b>BAAQMD Permit Conditions</b>																			
POC	BAAQMD Condition 13605 Part 2	Y		POC emissions shall not exceed 1922.79 pounds per year	BAAQMD Condition 13605 Part 5	P/I and upon change of service	Calculate	S323											

**VII. Applicable Limits & Compliance Monitoring Requirements**

<b>Table VII – F.3                      Applicable Limits and Compliance Monitoring Requirements                      TANK GROUP APPLICABLE LIMITS &amp; COMPLIANCE MONITORING REQUIREMENTS</b>																			
Limit				Monitoring			Source #	101 ABCD	201 AB	202	203 ABC	301 AB	302 ABC	401 ABCD	402 AB	403(Reserved)	404	501	502
Type	Citation	FE Y/N	Future Effective Date	Description	Citation	Frequency (P/C/N)	Type												
TVP	BAAQMD Condition 13605 Part 2	Y		True Vapor Pressure shall not exceed 7.6 psia	BAAQMD Condition 13605 Part 5	P/M	Records	S323											
VOC	BAAQMD Condition 13605 Part 3	N		Control device standards; includes 99.5% efficiency requirement	BAAQMD Condition 21053 Part 3 and 4	P/A	Source Test (ST-4)	S323											
VOC	BAAQMD Condition 21053 Part 3	Y		Vapor recovery system shall have a destruction efficiency of at least 99.5% by weight	BAAQMD Condition 21053 Part 3	P/every 5 years prior to Title V renewal	Source Test	S323											
VOC	BAAQMD Condition 21100 Part 2	Y		Vapor recovery system shall have a destruction efficiency of at least 99.5% by weight	BAAQMD Condition 21100 Part 4	P/every 5 years prior to Title V renewal	Source Test	S1496											
POC	BAAQMD Condition 21100 Part 3	Y		POC emissions shall not exceed 8,868 pounds per year	BAAQMD Condition 21100 Part 5	P/I and upon change of service	Calculate	S1496											
TVP	BAAQMD Condition 21100 Part 3	Y		True Vapor Pressure shall not exceed 11 psia	BAAQMD Condition 21100 Part 5	P/M	Records	S1496											
POC	BAAQMD Condition 21393 Part 2	Y		POC emissions shall not exceed 15,904 pounds per year	BAAQMD Condition 21393 Part 4	P/I and upon change of service	Calculate	S871											

**VII. Applicable Limits & Compliance Monitoring Requirements**

<b>Table VII – F.3                      Applicable Limits and Compliance Monitoring Requirements                      TANK GROUP APPLICABLE LIMITS &amp; COMPLIANCE MONITORING REQUIREMENTS</b>																			
Limit				Monitoring			Source #	101 ABCD	201 AB	202	203 ABC	301 AB	302 ABC	401 ABCD	402 AB	403(Reserved)	404	501	502
Type	Citation	FE Y/N	Future Effective Date	Description	Citation	Frequency (P/C/N)	Type												
TVP	BAAQMD Condition 21393 Part 2	Y		True Vapor Pressure shall not exceed 11 psia	BAAQMD Condition 21393 Part 4	P/M	Records	S871											
VOC	BAAQMD Condition 21536 Part 2 and 3	Y		Overall collection and adsorption efficiency of at least 95% by weight POC	BAAQMD Condition 21536 Part 4 and 5	P/E	PID or FID	S1489 S1490 S1491											
POC	BAAQMD Condition 21536 Part 3	Y		POC emissions shall not exceed 711.50 pounds per year	BAAQMD Condition 21536 Part 10	P/I and upon change of service	Calculate	S1489 S1490											
POC	BAAQMD Condition 21536 Part 4	Y		POC emissions shall not exceed 355.75 pounds per year	BAAQMD Condition 21536 Part 10	P/I and upon change of service	Calculate	S1491											
TVP	BAAQMD Condition 21536 Part 4A and 4B	Y		True Vapor Pressure shall not exceed 11 psia	BAAQMD Condition 21536 Part 10	P/M	Records	S1489 S1490 S1491											
POC	BAAQMD Condition 22640 Part 2	Y		POC emissions shall not exceed 8,384.42 pounds per year	BAAQMD Condition 22640 Part 4	P/I and upon change of service	Calculate	S1506 S1507											
TVP	BAAQMD Condition 22640 Part 2	Y		True Vapor Pressure shall not exceed 11 psia	BAAQMD Condition 22640 Part 4	P/M	Records	S1506 S1507											

**VII. Applicable Limits & Compliance Monitoring Requirements**

<b>Table VII – F.3                      Applicable Limits and Compliance Monitoring Requirements                      TANK GROUP APPLICABLE LIMITS &amp; COMPLIANCE MONITORING REQUIREMENTS</b>																				
Limit					Monitoring			Source #	101 ABCD	201 AB	202	203 ABC	301 AB	302 ABC	401 ABCD	402 AB	403(Reserved)	404	501	502
Type	Citation	FE Y/N	Future Effective Date	Description	Citation	Frequency (P/C/N)	Type													
TVP	BAAQMD Condition 23486 Part 2	Y		True Vapor Pressure shall not exceed 11 psia	BAAQMD Condition 23486 Part 4	P/M	Records	S1508												
TVP	BAAQMD Condition 23739 Part 2	Y		True Vapor Pressure shall not exceed 7.3 psia	BAAQMD Condition 23739 Part 3	P/M	Records	S1521												
POC	BAAQMD Condition 25025 Part 2	Y		POC emissions shall not exceed 386 pounds per any consecutive 12-month period	BAAQMD Condition 25025 Part 7	P/I and upon change of service	Calculate	S1554												
NPOC	BAAQMD Condition 25025 Part 2	Y		POC emissions shall not exceed 0 pounds per any consecutive 12-month period	BAAQMD Condition 25025 Part 7	P/I and upon change of service	Calculate	S1554												
Toxic Emissions	BAAQMD Condition 25025 Part 2	Y		POC emissions shall not exceed any toxic trigger	BAAQMD Condition 25025 Part 7	P/I and upon change of service	Calculate	S1554												
TVP	BAAQMD Condition 25025 Part 1	Y		True Vapor Pressure shall not exceed 0.235 psia	BAAQMD Condition 25025 Part 7	P/M	Records	S1554												
TVP	BAAQMD Condition 25025 Part 1	Y		True Vapor Pressure shall not exceed 4.65 psia for more than 200 hrs per consecutive 12-month period	BAAQMD Condition 25025 Part 7	P/M	Records	S1554												

**VII. Applicable Limits & Compliance Monitoring Requirements**

<b>Table VII – F.3                      Applicable Limits and Compliance Monitoring Requirements                      TANK GROUP APPLICABLE LIMITS &amp; COMPLIANCE MONITORING REQUIREMENTS</b>																			
Limit				Monitoring			Source #	101 ABCD	201 AB	202	203 ABC	301 AB	302 ABC	401 ABCD	402 AB	403(Reserved)	404	501	502
Type	Citation	FE Y/N	Future Effective Date	Description	Citation	Frequency (P/C/N)	Type												
TVP	BAAQMD Condition 24724 Part 1	Y		True Vapor Pressure shall not exceed 11.0 psia	BAAQMD Condition 24724 Part 3	P/M	Records	S690											
<b>BAAQMD Permit Conditions (Throughputs)</b>																			
Through-put	BAAQMD Condition 5711 Part 1	Y		11,000 gallons per 12 months	BAAQMD Condition 5711 Part 4	P/D P/M	Records	S795											
Through-put	BAAQMD Condition 6740 Part 3	Y		1,200,000 bbls per consecutive 12 months	BAAQMD Condition 6740 Part 5	P/D	Records	S612											
Through-put	BAAQMD Condition 10984 Part 2	Y		1,915,000 bbls in any consecutive 12 month period	BAAQMD Condition 10984 Part 4	P/M	Records	S137											
Through-put	BAAQMD Condition 13282 Part 1	Y		2,490,000 bbls per any 12 consecutive month period	BAAQMD Condition 13282 Part 4	P/M	Records	S1421											
Through-put	BAAQMD Condition 13605 Part 1	Y		2,000,000 bbls per each rolling 12 consecutive month period	BAAQMD Condition 13605 Part 5	P/M	Records	S323											
Through-put	BAAQMD Condition 17477 Part A1 and C1	Y		50,000,000 bbls in any consecutive 12 month period	BAAQMD Condition 17477 Part A6 and C6	P/M	Records	S1461 S1463											

**VII. Applicable Limits & Compliance Monitoring Requirements**

<b>Table VII – F.3                      Applicable Limits and Compliance Monitoring Requirements                      TANK GROUP APPLICABLE LIMITS &amp; COMPLIANCE MONITORING REQUIREMENTS</b>																			
Limit				Monitoring			Source #	101 ABCD	201 AB	202	203 ABC	301 AB	302 ABC	401 ABCD	402 AB	403(Reserved)	404	501	502
Type	Citation	FE Y/N	Future Effective Date	Description	Citation	Frequency (P/C/N)	Type												
Through-put	BAAQMD Condition 17477 Part D1 and E1	Y		10,000,000 bbls in any consecutive 12 month period	BAAQMD Condition 17477 Part D5 and E5	P/M	Records	S1464 S1465											
Through-put	BAAQMD Condition 19197 Part 2	Y		3000 gallons per 12 months	BAAQMD Condition 19197 Part 7	P/M rolling 12-month	Records	S1473											
Through-put	BAAQMD Condition 19762 Part A1	Y		11,336,000 bbls in every consecutive 12 month period	BAAQMD Condition 19762 Part A6	P/M	Records	S775											
Through-put	BAAQMD Condition 20520 Part 1	Y		11,000,000 bbls in any any consecutive 12 month period	BAAQMD Condition 20520 Part 6	P/M	Records	S1485											
Through-put	BAAQMD Condition 20923 Part 1	Y		700,000 bbls in every consecutive 12 month period	BAAQMD Condition 20923 Part 4	P/M	Records	S134											
Through-put	BAAQMD Condition 21100 Part 1	Y		2,500,000 bbls in any consecutive 12-month period	BAAQMD Condition 21100 Part 5	P/M	Records	S1496											

**VII. Applicable Limits & Compliance Monitoring Requirements**

<b>Table VII – F.3</b> <b>Applicable Limits and Compliance Monitoring Requirements</b> <b>TANK GROUP APPLICABLE LIMITS &amp; COMPLIANCE MONITORING REQUIREMENTS</b>																					
Limit					Monitoring			Source #	101 ABCD	201 AB	202	203 ABC	301 AB	302 ABC	401 ABCD	402 AB	403(Reserved)	404	501	502	
Type	Citation	FE Y/N	Future Effective Date	Description	Citation	Frequency (P/C/N)	Type														
Through-put	BAAQMD Condition 21393 Part 1	Y		20,000,000 bbls in any consecutive 12 month period	BAAQMD Condition 21393 Part 4	P/M	Records	S33													
Through-put	BAAQMD Condition 21536 Part 1 and 2	Y		13,000 bbls in any consecutive 12 month period	BAAQMD Condition 21536 Part 9 and 10	P/M	Records	S1489													
Through-put	BAAQMD Condition 22455 Part 9	Y		70,080,000 bbls in any consecutive 12 month period	BAAQMD Condition 22455 Part 12	P/M	Records	B19													
Through-put	BAAQMD Condition 22640 Part 1	Y		11,000,000 bbls in any consecutive 12 month period	BAAQMD Condition 22640 Part 4	P/M	Records	S1506													
Through-put	BAAQMD Condition 24724 Part 1	Y		18,250,000 bbls in any consecutive 12 month period	BAAQMD Condition 24724 Part 3	P/M	Records	S690													



**VII. Applicable Limits & Compliance Monitoring Requirements**

<b>Table VII – F.3                      Applicable Limits and Compliance Monitoring Requirements                      TANK GROUP APPLICABLE LIMITS &amp; COMPLIANCE MONITORING REQUIREMENTS</b>																			
Limit				Monitoring			Source #	101 ABCD	201 AB	202	203 ABC	301 AB	302 ABC	401 ABCD	402 AB	403(Reserved)	404	501	502
Type	Citation	FE Y/N	Future Effective Date	Description	Citation	Frequency (P/C/N)	Type												
Through-put	BAAQMD Condition 23263 Part a.1	Y		2,500,000 bbls in any consecutive 12 month period	BAAQMD Condition 23263 Part a.3	P/M	Records	S896											
Through-put	BAAQMD Condition 23486 Part 1	Y		1,689,000 barrels in consecutive 12 months	BAAQMD Condition 23486 Part 4	P/M	Records	S1508 S1509 combined											
Through-put	BAAQMD Condition 23739 Part 1	Y		10,000,000 bbls in any consecutive 12 month period	BAAQMD Condition 23739 Part 3	P/M	Records	S1521											
Through-put	BAAQMD Condition 25025 Part 1	Y		420,000,000 gallons in any consecutive 12 month period	BAAQMD Condition 25025 Part 7	P/M	Records	S1554											

## VII. Applicable Limits & Compliance Monitoring Requirements

### SECTION G WASTEWATER SOURCES (EXCEPT TANKS)

**Table VII – G.1**  
**Applicable Limits and Compliance Monitoring Requirements**  
**WASTEWATER COMPONENTS SUBJECT TO BAAQMD 8-8**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
VOC	BAAQMD 8-8-312	N		Controlled WW collection system components: vapor tight	BAAQMD 8-8-402.4 8-8-504 8-8-603	P/SA	Method 21 portable hydrocarbon detector
VOC	BAAQMD 8-8-313.2	N		Uncontrolled WW collection system components; vapor tight	BAAQMD 8-8-313.2 8-8-402.3 8-8-504 8-8-603	P/SA	Method 21 portable hydrocarbon detector
VOC	BAAQMD 8-8-313.2	N		Uncontrolled WW collection system components; not vapor tight on regular semi-annual inspection	BAAQMD 8-8-313.2 8-8-402.3 8-8-504 8-8-603	P/ Reinspect within 30 days of discovery and every 30 days until controlled or returned to semi-annual inspection schedule	Method 21 portable hydrocarbon detector
VOC	BAAQMD 8-8-312 8-8-313.2 8-8-402.1	N		Wastewater Inspection and Maintenance Plan Records	BAAQMD 8-8-505	P/E Each inspection and repair	Records

**VII. Applicable Limits & Compliance Monitoring Requirements**

**Table VII – G.2  
 Applicable Limits and Compliance Monitoring Requirements  
 INDIVIDUAL DRAIN SYSTEMS SUBJECT TO 40 CFR 60 SUBPART QQQ**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
POC	40 CFR 60.692-2 (a)(2)	Y		adequate water seal level in active drains	40 CFR 60.692-2 (a)(2)	P/M	Visual inspection
POC	40 CFR 60.692-2 (a)(3)	Y		adequate water seal level in inactive drains if not tightly sealed or plugged	40 CFR 60.692-2 (a)(3)	P/W	Visual inspection
POC	40 CFR 60.692-2 (a)(4)	Y		adequate water seal level in inactive drains if tightly sealed or plugged	40 CFR 60.692-2 (a)(4)	P/SA	Visual inspection
POC	40 CFR 60.692-2 (b)(2)	Y		Tight seals at junction boxes	40 CFR 60.692-2 (b)(3)	P/SA	Visual inspection
POC	40 CFR 60.692-2 (c)(1)	Y		No cracks, gaps, or problems in unburied sewer lines	40 CFR 60.692-2 (c)(2)	P/SA	Visual inspection

**VII. Applicable Limits & Compliance Monitoring Requirements**

**Table VII – G.3  
 Applicable Limits and Compliance Monitoring Requirements  
 S513 – Tank A-513  
 Wastewater Sludge Tank – Abated by A14 Vapor Recovery**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	BAAQMD 8-8-303	Y		Vapor tight gauging and sampling devices	BAAQMD 8-8-504 8-8-603 SIP 8-8-603	N	Method 21 portable hydrocarbon detector
VOC	BAAQMD 8-8-304	N		Control device standards; includes 95% efficiency	BAAQMD 8-8-602	N	Source Test
VOC	SIP 8-8-304	Y		Control device standards; includes 95% efficiency	SIP 8-8-602	N	Source Test
VOC	40 CFR 60.112b (a)(3)(i)	Y		Closed vent system leak tightness standards (< 500 ppmw)	40 CFR 60.112b (a)(3)(i)	N	Method 21
VOC	40 CFR 60.112b (a)(3)(ii)	Y		Control device standards; includes 95% efficiency requirement	40 CFR 60.113b(c)(1)(i)	One Time	Records
VOC	40 CFR 63.647(a) 61.343(a)(1)(i)(A)	Y		Tank cover and openings leak tightness standards (< 500 ppmw)	40 CFR 63.647(a) 61.343(a)(1)(i)(A)	P/A	Method 21
VOC	40 CFR 63.647(a) 61.343(a)(1)(i)(B)	Y		Tank openings maintained in closed and sealed position	40 CFR 63.647(a) 61.343(c)	P/Q	Visual inspection
VOC	63.647(a) 61.349(a) (1)(ii)(B)	Y		CVS with bypass line car-seal closed	63.647(a) 61.354(f)(1)	P/M	Visual inspection
VOC	63.647(a) 61.349(a) (2)(ii)	Y		Control device standards; includes 95% VOC efficiency requirement	63.647(a) 61.340(d)	N	Exempt from control standards – vented to fuel gas
VOC	63.647(a) 61.349(f)	Y		CVS evidence of visual defects	63.647(a) 61.349(f)	P/Q	Visual inspection
POC	Condition 21053 Part 6	Y		Destruction Efficiency at least 95% by weight	Condition 21053 Part 7	P/5 years	Source Test

**VII. Applicable Limits & Compliance Monitoring Requirements**

**Table VII – G.3  
 Applicable Limits and Compliance Monitoring Requirements  
 S513 – Tank A-513  
 Wastewater Sludge Tank – Abated by A14 Vapor Recovery**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NONE	40 CFR 63 Subpart CC – NESHAP for Petroleum Refineries EXEMPT per 63.640(d)(5) – The affected source subject to this subpart does not include emission points routed to a fuel gas system						

**Table VII – G.4  
 Applicable Limits and Compliance Monitoring Requirements  
 S532–OIL WATER SEPARATOR; TANK T-532 - 50 UNIT DESALTER SKIM TANK  
 S1484-OIL WATER SEPARATOR – 50 UNIT DESALTER OWS  
 ABATED BY A14 VAPOR RECOVERY**

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 61.347 (a)(1)(i)(A)	Y		500 ppmv	40 CFR 61.347(a)(1)(i)(A) 61.355(h)	P/A	Method 21 portable hydrocarbon detector
POC	40 CFR 61.347 (a)(1)(i)(B)	Y		No cracks, gaps, or problems in OWS	40 CFR 61.347(b)	P/Q	Visual Inspection
POC	40 CFR 61.349 (a)(1)(ii)(B)	Y		CVS with bypass line car-seal closed	40 CFR 61.354(f)(1)	P/M	Visual Inspection
POC	40 CFR 61.349(a)(1)(iii)	Y		500 ppmv (Gauging & Sampling devices)	40 CFR 61.355(h)	N	Method 21 portable hydrocarbon detector
VOC	BAAQMD 8-8-301.3	N		95% collection and destruction	BAAQMD 8-8-602	N	Source Test
VOC	SIP 8-8-301.3	Y		95% collection and destruction	SIP 8-8-602	N	Source Test
VOC	BAAQMD 8-8-303	Y		Vapor tight gauging and sampling devices	BAAQMD 8-8-504 8-8-603 SIP 8-8-603	N	Method 21 portable hydrocarbon detector

**VII. Applicable Limits & Compliance Monitoring Requirements**

**Table VII – G.4  
 Applicable Limits and Compliance Monitoring Requirements  
 S532–OIL WATER SEPARATOR; TANK T-532 - 50 UNIT DESALTER SKIM TANK  
 S1484-OIL WATER SEPARATOR – 50 UNIT DESALTER OWS  
 ABATED BY A14 VAPOR RECOVERY**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC (S532)	BAAQMD Condition 20099, Part 4	Y		98% collection and destruction	BAAQMD Condition 20099, Part 6	P/every 5 years prior to the Title V Permit Renewal	Source Test
Through-put (S1484)	BAAQMD Condition 19762, Part B1	Y		2,505,360 barrels/ 12 consecutive month period	BAAQMD Condition 19762, Part B4	P/M and P/A	Records
Through-put (S532)	BAAQMD Condition 20099, Part 1	Y		2,505,360 barrels 12 consecutive month period	BAAQMD Condition 20099, Part 8	P/M and P/A	Records
Duration (S532)	BAAQMD Condition 20099, Part 7	Y		Preventative Maintenance on A-14 not to exceed 36 hours per any consecutive 12 month period	BAAQMD Condition 20099, Part 9	P/M	Records
Through-put (S532)	BAAQMD Condition 20099, Part 7	Y		There will be no liquid flow to T-532 during preventative maintenance on A-14	BAAQMD Condition 20099, Part 9	P/M	Records

**Table VII – G.5  
 Applicable Limits and Compliance Monitoring Requirements  
 S606–50 UNIT WASTEWATER AIR STRIPPER A  
 S607–50 UNIT WASTEWATER AIR STRIPPER B  
 ABATED BY S950**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	BAAQMD 8-2-301	Y		< 15 lb/day or < 300 ppm as total carbon	BAAQMD 8-2-601 BAAQMD Condition 7410, Part 6	C	Temperature monitoring

**VII. Applicable Limits & Compliance Monitoring Requirements**

**Table VII – G.5  
 Applicable Limits and Compliance Monitoring Requirements  
 S606–50 UNIT WASTEWATER AIR STRIPPER A  
 S607–50 UNIT WASTEWATER AIR STRIPPER B  
 ABATED BY S950**

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 61.348(e)	Y		Treatment system openings closed at all times except in use	40 CFR 61.348(e)(1) 63.647(a)	P/Q	Visual Inspection
POC	40 CFR 61.349(a)(1)(i) 63.647(a)	Y		500 ppmv (Closed vent system)	40 CFR 61.349(a)(1)(i) 61.355(h) 63.647(a)	P/A	Method 21 portable hydrocarbon detector
POC	40 CFR 61.349 (a)(1)(ii)(B)	Y		CVS with bypass line car-seal closed	40 CFR 61.354(f)(1)	P/M	Visual Inspection
POC	40 CFR 61.349(a)(1)(iii) 63.647(a)	Y		Gas tight (500 ppmv) (Gauging & Sampling devices)	40 CFR 61.355(h) 63.647(a)	N	Method 21 portable hydrocarbon detector
POC	40 CFR 61.349 (a)(2)(i)(C)	Y		Min. residence time of 0.5 seconds @ > 760 deg. C (1400 deg. F)	40 CFR 61.354(c)(5) BAAQMD Condition 7410, Parts 5, 6	C	Temperature monitoring
Through-put	BAAQMD Condition 7410, Part 2	Y		700 scfm total from S606 and S607 to S950	None	N	N/A
NMHC	BAAQMD Condition 7410, Part 3	Y		20 ppm as methane from S950, rolling hourly average	BAAQMD Condition 7410, Part 6	C	Temperature monitoring
H2S	BAAQMD Condition 7410, Part 4	Y		1 ppm from S950, rolling hourly average	BAAQMD Condition 7410, Part 6	C	Temperature monitoring
Temperature	BAAQMD Condition 7410, Part 5	Y		> 1500° F at S950	BAAQMD Condition 7410, Part 6	C	Temperature monitoring

**VII. Applicable Limits & Compliance Monitoring Requirements**

**Table VII – G.6  
 Applicable Limits and Compliance Monitoring Requirements  
 S699 –Tank A-699  
 API Separator Recovered Oil Tank  
 Abated by A14 Vapor Recovery**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
POC	40 CFR 60.692-3(a)(3) 60.692-3(a)(4)	Y		No cracks or gaps between the roof and wall and openings closed and gasketed properly	40 CFR 60.692-3(a)(4)	P/SA	Visual Inspections
POC	40 CFR 60.692-3(a)(2) 60.692-5	Y		Purge closed vent system to control device Closed vent system standards	None (when routed to fuel gas system) 40 CFR 60.691 [closed vent system]	N	N/A Exemption for gasees routed to refinery fuel gas system
VOC	BAAQMD 8-8-303	Y		Vapor tight gauging and sampling devices	BAAQMD 8-8-504 8-8-603 SIP 8-8-603	N	Method 21 portable hydrocarbon detector
VOC	BAAQMD 8-8-305.2	N		Control device standards; includes 70% efficiency	BAAQMD 8-8-602	N	Source Test
VOC	SIP 8-8-305.2	Y		Control device standards; includes 70% efficiency	SIP 8-8-602	N	Source Test
<b>NONE</b>	<b>40 CFR 63 Subpart CC – NESHAP for Petroleum Refineries                  EXEMPT per 63.640(d)(5) – The affected source subject to this subpart does not include emission points routed to a fuel gas system</b>						



**VII. Applicable Limits & Compliance Monitoring Requirements**

**Table VII – G.7  
 Applicable Limits and Compliance Monitoring Requirements  
 S700 - Tank A-700  
 API Separator Sludge Tank**

<b>Type of Limit</b>	<b>Citation of Limit</b>	<b>FE Y/N</b>	<b>Future Effective Date</b>	<b>Limit</b>	<b>Monitoring Requirement Citation</b>	<b>Monitoring Frequency (P/C/N)</b>	<b>Monitoring Type</b>
VOC	BAAQMD 8-8-303	Y		Vapor tight gauging and sampling devices	BAAQMD 8-8-504 8-8-603 SIP 8-8-603	N	Method 21 portable hydrocarbon detector
VOC	BAAQMD 8-8-305.1	N		No cracks or gaps greater than 0.125 inch in roof or between roof and wall	BAAQMD 8-8-305.1	P/SA	Visual Inspection
VOC	SIP 8-8-305.1	Y		No cracks or gaps greater than 0.125 inch in roof or between roof and wall	SIP 8-8-305.1	P/SA	Visual Inspection

## VII. Applicable Limits & Compliance Monitoring Requirements

**Table VII – G.8**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S819–API OIL WATER SEPARATOR (OWS)/DISSOLVED NITROGEN FLOTATION (DNF)**  
**ABATED BY A39 OR ABATED BY A14 VAPOR RECOVERY**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
POC	40 CFR 60.692-3(a)(3) 60.692-3(a)(4)	Y		No cracks or gaps between roof and wall and openings closed and gasketed properly	40 CFR 60.692-3(a)(4)	P/SA	Visual Inspection
Pressure	BAAQMD Condition 7406, Part B3	Y		Air space below DNF covers controlled to pressure less than atmospheric	None	N	N/A
VOC	BAAQMD 8-8-114	N		Exemption for Bypassed Oil-Water Separator or Air Flotation Unit Influent	BAAQMD 8-8-501 8-8-601	P/E	Records and sample analysis
VOC	SIP 8-8-114	Y		Exemption for Bypassed Oil-Water Separator or Air Flotation Unit Influent	SIP 8-8-501 8-8-601	P/E	Records and sample analysis
VOC	BAAQMD 8-8-302.3	Y		95% collection and destruction [API Separator]	BAAQMD 8-8-602	N	Source Test
VOC	SIP 8-8-302.3	Y		95% collection and destruction [API Separator]	BAAQMD 8-8-602	N	Source Test
VOC	BAAQMD 8-8-302.6	N		Vapor tight roof seals, fixed covers, access doors, openings [API Separator]	BAAQMD 8-8-504 8-8-603 SIP 8-8-603	N	Method 21 portable hydrocarbon detector
VOC	BAAQMD 8-8-303	Y		Vapor tight gauging and sampling devices	BAAQMD 8-8-504 8-8-603 SIP 8-8-603	N	Method 21 portable hydrocarbon detector
VOC	BAAQMD 8-8-307.2	N		70% collection and destruction efficiency, vapor recovery system [DNF]	BAAQMD 8-8-602	N	Source Test

**VII. Applicable Limits & Compliance Monitoring Requirements**

**Table VII – G.8  
 Applicable Limits and Compliance Monitoring Requirements  
 S819–API OIL WATER SEPARATOR (OWS)/DISSOLVED NITROGEN FLOTATION (DNF)  
 ABATED BY A39 OR ABATED BY A14 VAPOR RECOVERY**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	SIP 8-8-307.2	Y		70% collection and destruction efficiency, vapor recovery system [DNF]	BAAQMD 8-8-602	N	Source Test
<b>Applicable requirements when S-819 is Abated by A-39 Thermal Oxidizer</b>							
H2S	BAAQMD Condition 7406, Part B7	Y		< 1 ppm H2S from A39	BAAQMD Condition 7406, Parts B10, B11	C	Temperature monitoring
NMHC	BAAQMD Condition 7406, Part B5A	Y		< 10 ppm NMHC as C1 on rolling one hour basis from A39	BAAQMD Condition 7406, Parts B10, B11	C	Temperature monitoring
POC	40 CFR 60.692-5(a)	Y		Combustion devices ≥ 95% destruction efficiency or ≥ 0.75 seconds and ≥ 816°C	40 CFR 60.695(a)(1)	C	Temperature monitor & recorder
POC	40 CFR 60.692-5(e)(1)	Y		500 ppm (Closed vent system)	40 CFR 60.692-5(e)(1)	P/SA	Method 21 portable hydrocarbon detector
POC	40 CFR 60.692-5(e)(2)	Y		Purge closed vent system to control device	40 CFR 60.692-5(e)(3)	C	Flow Indicator
POC	40 CFR 60.692-5(e)(4)	Y		Gas Tight (500 ppm) (Gauging and Sampling devices)	40 CFR 60.696(b)	N	Method 21 portable hydrocarbon detector
Temperature	BAAQMD Condition 7406, Part B10	Y		A39 > 1350° F	BAAQMD Condition 7406, Part B11	C	Temperature monitoring
<b>Applicable requirements when S-819 is Abated by A14 Vapor Recovery</b>							
POC	40 CFR 60.692-3(a)(2) 60.692-5	Y		Purge closed vent system to control device Closed vent system standards	40 CFR 60.691 [closed vent system]	N	Exemption for gasees routed to refinery fuel gas system

**VII. Applicable Limits & Compliance Monitoring Requirements**

**Table VII – G.8  
 Applicable Limits and Compliance Monitoring Requirements  
 S819–API OIL WATER SEPARATOR (OWS)/DISSOLVED NITROGEN FLOTATION (DNF)  
 ABATED BY A39 OR ABATED BY A14 VAPOR RECOVERY**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NONE	40 CFR 63 Subpart CC – NESHAP for Petroleum Refineries EXEMPT per 63.640(d)(5) – The affected source subject to this subpart does not include emission points routed to a fuel gas system						

**Table VII – G.9  
 Applicable Limits and Compliance Monitoring Requirements  
 S830 – WASTEWATER SURGE PONDS  
 S831–BIO-OXIDATION POND,  
 S842–WASTEWATER TREATMENT PLANT  
 S1101, S1102, S1103, S1104-SUBSURFACE AERATOR SYSTEMS**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NONE	BAAQMD Regulation 8, Rule 8 Exempt per 8-8-113						

**Table VII – G.10  
 Applicable Limits and Compliance Monitoring Requirements  
 S1026–DNF EFFLUENT AIR STRIPPER  
 ABATED BY A39 THERMAL OXIDIZER**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
None	BAAQMD Regulation 8, Rule 8 Exempt per 8-8-113						
Pressure	BAAQMD Condition 7406, Part B3	Y		Air space below DNF covers controlled to pressure less than atmospheric	None	N	N/A
NMHC	BAAQMD Condition 7406, Part B5A	Y		< 10 ppm NMHC as C1 on rolling one hour basis from A39	BAAQMD Condition 7406, Parts B10, B11	C	Temperature monitoring

**VII. Applicable Limits & Compliance Monitoring Requirements**

**Table VII – G.10  
 Applicable Limits and Compliance Monitoring Requirements  
 S1026–DNF EFFLUENT AIR STRIPPER  
 ABATED BY A39 THERMAL OXIDIZER**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
H2S	BAAQMD Condition 7406, Part B7	Y		< 1 ppm H2S from A39	BAAQMD Condition 7406, Parts B10, B11	C	Temperature monitoring
Temperature	BAAQMD Condition 7406, Part B10	Y		A39 > 1350° F	BAAQMD Condition 7406, Parts B10, B11	C	Temperature monitoring

**VII. Applicable Limits & Compliance Monitoring Requirements**

**SECTION H SULFUR AND AMMONIA PROCESSING**

**Table VII – H.1  
 Applicable Limits and Compliance Monitoring Requirements  
 S851–AMMONIA RECOVERY UNIT**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
POC	BAAQMD 8-2-301	Y		15 lbs/day & 300 ppm total carbon, dry basis	BAAQMD 8-2-601	N	Source test

**Table VII – H.2  
 Applicable Limits and Compliance Monitoring Requirements  
 S1401-CLAUS MODIFIED 3-STAGE SULFUR RECOVERY UNIT  
 ABATED BY A1402 SCOT TAILGAS UNIT AND A1525 SRU STACK INCINERATORS**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
SO2	BAAQMD 9-1-307	Y		250 ppmv, dry, at 0% oxygen	BAAQMD 9-1-502 1-520.4	C	SO2 CEM
SO2	40 CFR 60.104 (a)(2)(i) 60.105 (e)(4)(i) 63.1568 (a)(1) BAAQMD Condition 267, Part 5	Y		250 ppmv, dry, at 0% excess air, 12 hour average	40 CFR 60.105(a)(5) 63.1568 (b)(1) 63.1568 (c)(1) BAAQMD Condition 267, Part 5	C	SO2 CEM
SO2	BAAQMD Condition 267, Part 2	Y		4 lbs/ton of sulfur processed	BAAQMD Condition 267, Part 3	P/M	Records

## VII. Applicable Limits & Compliance Monitoring Requirements

**Table VII – H.2**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S1401-CLAUS MODIFIED 3-STAGE SULFUR RECOVERY UNIT**  
**ABATED BY A1402 SCOT TAILGAS UNIT AND A1525 SRU STACK INCINERATORS**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
O2	BAAQMD Condition 267, Part 5	Y		No Limit	40 CFR 60.105(a)(5) 63.1568 (b)(1) 63.1568(c)(1) BAAQMD Condition 267, Part 5	C	O2 CEM
Visible Emissions	BAAQMD 6-1-301	N		≥ Ringelmann No. 1 for no more than 3 minutes/hour	BAAQMD Condition 21053, Part 2	P/M	Visible Inspection
Visible Emissions	SIP 6-301	Y		≥ Ringelmann No. 1 for no more than 3 minutes/hour	BAAQMD Condition 21053, Part 2	P/M	Visible Inspection
Visible Particles	BAAQMD 6-1-305	N		Prohibition of nuisance	None	N	N/A
Visible Particles	SIP 6-305	Y		Prohibition of nuisance	None	N	N/A
FP	BAAQMD 6-1-310	N		0.15 grain/dscf	None	N	N/A
FP	SIP6-310	Y		0.15 grain/dscf	None	N	N/A
FP	BAAQMD 6-1-311	N		4.10 P <sup>0.67</sup> lb/hr particulate, where P is process weight rate in ton/hr	None	N	N/A
FP	SIP 6-311	Y		4.10 P <sup>0.67</sup> lb/hr particulate, where P is process weight rate in ton/hr	None	N	N/A
SO3, H2SO4	BAAQMD 6-1-330	N		183 mg/dscm (0.08 grain/dscf) exhaust concentration of SO3 and H2SO4, expressed as 100% H2SO4	BAAQMD Condition 19528, Part 9	P/A	Source Test

**VII. Applicable Limits & Compliance Monitoring Requirements**

**Table VII – H.2  
 Applicable Limits and Compliance Monitoring Requirements  
 S1401-CLAUS MODIFIED 3-STAGE SULFUR RECOVERY UNIT  
 ABATED BY A1402 SCOT TAILGAS UNIT AND A1525 SRU STACK INCINERATORS**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
SO3, H2SO4	SIP 6-330	Y		183 mg/dscm (0.08 grain/dscf) exhaust concentration of SO3 and H2SO4, expressed as 100% H2SO4	BAAQMD Condition 19528, Part 9	P/A	Source Test

**Table VII –H.3  
 Applicable Limits and Compliance Monitoring Requirements  
 S1404-SULFUR STORAGE TANK  
 ABATED BY A1422**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Visible Emissions	BAAQMD 6-1-301	N		≥ Ringelmann No. 1 for no more than 3 minutes/hour	BAAQMD Condition 21053, Part 2	P/M	Visible Inspection
Visible Emissions	SIP 6-301	Y		≥ Ringelmann No. 1 for no more than 3 minutes/hour	BAAQMD Condition 21053, Part 2	P/M	Visible Inspection
Visible Particles	BAAQMD 6-1-305	N		Prohibition of nuisance	None	N	N/A
Visible Particles	SIP 6-305	Y		Prohibition of nuisance	None	N	N/A
FP	BAAQMD 6-1-310	N		0.15 grain/dscf	None	N	N/A
FP	SIP 6-310	Y		0.15 grain/dscf	None	N	N/A
FP	BAAQMD 6-1-311	N		4.10 P <sup>0.67</sup> lb/hr particulate, where P is process weight rate in ton/hr	None	N	N/A



**VII. Applicable Limits & Compliance Monitoring Requirements**

**Table VII –H.3  
 Applicable Limits and Compliance Monitoring Requirements  
 S1404-SULFUR STORAGE TANK  
 ABATED BY A1422**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
FP	SIP 6-311	Y		$4.10 P^{0.67}$ lb/hr particulate, where P is process weight rate in ton/hr	None	N	N/A
PM [A1422]	BAAQMD Condition 8535, Part 1	Y		0.01 grains/dscf from A1422	BAAQMD Condition 8535, Part 3	C	Pressure Drop Monitor
Pressure drop [A1422]	BAAQMD Condition 8535, Part 3	Y		$\geq 9$ inches water gauge pressure drop across A1422	BAAQMD Condition 8535, Part 3	C	Pressure Drop Monitor

**Table VII – H.4  
 Applicable Limits and Compliance Monitoring Requirements  
 S1405-SULFUR COLLECTION PIT  
 ABATED BY S1401 SRU OR S1411 SAP**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Visible Emissions	BAAQMD 6-1-301	N		$\geq$ Ringelmann No. 1 for no more than 3 minutes/hour	None	N	N/A
Visible Emissions	SIP 6-301	Y		$\geq$ Ringelmann No. 1 for no more than 3 minutes/hour	None	N	N/A
Visible Particles	BAAQMD 6-1-305	N		Prohibition of nuisance	None	N	N/A
Visible Particles	SIP 6-305	Y		Prohibition of nuisance	None	N	N/A

**VII. Applicable Limits & Compliance Monitoring Requirements**

**Table VII – H.4  
 Applicable Limits and Compliance Monitoring Requirements  
 S1405-SULFUR COLLECTION PIT  
 ABATED BY S1401 SRU OR S1411 SAP**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
FP	BAAQMD 6-1-310	N		0.15 grain/dscf	None	N	N/A
FP	SIP 6-310	Y		0.15 grain/dscf	None	N	N/A
FP	BAAQMD 6-1-311	N		4.10 P <sup>0.67</sup> lb/hr particulate, where P is process weight rate in ton/hr	None	N	N/A
FP	SIP 6-311	Y		4.10 P <sup>0.67</sup> lb/hr particulate, where P is process weight rate in ton/hr	None	N	N/A

**Table VII-H.5  
 S1411-SULFURIC ACID MANUFACTURING PLANT (SAP)**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
SO2	BAAQMD 9-1-309	Y		<= 300 ppm @ 12% oxygen	BAAQMD 9-1-502 9-1-605 1-520.3	C	CEM
Acid mist (SAM)	BAAQMD 12-6-301	N		<= 0.15 g/kg (0.3 lb/ton) of acid produced	BAAQMD Condition 19528, Part 20	P/A	Source Test
Acid mist (SAM)	40 CFR 60.31d	Y		Guideline: 0.25 g/kg (0.5 lb/ton) of acid produced	BAAQMD Condition 19528, Part 20	P/A	Source Test
SO3 and H2SO4	BAAQMD 6-1-320	N		0.04 grain/dscf	BAAQMD Condition 19528, Part 20	P/A	Source Test
SO3 and H2SO4	SIP 6-320	Y		0.04 grain/dscf	BAAQMD Condition 19528, Part 20	P/A	Source Test

**VII. Applicable Limits & Compliance Monitoring Requirements**

**Table VII-H.5  
 S1411-SULFURIC ACID MANUFACTURING PLANT (SAP)**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Visible Emissions	BAAQMD 6-1-301	N		≥ Ringelmann No. 1 for no more than 3 minutes/hour	BAAQMD Condition 21053, Part 2	P/M	Visible Inspection
Visible Emissions	SIP 6-301	Y		≥ Ringelmann No. 1 for no more than 3 minutes/hour	BAAQMD Condition 21053, Part 2	P/M	Visible Inspection
FP	BAAQMD 6-1-310	N		0.15 grain/dscf	None	N	N/A
FP	SIP 6-310	Y		0.15 grain/dscf	None	N	N/A
FP	BAAQMD 6-1-311	N		4.10 P <sup>0.67</sup> lb/hr particulate, where P is process weight rate in ton/hr	None	N	N/A
FP	SIP 6-311	Y		4.10 P <sup>0.67</sup> lb/hr particulate, where P is process weight rate in ton/hr	None	N	N/A
Visible Particles	BAAQMD 6-1-305	N		Prohibition of nuisance	None	N	N/A
Visible Particles	SIP 6-305	Y		Prohibition of nuisance	None	N	N/A

**Table VII-H.6  
 S1413-#1 OLEUM STORAGE TANK, S1414-#2 OLEUM STORAGE TANK**

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

## VII. Applicable Limits & Compliance Monitoring Requirements

**Table VII-H.6**  
**S1413-#1 OLEUM STORAGE TANK, S1414-#2 OLEUM STORAGE TANK**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Visible Emissions	SIP 6-301	Y		≥ Ringelmann No. 1 for no more than 3 minutes/hour	None	N	N/A
Visible Particles	BAAQMD 6-1-305	N		Prohibition of nuisance	None	N	N/A
Visible Particles	SIP 6-305	Y		Prohibition of nuisance			
H2SO4 and SO3	BAAQMD 12-10-401	N		Combined H2SO4 and SO3 > 0.01 grams/m <sup>3</sup> or 2 ppm as H2SO4, over any 10 min	BAAQMD 12-10-401	N	Oleum Transfer Procedures

## VII. Applicable Limits & Compliance Monitoring Requirements

**Table VII-H.7**  
**S1415–LOADING DOCK (SULFURIC ACID)**  
**ABATED BY A1404 (BRINKS MIST ELIMINATOR)**

<b>Pollutant</b>	<b>Citation of Limit</b>	<b>FE Y/N</b>	<b>Future Effective Date</b>	<b>Limit</b>	<b>Monitoring Requirement Citation</b>	<b>Monitoring Frequency (P/C/N)</b>	<b>Monitoring Type</b>
Visible Emissions	BAAQMD 6-1-301	N		≥ Ringelmann No. 1 for no more than 3 minutes/hour	None	N	N/A
Visible Emissions	SIP 6-301	Y		≥ Ringelmann No. 1 for no more than 3 minutes/hour	None	N	N/A
FP	BAAQMD 6-1-305	N		Prohibition of nuisance	None	N	N/A
FP	SIP 6-305	Y		Prohibition of nuisance	None	N	N/A
H2SO4 and SO3	BAAQMD 12-10-401	N		Combined H2SO4 and SO3 > 0.01 grams/m <sup>3</sup> or 2 ppm as H2SO4, over any 10 min	BAAQMD 12-10-401	N	Oleum Transfer Procedures
Visible ParticlesO C	BAAQMD 8-2-301	Y		15 lbs/day & 300 ppm total carbon, dry basis	BAAQMD 8-2-601 BAAQMD Condition 19528 Part 10	P/every 5 years	BAAQMD source test method or EPA Method 25 or 25A

**VII. Applicable Limits & Compliance Monitoring Requirements**

**SECTION J MISCELLANEOUS ORGANIC SOURCES (INCLUDING FUGITIVE COMPONENTS)**

**Table VII – J.1  
 Applicable Limits and Compliance Monitoring Requirements  
 FUGITIVE COMPONENTS, EXCLUDING WASTEWATER COMPONENTS**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
<b>BAAQMD Regulation 8, Rule 18 and SIP Regulation 8, Rule 18</b>							
TOC	BAAQMD 8-18-300	Y		Valves ≤ 100 ppm, Pumps ≤ 500 ppm, Compressors ≤ 500 ppm, Connectors ≤ 100 ppm, PRDs ≤ 500 ppm General Equipment ≤ 100 ppm	BAAQMD 8-18-401.5	P/E (24 hrs after repair/mini-mization)	Method 21 Inspection
TOC	BAAQMD. 8-18-301	Y		General equipment leak ≤ 100 ppm	None	P/E	Method 21 Inspection
TOC	BAAQMD. 8-18-302.1 8-18-302.2	N		Valve leak ≤ 100 ppm	BAAQMD. 8-18-401.2	P/Q	Method 21 Inspection
TOC	BAAQMD 8-18-302.1 8-18-302.2	N		Inaccessible Valve leak ≤ 100 ppm or minimize in 24 hours, repair in 7 days	BAAQMD 8-18-401.3	P/A	Method 21 Inspection
TOC	BAAQMD 8-18-302.3 8-18-306.2 8-18-306.3 8-18-306.4	N		Non-repairable valves	BAAQMD 8-18-401.9	P/Q	Method 21 inspection
TOC	BAAQMD 8-18-302.3 8-18-306.4	N		Mass emission rate <= 15 lb/day for valve with major leak (>= 10,000 ppm)	BAAQMD 8-18-306.4 8-18-604	P/E within 45 days of leak discovery	Mass Emission Sampling
TOC	BAAQMD 8-18-302.3 8-18-306.4	N		Mass emission rate <= 15 lb/day for non-repairable valve with major leak (>= 10,000 ppm)	BAAQMD 8-18-401.10 8-18-604	P/A	Mass Emission Sampling
TOC	BAAQMD. 8-18-303.1 8-18-303.2	N		Pump and compressor leak ≤ 500 ppm	BAAQMD. 8-18-401.2	P/Q	Method 21 Inspection

**VII. Applicable Limits & Compliance Monitoring Requirements**

**Table VII – J.1  
 Applicable Limits and Compliance Monitoring Requirements  
 FUGITIVE COMPONENTS, EXCLUDING WASTEWATER COMPONENTS**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
TOC	BAAQMD 8-18-304.1 8-18-304.2	N		Connection leak $\leq$ 100 ppm	BAAQMD 8-18-401.6	P/E (Annually or APCO and EPA-approved connection inspection program)	Method 21 Inspection
TOC	BAAQMD. 8-18-304	N		Connection opened during turnaround leak $\leq$ 100 ppm	BAAQMD. 8-18-401.1	P/E (90 days after turnaround startup)	Method 21 Inspection
TOC	BAAQMD 8-18-304.3 8-18-306.2 8-18-306.3	N		Non-repairable connection	BAAQMD 8-18-401.6	P/E (Annually or APCO and EPA-approved connection inspection program)	Method 21 inspection
TOC	BAAQMD. 8-18-305	Y		Pressure relief valve leak $\leq$ 500 ppm	BAAQMD. 8-18-401.2 8-18-401.7	P/Q	Method 21 Inspection
TOC	BAAQMD 8-18-305	Y		Inaccessible pressure relief valve leak $\leq$ 500 ppm	BAAQMD 8-18-401.3	P/A	Method 21 Inspection
TOC	BAAQMD 8-18-305	Y		Pressure relief valve leak $\leq$ 500 ppm	BAAQMD 8-18-401.8	P/E (5 working days after release)	Method 21 Inspection
TOC	BAAQMD. 8-18-306.1	N		Valve, connector, pressure relief, pump or compressor must be repaired within 5 years or at the next scheduled turnaround	BAAQMD 8-18-502.4 8-18-503.1	P/Q	Report

**VII. Applicable Limits & Compliance Monitoring Requirements**

**Table VII – J.1  
 Applicable Limits and Compliance Monitoring Requirements  
 FUGITIVE COMPONENTS, EXCLUDING WASTEWATER COMPONENTS**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	
TOC	BAAQMD 8-18-302.3 8-18-303.3 8-18-304.3 8-18-306.2 8-18-306.3 8-18-306.4	N		Maximum percentage awaiting repair	BAAQMD 8-18-502.4 8-18-503.1  BAAQMD 8-18-306.1	P/Q   P/E	Report   Repair/replace within 5 years or at next scheduled turnaround, whichever is first	
				<b>Components</b>				<b>%</b>
				Valves (including with major leaks) and connectors per 8-18-306.3				0.30
				Valves with major leaks per 8-18-306.4				0.025
				Pressure Reliefs				1.0
				Pumps and Compressors				1.0
TOC	BAAQMD 8-18-307	Y		Liquid Leak more than 3 drops/min, unless minimized with 24 hrs & repaired within 7 days	None	P/E	Records	
TOC	BAAQMD 8-18-403	Y		No evidence of leak in Pumps and Compressors	BAAQMD 8-18-403	P/D	Visual Inspection	
TOC	BAAQMD 8-18-403	Y		Pumps and Compressors with Evidence of Leak on visual inspection	BAAQMD 8-18-403	P/E	Method 21 Inspection	
TOC	SIP 8-18-302	Y		Valve leak ≤ 100 ppm or minimize in 24 hours, repair in 7 days	SIP 8-18-401.2	P/Q	Method 21 Inspection	
TOC	SIP 8-18-302	Y		Inaccessible Valve leak ≤ 100 ppm or minimize in 24 hours, repair in 7 days	SIP 8-18-401.3	P/A	Method 21 Inspection	
TOC	SIP 8-18-303	Y		Pump and compressor leak ≤ 500 ppm or minimize in 24 hours, repair in 7 days	SIP 8-18-401.2	P/Q	Method 21 Inspection	



## VII. Applicable Limits & Compliance Monitoring Requirements

**Table VII – J.1**  
**Applicable Limits and Compliance Monitoring Requirements**  
**FUGITIVE COMPONENTS, EXCLUDING WASTEWATER COMPONENTS**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
TOC	SIP 8-18-304.2	Y		Connection leak ≤ 100 ppm or minimize in 24 hours, repair in 7 days	SIP 8-18-401.6	P/E (Annually or EPA- approved connection inspection program)	Method 21 Inspection
TOC	SIP 8-18-304.2	Y		Connection leak ≤ 100 ppm or minimize in 24 hours, repair in 7 days	SIP 8-18-401.1	P/E (90 days after turnaround startup)	Method 21 Inspection
TOC	SIP 8-18-306.1	Y		Valve, pressure relief, pump or compressor must be repaired within 5 years or at the next scheduled turnaround	SIP 8-18-502.4	P/Q	Report
TOC	SIP 8-18-306.2	Y		Awaiting repair Valves ≤ 0.5% Pressure Relief ≤ 1% Pumps and Compressors ≤ 1%	SIP 8-18-502.4	P/Q	Report
<b>BAAQMD Regulation 11, Rule 7 - Components in Benzene Service</b>							
POC	BAAQMD 11-7-302	N		Pumps ≤ 10,000 ppm	BAAQMD 11-7-501	P/M	Method 21 Inspection
POC	BAAQMD 11-7-302	N		No Pump Leak Indicated by Dripping Liquid	BAAQMD 11-7-401	P/W	Visual Inspection
POC	BAAQMD 11-7-302.1	N		No Pump Leak Indicated by Sensor on Seal or Barrier System	BAAQMD 11-7-302.1	P/D or C	Check Sensor or Audible Alarm
POC	BAAQMD 11-7-304	N		PRD ≤ 500 ppm	BAAQMD 11-7-304.1	P/E 5 calendar days after pressure release	Method 21 Inspection
POC	BAAQMD 11-7-307	N		Valves ≤ 10,000 ppm	BAAQMD 11-7-501 11-7-307.1	P/M (or P/Q if criteria met)	Method 21 Inspection

**VII. Applicable Limits & Compliance Monitoring Requirements**

**Table VII – J.1  
 Applicable Limits and Compliance Monitoring Requirements  
 FUGITIVE COMPONENTS, EXCLUDING WASTEWATER COMPONENTS**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
POC	BAAQMD 11-7-307.5	N		DTM Valves < 10,000 ppm	BAAQMD 11-7-307.5	P/A	Method 21 Inspection
POC	BAAQMD 11-7-308	N		PRDs in Liquid Service, Flanges, Connectors	BAAQMD 11-7-308	P/E Within 5 calendar days after evidence of leak	Method 21 Inspection
<b>40 CFR 60; Subpart VV – equipment leaks subject to 40 CFR 60 Subpart GGG and to 40 CFR 63 Subpart CC                  BAAQMD 10-52; 10-59</b>							
VOC	40 CFR 60.482-2(b)(1)	Y		LL pump leak ≤ 10,000 ppm	40 CFR 60.482-2(a)(1)	P/M	Method 21 Inspection
VOC	40 CFR 60.482-2(a)(2) 60.482-2(d)(4)(i)	Y		LL Pump, no leak indicated by dripping liquid	40 CFR 60.482-2(a)(2)	P/W	Visual Inspection
VOC	40 CFR 60.482-2(b)(2) 60.482-2(b)(2)(i) 60.482-2(d)(4)(ii) 60.482-2(d)(4)(ii)(A)	Y		LL pump leak ≤ 10,000 ppm after discovery of dripping liquid in weekly visual inspection	40 CFR 60.482-2(b)(2)(i) 60.482(d)(4)(ii)( A)	P/E (within 5 days of discovery of liquid leak)	Method 21 Inspection
VOC	40 CFR 60.482-2(b)(2)	Y		No limit - liquid discovered dripping from LL pump in weekly inspection	40 CFR 60.482-2(b)(2)(ii)	P/E (within 15 days of detection)	Designate event as leak. Repair and remove evidence of leak
VOC	40 CFR 60.482-2(b)(2) 60.482-2(d)(4)(ii)	Y		No limit - liquid discovered dripping from LL pump equipped with dual mechanical seal and barrier fluid system in weekly inspection	40 CFR 60.482-2 (d)(4)(ii)(B)	P/E	Designate event as leak
VOC	40 CFR 60.482-2(d)(5)(ii) 60.482-2(d)(5)(iii)	Y		Pump sensor shall detect failure of seal system, barrier fluid system, or both based on user-determined criterion	40 CFR 60.482-2(d)(5)(i)	C or P/D	Sensor with audible alarm or checked daily
VOC	40 CFR 60.482-2(e)	Y		Pump designated for “No detectable emissions” < 500 ppm	40 CFR 60.482-2(e)(3)	P/A	Method 21 Inspection

**VII. Applicable Limits & Compliance Monitoring Requirements**

**Table VII – J.1  
 Applicable Limits and Compliance Monitoring Requirements  
 FUGITIVE COMPONENTS, EXCLUDING WASTEWATER COMPONENTS**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	40 CFR 60.482-3(d) 60.482-3(e)(2) 60.482-3(f)	Y		Compressor sensor shall detect failure of seal system, barrier fluid system, or both based on user-determined criterion	40 CFR 60.482-3(e)(1),	C or P/D	Sensor with audible alarm or checked daily.
VOC	40 CFR 60.482-3(i)	Y		Compressor designated for “No detectable emissions” leak < 500 ppm	40 CFR 60.482-3(i)(2)	P/A	Method 21 Inspection
VOC	40 CFR 60.482-4(a) 60.482-4(b)(1)	Y		Gas/vapor PRD leak ≤500 ppm	40 CFR 60.482-4(b)(2)	P/E within 5 days after release	Method 21 Inspection
VOC	40 CFR 60.482-7(b)	Y		Valve leak ≤ 10,000 ppm	40 CFR 60.482-7(a)(1) 60.482-7(c)	P/M or Q	Method 21 Inspection
VOC	40 CFR 60.482-7(f)	Y		Valve designated “No detectable emissions” ≤ 500 ppm	40 CFR 60.482-7(f)(3)	P/A	Measure for leaks
VOC	40 CFR 60.482-7(h)	Y		Valve designated “Difficult to monitor”(up to 3% of total valves)” leak < 500 ppm	40 CFR 60.482-7(h)(3)	P/A	Method 21 Inspection
VOC	40 CFR 60.482-8(a) 60.482-8(b)	Y		Pumps and valves in heavy liquid service, Pressure Relief devices (light or heavy liquid), Flanges, Connectors ≤ 10,000 ppm	40 CFR 60.482-8(a)(1) 60.486-8(c)	P/E Within 5 calendar days of evidence of AVO leak	Method 21 Inspection
VOC	40 CFR 60.482-10(b)	Y		Vapor recovery systems ≥ 95% or exit concentration ≤20 ppmv	40 CFR 60.482-10(e)	N	N/A
VOC	60.482-10(c)	Y		Enclosed combustion devices ≥ 95% destruction efficiency or ≥ 0.75 seconds and ≥ 816°C	40 CFR 60.482-10(e)	N	N/A
VOC	40 CFR 60.482-10(g)	Y		Hard piped closed vent systems <500 ppmv	40 CFR 60.482-10(f)(1)(i)	P/I	Method 21 Inspection

**VII. Applicable Limits & Compliance Monitoring Requirements**

**Table VII – J.1  
 Applicable Limits and Compliance Monitoring Requirements  
 FUGITIVE COMPONENTS, EXCLUDING WASTEWATER COMPONENTS**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	40 CFR 60.482-10(g)	Y		Hard piped closed vent systems – no AVO leaks	40 CFR 60.482-10(f)(1)(ii)	P/A	Visual inspection
VOC	40 CFR 60.482-10(k)	Y		Closed vent system portions designated as “Difficult to inspect” (up to 3% of total closed vent system equipment)	40 CFR 60.482-10(k)(3)	P/ every 5 years	Visual inspection
VOC	40 CFR 60.483-2 BAAQMD 8-18-404.1	Y		Individual valve that measures <100 ppm for 5 consecutive quarters may be monitored annually, if in a process unit with 5 consecutive quarters <2% valves leaking ≥10,000 ppm.	40 CFR 60.483-2 BAAQMD 8-18-404.1	P/Q P/A	Method 21 Inspection
<b>40 CFR 60; Subpart VVa – equipment leaks subject to 40 CFR 60 Subpart GGGa</b>							
VOC	40 CFR 60.482-2a(b)(1)(i) or 60.482-2a(b)(1)(ii)	Y		2000 (5,000) ppm LL pumps	40 CFR 60.482-2a(a)(1)	P/M	Method 21 Inspection
VOC	40 CFR 60.482-2a(b)(2) 60.482-2a(d)(4)(i)	Y		LL Pump, no leak indicated by dripping liquid	40 CFR 60.482-2a(a)(2)	P/W	Visual Inspection
VOC	40 CFR 60.482-2a(b)(2) 60.482-2a(b)(2)(i) or (b)(2)(ii)	Y		LL pump leak ≤ 2,000 ppm (5000 ppm) after discovery of dripping liquid in weekly visual inspection	40 CFR 60.482-2a (b)(2)(i)	P/E (within 5 days of discovery of liquid leak)	Method 21 Inspection
VOC	40 CFR 60.482-2a(b)(2) 60.482-2(d)(4)(ii) 60.482-2(d)(4)(ii)(A)	Y		LL pump leak ≤ 2,000 ppm (after discovery of dripping liquid in weekly visual inspection	40 CFR 60.482a(d)(4)(ii)(A)	P/E (within 5 days of discovery of liquid leak)	Method 21 Inspection
VOC	40 CFR 60.482-2a(b)(2)	Y		No limit – Inspect after liquid discovered dripping from LL pump in weekly inspection	40 CFR 60.482-2a(b)(2)(ii)	P/E (within 15 days of detection)	Designate event as leak. Repair and remove evidence of leak

## VII. Applicable Limits & Compliance Monitoring Requirements

**Table VII – J.1**  
**Applicable Limits and Compliance Monitoring Requirements**  
**FUGITIVE COMPONENTS, EXCLUDING WASTEWATER COMPONENTS**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	40 CFR 60.482-2a(b)(2) 60.482-2a(d)(4)(ii)	Y		No limit - liquid discovered dripping from LL pump equipped with dual mechanical seal and barrier fluid system in weekly inspection	40 CFR 60.482-2a (d)(4)(ii)(B)	P/E	Designate event as leak
VOC	40 CFR 60.482-2a(d)(5)(ii) 60.482-2a(d)(5)(iii)	Y		Pump sensor shall detect failure of seal system, barrier fluid system, or both based on user-determined criterion	40 CFR 60.482-2a (d)(5)(i)	C or P/D	Sensor with audible alarm or checked daily
VOC	40 CFR 60.482-2a(e)	Y		Pump designated for “No detectable emissions” < 500 ppm	40 CFR 60.482-2a(e)(3)	P/A	Method 21 Inspection
VOC	40 CFR 60.482-3a(d), 60.482-3a(e)(2) 60.482-3a(f)	Y		Compressor sensor shall detect failure of seal system, barrier fluid system, or both based on user-defined criterion	40 CFR 60.482-3a(e)(1)	C or P/D	Sensor with audible alarm or checked daily
VOC	40 CFR 60.482-3a(i)	Y		Compressor designated for “No detectable emissions” leak < 500 ppm	40 CFR 60.482-3a(i)(2)	P/A	Method 21 Inspection
VOC	40 CFR 60.482-4a(a) 60.482-4a (b)(1)	Y		Gas/vapor PRD leak ≤500 ppm	40 CFR 60.482-4a(b)(2)	P/E within 5 days after release	Method 21 Inspection
VOC	40 CFR 60.482-7a(b)	Y		Valve leak ≤ 500 ppm	40 CFR 60.482-7a(a)(1) 60.482-7a(c)	P/M or Q	Method 21 Inspection
VOC	40 CFR 60.482-7a(f)	Y		Valve designated “No detectable emissions” ≤ 500 ppm	40 CFR 60.482-7a(f)(3)	P/A	Measure for leaks
VOC	40 CFR 60.482-7a(h)	Y		Valve designated “Difficult to monitor”(up to 3% of total valves)” leak < 500 ppm	40 CFR 60.482-7(h)(3)	P/A	Method 21 Inspection

**VII. Applicable Limits & Compliance Monitoring Requirements**

**Table VII – J.1  
 Applicable Limits and Compliance Monitoring Requirements  
 FUGITIVE COMPONENTS, EXCLUDING WASTEWATER COMPONENTS**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	40 CFR 60.482-8a(a) 60.482-8a(b)	Y		Pumps and valves in heavy liquid service, Pressure Relief devices (light or heavy liquid), Flanges, Connectors <= 10,000 ppm	40 CFR 60.482-8a(a)(1) 60.486a(c)	P/E Within 5 calendar days of evidence of AVO leak	Method 21 Inspection
VOC	40 CFR 60.482-10a(b)	Y		Vapor recovery systems >=95% or exit concentration <=20 ppmv	40 CFR 60.482-10a(e)	N	N/A
VOC	40 CFR 60.482-10a(c)	Y		Combustion devices >= 95% destruction efficiency or >= 0.75 seconds and >= 816°C	40 CFR 60.482-10a(e)	N	N/A
VOC	40 CFR 60.482-10a(g)	Y		Hard piped closed vent systems <500 ppmv	40 CFR 60.482-10a (f)(1)(i)	P/I	Method 21 Inspection
VOC	40 CFR 60.482-10a(g)	Y		Hard piped closed vent systems – no AVO leaks	40 CFR 60.482-10a (f)(1)(ii)	P/A	Visual inspection
VOC	40 CFR 60.482-10a(k)	Y		Closed vent system portions designated as “Difficult to inspect” (up to 3% of total closed vent system equipment)	40 CFR 60.482-10a(k)(3)	P/ every 5 years	Visual inspection
VOC	40 CFR 60.483-2a BAAQMD 8-18-404.1	Y		Individual valve that measures <100 ppm for 5 consecutive quarters may be monitored annually, if in a process unit with 5 consecutive quarters <2% valves leaking >= 500 ppm.	40 CFR 60.483-2a BAAQMD 8-18-404.1	P/Q  P/A	Measure for leaks
<b>40 CFR 61; Subpart FF</b>							
POC	40 CFR 61.343(a)(1)(i)(A)	Y		Tanks fittings leak ≤ 500 ppm	40 CFR 61.343(a)(1)(i) (A)	P/A	Method 21 Inspection
POC	40 CFR 63.345(a)(1)(i)	Y		Container fittings leak ≤ to 500 ppm	40 CFR 63.345(a)(1)(i)	P/A	Method 21 Inspection
POC	40 CFR 61.347(a)(1)(i)(A)	Y		O/W Separator fittings leak ≤ 500 ppm	40 CFR 61.347(a)(1)(i) (A)	P/A	Method 21 Inspection

## VII. Applicable Limits & Compliance Monitoring Requirements

**Table VII – J.1**  
**Applicable Limits and Compliance Monitoring Requirements**  
**FUGITIVE COMPONENTS, EXCLUDING WASTEWATER COMPONENTS**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
POC	40 CFR 61.349 (a)(1)(i)	Y		Closed-vent system fittings <500 ppm above background	40 CFR 61.349 (a)(1)(i)	P/A	Method 21 Inspection
<b>40 CFR 61; Subpart V - Equipment leaks in benzene service subject to 40 CFR 61 Subpart J and not subject to 40 CFR 63 Subpart CC by overlap at 63.640(p)</b>							
POC	40 CFR 61.242-8(a)	Y		Flanges, Connectors leak shall be measured for leak in 5 days if detected by inspection	40 CFR 61.242-8(a)	P/E	Visible, Audible, or olfactory Inspection
POC	40 CFR 61.242-8(a)	Y		Flanges, Connectors leak shall be measured for leak in 5 days if detected by inspection	40 CFR 61.242-8(c)	P/E	Records
POC	40 CFR 61.242-8(b)	Y		Flanges, Connectors leak ≥ 10,000 ppm	40 CFR 61.242-8(a)	P/E	Measure for leaks
<b>Permit Conditions</b>							
POC	Condition 11609 Part B6A	Y		Pumps leak < 100 ppm (Alkylation Unit pumps abated by A14)	BAAQMD. 8-18-401.2	P/Q	Method 21 Inspection
POC	Condition 19199 Part A5	Y		Pumps leak < 100 ppm (AN 2508 Logistical Improvements)	BAAQMD. 8-18-401.2	P/Q	Method 21 Inspection
POC	Condition 19199 Part B5	Y		Pumps leak < 100 ppm (AN 2508 Flare Gas Recovery Compressors)	BAAQMD. 8-18-401.2	P/Q	Method 21 Inspection
POC	Condition 19199 Part C5	Y		Pumps leak < 100 ppm (AN 2508 No. 4 Gas Plant Naphtha Splitter)	BAAQMD. 8-18-401.2	P/Q	Method 21 Inspection
POC	Condition 19199 Part G5	Y		Pumps leak < 100 ppm (AN 2508 S1105 No. 4 HDS)	BAAQMD. 8-18-401.2	P/Q	Method 21 Inspection

**VII. Applicable Limits & Compliance Monitoring Requirements**

**Table VII – J.2  
 Applicable Limits and Compliance Monitoring Requirements  
 ATMOSPHERIC PRESSURE RELIEF DEVICES SUBJECT TO BAAQMD 8-28**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
POC	BAAQMD 8-28-303.1	N		Vented to vapor recovery, 95% control efficiency	None	N	N/A
POC	SIP 8-28-303.1	Y		Vented to vapor recovery, 95% control efficiency	None	N	N/A
POC	BAAQMD 8-28-304.1	Y		Initial PRD release in 5-year period	8-28-304.1	P/E within 90 days	Additional Process Hazard Analysis
POC	BAAQMD 8-28-304.2	Y		Second PRD release in a 5-year period	8-28-304.2	P/E within 1 year	Vent to vapor recovery, 95% control efficiency
POC	None	N		No limit	BAAQMD 8-28-402.1	P/D	Visual inspection
POC	None	N		No limit	BAAQMD 8-28-402.2	P/ Within 5 days of a release	Visual inspection
POC	None	Y		No limit	SIP 8-28-402	P/ Within 5 days of a release	Visual inspection
POC	None	N		No limit	BAAQMD 8-28-503	P/E	Monitoring System



**VII. Applicable Limits & Compliance Monitoring Requirements**

**Table VII – J.3**

**Deleted. All Blowdown Towers Removed from Hydrocarbon Service  
 Applicable Limits and Compliance Monitoring Requirements  
 S804–BLOWDOWN TOWER CAT CRACKER W/O CONTROLS  
 S822 – THERMAL AREA BLOWDOWN  
 S834–No. 50 CRUDE UNIT BLOWDOWN DRUM W/O CONTROLS**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
No Limits							

**Table VII – J.4**

**Applicable Limits and Compliance Monitoring Requirements  
 S823–HEAT EXCHANGER CLEANING PIT NORTH-TANK M286  
 S824–HEAT EXCHANGER CLEANING PIT SOUTH-TANK M287**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
FP	BAAQMD 6-1-310	N		0.15 grain/dscf	None	N	N/A
FP	SIP 6-310	Y		0.15 grain/dscf	None	N	N/A
FP	BAAQMD 6-1-311	N		4.10 P <sup>0.67</sup> lb/hr particulate, where P is process weight rate in ton/hr	None	N	N/A
FP	SIP 6-311	Y		4.10 P <sup>0.67</sup> lb/hr particulate, where P is process weight rate in ton/hr	None	N	N/A
Visible Emissions	BAAQMD 6-1-301	N		≥ Ringelmann No. 1 for no more than 3 minutes/hour	BAAQMD Condition 22227, Part 1	P/ Hourly during tube cleaning	Visual Emissions Check
Visible Emissions	SIP 6-301	Y		≥ Ringelmann No. 1 for no more than 3 minutes/hour	BAAQMD Condition 22227, Part 1	P/ Hourly during tube cleaning	Visual Emissions Check

**VII. Applicable Limits & Compliance Monitoring Requirements**

**Table VII – J.4  
 Applicable Limits and Compliance Monitoring Requirements  
 S823–HEAT EXCHANGER CLEANING PIT NORTH-TANK M286  
 S824–HEAT EXCHANGER CLEANING PIT SOUTH-TANK M287**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Visible Emissions	BAAQMD 6-1-303	N		≥ Ringelmann No. 2 for no more than 3 minutes/hour	BAAQMD Condition 22227, Part 1	P/ Hourly during tube cleaning	Visual Emissions Check
Visible Emissions	SIP 6-303	Y		≥ Ringelmann No. 2 for no more than 3 minutes/hour	BAAQMD Condition 22227, Part 1	P/ Hourly during tube cleaning	Visual Emissions Check
Visible Emissions		Y		No limit	BAAQMD Condition # 22227, Part 1	P/ Hourly during tube cleaning	Visual inspection
Visible Particles	BAAQMD 6-1-305	N		Prohibition of nuisance	None	N	N/A
Visible Particles	SIP 6-305	Y		Prohibition of nuisance	None	N	N/A
VOC	BAAQMD 8-2-301	Y		15 lbs/day & 300 ppm total carbon, dry basis	BAAQMD 8-2-601	N	Source test

**VII. Applicable Limits & Compliance Monitoring Requirements**

**Table VII – J.5  
 Applicable Limits and Compliance Monitoring Requirements  
 S1543, S1544, S1545, S1546, S1547, S1548  
 MAINTENANCE SHOPS EXEMPT COLD CLEANERS**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	BAAQMD 8-16-114	Y		Exemption: Emulsion or solution cleaner containing < 1% VOC	BAAQMD 8-16-502	None	Records
VOC	BAAQMD 8-16-303.5.1	Y		50 g/L (0.42 lb/gal) in solvent used for maintenance and repair cleaning	BAAQMD 8-16-124 8-16-502	None	Records

**Table VII – J.6  
 Applicable Limits and Compliance Monitoring Requirements  
 S590-DEA Flash Drum**

Type of Limit	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
POC	Condition 7405, Part 1	Y		14.1 lb/day from fugitive emissions	None	N	N/A

**Table VII – J.7  
 Applicable Limits and Compliance Monitoring Requirements  
 S825—DEA REGENERATOR S856—SPARE DEA STRIPPER**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	BAAQMD 8-2-301	Y		15 lbs/day & 300 ppm total carbon, dry basis	BAAQMD 8-2-601	N	Source test

## VII. Applicable Limits & Compliance Monitoring Requirements

### SECTION K ABATEMENT

**Table VII – K.1**  
**Applicable Limits and Compliance Monitoring Requirements**  
**A39 API/DNF THERMAL OXIDIZER ABATES S819 AND S1026**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Visible Emissions	BAAQMD 6-1-301	N		≥ Ringelmann No. 1 for no more than 3 minutes/hour	None	N	N/A
Visible Emissions	SIP 6-301	Y		≥ Ringelmann No. 1 for no more than 3 minutes/hour	None	N	N/A
Visible Particles	BAAQMD 6-1-305	N		Prohibition of nuisance	None	N	NA
Visible Particles	SIP 6-305	Y		Prohibition of nuisance	None	N	NA
FP	BAAQMD 6-1-310.3	N		0.15 grain/dscf @ 6% O <sub>2</sub>	None	N	N/A
FP	SIP 6-310.3	Y		0.15 grain/dscf @ 6% O <sub>2</sub>	None	N	N/A
VOC [OWS]	BAAQMD 8-8-302.3	N		95% collection and destruction	BAAQMD 8-8-602	N	Source test
VOC [OWS]	SIP 8-8-302.3	Y		95% collection and destruction	BAAQMD 8-8-602	N	Source test
VOC	BAAQMD 8-8-302.6	N		Vapor tight roof seals, fixed covers, access doors, openings [API Separator]	BAAQMD 8-8-504 8-8-603 SIP 8-8-603	N	Method 21 portable hydrocarbon detector
VOC [DNF]	BAAQMD 8-8-307.2	N		70% by weight collection and destruction	BAAQMD 8-8-602	N	Source test
VOC [DNF]	SIP 8-8-307.2	Y		70% by weight collection and destruction	SIP 8-8-602	N	Source test

## VII. Applicable Limits & Compliance Monitoring Requirements

**Table VII – K.1**  
**Applicable Limits and Compliance Monitoring Requirements**  
**A39 API/DNF THERMAL OXIDIZER ABATES S819 AND S1026**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NMHC	BAAQMD Condition 7406, Part B5A	Y		< 10 ppm NMHC as C1 on rolling one hour basis from A39	BAAQMD Condition 7406, Part B11	C	Temperature monitoring
H2S	BAAQMD Condition 7406, Part B7	Y		< 1 ppm H2S from A39	BAAQMD Condition 7406, Part B11	C	Temperature monitoring
Temperature	BAAQMD Condition 7406, Part B10			A39 > 1350° F	BAAQMD Condition 7406, Part B11	C	Temperature monitoring
<b>Applicable requirements when S-819 is Abated by A-39 Thermal Oxidizer</b>							
H2S	BAAQMD Condition 7406, Part B7	Y		< 1 ppm H2S from A39	BAAQMD Condition 7406, Parts B10, B11	C	Temperature monitoring
NMHC	BAAQMD Condition 7406, Part B5A	Y		< 10 ppm NMHC as C1 on rolling one hour basis from A39	BAAQMD Condition 7406, Parts B10, B11	C	Temperature monitoring
POC	40 CFR 60.692-5(a)	Y		Combustion devices >=95% destruction efficiency or >=0.75 seconds and >=816°C	40 CFR 60.695(a)(1)	C	Temperature monitor & recorder
POC	40 CFR 60.692-5(e)(1)	Y		500 ppm (Closed vent system)	40 CFR 60.692-5(e)(1)	P/SA	Method 21 portable hydrocarbon detector
POC	40 CFR 60.692-5(e)(2)	Y		Purge closed vent system to control device	40 CFR 60.692-5(e)(3)	C	Flow Indicator
Temperature	BAAQMD Condition 7406, Part B10			A39 > 1350° F	BAAQMD Condition 7406, Part B11	C	Temperature monitoring

**VII. Applicable Limits & Compliance Monitoring Requirements**

**Table VII – K.2  
 Applicable Limits and Compliance Monitoring Requirements  
 A40 TRACT 6 ELECTRIC THERMAL OXIDIZER, A42 HYDROCRACKER ELECTRIC THERMAL  
 OXIDIZER, A43 TRACT 3 ELECTRIC THERMAL OXIDIZER  
 PUMP SEAL THERMAL OXIDIZERS**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Visible Emissions	BAAQMD 6-1-301	N		≥ Ringelmann No. 1 for no more than 3 minutes/hour	None	N	N/A
Visible Emissions	SIP 6-301	Y		≥ Ringelmann No. 1 for no more than 3 minutes/hour	None	N	N/A
Visible Particles	BAAQMD 6-1-305	N		Prohibition of nuisance	None	N	N/A
Visible Particles	SIP 6-305	Y		Prohibition of nuisance	None	N	N/A
FP	BAAQMD 6-310.3	N		0.15 grain/dscf @ 6% O2	None	N	N/A
FP	SIP 6-310.3	Y		0.15 grain/dscf @ 6% O2	None	N	N/A
VOC (A40)	BAAQMD Condition 11609, Part A1	Y		≥ 95% control, 0.5 second residence time and 1400F minimum operating temperature	BAAQMD Condition 11609, Part A2	C	A40 Temperature monitor and pump flow indicators
					BAAQMD Condition 11609, Part A5.b	P/E twice daily	A40 Records

**VII. Applicable Limits & Compliance Monitoring Requirements**

**Table VII – K.2  
 Applicable Limits and Compliance Monitoring Requirements  
 A40 TRACT 6 ELECTRIC THERMAL OXIDIZER, A42 HYDROCRACKER ELECTRIC THERMAL  
 OXIDIZER, A43 TRACT 3 ELECTRIC THERMAL OXIDIZER  
 PUMP SEAL THERMAL OXIDIZERS**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC (A42)	BAAQMD Condition 11609, Part C1	Y		>= 95% control, 0.5 second residence time and 1400F minimum operating temperature	BAAQMD Condition 11609, Part C2	C	A42 Temperature monitor and pmp flow indicators
					BAAQMD Condition 11609, Part C5.b	P/E/ twice daily	A42 Records
VOC (A43)	BAAQMD Condition 11609, Part D1	Y		>= 95% control, 0.5 second residence time and 1400F minimum operating temperature	BAAQMD Condition 11609, Part D2	C	A43 Temperature monitor and pmp flow indicators
					BAAQMD Condition 11609, Part D5.b	P/E/ twice daily	A43 Records
SO2	40 CFR 60.104(a)(1)	Y		H2S in fuel gas burned ≤ 230 mg/dscm (0.1 gr/dscf), except process upset gases, relief valve leakage or emergency malfunctions	40 CFR 60.105(a)(3) or 60.105(a)(4)	P/C	Records SO2/O2 or H2S

**VII. Applicable Limits & Compliance Monitoring Requirements**

**SECTION L REMEDIATION**

**Table VII – L.1  
 Applicable Limits and Compliance Monitoring Requirements  
 S1452-GROUNDWATER HYDROCARBON RECOVERY SYSTEM WITH, 47 OIL/WATER WELLS, AND ASSOCIATED  
 PUMPS (39 LIGHT HYDROCARBON AND 8 HEAVY HYDROCARBON PUMPS), VALVES, AND FLANGES**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Through-put	BAAQMD Condition 9875, Part 6	Y		5,000,000 bbls/yr	None	N	N/A
<b>40 CFR 63 Subpart GGGGG</b>							
HAP	40 CFR 63.7886(b)(1)(v)	Y		For Transfer system: Comply with 63.7915-7918 (Option 1)	None	N	N/A
VOHAP	40 CFR 63.7886(b)(2)	Y		500 ppmw (40 CFR 63 Subpart GGGGG Option 2)	None	N	N/A
HAP	40 CFR 63.7886(b)(3)	Y		If subject to 40 CFR 61 or 40 CFR 63 Subpart, comply with the other subpart unless unit is exempt (Option 3)	None	N	N/A
<b>40 CFR 63 Subpart GGGGG Transfer Systems</b>							
Joints	40 CFR 63.7915(c)(2) 63.7918(d)(1)	Y		All joints or pipe section seams must be permanently or semi-permanently sealed	None	N	N/A
Leaks	40 CFR 63.7917(c) 63.7917(e)(1) 63.7917(e)(2) 63.7918(d)(2)	Y		No leaks or defects Make 1 <sup>st</sup> attempt at repair within 5 calendar days & repair within 45 calendars days unless no alternative available transfer system	40 CFR 63.7917(c)	P/A	Visual Inspection



**VIII. TEST METHODS**

The test methods associated with the emission limit of a District regulation are generally found in Section 600 et seq. of the regulation. The following table indicates only the test methods associated with the emission limits included in Section VII, Applicable Emission Limits & Compliance Monitoring Requirements, of this permit.

**Table VIII  
 Test Methods**

<b>Applicable Requirement</b>	<b>Description of Requirement</b>	<b>Acceptable Test Methods</b>
BAAQMD 1-604	Opacity Measurements	Manual of Procedures, Volume V, Continuous Emissions Monitoring
BAAQMD 6-301	Ringelmann No. 1 Limitation	Manual of Procedures, Volume I, Evaluation of Visible Emissions
BAAQMD 6-302	Opacity Limit	Manual of Procedures, Volume V, Continuous Emission Monitoring
BAAQMD 6-304	Tube Cleaning	Manual of Procedures, Volume I, Evaluation of Visible Emissions
BAAQMD 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
BAAQMD 6-311	General Operations	Manual of Procedures, Volume IV, ST-15, Particulates Sampling or EPA Method 5, Determination of Particulate Emissions from Stationary Sources
BAAQMD Regulation 8-2-301	Miscellaneous Operation Emission Limit	Manual of Procedures, Volume IV, ST-7 or ST-32; or EPA Method 25 or 25A
BAAQMD Regulation 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
BAAQMD Regulation 8-5-328.2	VOC emissions for tank cleaning	Manual of Procedures, Volume IV, ST-7, Non-Methane Organic Carbon Sampling
BAAQMD Regulation 8-5-320.3	Pressure vacuum leak concentration	EPA Reference Method 21, Determination of Volatile Organic Compounds Leaks
BAAQMD 8-5-601	Reid Vapor Pressure	Manual of Procedures, Volume III, Lab Method 13, Determination of the Reid Vapor Pressure of Petroleum Products
BAAQMD 8-5-602	True Vapor Pressure	Manual of Procedures, Volume III, Lab Method 28, Determination of Vapor Pressure of Organic Liquids from Storage Tanks

**VIII. Test Methods**

**Table VIII  
 Test Methods**

<b>Applicable Requirement</b>	<b>Description of Requirement</b>	<b>Acceptable Test Methods</b>
BAAQMD 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
BAAQMD 8-5-605	Pressure-Vacuum Valve Gas Tight Determination	EPA Reference Method 21, Determination of Volatile Organic Compounds Leaks
BAAQMD 8-6-502	Portable Hydrocarbon Detector	EPA Reference Method 21 (60, Appendix A)
BAAQMD 8-6-601	Efficiency and Rate Determination	Manual of Procedures, Volume IV, ST-3 or ST-34
BAAQMD 8-6-603	Analysis of Samples, True Vapor Pressure	Manual of Procedures, Volume III, Method 28
BAAQMD 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
BAAQMD 8-7-301.2 8-7-603	Phase I Vapor Recovery Efficiency	Manual of Procedures, Volume IV, ST-36 or CARB Test Procedure TP-201.1
BAAQMD 8-7-301.6 8-7-301.13 8-7-302.5 8-7-602	Phase I and Phase II leak-free, vapor tight	Manual of Procedures, Volume IV, ST-38 (vaulted storage tanks) or CARB Test Procedure TP-201.3B (vaulted storage tanks)
BAAQMD 8-7-302.8 8-7-604	Phase II liquid removal	Manual of Procedures, Volume IV, ST-37
BAAQMD 8-7-302.12	Phase II nozzle liquid retain	CARB Test Procedure TP-201.2E or CARB specified equivalent
BAAQMD 8-7-302.13	Phase II nozzle spitting	CARB Test Procedure TP-201.2D or CARB specified equivalent
BAAQMD 8-7-606	Determination of applicability	Manual of Procedures, Volume III, Method 13
BAAQMD Regulation 8-8-301, 302	Vapor tight cover	EPA Reference Method 21, Determination of Volatile Organic Compounds Leaks

**VIII. Test Methods**

**Table VIII  
 Test Methods**

<b>Applicable Requirement</b>	<b>Description of Requirement</b>	<b>Acceptable Test Methods</b>
8-8-504	Portable Hydrocarbon Detector	A gas detector that meets the specifications and performance criteria of and has been calibrated in accordance with EPA Reference Method 21 (60, Appendix A)
BAAQMD 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
8-8-602	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 (60, Appendix A)
BAAQMD Regulation 8-18-301, 8-18-302, 8-18-303, 8-18-304, 8-18-305	Leak inspection procedures	EPA reference method 21 (60, Appendix A), Determination of Volatile Organic Compound Leaks
BAAQMD Regulation 8-18-306	Determination of mass emissions	EPA Protocol for equipment leak emission estimates, Chapter 4, Mass Emission Sampling, (EPAA-453/R-95-017) November 1995
BAAQMD Regulation 8-33-301	Emission rate determination	Manual of Procedures, Volume IV, ST-34, Bulk Gasoline Distribution Facilities Vapor Recovery Units
BAAQMD Regulation 8-33-305	Vapor tight – delivery vehicles	Manual of Procedures, Volume IV, ST-33, Ethanol, Integrated Sampling
BAAQMD Regulation 8-33-309	Vapor recovery system – loading racks	Manual of Procedures, Volume IV, ST-34, Bulk and Marine Loading Terminals Vapor Recovery Units
BAAQMD 8-33-601	Emission Rate Determination (Vapor Processing System)	Manual of Procedures, Volume IV, ST-34, Bulk and Marine Loading Terminals Vapor Recovery Units
BAAQMD 8-33-602	Emission Rate Determination (Vapor Balance System)	Manual of Procedures, Volume IV, ST-3, Bulk Plants Emission Factor Determination
BAAQMD 8-33-603	Vapor Recovery System Loading Pressure	Manual of Procedures, Volume IV, ST-34, Bulk and Marine Loading Terminals Vapor Recovery Units

## VIII. Test Methods

**Table VIII**  
**Test Methods**

<b>Applicable Requirement</b>	<b>Description of Requirement</b>	<b>Acceptable Test Methods</b>
BAAQMD 8-33-604	Vapor Tight – Delivery Vehicles	Manual of Procedures, Volume IV, ST-33, Gasoline Cargo Tanks
BAAQMD 8-33-605	Analysis of Samples	Manual of Procedures, Volume III, Lab Method 13, Determination of the Reid Vapor Pressure of Petroleum Products
BAAQMD 8-44-301	POC emission rate limitation during vessel loading	Manual of Procedures, Volume IV, ST-4, Bulk Gasoline Distribution facilities and ST-34, Bulk Marine Loading Terminals, Vapor Recovery Units
BAAQMD 8-44-304.1	Tank vessel is leak free and gas tight	EPA Method 21
BAAQMD 8-46-301	POC emission rate limitation during vessel loading	Manual of Procedures, Volume IV, ST-4, Bulk Gasoline Distribution facilities and ST-34, Bulk Marine Loading Terminals, Vapor Recovery Units
BAAQMD 8-46-304.1	Tank vessel is leak free and gas tight	EPA Method 21
9-1-301	Ground Level Monitoring	Manual of Procedures, Volume VI, Section 1, Area Monitoring
9-1-302	General Emission Limitation	Manual of Procedures, Volume IV, ST-19A, Sulfur Dioxide, Continuous Sampling, or ST-19B, Total Sulfur Oxides Integrated Sample
9-1-304	Fuel Burning (Liquid and Solid Fuels)	Manual of Procedures, Volume III, Method 10, Determination of Sulfur in Fuel Oils.
9-2-301	Ground Level Monitoring	Manual of Procedures, Volume VI, Section 1, Area Monitoring
9-1-501, 9-1-502, 9-2-501	Continuous Monitoring	Manual of Procedures, Volume V, Continuous Monitoring
BAAQMD 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	NH3 and H2S abatement efficiency	Manual of Procedures, Volume III, Method 32, Determination of H2S in Process Water Streams Manual of Procedures, Volume III, Method 1, Determination of NH3 in Effluents
BAAQMD 9-1-313.1	Sulfur in Fuel Limitation	Manual of Procedures, Volume III, Method 10, Determination of Sulfur in Fuel Oils.
BAAQMD 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

## VIII. Test Methods

**Table VIII**  
**Test Methods**

<b>Applicable Requirement</b>	<b>Description of Requirement</b>	<b>Acceptable Test Methods</b>
BAAQMD 9-10-301, 303, 304	Determination of Nitrogen Oxides	Manual of Procedures Volume V Continuous Emissions Monitoring or Equivalent Verification System (CEMS verified by Manual of Procedures, Volume IV ST-13A and ST-14 Source Test)
BAAQMD 9-10-305	Determination of Carbon Monoxide and Stack-Gas Oxygen	Manual of Procedures Volume V Continuous Emissions Monitoring or Equivalent Verification System (CEMS verified by Manual of Procedures, Volume IV ST-6 and ST-14 Source Test)
BAAQMD Regulation 12-6-301	Acid Mist Emission Point	60, Appendix a, Method 8
60 Subpart J 60.102(a)(1)	Limit on particulate matter from FCCU catalyst regenerator	Method 5B, Determination of Nonsulfuric Acid Particulate Matter from Stationary Sources or Method 5F, Determination of Nonsulfate Acid Particulate Matter from Stationary Sources
60 Subpart J 60.102(a)(2)	Limit on opacity of gases from FCCU catalyst regenerator	Method 9, Visual Determination of Opacity from Stationary Sources
60 Subpart J 60.102(b)	Limit on particulate matter from FCCU catalyst regenerator when gases pass through incinerator or waste heat boiler burning auxiliary or supplemental fuel	Method 5B, Determination of Nonsulfuric Acid Particulate Matter from Stationary Sources or Method 5F, Determination of Nonsulfate Acid Particulate Matter from Stationary Sources
60 Subpart J 60.103(a)	Limit on carbon monoxide from FCCU catalyst regenerator	Method 10, Determination of Carbon Monoxide from Stationary Sources
60 Subpart J 60.104(a)(1)	Limit on H <sub>2</sub> S in fuel gas for fuel gas combustion devices	Method 11, Determination of Hydrogen Sulfide Content of Fuel Gas Streams in Petroleum Refineries
60 Subpart J 60.104(a)(2)(i)	Limit on sulfur oxide from Claus sulfur recovery plant (corrected for oxygen)	Method 6 or 6C, Determination of sulfur dioxide emissions from stationary sources Method 3 or 3A, Determination of Oxygen and Carbon Dioxide Concentrations in Emissions From Stationary Sources
60 Subpart J 60.105 (a)(4)(iii)	H <sub>2</sub> S CEMS performance test methods	Performance evaluations for this H <sub>2</sub> S monitor under §60.13(c) shall use Performance Specification 7. Method 11, 15, 15A, or 16 shall be used for conducting the relative accuracy evaluations.
60 Subpart J 60.104(b)(2)	Limit on sulfur oxide from FCCU catalyst regenerator without add-on control device	Method 6, Determination of Sulfur Oxides from Stationary Sources Alternate Monitoring Plan as allowed under 60.105(i)(12)
60 Subpart J 60.106(e)	H <sub>2</sub> S concentration monitoring	Method 11, Determination of Hydrogen Sulfide

**VIII. Test Methods**

**Table VIII  
 Test Methods**

<b>Applicable Requirement</b>	<b>Description of Requirement</b>	<b>Acceptable Test Methods</b>
60 Subpart J 60.106(e)(1)	H2S in fuel gas standard compliance determination	<p>Method 11, 15, 15A, or 16 shall be used to determine the H2S concentration.</p> <p>The gases entering the sampling train should be at about atmospheric pressure. If the pressure in the refinery fuel gas lines is relatively high, a flow control valve may be used to reduce the pressure. If the line pressure is high enough to operate the sampling train without a vacuum pump, the pump may be eliminated from the sampling train. The sample shall be drawn from a point near the centroid of the fuel gas line.</p> <p>(i) For Method 11, the sampling time and sample volume shall be at least 10 minutes and 0.010 dscm (0.35 dscf). Two samples of equal sampling times shall be taken at about 1-hour intervals. The arithmetic average of these two samples shall constitute a run. For most fuel gases, sampling times exceeding 20 minutes may result in depletion of the collection solution, although fuel gases containing low concentrations of H2S may necessitate sampling for longer periods of time.</p> <p>(ii) For Method 15 or 16, at least three injects over a 1-hour period shall constitute a run.</p> <p>(iii) For Method 15A, a 1-hour sample shall constitute a run.</p>
<b>NSPS Title 40 Part 60 Appendix B</b>	<b>Performance Specifications</b>	
Performance Specification 1	Continuous opacity monitoring systems	Method 9, Visual Determination of Opacity from Stationary Sources
Performance Specification 2	NOx and SO2 continuous emission monitoring systems	<p>Method 7, Determination of nitrogen oxide emissions from stationary sources</p> <p>Method 6, Determination of sulfur dioxide emissions from stationary sources</p>
Performance Specification 3	O2 and CO2 continuous emission monitoring systems	Method 3, Gas analysis for the determination of emission rate correction factor or excess air
Performance Specification 4	CO continuous emission monitoring systems	Method 10, Determination of carbon monoxide emissions from stationary sources
Performance Specification 7	H2S continuous emission monitoring systems	Method 11, Determination of Hydrogen Sulfide

**VIII. Test Methods**

**Table VIII  
 Test Methods**

<b>Applicable Requirement</b>	<b>Description of Requirement</b>	<b>Acceptable Test Methods</b>
<b>NSPS Title 40 Part 60 Appendix F</b>	<b>Quality Assurance Procedures</b>	<b>Note: This procedure applies only where specified in an applicable Subpart of 40 CFR Part 60, Part 61 or Part 63, or when required in a permit condition.</b>
Procedure 1	QA requirements for gas continuous emissions monitoring systems	
63 Subpart UUU 63.1564(b)(1) 63.1572 Table 40	Test Methods for COMS (continuous opacity monitoring system)	NSPS Requirements: Performance Specification 1 (60, Appendix B)
63 Subpart UUU 63.1565(b)(1) 63.1572 Table 40	Test Methods for CO CEMS	NSPS Requirements except as allowed by Consent Decree: Performance Specification 4 (60, Appendix B); span value of 1,000 ppm; Procedure 1 (60, Appendix F), with Consent Decree exceptions for quarterly audits
63 Subpart UUU 63.1566(b)(2)	Performance Test for Organic HAP Emissions From Catalytic Reforming Units	Method 22 (60, Appendix A)
63 Subpart UUU 63.1567(b)(2)	Performance Test for Inorganic HAP (HCl) Emissions From Catalytic Reforming Units	Method 26 or 26A (60, Appendix A)
63 Subpart UUU 63.1568(b)(1) 63.1572 Table 40	Test Methods for SO <sub>2</sub> CEMS for sulfur recovery unit (must include O <sub>2</sub> monitor for correcting for excess air)	NSPS Requirements: Performance Specification 2 (60, Appendix B); span value of 500 ppm SO <sub>2</sub> ; Methods 6 or 6C and 3A or 3 B (60, Appendix A); Procedure 1 (60, Appendix F)
<b>NSPS Part 60 Subpart QQQ</b>	<b>Standards of Performance for VOC Emission From Petroleum Refinery Wastewater Systems (11/23/88)</b>	
40 CFR, Subpart QQQ	Leak inspection procedures 60 Subpart QQQ, 60.696:	EPA reference method 21 (60, Appendix A), Determination of Volatile Organic Compound Leaks
Subpart QQQ 40 CFR 60.692-5 (e)(1)	Leak inspection procedures 60 Subpart QQQ, 60.696:	EPA reference method 21 (60, Appendix A), Determination of Volatile Organic Compound Leaks

**VIII. Test Methods**

**Table VIII  
 Test Methods**

<b>Applicable Requirement</b>	<b>Description of Requirement</b>	<b>Acceptable Test Methods</b>
40 CFR, Subpart QQQ, 60.696	Performance test methods and procedures and compliance provisions	Sources equipped with a closed-vent system and control device shall use EPA Method 21 to measure the emission concentrations, using 500 ppm as the no detectable emission limit. Acceptable seal gap criteria also included.
<b>NSPS Part 60 Subpart VV</b>	<b>Standards of Performance for Equipment Leaks (Fugitive Emission Sources) (10/18/83)</b>	
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 (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(c): EPA reference method 21 (60, Appendix A), Determination of Volatile Organic Compound Leaks
Subpart VV 40 CFR 60.483 and BAAQMD 8-18-404.1	Leak inspection procedures	60 Subpart VV, 60.485(b): EPA reference method 21 (60, Appendix A), Determination of Volatile Organic Compound Leaks
<b>NSPS Title 40 Part 60 Appendix A</b>	Inspection Procedures	EPA Reference Method 21
<b>NESHAP Part 61 Subpart FF</b>	<b>National Emission Standard for Benzene Waste Operations (3/7/90)</b>	
Subpart FF 40 CFR 61.349 (a)(1)(i)	Leak inspection procedures	61 Subpart FF, 61.355(h): EPA reference method 21 (60, Appendix A), Determination of Volatile Organic Compound Leaks



**VIII. Test Methods**

**Table VIII  
 Test Methods**

<b>Applicable Requirement</b>	<b>Description of Requirement</b>	<b>Acceptable Test Methods</b>
Subpart FF 40 CFR 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>	
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 (60, Appendix A), Determination of Volatile Organic Compound Leaks
Subpart V 61.242-2(b)(2), 61.242-2 (g), 61.242-8(a)	Visual Inspection	61 Subpart V, 61.242-2 (b)
Subpart V 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(c) : EPA reference method 21 (60, Appendix A), Determination of Volatile Organic Compound Leaks
Subpart V 61.243 and BAAQMD 8-18-404.1	Leak inspection procedures	61 Subpart V, 61.245(b) : EPA reference method 21 (60, Appendix A), Determination of Volatile Organic Compound Leaks
40 CFR, Subpart VV, 63.1046	Test methods, procedures	Method 21 of part 60, appendix A. Acceptable floating roof seal gap criteria included.
40 CFR, Subpart CC	Test methods, procedures	EPA reference method 21 (60, Appendix A), Determination of Volatile Organic Compound Leaks

**IX. PERMIT SHIELD**

**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 – 3  
 Permit Shield for Non-applicable Requirements  
 S901- NO. 7 BOILER, S904-NO. 6 BOILER**

<b>Citation</b>	<b>Title or Description (Reason not applicable)</b>
60 Subpart D	Standards of Performance for Fossil-Fuel-Fired Steam Generators for Which Construction is Commenced After August 17, 1971 (Sources are not newly constructed, reconstructed, or modified since the applicability date of August 17, 1971 for 60 Subpart D.)
60 Subpart Db	Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units (Sources are not newly constructed, reconstructed, or modified since the applicability date of June 19, 1984 for 60 Subpart Db.)
60 Subpart Dc	Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units (Sources are not newly constructed, reconstructed, or modified since the applicability date of June 9, 1989 for 60 Subpart Dc.)

**Table IX A – 4  
 Permit Shield for Non-applicable Requirements  
 S1411-SULFURIC ACID MANUFACTURING PLANT**

<b>Citation</b>	<b>Title or Description (Reason not applicable)</b>
60 Subpart H	Standards of Performance for Sulfuric Acid Plants (S1411 is not newly constructed, reconstructed, or modified since the applicability date of August 17, 1971 for 60 Subpart H.)

**IX. Permit Shield**

**Table IX A – 5  
 Permit Shield for Non-applicable Requirements  
 ORGANIC LIQUID STORAGE TANKS**

<b>Citation</b>	<b>Title or Description (Reason not applicable)</b>
60 Subpart UU	Standards of Performance for Asphalt Processing and Asphalt Roofing Manufacture (There are no asphalt storage tanks on site.)

**Table IX A – 6  
 Permit Shield for Non-applicable Requirements  
 S854-EAST AIR FLARE, S992-EMERGENCY FLARE, S1013-AMMONIA PLANT FLARE**

<b>Citation</b>	<b>Title or Description (Reason not applicable)</b>
Regulation 8, Rule 2	Miscellaneous Operations (Sources that are subject Regulation 10 are exempt from Regulation 8, Rule 2.)

**Table IX A-7  
 Permit Shield for Non-Applicable  
 S1106-NO. 72 FURNACE**

<b>Citation</b>	<b>Title or Description (Reason not applicable)</b>
60 Subpart J	Standards of Performance for Petroleum Refineries (BAAQMD Permit Condition 19199, Part H1 allows for firing of natural gas only)

**X. REVISION HISTORY**

Initial Major Facility Review Permit Issuance (Application 16484): December 1, 2003

Administrative Amendment (no application): May 27, 2004

Reopening Revision 1 (Application 9295): December 16, 2004

Minor Revision (Application 11265): December 30, 2004

Modify the materials to be stored at S-323 Tank A-323 to allow the storage of alkylate gasoline blending material. Increase vapor pressure of material to be stored from a Reid vapor pressure of 2 psia to 9 psia. The throughput of the tank will be decreased from 11,000,000 to 2,000,000 barrels per year. Add source testing requirement for A-14 Vapor Recovery System and process heaters to ensure VOC destruction efficiency of 99.5%. Update Tables II-A, II-B, Table IV –CV, Conditions 13605 and 21503, and Table VII-CB.

Reopening Revision 2 (Application 11696): February 1, 2005

Reopening Revision 2/3 (Application (12431 & 12599) March 9, 2007

Significant Revision (Revision 4): March 20, 2008

<b>Application Number(s)</b>	<b>Description</b>
14144/14141&16390/16389	Coker Modification Project and Revisions
14326/14325	No. 1 HSD Unit Modification
14375/14374	Sulfur Pit Vent Reroute (Consent Decree)
14753/14752	No. 2 Reformer Reactor Feed Preheater F-27
14893/14894	Benzene Saturation Unit Throughput Increase
14917/16496/16495	Firewater Pumps
14918/14919	New Tank S-896
15430/15429	Avon Wharf Slop Tanks
15683/15212	FCCU Change of Conditions (Consent Decree)
15681/15682	NOx Box
16015/15949	Sulfur Recovery Unit (Consent Decree)
16114/16018	Blowdown Tower S-822 Removal
16217/16125	New Gasoline/Blendstock Storage Tank
TBD/15944	Isocracker Unit Hydrogen Recycle Compressor Leak

## X. Revision History

Permit Renewal 2010/2011, Application 18261

June 28, 2011

<b>Application Number(s)</b>	<b>Description</b>
13228	S-1506 & S-1507 New Gasoline Tanks. Evaluation in Rev 3.
14374/14375	Reroute Sulfur Pit Vent. Evaluation in Rev 4.
16082	S-1009 Alkylation Unit Alteration Waste Water Flash Drum
16822/16823	S-896 New Slop Oil Tank
16850/16892	S-1008 Isocracker Unit HIR Compressor Leak Control
16888/16893	Modification of S-913 NOx Box
16889/16890	Modification of S-951 NOx Box
16908	No. 5 Gas Plant -- Wet Gas Compressor Seal Vent Change
17111	S-1416 Spent Acid Tank Vent
17413/17415	S-804 FCCU Blowdown Tower Removal
17470/17471	Modification of S-916 NOx Box
17472/17473	S-795 Perc Storage Vessel Adm. Change in Conditions
17478/17479	S-863 LPG Vaporizing System Adm. Change in Conditions
17500/17501	S-802 FCCU Adm Change in Conditions per Consent Decree
17537/17538	Adm Change in Conditions for Refinery Tanks
17712/17713	Adm Change in Conditions for Amorco Tanks
17752/17753	Consent Decree Requirements for Flares
17836	S-920 New Economizer Alteration
17913/17914	SRU Tail Gas Unit
17928/17458	Removal of Out of Service Sources
18311	Revision to Source Tests for Delayed Coker Heaters
18739/18738	Removal of Fluid Coker Sources
18748/18749	Modification of S-919 NOx Box
18752/18753	50 Unit Blowdown Tower Elimination & New 50 Unit Flare
18835/18832	S-1525 New Gasoline Dispensing Facility
18861/18862	Remove Redundant Fugitive Permit Conditions
18949/18950	Stripper OH (Hydrocracker) Reroute
18997/18998	S-861, S-1455 & S-1457 Cold Cleaner Exemption
19300/19301	S-904 (6BH) Remove CO Boiler Functionality
19326/19327	Avon Wharf Source Deletions And Condition Changes
19328/19329	Crude Tank A-700 Change In Conditions
19330/19331	Amorco IC Engines S-56 & S-57 Change in Conditions
19415	S-1528 Alkylate Unloading Rack
19419/19418	Refinery IC Engines Change in Conditions
19647/19632	Consolidate Bubble Conditions 4357 and 8077.
19874/19875	Combustion Sources Change in Conditions

## X. Revision History

Application Number(s)	Description
20143/20144	S-819 API Oil-Water Separator and S-1026 DNF Air Stripper
20259/20260	Modification of S-909 NOx Box
20359/20360	Modification of S-920 NOx Box
20679/20680	Delayed Coker Throughput Change
20929	Exempt Cold Cleaners
20977/20995	Backup Steam Boilers S-1550 and S-1551
20997/20995	Exemption for Portable Diesel Pump S-1552
21023/21024	Ethanol Unloading and Storage Throughput Increase
21464/21465	Furnace Duties Change of Conditions
21711/21712	Administrative Amendment to Address Appeal Items
21732/21733	Modification of S-919 NOx Box

Minor Revision (Renewal Revision 5):

January 11, 2016

Application #	Revision Type	Project Description
11737	Minor	S-690 Crude Oil Tank Modification
20968/20969	Minor	S-1549 Tank 890 Diesel Additive Tank
21072/21141	Minor	S-912 NOx Box Revision
21713/21714	Minor	S-58 Amorco Wharf Diesel Generator
21744/21744	Minor	S-1510 Delayed Coker Emissions Revision
21787/21790	Minor	S-926 NOx Box Revision
21797/21800	Minor	S-913 NOx Box Revision
22148/22163	Administrative	S-1524 Flare Change of Conditions
22149/22151	Minor	S-919 NOx Box Revision
22152/22153	Minor	S-1552 Emergency Diesel Engine
22169/22170	Minor	S-1553 Backup Boiler
22580/22581	Minor	S-920 NOx Box Revision
22582/22583	Minor	S-926 NOx Box Revision
22615/22624	Minor	S-1020 Reformer Hot Feed Project
22823/22824	Minor	S-1554 High Sulfur Vacuum Gas Oil Tank
22971/22972	Minor	S-913 NOx Box Revision
23006/23007	Administrative	NOx Box Change of Condition 18372
23075	N/A	Alteration to S-802 FCCU
23232/23233	Minor	S-963 Alkylation Unit Gas Turbine CAM Plan
23322/23323	Minor	S-1020 No. 3 Reformer Capacity Increase
23339/23340	Minor	S-920 NOx Box Revision
23341/23425	Minor	S-1001 50 Crude Unit AGO Project
23848/23882	Minor	Title V Renewal Appeal Items -- Engines

## X. Revision History

23869	Minor	Greenhouse Gas Requirements Removal
23870/23871	Minor	S-916 NOx Box Revision
23854	Minor	Title V Renewal Appeal # 8&9, Wastewater, & #21 Miscellaneous
23981/23982	Minor	S-613 Bladder Tank and S-1025 Gasoline Truck Rack
24056/24057	Administrative	Bubble Condition 8077 Corrections
24065/24066	Minor	Title V Renewal Appeal Items -- Flares
24362/24363	Administrative	Change S-913 from 40# to 100# Fuel Gas Supply
24693	Administrative	Responsible Official Change
24920/24921	Minor	S-916 NOx Box Revision
25006/25007	Minor	S-913 NOx Box Revision
25191	Administrative	Facility Owner and Contact Name Change
25758/25759	Minor	S-1412 Sulfuric Acid Plant Start-up Heater 1980 Modification and 2014 Alteration
25942/25958	Minor	S-1557 Emergency Generator, Diesel Engine
26159/26160	Minor	S-920 NOx Box Revision
26272/26273	Minor	No 3 HDS Performance Test S-850, S-973, S-974, and Refinery Emissions Cap Adjustments
27121	Administrative	Responsible Official Name Change

## **XI. GLOSSARY**

### **ACT**

Federal Clean Air Act

### **AMP**

Alternative Monitoring Plan (as allowed in NSPS and MACT)

### **APCO**

Air Pollution Control Officer

### **API**

American Petroleum Institute

### **ARB**

Air Resources Board

### **BAAQMD**

Bay Area Air Quality Management District

### **BACT**

Best Available Control Technology

### **BARCT**

Best Available Retrofit Control Technology

### **Basis**

The underlying authority that allows the District to impose requirements.

### **Bubble**

An emission limit imposed on a group of sources.

### **C5**

An Organic chemical compound with five carbon atoms

### **C6**

An Organic chemical compound with six carbon atoms

### **CAA**

The federal Clean Air Act

### **CAAQS**

California Ambient Air Quality Standards

### **CAPCOA**

California Air Pollution Control Officers Association



## **XI. Glossary**

### **CEC**

California Energy Commission

### **CEQA**

California Environmental Quality Act

### **CEM**

A "continuous emission monitor" is a monitoring device that provides a continuous direct measurement of some pollutant (e.g. NOx concentration) in an exhaust stream.

### **CFP**

Clean Fuels Project

### **CFR**

The Code of Federal Regulations. contains the implementing regulations for federal environmental statutes such as the Clean Air Act. Parts 50-99 of contain the requirements for air pollution programs.

### **CGA**

Calibration Gas Audit

### **CO**

Carbon Monoxide

### **CO2**

Carbon Dioxide

### **Consent Decree**

Case No. SA-05-CA-0569-RF; United States of America v. Valero Refining Company – California, et.al. in the United States District Court, Western District of Texas, San Antonio Division, Lodged 6/15/2005, Entered 11/23/2005

### **Cumulative Increase**

The sum of permitted emissions from each new or modified source since a specified date pursuant to BAAQMD Rule 2-1-403, Permit Conditions (as amended by the District Board on 7/17/91) and SIP Rule 2-1-403, Permit Conditions (as approved by EPA on 6/23/95). Used to determine whether threshold-based requirements are triggered.

### **DAF**

A "dissolved air flotation" unit is a process vessel where air bubbles injected at the bottom of the vessel are used to carry solids in the liquid into a froth on the liquid surface, where it is removed.

## **XI. Glossary**

### **DWT**

Dead Weight Ton

### **District**

The Bay Area Air Quality Management District

### **DNF**

Dissolved Nitrogen Flotation (See DAF)

### **dscf**

Dry Standard Cubic Feet

### **dscm**

Dry Standard Cubic Meter

### **E 6, E 9, E 12**

Very large or very small number values are commonly expressed in a form called scientific notation, which consists of a decimal part multiplied by 10 raised to some power. For example, 4.53 E 6 equals  $(4.53) \times (10^6) = (4.53) \times (10 \times 10 \times 10 \times 10 \times 10 \times 10) = 4,530,000$ . Scientific notation is used to express large or small numbers without writing out long strings of zeros.

### **EFRT**

An "external floating roof tank" minimizes VOC emissions with a roof with floats on the surface of the liquid, thus preventing the formation of a VOC-rich vapor space above the liquid surface as the level in the tank drops. If such a vapor space were allowed to form, it would be expelled when the tank was re-filled. On an EFRT, the floating roof is not enclosed by a second, fixed tank roof, and is thus described as an "external" roof.

### **EMP**

Environmental Management Plan

### **EPA**

The federal Environmental Protection Agency.

### **ESP**

Electrostatic Precipitator

### **ETP**

Effluent Treatment Plant

### **Excluded**

Not subject to any District Regulations.

## **XI. Glossary**

### **FAT**

Field Accuracy Test

### **FCC**

Fluid Catalytic Cracker

### **Federally Enforceable, FE**

All limitations and conditions which are enforceable by the Administrator of the EPA including those requirements developed pursuant to Part 51, subpart I (NSR), Part 52.21 (PSD), Part 60 (NSPS), Part 61 (NESHAPs), Part 63 (HAP), and Part 72 (Permits Regulation, Acid Rain), and also including limitations and conditions contained in operating permits issued under an EPA-approved program that has been incorporated into the SIP.

### **FP**

Filterable Particulate as measured by BAAQMD Method ST-15, Particulate.

### **FR**

Federal Register

### **FRT**

Floating Roof Tank (See EFRT and IFRT)

### **GDF**

Gasoline Dispensing Facility

### **GLM**

Ground Level Monitor

### **grains**

1/7000 of a pound

### **Grandfathered source**

A source that was not subject to District permit requirements at the time it was constructed, but was subsequently required to obtain a District permit to operate, and has never been modified since the permit requirement went into effect. Sources constructed prior to March 7, 1979 (when the District's new source review permit program went into effect) might be grandfathered sources. Source that were exempt from permit requirements at the time of construction, that subsequently lost their exemption due to a change in permit rules, might also be grandfathered sources.

### **GRU**

Gas Recovery Unit

### **Graphitic**

Made of graphite.

## **XI. Glossary**

### **HAP**

Hazardous Air Pollutant. Any pollutant listed pursuant to Section 112(b) of the Act. Also refers to the program mandated by Title I, Section 112, of the Act and implemented by Part 63.

### **H<sub>2</sub>S**

Hydrogen Sulfide

### **H<sub>2</sub>SO<sub>4</sub>**

Sulfuric Acid

### **HC**

Hydrocarbon

### **Hg**

Mercury

### **HNC**

Heavy Neutral Hydrocracker

### **HNHF**

Heavy Neutral Hydrofinisher

### **HHV**

Higher Heating Value. The quantity of heat evolved as determined by a calorimeter where the combustion products are cooled to 60F and all water vapor is condensed to liquid.

### **IFRT**

An "internal floating roof tank" minimizes VOC emissions with a roof with floats on the surface of the liquid, thus preventing the formation of a VOC-rich vapor space above the liquid surface as the level in the tank drops. If such a vapor space were allowed to form, it would be expelled when the tank was re-filled. On an IFRT, the floating roof is enclosed by a second, fixed tank roof, and thus is described as an "internal" roof.

### **ISOM**

Isomerization plant

### **JHT**

Jet Hydrotreater

### **LFSO**

Low sulfur fuel oil

## **XI. Glossary**

### **LHV**

Lower Heating Value. Similar to the higher heating value (see HHV) except that the water produced by the combustion is not condensed but retained as vapor at 60F.

### **Lighter**

"Lightering" is a transfer operation during which liquid is pumped from an ocean-going tanker vessel to a smaller vessel such as a barge. Like any liquid transfer operation, lightering of organic liquids produces organic vapor emissions.

### **LNC**

Light Neutral Hydrocracker

### **LNHF**

Light Neutral Hydrofinisher

### **Long ton**

2200 pounds

### **LPG**

Liquid Petroleum Gas

### **Major Facility**

A facility with potential emissions of: (1) at least 100 tons per year of any regulated air pollutants, (2) at least 10 tons per year of any single hazardous air pollutant, and/or (3) at least 25 tons per year of any combination of hazardous air pollutants, or such lesser quantity of hazardous air pollutants as determined by the EPA administrator.

### **MDEA**

Methyl Diethanolamine

### **MFR**

Major Facility Review. The District's term for the federal operating permit program mandated by Title V of the Act and implemented by District Regulation 2, Rule 6.

### **MM**

Million

### **Mo Gas**

Motor gasoline

### **MOP**

The District's Manual of Procedures

### **MOSC**

Mobil Oil Sludge Conversion (licensed technology)

## **XI. Glossary**

### **MSDS**

Material Safety Data Sheet

### **MTBE**

methyl tertiary-butyl ether

### **NA**

Not Applicable

### **NAAQS**

National Ambient Air Quality Standards

### **NESHAPs**

National Emission Standards for Hazardous Air Pollutants. See in Parts 61 and 63.

### **NMHC**

Non-methane Hydrocarbons

### **NMOC**

Non-methane Organic Compounds (Same as NMHC)

### **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 Act, and implemented by Part 60 and District Regulation 10.

### **NSR**

New Source Review. A federal program for pre-construction review and permitting of new and modified sources of air pollutants for which the District is classified "non-attainment". Mandated by Title I of the Clean Air Act and implemented by Parts 51 and 52 as well as District Regulation 2, Rule 2. (Note: There are additional NSR requirements mandated by the California Clean Air Act.)

### **O<sub>2</sub>**

The chemical name for naturally-occurring oxygen gas.

### **Offset Requirement**

A New Source Review requirement to provide federally enforceable emission offsets at a specified ratio for the emissions from a new or modified source and any pre-existing cumulative increase minus any onsite contemporaneous emission reduction credits. Applies to emissions of POC, NO<sub>x</sub>, PM<sub>10</sub>, and SO<sub>2</sub>.

## **XI. Glossary**

### **Phase II Acid Rain Facility**

A facility that generates electricity for sale through fossil-fuel combustion and is not exempted by 72 from Titles IV and V of the Clean Air Act.

### **POC**

Precursor Organic Compounds

### **PM**

Total Particulate Matter

### **PM10**

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

### **PSD**

Prevention of Significant Deterioration. A federal program for permitting new and modified sources of air pollutants for which the District is classified "attainment" of the National Air Ambient Quality Standards. Mandated by Title I of the Act and implemented by both Part 52 and District Regulation 2, Rule 2.

### **RAA**

Relative Accuracy Audit

### **RACT**

Reasonably Available Control Technology

### **RATA**

Relative Accuracy Test Audit

### **Regulated Organic Liquid**

"Regulated organic liquids" are those liquids which require permits, or which are subject to some regulation, when processed at a liquid-handling operation. For example, for refinery marine terminals, regulated organic liquids are defined as "organic liquids" in Regulation 8, Rule 44.

### **RFG**

Refinery Fuel Gas

### **RMG**

Refinery Make Gas

### **SCR**

A "selective catalytic reduction" unit is an abatement device that reduces NO<sub>x</sub> concentrations in the exhaust stream of a combustion device. SCRs utilize a catalyst, which operates at a specific temperature range, and injected ammonia to promote the conversion of NO<sub>x</sub> compounds to nitrogen gas.

## **XI. Glossary**

### **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.

### **SOCMI**

Synthetic Organic Chemical Manufacturing Industry

### **SO2**

Sulfur dioxide

### **SO2 Bubble**

An SO2 bubble is an overall cap on the SO2 emissions from a defined group of sources, or from an entire facility. SO2 bubbles are sometimes used at refineries because combustion sources are typically fired entirely or in part by "refinery fuel gas" (RFG), a waste gas product from refining operations. Thus, total SO2 emissions may be conveniently quantified by monitoring the total amount of RFG that is consumed, and the concentration of H2S and other sulfur compounds in the RFG.

### **SO3**

Sulfur trioxide

### **SRU**

Sulfur Recovery Unit

### **ST-7**

Source Test Method #7: Non-Methane Organic Carbon Sampling

### **THC**

Total Hydrocarbons (NMHC + Methane)

### **therm**

100,000 British Thermal Units

### **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



## **XI. Glossary**

### **TOC**

Total Organic Compounds (NMOC + Methane, Same as THC)

### **TPH**

Total Petroleum Hydrocarbons

### **TRS**

"Total reduced sulfur" is a measure of the amount of sulfur-containing compounds in a gas stream, typically a fuel gas stream, including, but not limited to, hydrogen sulfide. The TRS content of a fuel gas determines the concentration of SO<sub>2</sub> that will be present in the combusted fuel gas, since sulfur compounds are converted to SO<sub>2</sub> by the combustion process.

### **TSP**

Total Suspended Particulate

### **TVP**

True Vapor Pressure

### **VGO**

Vacuum Gas Oil

### **VOC**

Volatile Organic Compounds

### **VR**

Vapor Recovery

### **WWT**

Wastewater Treatment

### **Units of Measure:**

bbl	=	barrel of liquid (42 gallons)
bhp	=	brake-horsepower
BPD	=	barrels per day
BPH	=	barrels per hour
BPY	=	barrels per year
BTU or btu	=	British Thermal Unit
C	=	degrees Celsius
dscf	=	dry standard cubic feet
dscm	=	dry standard cubic meters
F	=	degrees Fahrenheit

## XI. Glossary

f <sup>3</sup>	=	cubic feet
g	=	grams
gr	=	grains
gal	=	gallon
gpm	=	gallons per minute
hp	=	horsepower
hr	=	hour
lb	=	pound
in	=	inches
k or K	=	thousand
max	=	maximum
m <sup>2</sup>	=	square meter
min	=	minute
Mg	=	mega-gram, one thousand grams
µg	=	micro-gram, one millionth of a gram
ml	=	milliliter
MM	=	million
mm	=	millimeter
MMbtu	=	million BTU
mmBtu	=	million BTU
mmbtu	=	million BTU
MMBTU	=	million BTU
mm Hg	=	millimeters of Mercury (pressure)
MW	=	megawatts
ppmv	=	parts per million, by volume
ppmvd	=	parts per million, by volume, dry basis
ppmw	=	parts per million, by weight
psia	=	pounds per square inch, absolute
psig	=	pounds per square inch, gauge
scfm	=	standard cubic feet per minute
TPD	=	tons per day
TPY	=	tons per year
tpy	=	tons per year
yr	=	year

### Symbols:

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