

Bay Area Air Quality Management District

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Permit Evaluation and Statement of Basis for MAJOR FACILITY REVIEW PERMIT Significant Revision

for
**ConocoPhillips – San Francisco Refinery
Facility #A0016**

Facility Address:

1380 San Pablo Avenue
Rodeo, CA 94572

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Rodeo, CA 94572

January 2008

Application 10994

Application Engineer: Brenda Cabral
Site Engineer: Sanjeev Kamboj

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Title V Statement of Basis

A. Background

This facility is subject to the Operating Permit requirements of Title V of the federal Clean Air Act, Part 70 of Volume 40 of the Code of Federal Regulations (CFR), and BAAQMD Regulation 2, Rule 6, Major Facility Review because it is a major facility as defined by BAAQMD Regulation 2-6-212. It is a major facility because it has the “potential to emit,” as defined by BAAQMD Regulation 2-6-218, more than 100 tons per year of a regulated air pollutant.

Major Facility Operating permits (Title V permits) must meet specifications contained in 40 CFR Part 70 as contained in BAAQMD Regulation 2, Rule 6. The permits must contain all applicable requirements (as defined in BAAQMD Regulation 2-6-202), monitoring requirements, recordkeeping requirements, and reporting requirements. The permit holders must submit reports of all monitoring at least every six months and compliance certifications at least every year.

In the Bay Area, state and District requirements are also applicable requirements and are included in the permit. These requirements can be federally enforceable or non-federally enforceable. All applicable requirements are contained in Sections I through VI of the permit.

The District issued the initial Title V permit to this facility on December 1, 2003.

The purpose of this action is to add the requirements of 40 CFR 63, Subpart UUU, which was promulgated on April 11, 2002. The facility submitted an application to the District for inclusion of these requirements on October 7, 2004.

The facility also submitted Application 12931 on July 7, 2005 to include certain requirements from a consent decree entered by the US District Court for the Southern District of Texas against ConocoPhillips on January 27, 2005 into the permit. The facility was directed to add 40 CFR 60, Subpart J, Standards of Performance for Petroleum Refineries, to all combustion devices and the sulfur recovery units. Because the sulfur recovery units are subjects of this action, Subpart J will be added to the permit in this action. The combustion units were considered in Application 12931, issued October 15, 2007. The proposed changes will have no impact on emissions.

In addition, this action also incorporates permit conditions that were incorporated into the BAAQMD permit pursuant to Application 14883. The facility submitted this application to incorporate consent decree requirements for S301, S302, and S303, Sulfur Pits. EPA stated that the sulfur pits were part of the sulfur recovery unit and therefore were subject to 40 CFR 60, Subpart J, Standards of Performance for Petroleum Refineries. In response, the facility submitted an application to upgrade the venting apparatus for the sulfur pits. The engineering evaluation for Application 14883 forms part of this statement of basis and is attached in Appendix A to this document.

The addition of throughput limits for the sulfur pits, S301-S303, and the sulfur recovery units, S1001-S1003, that were finalized in the Authority to Construct issued pursuant to Application

13424, will be incorporated in this action. These limits should have been incorporated in the revisions of March 6, 2006. The rest of the changes proposed in Application 13424 will be incorporated into the Title V permit via Application 13427.

This is a significant revision of the Major Facility Review permit as required by BAAQMD Regulation 2-6-226.7 because a new federal requirement has been imposed.

The proposed changes to the permit are shown in "~~strikeout~~/underline" format. In this action, the District is soliciting public comment only on the revisions proposed in this action. When the permit is finalized, the tracking marks will be removed.

This statement of basis does not address the factual and legal basis for any other permit terms. These are addressed in the comprehensive statements of basis that were prepared for the initial issuance of the permit and subsequent reopenings and revisions. These are available on request.

B. Facility Description

The facility description can be found in the statement of basis that was prepared for the reopening issued on December 16, 2004. It is available on request from the Engineering Division of the District.

C. Permit Content

Additional information concerning the legal and factual basis of the Title V permit conditions is presented below. The information is organized by the relevant section of the Title V permit.

I. Standard Conditions

No changes to Section I are proposed.

II. Equipment

This section of the permit lists all permitted or significant sources. Each source is identified by an S and a number (e.g., S24).

Permitted sources are those sources that require a BAAQMD operating permit pursuant to BAAQMD Rule 2-1-302.

Significant sources are those sources that have a potential to emit of more than 2 tons of a “regulated air pollutant,” as defined in BAAQMD Rule 2-6-222, per year or 400 pounds of a “hazardous air pollutant,” as defined in BAAQMD Rule 2-6-210, per year.

All abatement (control) devices that control permitted or significant sources are listed. Each abatement device whose primary function is to reduce emissions is identified by an A and a number (e.g., A-24). If a source is also an abatement device, such as when an engine controls VOC emissions, it will also be listed in the abatement device table but will have an “S” number.

An abatement device may also be a source (such as a thermal oxidizer that burns fuel) of secondary emissions. If the primary function of a device is to control emissions, it is considered an abatement (or “A”) device. If the primary function of a device is a non-control function, the device is considered to be a source (or “S”).

Each of the permitted sources has previously been issued a permit to operate pursuant to the requirements of BAAQMD Regulation 2, Permits. These permits are issued in accordance with state law and the District’s regulations. The capacities in the permitted sources table are the maximum allowable capacities for each source, pursuant to Standard Condition I.J and Regulation 2-1-403.

The equipment section is considered to be part of the facility description. It contains information that is necessary for applicability determinations, such as fuel types, contents or sizes of tanks, etc. This information is part of the factual basis of the permit.

No changes are proposed to the permitted sources table. The relevant parts are shown here for information only. Changes are proposed to Table II-B, Abatement Devices. The details are shown below.

Table II A - Permitted Sources

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

S#	Description	Make or Type	Model	Capacity
296	C-1 Flare (main refinery flare, elevated, steam-assisted, serves S304, S305, S306)	Callidus		845 ton/hr gas handling capacity, 6.6 MMbtu/hr pilot
301	<u>Molten Sulfur Pit 234</u>	<u>NA</u>	<u>NA</u>	<u>271 long ton/day for S301, S302, S303</u>
302	<u>Molten Sulfur Pit 236</u>	<u>NA</u>	<u>NA</u>	<u>271 long ton/day for S301, S302, S303</u>
303	<u>Molten Sulfur Pit 238</u>	<u>NA</u>	<u>NA</u>	<u>271 long ton/day for S301, S302, S303</u>
306	U231 Platforming Unit	NA	NA	21,000 bbl/day
308	U244 Reforming Unit	NA	NA	16,087 bbl/day
398	MP-30 Flare (backup refinery flare, elevated, steam-assisted, serves S304, S305, S306)	John Zink	Q5-48C	845 ton/hr gas handling capacity, 3.1 MMbtu/hr pilot
1001	Sulfur Plant Unit 234 (including aux. burner)		Claus	271 long ton/day for S1001, 1002 and 1003
1002	Sulfur Plant Unit 236 (including aux. burner, water stripper)		Claus	271 long ton/day for S1001, 1002 and 1003
1003	Sulfur Plant Unit 238 (including aux. burner)		Claus	245 long ton/day for S1001, 1002 and 1003

Various clarifications are being made to the abatement device table below. A1-A3, Sulfur Plant Tail-Gas Treatment Plants are actually Beavon-Stretford plants and tail gas incinerators. The tail gas incinerators will be listed separately. The limits that have been added from the federal requirements are discussed in Section C.IV. The particulate limits from BAAQMD Regulation 6 have also been added. Parametric monitoring is not employed at these sources. SO₂ is monitored with CEMs.

S296 and S398, Flares, have been added to this table because the flares may be used as control devices during regeneration of S306 and S308, Reformers.

Table II B – Abatement Devices

A#	Description	Source(s) Controlled	Applicable Requirement	Operating Parameters	Limit or Efficiency
1	Sulfur Plant Tail-Gas Treatment Plant (<u>Beavon-Stretford</u>)	S1001 tailgas, <u>S301</u>	BAAQMD 9-1-313.2 and SIP 9-1-313.2	none	95% of H2S in refinery fuel gas is removed and recovered on a refinery-wide basis
1	Sulfur Plant Tail-Gas Treatment Plant (<u>Beavon-Stretford</u>)	S1001 tailgas, <u>S301</u>	BAAQMD 6-330	none	0.08 grain/dscf exhaust concentration of SO3 and H2SO4, expressed as 100% H2SO4
<u>1</u>	<u>Sulfur Plant Tail-Gas Treatment Plant (Beavon-Stretford)</u>	<u>S1001 tailgas, S301</u>	<u>40 CFR 60.104(a)(2)(i)</u>	<u>none</u>	<u>SO2 < 250 ppm at 0% O2</u>
<u>1</u>	<u>Sulfur Plant Tail-Gas Treatment Plant (Beavon-Stretford)</u>	<u>S1001 tailgas, S302</u>	<u>40 CFR 63.1568(a)(1)(i)</u>	<u>none</u>	<u>SO2 < 250 ppm at 0% O2</u>
2	Sulfur Plant Tail-Gas Treatment Plant (<u>Beavon-Stretford</u>)	S1002 tailgas, <u>S302</u>	BAAQMD 9-1-313.2 and SIP 9-1-313.2	none	95% of H2S in refinery fuel gas is removed and recovered on a refinery-wide basis
2	Sulfur Plant Tail-Gas Treatment Plant (<u>Beavon-Stretford</u>)	S1002 tailgas, <u>S302</u>	BAAQMD 6-330	none	0.08 grain/dscf exhaust concentration of SO3 and H2SO4, expressed as 100% H2SO4
<u>2</u>	<u>Sulfur Plant Tail-Gas Treatment Plant (Beavon-Stretford)</u>	<u>S1002 tailgas, S302</u>	<u>40 CFR 60.104(a)(2)(i)</u>	none	<u>SO2 < 250 ppm at 0% O2</u>
<u>2</u>	<u>Sulfur Plant Tail-Gas Treatment Plant (Beavon-Stretford)</u>	<u>S1002 tailgas, S302</u>	<u>40 CFR 63.1568(a)(1)(i)</u>	none	<u>SO2 < 250 ppm at 0% O2</u>

Table II B – Abatement Devices

A#	Description	Source(s) Controlled	Applicable Requirement	Operating Parameters	Limit or Efficiency
3	Sulfur Plant Tail-Gas Treatment Plant (<u>Beavon- Stretford</u>)	S1003 tailgas, <u>S303</u>	BAAQMD 9-1-313.2 and SIP 9-1-313.2	none	95% of H2S in refinery fuel gas is removed and recovered on a refinery- wide basis
3	Sulfur Plant Tail-Gas Treatment Plant (<u>Beavon- Stretford</u>)	S1003 tailgas, <u>S303</u>	BAAQMD 6-330	none	0.08 grain/dscf exhaust concentration of SO3 and H2SO4, expressed as 100% H2SO4
<u>3</u>	<u>Sulfur Plant Tail-Gas Treatment Plant (Beavon- Stretford)</u>	<u>S1003 tailgas, S303</u>	<u>40 CFRS 60.104(a)(2)(i)</u>	none	<u>SO2 < 250 ppm at 0% O2</u>
<u>3</u>	<u>Sulfur Plant Tail-Gas Treatment Plant (Beavon- Stretford)</u>	<u>S1003 tailgas, S303</u>	<u>40 CFR 63.1568(a)(1) (i)</u>	none	<u>SO2 < 250 ppm at 0% O2</u>
<u>421</u>	<u>Tail-Gas Incinerator (19.5 MMbtu/hr, RFG)</u>	<u>A1</u>	<u>6-301</u>	<u>none</u>	<u>Ringelmann 1 for < 3 min/hr</u>
<u>421</u>	<u>Tail-Gas Incinerator (19.5 MMbtu/hr, RFG)</u>	<u>A1</u>	<u>6-310</u>	<u>none</u>	<u>0.15 gr/dscf</u>
<u>421</u>	<u>Tail-Gas Incinerator (19.5 MMbtu/hr, RFG)</u>	<u>A1</u>	<u>6-311</u>	<u>none</u>	<u>4.10P^{0.67} lb/hr, where P is process weight, ton/hr</u>
<u>421</u>	<u>Tail-Gas Incinerator (19.5 MMbtu/hr, RFG)</u>	<u>A1</u>	<u>6-330</u>	<u>none</u>	<u>0.08 grain/dscf exhaust concentration of SO3 and H2SO4, expressed as 100% H2SO4</u>
<u>422</u>	<u>Tail-Gas Incinerator (19.5 MMbtu/hr, RFG)</u>		<u>40 CFR 60.104(a)(2)(i)</u>	<u>none</u>	<u>SO2 < 250 ppm at 0% O2</u>
<u>422</u>	<u>Tail-Gas Incinerator (19.5 MMbtu/hr, RFG)</u>		<u>40 CFR 63.1568(a)(1) (i)</u>	<u>none</u>	<u>SO2 < 250 ppm at 0% O2</u>
<u>422</u>	<u>Tail-Gas Incinerator (19.5 MMbtu/hr, RFG)</u>	<u>A2</u>	<u>6-301</u>	<u>none</u>	<u>Ringelmann 1 for < 3 min/hr</u>

Table II B – Abatement Devices

A#	Description	Source(s) Controlled	Applicable Requirement	Operating Parameters	Limit or Efficiency
<u>422</u>	<u>Tail-Gas Incinerator (19.5 MMbtu/hr, RFG)</u>	<u>A2</u>	<u>6-310</u>	<u>none</u>	<u>0.15 gr/dscf</u>
<u>422</u>	<u>Tail-Gas Incinerator (19.5 MMbtu/hr, RFG)</u>	<u>A2</u>	<u>6-311</u>	<u>none</u>	<u>4.10P^{0.67} lb/hr, where P is process weight, ton/hr</u>
<u>422</u>	<u>Tail-Gas Incinerator (19.5 MMbtu/hr, RFG)</u>	<u>A2</u>	<u>6-330</u>	<u>none</u>	<u>0.08 grain/dscf exhaust concentration of SO3 and H2SO4, expressed as 100% H2SO4</u>
<u>422</u>	<u>Tail-Gas Incinerator (19.5 MMbtu/hr, RFG)</u>		<u>40 CFR 60.104(a)(2)(i)</u>	<u>none</u>	<u>SO2 < 250 ppm at 0% O2</u>
<u>422</u>	<u>Tail-Gas Incinerator (19.5 MMbtu/hr, RFG)</u>		<u>40 CFR 63.1568(a)(1) (i)</u>	<u>none</u>	<u>SO2 < 250 ppm at 0% O2</u>
<u>423</u>	<u>Tail-Gas Incinerator (19.5 MMbtu/hr, RFG)</u>	<u>A3</u>	<u>6-301</u>	<u>none</u>	<u>Ringelmann 1 for < 3 min/hr</u>
<u>423</u>	<u>Tail-Gas Incinerator (19.5 MMbtu/hr, RFG)</u>	<u>A3</u>	<u>6-310</u>	<u>none</u>	<u>0.15 gr/dscf</u>
<u>423</u>	<u>Tail-Gas Incinerator (19.5 MMbtu/hr, RFG)</u>	<u>A3</u>	<u>6-311</u>	<u>none</u>	<u>4.10P^{0.67} lb/hr, where P is process weight, ton/hr</u>
<u>423</u>	<u>Tail-Gas Incinerator (19.5 MMbtu/hr, RFG)</u>	<u>A3</u>	<u>6-330</u>	<u>none</u>	<u>0.08 grain/dscf exhaust concentration of SO3 and H2SO4, expressed as 100% H2SO4</u>
<u>423</u>	<u>Tail-Gas Incinerator (19.5 MMbtu/hr, RFG)</u>	<u>A3</u>	<u>40 CFR 60.104(a)(2)(i)</u>	<u>none</u>	<u>SO2 < 250 ppm at 0% O2</u>
<u>423</u>	<u>Tail-Gas Incinerator (19.5 MMbtu/hr, RFG)</u>	<u>A3</u>	<u>40 CFR 63.1568(a)(1) (i)</u>	<u>none</u>	<u>SO2 < 250 ppm at 0% O2</u>

Table II B – Abatement Devices

A#	Description	Source(s) Controlled	Applicable Requirement	Operating Parameters	Limit or Efficiency
<u>S296</u>	<u>C-1 Flare (main refinery flare, elevated, steam-assisted, serves S304, S305, S306)</u>	<u>S306, S308</u>	<u>40 CFR 63.1566(a)(1)(ii)</u>	<u>Flame detection by thermocouple</u>	<u>98% control of non-methane TOC by weight or concentration of 20 ppmw as hexane, dry @ 3% O₂, whichever is less stringent (Applies to S306, may apply to S308)</u>
<u>S398</u>	<u>MP-30 Flare (backup refinery flare, elevated, steam-assisted, serves S304, S305, S306)</u>	<u>S306, S308</u>	<u>40 CFR 63.1566(a)(1)(ii)</u>	<u>Flame detection by thermocouple</u>	<u>98% control of non-methane TOC by weight or concentration of 20 ppmw as hexane, dry @ 3% O₂, whichever is less stringent (Applies to S306, may apply to S308)</u>

III. Generally Applicable Requirements

No changes to this section are proposed in this action.

IV. Source-Specific Applicable Requirements

This section of the permit lists the applicable requirements for permitted or significant sources. These applicable requirements are contained in tables that pertain to one or more sources that have the same requirements. The order of the requirements is:

- District Rules
- SIP Rules (if any) listed following the corresponding District Rules. SIP rules are District rules that have been approved by EPA into the California State Implementation Plan. SIP rules are “federally enforceable” and a “Y” (yes) indication will appear in the “Federally

Enforceable” column. If the SIP rule is the current District rule, separate citation of the SIP rule is not necessary and the “Federally Enforceable” column will have a “Y” for “yes”. If the SIP rule is not the current District rule, the SIP rule or the necessary portions of the SIP rule are cited separately after the District rule. The SIP portions will be federally enforceable; the non-SIP versions will not be federally enforceable, unless EPA has approved them through another program.

- Other District requirements, such as the Manual of Procedures, as appropriate.
- Federal requirements (other than SIP provisions)
- BAAQMD permit conditions. The text of BAAQMD permit conditions is found in Section VI of the permit.
- Federal permit conditions (unless they have been assigned a District permit condition number, in which case they are included as BAAQMD permit conditions). The text of Federal permit conditions, if any, is found in Section VI of the permit.

Section IV of the permit contains citations to all of the applicable requirements. The text of the requirements is found in the regulations, which are readily available on the District’s or EPA’s websites, or in the permit conditions, which are found in Section VI of the permit. All monitoring requirements are cited in Section IV. Section VII is a cross-reference between the limits and monitoring requirements. A discussion of changes to monitoring is included in Section C.VII of this permit evaluation/statement of basis.

Changes to permit:

40 CFR 63, Subpart UUU (Subpart UUU) was proposed by EPA on September 11, 1998, and promulgated on April 11, 2002. It was substantially amended on February 9, 2005.

Subpart UUU applies to catalytic crackers, catalytic reformers, sulfur recovery units (SRUs) and bypass lines for this equipment. The purpose is to reduce emissions of organic and inorganic HAP from catalytic reformers and crackers and emissions of reduced sulfur compounds from SRUs.

ConocoPhillips does not have any catalytic crackers. The facility has a thermal cracker, S307, which is not subject to the standard. The facility has stated that there are no bypass lines, so the requirements for bypass lines do not apply.

The standard requires control of any emissions from catalyst regeneration at catalytic reformers by either control at a flare or control at another control device or a concentration limit. Conoco expects that any emissions will enter the fuel gas system and be recovered. In the case that emissions cannot be recovered, ConocoPhillips would use their flares to comply with the standard. The standard would place new requirements on flares that are used for compliance with this standard. When a flare is used to comply with Subpart UUU, it is subject to 40 CFR 63.11. If a flare that is subject to 40 CFR 60, Subpart J, were used to abate the regeneration emissions, it would be subject to the H₂S limits in Section 60.104(a), because regeneration of catalyst is not a startup, shutdown, malfunction, or upset. The requirement for H₂S monitoring has not been added to the flare table because use of the flare is not expected during regeneration.

The flare table is being amended to clarify that the flares are exempt from the H₂S standard in 40 CFR 60.104(a) when burning startup, shutdown, and malfunction gas in addition to upset gas

because the standard does not apply to "process upset gas," which is defined as "any gas generated by a petroleum refinery process unit as a result of start-up, shut-down, upset or malfunction."

40 CFR 63.11(b)(8) does not apply because the flare is not air-assisted.

Regulation 12, Rule 12, Flares at Petroleum Refineries, was adopted on July 20, 2005. The citations of this non-federally enforceable rule are being added to the permit in this action.

Table IV – L.1
Source-specific Applicable Requirements
S296 – C-1 FLARE

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
District Regulation 6	Particulate Matter and Visible Emissions (12/19/90)		
6-301	Ringelmann Number 1 Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particulate Weight Limitation	Y	
BAAQMD Regulation 12, -Rule 11	Flare Monitoring at Petroleum Refineries (06/04/03)		
12-11-401	Flare Data Reporting Requirements	N	
12-11-402	Flow Verification Report	N	
12-11-501	Vent Gas Flow Monitoring	N	
12-11-502	Vent Gas Composition Monitoring	N	
12-11-502.3	Vent Gas Composition Monitoring	N	
12-11-503	Pilot Monitoring	N	
12-11-504	Pilot and Purge Gas Monitoring	N	
12-11-505	Recordkeeping Requirements	N	
12-11-506	General Monitoring Requirements	N	
12-11-506.1	Periods of Inoperation of Vent Gas Monitoring	N	
12-11-507	Video Monitoring	N	
<u>BAAQMD Regulation 12, Rule 12</u>	<u>Flares at Petroleum Refineries (07/20/05)</u>		
<u>12-12-301</u>	<u>Flare Minimization</u>	<u>N</u>	
<u>12-12-401</u>	<u>Flare Minimization Plan Requirements</u>	<u>N</u>	
<u>12-12-402</u>	<u>Submission of Flare Minimization Plans</u>	<u>N</u>	
<u>12-12-403</u>	<u>Review and Approval of Flare Minimization Plans</u>	<u>N</u>	
<u>12-12-404</u>	<u>Update of Flare Minimization Plans</u>	<u>N</u>	
<u>12-12-405</u>	<u>Notification of Flaring</u>	<u>N</u>	
<u>12-12-406</u>	<u>Determination and Reporting of Cause</u>	<u>N</u>	

Table IV – L.1
Source-specific Applicable Requirements
S296 – C-1 FLARE

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<u>12-12-407</u>	<u>Annual Reports</u>	<u>N</u>	
<u>12-12-408</u>	<u>Designation of Confidential Information</u>	<u>N</u>	
<u>12-12-501</u>	<u>Water Seal Integrity Monitoring</u>	<u>N</u>	
40 CFR Part 60 Subpart A	New Source Performance Standards – General Provisions (12/23/71)	Y	
60.1	Applicability	Y	
60.2	Definitions	Y	
60.3	Units and abbreviations	Y	
60.4	Address	Y	
60.5	Determination of construction or modification	Y	
60.6	Review of plans	Y	
60.7	Notification and record keeping	Y	
60.8	Performance tests	Y	
60.9	Availability of information	Y	
60.10	State authority	Y	
60.11	Compliance with standards and maintenance requirements	Y	
60.11(a)	Compliance determined by performance tests	Y	
60.11(d)	Control devices operated using good air pollution control practice	Y	
60.12	Circumstances	Y	
60.14	Modifications	Y	
60.15	Reconstruction	Y	
60.16	Priority list	Y	
60.17	Incorporation by reference	Y	
60.19	General notification and reporting requirements	Y	
NSPS 40 CFR 60 Subpart J	Standards of Performance for Petroleum Refineries (7/1/00)		
60.104	Standards for Sulfur Oxides: Compliance Schedule	Y	
60.104(a)(1)	Exempt from fuel gas H ₂ S limit if the flare is used only for <u>startup, shutdown, upset, s</u> or emergency malfunctions <u>gas</u>	Y	
40 CFR 63, Subpart A	<u>General Provisions (3/16/94)</u>		
<u>63.11</u>	<u>Control device requirements</u>	<u>Y</u>	
<u>63.11(a)</u>	<u>Applicability</u>	<u>Y</u>	
<u>63.11(b)</u>	<u>Flares</u>	<u>Y</u>	
<u>63.11(b)(1)</u>	<u>Monitoring of flares</u>	<u>Y</u>	
<u>63.11(b)(2)</u>	<u>Types of flares</u>	<u>Y</u>	

Table IV – L.1
Source-specific Applicable Requirements
S296 – C-1 FLARE

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.11(b)(3)	<u>Operation whenever emissions from S306 or S308 regeneration vented to flare</u>	<u>Y</u>	
63.11(b)(4)	<u>Limit on visible emissions whenever emissions from S306 or S308 regeneration vented to flare</u>	<u>Y</u>	
63.11(b)(5)	<u>Flame present at all times</u>	<u>Y</u>	
63.11(b)(6)	<u>Net heating value of 300 btu/scf or greater whenever emissions from S306 or S308 regeneration vented to flare</u>	<u>Y</u>	
63.11(b)(7)(i)	<u>Exit velocity less than 60 ft/sec whenever emissions from S306 or S308 regeneration vented to flare</u>	<u>Y</u>	
40 CFR 63 Subpart UUU	<u>National Emission Standards for Hazardous Pollutants for Petroleum Refineries: Catalytic Cracking Units, Catalytic Reforming Units, and Sulfur Recovery Units (4/11/02)</u>	<u>Y</u>	
63.1566(b)(2)	<u>Conduct each performance test required by Table 18: 2-hr observation for visible emissions; determination of net heating value of gas (applies to regeneration emissions from S306 or S308)</u>	<u>Y</u>	<u>1st Regen after 4/11/2005</u>
Table 18	<u>Requirements for Performance Tests for Organic HAP Emissions From Catalytic Reforming Units</u>		
BAAQMD Condition 18255			
Part 3	Flaring event definition [Basis: 2-6-409.2]	Y	
Part 4	Flaring event inspection procedure [Basis: 6-301, 2-1-403]	Y	
Part 5	Flaring event compliance criteria [Basis: 2-6-403]	Y	
Part 6	Flaring event records [Basis: 2-6-501, 2-6-409.2]	Y	

Table IV – L.2
Source-specific Applicable Requirements
S398 – MP-30 FLARE

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
District Regulation 6	Particulate Matter and Visible Emissions (12/19/90)		
6-301	Ringelmann Number 1 Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particulate Weight Limitation	Y	
BAAQMD Regulation 12, -Rule 11	Flare Monitoring at Petroleum Refineries (06/04/03)		
12-11-401	Flare Data Reporting Requirements	N	
12-11-402	Flow Verification Report	N	
12-11-501	Vent Gas Flow Monitoring	N	
12-11-502	Vent Gas Composition Monitoring	N	
12-11-502.3	Vent Gas Composition Monitoring	N	
12-11-503	Pilot Monitoring	N	
12-11-504	Pilot and Purge Gas Monitoring	N	
12-11-505	Recordkeeping Requirements	N	
12-11-506	General Monitoring Requirements	N	
12-11-506.1	Periods of Inoperation of Vent Gas Monitoring	N	
12-11-507	Video Monitoring	N	
<u>BAAQMD Regulation 12, Rule 12</u>	<u>Flares at Petroleum Refineries (07/20/05)</u>		
<u>12-12-301</u>	<u>Flare Minimization</u>	<u>N</u>	
<u>12-12-401</u>	<u>Flare Minimization Plan Requirements</u>	<u>N</u>	
<u>12-12-402</u>	<u>Submission of Flare Minimization Plans</u>	<u>N</u>	
<u>12-12-403</u>	<u>Review and Approval of Flare Minimization Plans</u>	<u>N</u>	
<u>12-12-404</u>	<u>Update of Flare Minimization Plans</u>	<u>N</u>	
<u>12-12-405</u>	<u>Notification of Flaring</u>	<u>N</u>	
<u>12-12-406</u>	<u>Determination and Reporting of Cause</u>	<u>N</u>	
<u>12-12-407</u>	<u>Annual Reports</u>	<u>N</u>	
<u>12-12-408</u>	<u>Designation of Confidential Information</u>	<u>N</u>	
<u>12-12-501</u>	<u>Water Seal Integrity Monitoring</u>	<u>N</u>	
40 CFR Part 60 Subpart A	New Source Performance Standards – General Provisions (12/23/71)	Y	
60.1	Applicability	Y	
60.2	Definitions	Y	
60.3	Units and abbreviations	Y	

Table IV – L.2
Source-specific Applicable Requirements
S398 – MP-30 FLARE

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.4	Address	Y	
60.5	Determination of construction or modification	Y	
60.6	Review of plans	Y	
60.7	Notification and record keeping	Y	
60.8	Performance tests	Y	
60.9	Availability of information	Y	
60.10	State authority	Y	
60.11	Compliance with standards and maintenance requirements	Y	
60.11(a)	Compliance determined by performance tests	Y	
60.11(d)	Control devices operated using good air pollution control practice	Y	
60.12	Circumstances	Y	
60.14	Modifications	Y	
60.15	Reconstruction	Y	
60.16	Priority list	Y	
60.17	Incorporation by reference	Y	
60.19	General notification and reporting requirements	Y	
NSPS 40 CFR 60 Subpart J	Standards of Performance for Petroleum Refineries (7/1/00)		
60.104	Standards for Sulfur Oxides: Compliance Schedule	Y	
60.104(a)(1)	Exempt from fuel gas H ₂ S limit if the flare is used only for <u>startup</u> , <u>shutdown</u> , <u>upsets</u> , or emergency malfunctions <u>gas</u>	Y	
<u>40 CFR 63, Subpart A</u>	<u>General Provisions (3/16/94)</u>		
<u>63.11</u>	<u>Control device requirements</u>	<u>Y</u>	
<u>63.11(a)</u>	<u>Applicability</u>	<u>Y</u>	
<u>63.11(b)</u>	<u>Flares</u>	<u>Y</u>	
<u>63.11(b)(1)</u>	<u>Monitoring of flares</u>	<u>Y</u>	
<u>63.11(b)(2)</u>	<u>Types of flares</u>	<u>Y</u>	
<u>63.11(b)(3)</u>	<u>Operation whenever emissions from S306 or S308 regeneration vented to flare</u>	<u>Y</u>	
<u>63.11(b)(4)</u>	<u>Limit on visible emissions whenever emissions from S306 or S308 regeneration vented to flare</u>	<u>Y</u>	
<u>63.11(b)(5)</u>	<u>Flame present at all times</u>	<u>Y</u>	
<u>63.11(b)(6)</u> <u>(ii)</u>	<u>Net heating value of 300 btu/scf or greater whenever emissions from S306 or S308 regeneration vented to flare</u>	<u>Y</u>	
<u>63.11(b)(7)(i)</u>	<u>Exit velocity less than 60 ft/sec whenever emissions from S306 or S308 regeneration vented to flare</u>	<u>Y</u>	

Table IV – L.2
Source-specific Applicable Requirements
S398 – MP-30 FLARE

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
40 CFR 63 Subpart UUU	<u>National Emission Standards for Hazardous Pollutants for Petroleum Refineries: Catalytic Cracking Units, Catalytic Reforming Units, and Sulfur Recovery Units (4/11/02)</u>	<u>Y</u>	
63.1566(b)(2)	<u>Conduct each performance test required by Table 18: 2-hr observation for visible emissions; determination of net heating value of gas (applies to regeneration emissions from S306 or S308)</u>	<u>Y</u>	<u>1st Regen after 4/11/2005</u>
BAAQMD Condition 18255			
Part 3	Flaring event definition [Basis: 2-6-409.2]	Y	
Part 4	Flaring event inspection procedure [Basis: 6-301, 2-1-403]	Y	
Part 5	Flaring event compliance criteria [Basis: 2-6-403]	Y	
Part 6	Flaring event records [Basis: 2-6-501, 2-6-409.2]	Y	

S307, U240 Unicracking Unit, is not subject because it is a thermal cracking unit, which is exempt in accordance with 40 CFR 63.1562(f)(1).

Changes to the requirements for S306 and S308, Catalytic Reforming Units.

Table IV-N has been split into two process vessel tables: one that contains S306 and S308 and one that does not.

Table IV – Na
Source-specific Applicable Requirements – Process Vessels
S304 –U-229 LIGHT NAPHTHA HYDROTREATER;
S305 – U-230 PREFRACTIONATOR / NAPHTHA HYDROTREATER;
~~S306 – U-231 PLATFORMING UNIT;~~ S307 – U-240 UNICRACKING UNIT;
~~S308 – U-244 REFORMING UNIT;~~ S309 – U-248 UNISAR UNIT;
S318 – U-76 GASOLINE / MID-BARREL BLENDING UNIT;
S319 – U-215 GASOLINE FRACTIONATING UNIT;
S322 – U-40 RAW MATERIALS RECEIVING; S435 – REFORMATE SPLITTER;
S436 – DEISOPENTANIZER; S437 – HYDROGEN PLANT;
S460 – U-250 ULSD HYDROTREATER

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 8, Rule 2	Organic Compounds – Miscellaneous Operations (6/15/94) APPLICABLE TO S307 ONLY		
8-2-301	Miscellaneous Operations: emissions shall not exceed 15 lb/day and	Y	

Table IV – Na
Source-specific Applicable Requirements – Process Vessels
S304 –U-229 LIGHT NAPHTHA HYDROTREATER;
S305 – U-230 PREFRACTIONATOR / NAPHTHA HYDROTREATER;
~~S306 – U-231 PLATFORMING UNIT;~~ S307 – U-240 UNICRACKING UNIT;
~~S308 – U-244 REFORMING UNIT;~~ S309 – U-248 UNISAR UNIT;
S318 – U-76 GASOLINE / MID-BARREL BLENDING UNIT;
S319 – U-215 GASOLINE FRACTIONATING UNIT;
S322 – U-40 RAW MATERIALS RECEIVING; S435 – REFORMATE SPLITTER;
S436 – DEISOPENTANIZER; S437 – HYDROGEN PLANT;
S460 – U-250 ULSD HYDROTREATER

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	300 ppm carbon on a dry basis		
BAAQMD Regulation 8, Rule 10	Organic Compounds – Process Vessel Depressurization (1/21/2004)		
8-10-301	Depressurization Control Options	N	
8-10-302	Opening of Process Vessels	N	
8-10-302.1	organic compounds cannot exceed 10,000 ppm (methane) prior to release to atmosphere	N	
8-10-302.2	Organic compound concentration of a refinery process vessel may exceed 10,000 ppm prior to release to atmosphere provided total number of such vessels during 5-year period does not exceed 10%	N	
8-10-401	Turnaround Records. Annual report due February 1 of each year with initial report of process vessels due 4/1/2004.	N	
8-10-501	Monitoring prior to and during process vessel opening	Y	
8-10-502	Concentration measurement using EPA Method 21	Y	
8-10-503	Recordkeeping	N	
8-10-601	Monitoring Procedures	N	
SIP Regulation 8, Rule 10	Organic Compounds – Process Vessel Depressurization (7/20/83)		
8-10-301	Process Vessel Depressurizing. POC emissions shall be vented through a knock-out pot and then abated in one of the following ways, to as low a vessel pressure as possible, but at least until pressure is reduced to less than 1000 mm Hg:	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. The following records shall be kept for each process unit turnaround, and retained for at least 2 years and made available to the District on demand during inspections:	Y	
8-10-401.1	date of depressurization event	Y	

Table IV – Na
Source-specific Applicable Requirements – Process Vessels
S304 –U-229 LIGHT NAPHTHA HYDROTREATER;
S305 – U-230 PREFRACTIONATOR / NAPHTHA HYDROTREATER;
~~S306 – U-231 PLATFORMING UNIT;~~ S307 – U-240 UNICRACKING UNIT;
~~S308 – U-244 REFORMING UNIT;~~ S309 – U-248 UNISAR UNIT;
S318 – U-76 GASOLINE / MID-BARREL BLENDING UNIT;
S319 – U-215 GASOLINE FRACTIONATING UNIT;
S322 – U-40 RAW MATERIALS RECEIVING; S435 – REFORMATE SPLITTER;
S436 – DEISOPENTANIZER; S437 – HYDROGEN PLANT;
S460 – U-250 ULSD HYDROTREATER

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
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	
40 CFR 63 Subpart UUU	National Emission Standards for Hazardous Pollutants for Petroleum Refineries: Catalytic Cracking Units, Catalytic Reforming Units, and Sulfur Recovery Units (4/11/02) [APPLICABLE TO S307 AND S308 ONLY]	Y	Notification by 8/9/02; compliance by 4/11/05
BAAQMD Condition 6671	APPLICABLE TO S307 ONLY		
Part 1	Abatement requirement for E-421 condenser vent at A50 scrubber [Basis: Regulation 8-2-301]	Y	
Part 2	Efficiency requirement for A50 scrubber raw material throughput [Basis: Regulation 8-2-301]	Y	
Part 3	Requirement to treat A50 blowdown at wastewater treatment plant [Basis: Cumulative Increase]	Y	
Part 4	Daily A50 monitoring requirement [Basis: Cumulative Increase]	Y	
Part 5	Monitoring record requirement [Basis: Cumulative Increase]	Y	
Part 6	Annual source test requirement [Basis: Regulation 2-6-409.2]		
BAAQMD Condition 20989, Part A	Throughput limits for S305, S306 , S307, S435, S436, S437 [Basis: 2-1-234.3]	Y	
BAAQMD Condition 20989, Part A	Throughput limits for S308 , S309, S318, S319 [Basis: 2-1-234.3]	N	
BAAQMD Condition 21094	APPLICABLE TO S460 ONLY		
Part 1	Daily throughput limit [Basis: Regulation 2-1-234]	Y	
Part 2	Throughput records [Basis: Regulation 2-1-234]	Y	

Table IV – Na
Source-specific Applicable Requirements – Process Vessels
S304 – U-229 LIGHT NAPHTHA HYDROTREATER;
S305 – U-230 PREFRACTIONATOR / NAPHTHA HYDROTREATER;
~~S306 – U-231 PLATFORMING UNIT;~~ S307 – U-240 UNICRACKING UNIT;
~~S308 – U-244 REFORMING UNIT;~~ S309 – U-248 UNISAR UNIT;
S318 – U-76 GASOLINE / MID-BARREL BLENDING UNIT;
S319 – U-215 GASOLINE FRACTIONATING UNIT;
S322 – U-40 RAW MATERIALS RECEIVING; S435 – REFORMATE SPLITTER;
S436 – DEISOPENTANIZER; S437 – HYDROGEN PLANT;
S460 – U-250 ULSD HYDROTREATER

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Condition 21095	APPLICABLE TO S304 ONLY		
Part 1	Daily throughput limit [Basis: 2-1-234]	Y	
Part 2	Daily throughput records [Basis: 2-1-234]	Y	
BAAQMD Condition 21099	APPLICABLE TO S304, S460 ONLY		
Part 1	Light hydrocarbon control valve requirements [Basis: BACT]	Y	
Part 2	Light hydrocarbon flange/connector requirements [Basis: BACT]	Y	
Part 3	Centrifugal compressor requirements [Basis: BACT]	Y	
Part 4	Light hydrocarbon centrifugal pump requirements [Basis: BACT]	Y	
Part 5	Monitoring and repair program requirement [Basis: BACT]	Y	
Part 6	ULSD project component count report requirement [Basis: BACT, Cumulative Increase, Toxic Management Policy]	Y	
BAAQMD Condition 22549	[APPLICABLE TO S318 ONLY]		
Part 1	Daily petroleum liquid throughput limit excluding diesel [Cumulative Increase]	Y	
Part 2	Daily records of petroleum liquid throughput limit [Cumulative Increase]	Y	

The requirements of 40 CFR 63, Subpart A, General Provisions, and Subpart UUU, Catalytic Cracking Units, Catalytic Reforming Units, and Sulfur Recovery Units have been added to Table IV-Nb. The sections that do not apply are listed after the table, together with the reason each section does not apply.

Table IV – Nb
Source-specific Applicable Requirements – Process Vessels
S306 – U-231 PLATFORMING UNIT; S308 – U-244 REFORMING UNIT

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 8, Rule 10	Organic Compounds – Process Vessel Depressurization (1/21/2004)		
8-10-301	Depressurization Control Options	N	
8-10-302	Opening of Process Vessels	N	
8-10-302.1	organic compounds cannot exceed 10,000 ppm (methane) prior to release to atmosphere	N	
8-10-302.2	Organic compound concentration of a refinery process vessel may exceed 10,000 ppm prior to release to atmosphere provided total number of such vessels during 5-year period does not exceed 10%	N	
8-10-401	Turnaround Records. Annual report due February 1 of each year with initial report of process vessels due 4/1/2004.	N	
8-10-501	Monitoring prior to and during process vessel opening	Y	
8-10-502	Concentration measurement using EPA Method 21	Y	
8-10-503	Recordkeeping	N	
8-10-601	Monitoring Procedures	N	
SIP Regulation 8, Rule 10	Organic Compounds – Process Vessel Depressurization (7/20/83)		
8-10-301	Process Vessel Depressurizing. POC emissions shall be vented through a knock-out pot and then abated in one of the following ways, to as low a vessel pressure as possible, but at least until pressure is reduced to less than 1000 mm Hg:	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. The following records shall be kept for each process unit turnaround, and retained for at least 2 years and made available to the District on demand during inspections:	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	
40 CFR 63, Subpart A	General Provisions (3/16/94)		
<u>63.1</u>	<u>Applicability (except that Subpart UUU specifies calendar or operating day)</u>	Y	
<u>63.2</u>	<u>Definitions</u>	Y	
<u>63.3</u>	<u>Units and Abbreviations</u>	Y	

Table IV – Nb
Source-specific Applicable Requirements – Process Vessels
S306 – U-231 PLATFORMING UNIT; S308 – U-244 REFORMING UNIT

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.4	<u>Prohibited Activities</u>	Y	
63.5	<u>Construction and Reconstruction</u>	Y	
63.5(a)	<u>Applicability</u>	Y	
63.5(b)	<u>Requirements for existing, newly constructed, and reconstructed sources (replace reference to Section 63.9 with Sections 63.9(b)(4) and (5))</u>	Y	
63.5(c)	<u>[reserved]</u>	Y	
63.5(d)	<u>Application for approval of construction or reconstruction</u>	Y	
63.5(d)(1)	<u>General application requirements</u>	Y	
63.5(d)(1)(i)	<u>Application for approval (except that Subpart UUU specifies the application is submitted as soon as practicable before startup but not later than 90 days (rather than 60) after the promulgation date where construction or reconstruction had commenced and initial startup had not occurred before promulgation.)</u>	Y	
63.5(d)(1)(ii)	<u>Separate application for each construction or deconstruction (Except that emission estimates specified in §63.5(d)(1)(ii)(H) are not required.)</u>	Y	
63.5(d)(3)	<u>Application for approval of reconstruction (Except that §63.5(d)(3)(ii) does not apply.)</u>	Y	
63.5(d)(3)(i)	<u>A brief description of the affected source, etc.</u>	Y	
63.5(d)(3)(iii)	<u>An estimate of the fixed capital cost of the replacements and of constructing a comparable entirely new source</u>	Y	
63.5(d)(3)(iv)	<u>The estimated life of the affected source after the replacements</u>	Y	
63.5(d)(3)(v)	<u>A discussion of any economic or technical limitations</u>	Y	
63.5(d)(3)(vi)	<u>Designation of reconstructed source</u>	Y	
63.5(d)(4)	<u>Additional information</u>	Y	
63.5(e)	<u>Approval of construction or reconstruction</u>	Y	
63.5(f)	<u>Approval of construction or reconstruction based on prior State preconstruction review</u>	Y	
63.5(f)(1)	<u>Preconstruction review procedures that a State utilizes for other purposes, etc.</u>	Y	
63.5(f)(2)	<u>Deadline for request of approval of construction or reconstruction (Except that 60 days is changed to 90 days and cross-reference to 53.9(B)(2) does not apply.)</u>	Y	
63.6	<u>Compliance with standards and maintenance requirements</u>	Y	
63.6(a)	<u>Applicability</u>	Y	
63.6(b)	<u>Compliance dates for new and reconstructed sources</u>	Y	
63.6(b)(1)	<u>Compliance at standard's effective date</u>	Y	

Table IV – Nb
Source-specific Applicable Requirements – Process Vessels
S306 – U-231 PLATFORMING UNIT; S308 – U-244 REFORMING UNIT

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.6(b)(2)	<u>Compliance upon startup</u>	Y	
63.6(b)(3)	<u>Compliance within 3 years of effective date</u>	Y	
63.6(b)(4)	<u>Compliance within 10 years of effective date</u>	Y	
63.6(b)(5)	<u>Notification to administrator of later compliance date (Except that subpart UUU specifies different compliance dates for sources)</u>	Y	
63.6(c)	<u>Compliance dates for existing sources</u>	Y	
63.6(c)(1)	<u>Compliance with standards by the compliance date established by the Administrator</u>	Y	
63.6(c)(2)	<u>Compliance with standards by date established by Section 112(f) of the act</u>	Y	
63.6(e)	<u>Operation and maintenance requirements</u>	Y	
63.6(e)(1)	<u>Operation in a manner consistent with safety and good air pollution control practices</u>	Y	
63.6(e)(2)	<u>Reserved</u>	Y	
63.6(e)(3)	<u>Startup, shutdown, and malfunction plan</u>	Y	
63.6(e)(3)(i)	<u>Development and implementation of a written startup, shutdown, and malfunction plan</u>	Y	
63.6(e)(3)(ii)	<u>Periods of startup, shutdown, and malfunction</u>	Y	
63.6(e)(3)(iii)	<u>Operation consistent with procedures</u>	Y	
63.6(e)(3)(iv)	<u>Operation not consistent with procedures (Except that reports of actions not consistent with plan are not required within 2 and 7 days of action but rather must be included in next periodic report)</u>	Y	
63.6(e)(3)(v)	<u>Maintenance of the plan at the affected source (The owner or operator is only required to keep the latest version of the plan)</u>	Y	
63.6(e)(3)(vi)	<u>Alternative plans</u>	Y	
63.6(e)(3)(vii)	<u>Administrator may require changes to plan</u>	Y	
63.6(e)(3)(viii)	<u>The owner or operator may periodically revise the startup, shutdown, and malfunction plan</u>	Y	
63.6(f)	<u>Compliance with non-opacity emission standards</u>	Y	
63.6(f)(1)	<u>Applicability (standards apply at all times except startup, shutdown, and malfunction)</u>	Y	
63.6(f)(2)	<u>Methods for determining compliance</u>	Y	
63.6(f)(2)(i)	<u>Based on performance tests</u>	Y	
63.6(f)(2)(ii)	<u>Evaluation of an owner or operator's conformance with operation and maintenance requirements</u>	Y	
63.6(f)(2)(iii)	<u>Conditions under which performance testing for state requirements shows compliance</u>	Y	

Table IV – Nb
Source-specific Applicable Requirements – Process Vessels
S306 – U-231 PLATFORMING UNIT; S308 – U-244 REFORMING UNIT

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<u>63.6(f)(2)(iii)(A)</u>	<u>Performance test conducted within a reasonable amount of time</u>	Y	
<u>63.6(f)(2)(iii)(B)</u>	<u>Performance test conducted under representative operating conditions</u>	Y	
<u>63.6(f)(2)(iii)(c)</u>	<u>EPA-approved test methods and procedures</u>	Y	
<u>63.6(f)(2)(iv)</u>	<u>Determination of compliance</u>	Y	
<u>63.6(f)(2)(v)</u>	<u>Conformance with operation and maintenance requirements</u>	Y	
<u>63.6(f)(3)</u>	<u>Finding of compliance</u>	Y	
<u>63.6(g)</u>	<u>Use of an alternative non-opacity emission standard</u>	Y	
<u>63.6(i)</u>	<u>Extension of compliance with emission standards (Parts 1-14 and part 16. Part 15 is reserved.</u>	Y	
<u>63.7</u>	<u>Performance testing requirements</u>	Y	
<u>63.7(a)</u>	<u>Applicability and performance test dates</u>	Y	
<u>63.7(a)(1)</u>	<u>Performance test requirements Applicability (Except that subpart UUU specifies the applicable test and demonstration procedures.)</u>	Y	
<u>63.7(a)(3)</u>	<u>The Administrator may require performance tests at any time when action is authorized by section 114 of the Act (Except that subpart UUU specifies notification at least 30 days prior to the scheduled test date rather than 60 days.)</u>	Y	
<u>63.7(b)</u>	<u>Notification of performance test</u>	Y	
<u>63.7(c)</u>	<u>Quality assurance program</u>	Y	
<u>63.7(d)</u>	<u>Performance testing facilities</u>	Y	
<u>63.7(e)</u>	<u>Conduct of performance tests</u>	Y	
<u>63.7(f)</u>	<u>Use of an alternative test method</u>	Y	
<u>63.7(g)</u>	<u>Data analysis, recordkeeping, and reporting (Except performance test reports must be submitted with notification of compliance status due 150 days after the compliance date.)</u>	Y	
<u>63.7(h)</u>	<u>Waiver of performance tests</u>	Y	
<u>63.8</u>	<u>Monitoring requirements</u>	Y	
<u>63.8(a)</u>	<u>Applicability</u>	Y	
<u>63.8(a)(1)</u>	<u>Applicability</u>	Y	
<u>63.8(a)(2)</u>	<u>Performance Specifications</u>	Y	
<u>63.8(a)(4)</u>	<u>Additional monitoring requirements for control devices</u>	Y	
<u>63.8(b)</u>	<u>Conduct of monitoring</u>	Y	
<u>63.8(b)(1)</u>	<u>Conduct of monitoring</u>	Y	
<u>63.8(b)(2)</u>	<u>Combination of the emissions from two or more affected sources (Subpart UUU specifies the required monitoring locations.)</u>	Y	

Table IV – Nb
Source-specific Applicable Requirements – Process Vessels
S306 – U-231 PLATFORMING UNIT; S308 – U-244 REFORMING UNIT

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.8(b)(3)	<u>More than one CMS (Subpart UUU specifies the required monitoring locations.)</u>	Y	
63.8(c)	<u>Operation and maintenance of continuous monitoring systems</u>	Y	
63.8(c)(1)	<u>Good air pollution control practices</u>	Y	
63.8(c)(1)(i)	<u>Maintenance and operation of each CMS</u>	Y	
63.8(c)(1)(ii)	<u>Parts for routine repairs readily available (Except that subpart UUU specifies that reports are not required if actions are consistent with the SSM plan, unless requested by the permitting authority. If actions are not consistent, actions must be described in next compliance report.)</u>	Y	
63.8(c)(1)(iii)	<u>Compliance with Operation and Maintenance Requirements (Except that subpart UUU specifies that reports are not required if actions are consistent with the SSM plan, unless requested by the permitting authority. If actions are not consistent, actions must be described in next compliance report.)</u>	Y	
63.8(c)(2)	<u>Monitoring system installation</u>	Y	
63.8(c)(3)	<u>Monitoring system installation</u>	Y	
63.8(c)(4)(ii)	<u>One cycle of operation for each 15-minute period (</u>	Y	
63.8(c)(6)	<u>CMS Requirements</u>	Y	
63.8(c)(7)	<u>Out-of-control CMS</u>	Y	
63.8(c)(8)	<u>Submittal of all information concerning out-of-control periods</u>	Y	
63.8(d)	<u>Quality Control Program</u>	Y	
63.8(e)	<u>Performance evaluation of continuous monitoring systems (</u>	Y	
63.8(f)	<u>Use of an alternative monitoring method</u>	Y	
63.8(g)	<u>Reduction of monitoring data</u>	Y	
63.8(g)(1)	<u>Reduction of monitoring data</u>	Y	
63.8(g)(2)	<u>1-hour averages</u>	Y	
63.8(g)(3)	<u>Records in reduced or non-reduced form</u>	Y	
63.8(g)(4)	<u>Units of the relevant standard</u>	Y	
63.9	<u>Notification requirements</u>	Y	
63.9(a)	<u>Applicability and general information</u>	Y	
63.9(b)	<u>Initial notifications (Sections 1, 2, 4, and 5. Section 3 is reserved.)</u> <u>Notification of construction or reconstruction is to be submitted as soon as practicable before startup.)</u>	Y	
63.9(c)	<u>Request for extension of compliance</u>	Y	
63.9(d)	<u>Notification that source is subject to special compliance requirements</u>	Y	
63.9(e)	<u>Notification of performance test (Except that notification is required</u>	Y	

Table IV – Nb
Source-specific Applicable Requirements – Process Vessels
S306 – U-231 PLATFORMING UNIT; S308 – U-244 REFORMING UNIT

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	<u>at least 30 days before test.)</u>		
63.9(g)	<u>Additional notification requirements for sources with continuous monitoring systems (Applicable since facility has chosen to comply with NSPS SO2 standard)</u>	Y	
63.9(h)	<u>Notification of compliance status (Except that subpart UUU specifies the notification is due no later than 150 days after compliance date.)</u>	Y	
63.9(i)	<u>Adjustment to time periods or postmark deadlines</u>	Y	
63.9(j)	<u>Change in information already provided</u>	Y	
63.10	<u>Recordkeeping and reporting requirements</u>	Y	
63.10(a)	<u>Applicability and general information</u>	Y	
63.10(b)	<u>General recordkeeping requirements</u>	Y	
63.10(c)	<u>Additional recordkeeping requirements for sources with continuous monitoring systems</u>	Y	
63.10(c)(1)	<u>All required CMS measurements</u>	Y	
63.10(c)(2)	<u>[reserved]</u>	Y	
63.10(c)(3)	<u>[reserved]</u>	Y	
63.10(c)(4)	<u>[reserved]</u>	Y	
63.10(c)(5)	<u>Date and time when CMS was inoperative</u>	Y	
63.10(c)(6)	<u>Date and time when CMS was out-of-control</u>	Y	
63.10(c)(9)	<u>[reserved]</u>	Y	
63.10(c)(10)	<u>The nature and cause of any malfunction</u>	Y	
63.10(c)(11)	<u>Corrective action or preventive measures</u>	Y	
63.10(c)(12)	<u>Nature of repairs or adjustments</u>	Y	
63.10(c)(13)	<u>Process operating time</u>	Y	
63.10(c)(14)	<u>Procedures in quality control program</u>	Y	
63.10(c)(15)	<u>Use of startup, shutdown, and malfunction plan</u>	Y	
63.10(d)	<u>General reporting requirements</u>	Y	
63.10(d)(1)	<u>Reports to the Administrator</u>	Y	
63.10(d)(4)	<u>Progress reports</u>	Y	
63.10(d)(5)(i)	<u>Periodic startup, shutdown, and malfunction reports</u>	Y	
63.10(d)(5)(ii)	<u>Immediate startup, shutdown, and malfunction reports (reports not required if actions consistent with the SSM plan, unless requested by permitting authority)</u>	Y	
63.10(e)	<u>Additional reporting requirements for sources with continuous monitoring systems</u>	Y	
63.10(e)(1)	<u>General (Applicable since facility has chosen to comply with NSPS SO2 standard)</u>	Y	

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Source-specific Applicable Requirements – Process Vessels
S306 – U-231 PLATFORMING UNIT; S308 – U-244 REFORMING UNIT

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.10(e)(2)	<u>Reporting results of continuous monitoring system performance evaluations (Applicable since facility has chosen to comply with NSPS SO2 standard)</u>	Y	
63.10(f)	<u>Waiver of recordkeeping or reporting requirements</u>	Y	
63.11	<u>Control device requirements (Applicable to flares)</u>	Y	
63.15	<u>Availability of information and confidentiality</u>	Y	
40 CFR 63 Subpart UUU	<u>National Emission Standards for Hazardous Pollutants for Petroleum Refineries: Catalytic Cracking Units, Catalytic Reforming Units, and Sulfur Recovery Units (4/11/02)</u>	<u>Y</u>	
63.1561	<u>Am I subject to this subpart?</u>	<u>Y</u>	
63.1562(a)	<u>New, reconstructed, or existing affected sources</u>	<u>Y</u>	
63.1562(b)(2)	<u>Catalytic reforming units</u>	<u>Y</u>	
63.1563	<u>When do I have to comply with this subpart?</u>	<u>Y</u>	
63.1563(b)	<u>Deadline for existing sources-4/11/05</u>	<u>Y</u>	
63.1563(e)	<u>Notification requirements</u>	<u>Y</u>	
63.1566	<u>What are my requirements for organic HAP emissions from catalytic reforming units?</u>	<u>Y</u>	
63.1566(a)	<u>Emission Limitations and Work Practice Standards</u>	<u>Y</u>	
63.1566(a)(1)	<u>Meet each emission limitation in Table 15 that applies</u>	<u>Y</u>	
63.1566(a)(1)(i)	<u>Vent TOC emissions to flare or comply with 63.1566(a)(1)(ii)</u>	<u>Y</u>	
63.1566(a)(1)(ii)	<u>TOC or non-methane TOC percent reduction standard or concentration limit, whichever is less stringent or comply with 63.1566(a)(1)(i)</u>	<u>Y</u>	
63.1566(a)(2)	<u>Comply with option 1 in Table 16: flare pilot light must be on and flare must be operating at all times that emissions from S306 or S308 regeneration vented to flare</u>	<u>Y</u>	<u>150 days after 1st regeneration after 4/11/05</u>
63.1566(a)(3)	<u>Applicability of emission limitations-emissions from catalytic reforming unit process vents associated with initial catalyst depressuring and catalyst purging operations that occur prior to the coke burn-off cycle. The emission limitations in Tables 15 and 16 of this subpart do not apply to the coke burn-off, catalyst rejuvenation, reduction or activation vents, or to the control systems used for these vents.</u>	<u>Y</u>	<u>150 days after 1st regeneration after 4/11/05</u>
63.1566(a)(4)	<u>Emission limitations do not apply when the vessel is below 5 psig</u>	<u>Y</u>	<u>150 days after 1st regeneration after 4/11/05</u>

Table IV – Nb
Source-specific Applicable Requirements – Process Vessels
S306 – U-231 PLATFORMING UNIT; S308 – U-244 REFORMING UNIT

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.1566(a)(5)	<u>Prepare an Operation, Maintenance and Monitoring Plan and operate in compliance with the plan</u>	<u>Y</u>	<u>150 days after 1st regeneration after 4/11/05</u>
63.1566(b)	<u>How do I demonstrate initial compliance with the emission limitations and work practice standard?</u>	<u>Y</u>	
63.1566(b)(1)	<u>Install, operate, and maintain a continuous monitoring system(s)</u>	<u>Y</u>	
63.1566(b)(2): Option 1	Applies to S308, may apply to S306 <u>Conduct each performance test required by Table 18</u>	<u>Y</u>	<u>1st Regen after 4/11/2005</u>
63.1566(b)(2): Option 2	May apply to S306 <u>Conduct each performance test required by Table 18: Option 2</u>	<u>Y</u>	<u>1st Regen after 4/11/2005</u>
63.1566(b)(3)	<u>May apply to S306</u> <u>Establish each site-specific operating limit in Table 16 that applies</u>	<u>Y</u>	<u>1st Regen after 4/11/05</u>
63.1566(b)(4)	<u>May apply to S306</u> <u>Determine initial compliance with emission limitations</u>	<u>Y</u>	<u>1st Regen after 4/11/2005</u>
63.1566(b)(5)(i)	<u>No requirement to perform TOC performance test if emissions are vented to a flare as provided in Option 1 of Table 15</u>	<u>Y</u>	
63.1566(b)(6)	<u>Demonstrate initial compliance with each emission limitation that applies according to Table 19</u>	<u>Y</u>	<u>1st Regen after 4/11/05</u>
63.1566(b)(7)	<u>Demonstrate Initial Compliance with Work Practice Standard by submitting Operation, Maintenance, and Monitoring Plan</u>	<u>Y</u>	<u>150 days after 1st Regen after 4/11/05</u>
63.1566(b)(8)	<u>Submit the Notification of Compliance Status per §63.1574</u>	<u>Y</u>	<u>150 days after 1st Regen after 4/11/05</u>
63.1566(c)	<u>-How do I demonstrate continuous compliance with the emission limitations and work practice standards?</u>	<u>Y</u>	<u>150 days after 1st Regen after 4/11/05</u>
63.1566(c)(1)	<u>Demonstrate continuous compliance with emission limitations in Table 15 and Table 16</u>	<u>Y</u>	<u>150 days after 1st Regen after 4/11/05</u>
63.1566(c)(2)	<u>Demonstrate continuous compliance with work practice standards by complying with the procedures in the operation, maintenance,</u>	<u>Y</u>	<u>150 days after 1st</u>

Table IV – Nb
Source-specific Applicable Requirements – Process Vessels
S306 – U-231 PLATFORMING UNIT; S308 – U-244 REFORMING UNIT

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	<u>and monitoring plan</u>		<u>Regen after 4/11/05</u>
<u>63.1567</u>	<u>Requirements for Inorganic HAP Emissions from Catalytic Reforming Units</u>	<u>Y</u>	
<u>63.1567(a)</u>	<u>Emission Limitations and Work Practice Standards</u>	<u>Y</u>	
<u>63.1567(a)(1)</u>	<u>Emission Limitations for Hydrogen Chloride (HCl) during coke burn-off and catalyst rejuvenation using internal scrubbing system: Reduce uncontrolled HCl emissions by 92% or to a concentration of 30 ppmvd corrected to 3%O₂ (Table 22, Item 1)</u>	<u>Y</u>	
<u>63.1567(a)(2)</u>	<u>The HCl concentration in the catalyst regenerator exhaust gas must not exceed the limit established during the performance test. (Table 2, Item 1.b)</u>	<u>Y</u>	<u>150 days after 1st regeneration after 4/11/05</u>
<u>63.1567(a)(3)</u>	<u>Prepare Operation, Maintenance, and Monitoring Plan and operate in compliance with the plan</u>	<u>Y</u>	<u>150 days after 1st regeneration after 4/11/05</u>
<u>63.1567(b)</u>	<u>How do I demonstrate initial compliance with the emission limitations and work practice standard?</u>	<u>Y</u>	
<u>63.1567(b)(1)</u>	<u>Install, operate, and maintain a continuous monitoring system(s) according to the requirements in §63.1572 and Table 24 of this subpart.</u>	<u>N</u>	
<u>63.1567(b)(2)</u>	<u>Performance Test: measure HCl concentration at the outlet (for the concentration standard) or at the inlet and outlet (for the percent reduction standard) of the scrubber (Table 25, Item 4.ii) Conduct each performance test for a catalytic reforming unit according to the requirements in §63.1571 and the conditions specified in Table 25 of this subpart.</u>	<u>Y</u>	<u>1st regeneration after 4/11/05</u>
<u>63.1567(b)(3)</u>	<u>Establish each site-specific operating limit in Table 23 of this subpart that applies to you according to the procedures in Table 25 of this subpart.</u>	<u>Y</u>	
<u>63.1567(b)(4)</u>	<u>Demonstrate Initial Compliance with Emission Limitations: reduce HCl concentration by 92% or to 30 ppmv (Table 26, Item 1) Use the equations in paragraphs (b)(4)(i) through (iv) of this section to determine initial compliance with the emission limitations.</u>	<u>Y</u>	<u>1st regeneration after 4/11/05</u>
<u>63.1567(b)(5)</u>	<u>Demonstrate Initial Compliance with Work Practice Standard by submitting Operation, Maintenance, and Monitoring Plan Demonstrate initial compliance with each emission limitation that applies to you according to Table 26 of this subpart.</u>	<u>Y</u>	<u>150 days after 1st regeneration</u>
<u>63.1567(b)(6)</u>	<u>Submit Notice of Initial Compliance Status</u>	<u>Y</u>	<u>150 days</u>

Table IV – Nb
Source-specific Applicable Requirements – Process Vessels
S306 – U-231 PLATFORMING UNIT; S308 – U-244 REFORMING UNIT

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	<u>Demonstrate initial compliance with the work practice standard in paragraph (a)(3) of this section by submitting the operation, maintenance, and monitoring plan to your permitting authority as part of your Notification of Compliance Status.</u>		<u>after 1st regeneration</u>
63.1567(b)(7)	<u>Submit the Notification of Compliance Status containing the results of the initial compliance demonstration according to the requirements in §63.1574.</u>		
63.1567(c)	<u>Continuous Compliance Demonstration</u> <u>How do I demonstrate continuous compliance with the emission limitations and work practice standard?</u>	<u>Y</u>	
63.1567(c)(1)	<u>Demonstrate Continuous Compliance with Emission Limitation: maintain 92% control efficiency or 30 ppmv HCl concentration (Table 27, Item 2) and collect hourly and daily pH monitoring data and hourly average liquid to gas ratio, and maintain both above the operating limit established during performance test (Table 28, Item 3) Table 28, Item 1.c.</u>	<u>Y</u>	<u>1st regeneration after 4/11/05</u>
63.1567(c)(2)	<u>Demonstrate Continuous Compliance with Work Practice Standard through maintaining records to document conformance with the Operation, Maintenance, and Monitoring Plan</u>	<u>Y</u>	<u>150 days after 1st regeneration after 4/11/2005</u>
63.1570	<u>What are my general requirements for complying with this subpart?</u>	<u>Y</u>	
63.1570(a)	<u>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)</u>	<u>Y</u>	
63.1570(c)	<u>Operate and maintain source including pollution control and monitoring equipment in accordance with 63.6(e)(1). Between 4/11/05 and the date continuous monitoring systems are installed and validated and operating limits have been set, maintain a log detailing operation and maintenance of process and equipment.</u>	<u>Y</u>	
63.1570(d)	<u>Develop and implement startup, shutdown, and malfunction plan (SSMP) in accordance with 63.6(e)(3)</u>	<u>Y</u>	
63.1570(e)	<u>Operate in accordance with SSMP during periods of startup, shutdown, and malfunction</u>	<u>Y</u>	
63.1570(f)	<u>Report deviations from compliance with this subpart according to the requirements of 63.1575</u>	<u>Y</u>	
63.1570(g)	<u>Deviations that occur during startup, shutdown, or malfunction are not violations if operating in accordance with SSMP</u>	<u>Y</u>	
63.1571	<u>How and when do I conduct a performance test or other initial compliance demonstration?</u>	<u>Y</u>	

Table IV – Nb
Source-specific Applicable Requirements – Process Vessels
S306 – U-231 PLATFORMING UNIT; S308 – U-244 REFORMING UNIT

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.1571(a)(1)	<u>For emission limitation or work practice standard where compliance not demonstrated using performance test, opacity observation, or visible emission observation, conduct initial compliance demonstration within 30 days after compliance date</u>	<u>Y</u>	
63.1571(b)	<u>Requirements for Performance Tests</u>	<u>Y</u>	
63.1571(b)(1)	<u>Conduct performance tests in accordance with the requirements of 63.7(e)(1)</u>	<u>Y</u>	
63.1571(b)(2)	<u>Conduct three separate test runs of at least an hour for each performance test</u>	<u>Y</u>	
63.1571(b)(3)	<u>Conduct each performance evaluation in accordance with the requirements of 63.8(e)</u>	<u>Y</u>	
63.1571(b)(4)	<u>Performance tests not conducted during periods of startup, shutdown, or malfunction</u>	<u>Y</u>	
63.1571(b)(5)	<u>Arithmetic average of emission rates</u>	<u>Y</u>	
63.1571(c)	<u>What procedures must I use for an engineering assessment?</u>		
63.1571(d)	<u>Can I adjust the process or control device measured values when establishing an operating limit?</u>		
63.1571(d)(4)	<u>Adjust process or control device measured values when establishing operating limit (optional)</u>	<u>Y</u>	
63.1571(e)	<u>Changes to Operating limits</u>	<u>Y</u>	
63.1572	<u>What are my monitoring installation, operation, and maintenance requirements?</u>	<u>Y</u>	
63.1572(c)(1)	<u>Use a colormetric tube sampling system with a printed numerical scale in ppmv, a standard measurement range of 1 to 10 ppmv (or 1 to 30 ppmv if applicable), and a standard deviation for measured values of no more than +/- 15 percent. System must include a gas detection pump and hot air probe if needed for the measurement range. Table 41, Item 6.</u>	<u>Y</u>	
63.1572(c)(2)	<u>One cycle every 15 minutes</u>	<u>Y</u>	
63.1572(c)(3)	<u>Valid hourly average data from at least 75% of hours operated</u>	<u>Y</u>	
63.1572(c)(4)	<u>Hourly and daily averages</u>	<u>Y</u>	
63.1572(c)(5)	<u>Records of results of inspections, calibrations, and validation checks</u>	<u>Y</u>	
63.1572(d)	<u>Data monitoring and collection requirements</u>	<u>Y</u>	
63.1572(d)(1)	<u>Conduct monitoring at all times source is operating except for monitoring malfunctions, repairs, and QA/QC activities</u>	<u>Y</u>	
63.1572(d)(2)	<u>Not use data recorded during monitoring malfunctions, repairs, and QA/QC activities</u>	<u>Y</u>	
63.1573	<u>What are my monitoring alternatives?</u>	<u>Y</u>	
63.1573(c)	<u>Can I use another type of monitoring system? (Note: another type of monitoring system may not be used without prior approval)</u>	<u>Y</u>	
63.1573(d)	<u>Can I monitor other process or control device operating parameters? (Note: Facility may not other process or control device operating</u>	<u>Y</u>	

Table IV – Nb
Source-specific Applicable Requirements – Process Vessels
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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	<u>parameters without prior approval)</u>		
63.1573(e)	<u>How do I request to monitor alternative parameters?</u>	Y	
63.1574	<u>What notifications must I submit and when?</u>	Y	
63.1574(a)	<u>Notifications Required by Subpart A</u>	Y	
63.1574(a)(2)	<u>Submit notification of intent to conduct performance test 30 days before scheduled (instead of 60 days)</u>	Y	
63.1574(a)(3)	<u>Notification of Compliance Status</u>	Y	
63.1574(a)(3)(ii)	<u>Submit Notification of Compliance Status for initial compliance demonstration that includes a performance test, no later than 150 days after source compliance date</u>	Y	
63.1574(d)	<u>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)</u>	Y	
63.1574(f)	<u>Requirement to prepare Operation, Maintenance, and Monitoring Plan</u>	Y	
63.1574(f)(1)	<u>Submit plan to permitting authority for review and approval along with NOCS. Include duty to prepare and implement plan into Part 70 or 71 permit.</u>	Y	
63.1574(f)(2)	<u>Minimum contents of Operation, Maintenance, and Monitoring Plan</u>	Y	
63.1575	<u>What reports must I submit and when?</u>	Y	
63.1575(a)	<u>Required reports: Statement that there were no deviations or report including information in 1575(d) or (e) (Table 43, Item 1)</u>	Y	
63.1575(b)	<u>Specified semiannual report submittal dates</u>	Y	
63.1575(c)	<u>Information required in compliance report</u>	Y	
63.1575(d)	<u>Information required for deviations from emission limitations and work practice standards where CEMS or COMS is not used to comply with emission limitation or work practice standard</u>	Y	
63.1575(f)	<u>Additional information for compliance reports</u>	Y	
63.1575(f)(1)	<u>Requirement to submit performance test reports</u>	Y	
63.1575(f)(2)	<u>Submittal of requested change in the applicability of an emission standard</u>	Y	
63.1575(g)	<u>Submittal of reports required by other regulations in place of or as part of compliance report if they contain the required information</u>	Y	
63.1575(h)	<u>Reporting requirements for startups, shutdowns, and malfunctions</u>	Y	
63.1576	<u>What records must I keep, in what form, and for how long?</u>	Y	
63.1576(a)	<u>Required Records – General</u>	Y	
63.1576(d)	<u>Records required by Tables 20, 21, 27, and 28 of Subpart UUU</u>	Y	
63.1576(e)	<u>Maintain copy of Operation, Maintenance, and Monitoring Plan</u>	Y	
63.1576(f)	<u>Records of changes that affect emission control system performance</u>	Y	
63.1576(g)	<u>Records in a form suitable and readily available for review</u>	Y	
63.1576(h)	<u>Maintain records for 5 years</u>	Y	
63.1576(i)	<u>Records onsite for two years; may be maintained offsite for remaining 3 years</u>	Y	
BAAQMD	Throughput limit for S306 [Basis: 2-1-234.3]	Y	

Table IV – Nb
Source-specific Applicable Requirements – Process Vessels
S306 – U-231 PLATFORMING UNIT; S308 – U-244 REFORMING UNIT

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Condition 20989, Part A			
BAAQMD Condition 20989, Part A	Throughput limits for S308 [Basis: 2-1-234.3]	N	

Following is a list showing determinations of non-applicability of various parts of the rules for the reformers.

Section	Reason not applicable:
63.6(b)(7)	Facility is a major source.
63.6(c)(5)	Facility is a major source.
63.6(h)	No MACT opacity or visible emissions standards
63.6(j)	No request for presidential compliance exemption
63.8(c)(4)(i) and (5)	No COMs
63.9(f)	No MACT opacity standard
63.10(d)(3)	No MACT opacity standard
63.10(e)(4)	No MACT opacity standard
63.13	Contains agency addresses
63.1569	SRUs have no bypass lines.
63.1570(b)	No MACT opacity standard
63.1571(a)(2)	No limit has a 30-day averaging period
63.1571(a)(3)	Source not reconstructed between 9/11/98 and 4/11/02
63.1571(a)(4)	Source not reconstructed between 9/11/98 and 4/11/02
63.1571(c)	Facility has not chosen to use an engineering assessment.
63.1571(d)	Facility is not using a continuous parameter monitor.
63.1571(d)(1)	Unit is not a catalytic cracker.
63.1571(d)(2)	Unit is not a catalytic cracker.
63.1571(d)(3)	Unit is not a catalytic cracker.
63.1571(e)(3)	There is no nickel or opacity limit.
63.1571(e)	Facility is not using a continuous parameter monitor.
63.1572(a)	Table 40 does not require continuous monitoring.
63.1572(b)	Opacity monitors are not required.
63.1573(a)	Gas flow measurement is not required for reformers.
63.1573(b)	Monitoring pH or alkalinity levels is not required.
63.1573(f)	The unit is not a catalytic cracking unit.
63.1574(a)(1)	Deadline does not apply to this source.
63.1574(a)(3)(i)	An initial performance test is required.
63.1574(b)	The initial notification has been submitted pursuant to 40 CFR 63.9(b)(2).
63.1574(c)	The source was started up before April 11, 2002.
63.1574(e)	The unit is not a catalytic cracking unit.
63.1575(e)	No COMs or CEMs are required.
63.1575(i)	This section applies only to catalytic cracking units.
63.1575(j)	This section applies only to catalytic cracking units.
63.1576(b)	No COMs or CEMs are required.

Section	Reason not applicable:
63.1576(c)	No MACT opacity standard

Changes to the requirements for S1001-S1003, Sulfur Recovery Units (SRUs) and S301-S303, Sulfur Pits

The requirements of 40 CFR 63, Subparts A and UUU have been added.

The changes made to the conditions for S301, S302, and S303, Sulfur Pits, in Applications 13424 and 14883 are being incorporated in this action. In addition, the sulfur pits will be subject to the Refinery NSPS.

Table 44 of Subpart UUU has the detail of which parts of 40 CFR 63, Subpart A, General Provisions, apply to these sources. The detail is included in the permit.

The citation of BAAQMD Regulation 6-310.3 has been corrected to 6-310 because the SRUs are not heat transfer equipment. The citation in Section VII is correct. BAAQMD Regulation 6-311 has been added because it was omitted in error.

The note about the requirement for installation of sulfur recovery units if a facility recovers more than 16.5 ton/day of elemental sulfur from refinery fuel gas and process water streams has been deleted because the facility has installed the SRUs long ago.

The throughput limit in BAAQMD Regulation 20989 for the SRUs, S1001-S1003, and the sulfur pits, S301-S303, will be deleted and the throughput limits will be added to BAAQMD Conditions 19278 and 22964 because the sources are no longer grandfathered after the changes authorized in Application 5814, which were finalized on January 25, 2006. This change should have been included in the revisions of March 2, 2006.

Following the table is a list showing determinations of non-applicability of various parts of the rules for the sulfur recovery units.

As mentioned in Section A of this statement of basis, 40 CFR 60, Subparts A and J, are being added to the SRU table due to a consent decree entered by the US District Court for the Southern District of Texas against ConocoPhillips.

Table IV – U
Source-specific Applicable Requirements
S1001 – SULFUR PLANT UNIT 234 , S1002 – SULFUR PLANT UNIT 236
S1003 – SULFUR PLANT UNIT 238, S301 – MOLTEN SULFUR PIT 234
S302 – MOLTEN SULFUR PIT 236 AND S303 – MOLTEN SULFUR PIT 238

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

Table IV – U
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S1003 – SULFUR PLANT UNIT 238, S301 – MOLTEN SULFUR PIT 234
S302 – MOLTEN SULFUR PIT 236 AND S303 – MOLTEN SULFUR PIT 238

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
6-301	Ringelmann #1 Limitation	Y	
6-305	Visible Particles	Y	
6-310-3	Particulate Weight Limitation	Y	
6-311	<u>General Operations</u>	<u>Y</u>	
6-330	Sulfur Recovery Units (SO3, H2SO4 emission limitations)	Y	
6-401	Appearance of Emissions	Y	
BAAQMD Regulation 9, Rule 1	Inorganic Gaseous Pollutants – Sulfur Dioxide (3/15/95)		
9-1-313	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	
SIP Regulation 9, Rule 1	Inorganic Gaseous Pollutants – Sulfur Dioxide (6/8/99)		
9-1-313	Sulfur Removal Operations at Petroleum Refineries (processing more than 20,000 bbl/day of crude oil)	Y	
9-1-313.2	operation of a sulfur removal and recovery system that removes and recovers: 95% of H2S from refinery fuel gas, 95% of H2S and ammonia from process water streams	Y – note 1	
40 CFR 60 Subpart A	<u>General Provisions (03/16/1994)</u>		
<u>60.7</u>	<u>Notification and record keeping</u>	<u>Y</u>	
<u>60.7(a)(5)</u>	<u>Notification of beginning of demonstration of continuous monitoring system</u>	<u>Y</u>	
<u>60.7(b)</u>	<u>Records of startup, shutdown, or malfunction, malfunction of control equipment; or periods when CEM is inoperative</u>	<u>Y</u>	
<u>60.7(c)</u>	<u>Excess emissions and monitoring systems reports</u>	<u>Y</u>	
<u>60.7(d)</u>	<u>Format of summary report forms</u>	<u>Y</u>	
<u>60.7(f)</u>	<u>Records</u>	<u>Y</u>	
<u>60.8</u>	<u>Performance tests</u>	<u>Y</u>	
<u>60.11</u>	<u>Compliance with standards and maintenance requirements</u>	<u>Y</u>	
<u>60.11(a)</u>	<u>Compliance determined by performance tests and CEM</u>	<u>Y</u>	
<u>60.11(d)</u>	<u>Good air pollution control practice</u>	<u>Y</u>	

Table IV – U
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S302 – MOLTEN SULFUR PIT 236 AND S303 – MOLTEN SULFUR PIT 238

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<u>60.11(f)</u>	<u>applicable subpart shall supersede any conflicting provisions in paragraphs (a) through (e)</u>	<u>Y</u>	
<u>60.11(g)</u>	<u>Credible evidence</u>	<u>Y</u>	
<u>60.12</u>	<u>Circumvention</u>	<u>Y</u>	
<u>60.13</u>	<u>Monitoring requirements</u>	<u>Y</u>	
<u>60.13(a)</u>	<u>CEMs subject to Appendices B and F</u>	<u>Y</u>	
<u>60.13(b)</u>	<u>Installation of CEMs before performance tests</u>	<u>Y</u>	
<u>60.13(d)(1)</u>	<u>Zero and span calibration drifts</u>	<u>Y</u>	
<u>60.13(e)</u>	<u>Continuous operation; minimum frequency of operation</u>	<u>Y</u>	
<u>60.13(e)(2)</u>	<u>Monitoring cycle every 15 minutes</u>	<u>Y</u>	
<u>60.13(f)</u>	<u>Representative measurements</u>	<u>Y</u>	
<u>60.19</u>	<u>General notification and reporting requirements</u>	<u>Y</u>	
<u>NSPS</u> <u>40 CFR 60</u> <u>Subpart J</u>	<u>Standards of Performance for Petroleum Refineries (7/1/00)</u>		
<u>60.104</u>	<u>Standards for Sulfur Oxides</u>	<u>Y</u>	
<u>60.104(a)(2)</u> <u>(i)</u>	<u>Sulfur dioxide (SO₂) less than 250 ppm at 0% excess air</u>	<u>Y</u>	
<u>60.105</u>	<u>Monitoring of Emissions and Operations</u>	<u>Y</u>	
<u>60.105(a)</u>	<u>Continuous Monitoring systems</u>	<u>Y</u>	
<u>60.105(a)(5)</u>	<u>SO₂ and O₂ monitors</u>	<u>Y</u>	
<u>60.105(a)(5)</u> <u>(i)</u>	<u>Span values: 500 ppm SO₂ and 25% O₂</u>	<u>Y</u>	
<u>60.105(a)(5)</u> <u>(ii)</u>	<u>The performance evaluations for this SO₂ monitor under §60.13(c) shall use Performance Specification 2. Methods 6 or 6C and 3 or 3A shall be used for conducting the relative accuracy evaluations</u>	<u>Y</u>	
<u>60.105(e)(4)</u>	<u>Periods of excess emissions</u>	<u>Y</u>	
<u>60.105(e)(4)</u> <u>(i)</u>	<u>12-hour periods where concentration exceeds average of 250 ppm, dry, at 0% O₂</u>	<u>Y</u>	
<u>60.106</u>	<u>Test methods and procedures</u>	<u>Y</u>	
<u>60.106(a)</u>	<u>Methods in Appendix A</u>	<u>Y</u>	
<u>60.106(f)</u>	<u>Determination of compliance with SO₂ limit</u>	<u>Y</u>	
<u>60.106(f)(1)</u>	<u>Methods to determine SO₂ concentration</u>	<u>Y</u>	
<u>60.106(f)(3)</u>	<u>Methods to determine O₂ concentration</u>	<u>Y</u>	
<u>60.107</u>	<u>Reporting and recordkeeping requirements</u>	<u>Y</u>	
<u>60.107(d)</u>	<u>Data availability</u>	<u>Y</u>	
<u>60.107(e)</u>	<u>Semi-annual reports</u>	<u>Y</u>	

Table IV – U
Source-specific Applicable Requirements
S1001 – SULFUR PLANT UNIT 234 , S1002 – SULFUR PLANT UNIT 236
S1003 – SULFUR PLANT UNIT 238, S301 – MOLTEN SULFUR PIT 234
S302 – MOLTEN SULFUR PIT 236 AND S303 – MOLTEN SULFUR PIT 238

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.107(f)	<u>Signed certifications</u>	<u>Y</u>	
<u>NSPS</u> <u>40 CFR 60</u> <u>Appendix B</u>	<u>Performance Specifications</u>		
<u>Performance Specification 2</u>	<u>Specifications and Test Procedures for SO₂ and NO_x Continuous Emission Monitoring Systems in Stationary Sources</u>	<u>Y</u>	
<u>NSPS</u> <u>40 CFR 60</u> <u>Appendix F</u>	<u>Quality Assurance Procedures</u>		
<u>40 CFR 63, Subpart A</u>	<u>General Provisions (3/16/94)</u>		
<u>63.1</u>	<u>Applicability (except that Subpart UUU specifies calendar or operating day)</u>	<u>Y</u>	
<u>63.2</u>	<u>Definitions</u>	<u>Y</u>	
<u>63.3</u>	<u>Units and Abbreviations</u>	<u>Y</u>	
<u>63.4</u>	<u>Prohibited Activities</u>	<u>Y</u>	
<u>63.5</u>	<u>Construction and Reconstruction</u>	<u>Y</u>	
<u>63.5(a)</u>	<u>Applicability</u>	<u>Y</u>	
<u>63.5(b)</u>	<u>Requirements for existing, newly constructed, and reconstructed sources (replace reference to Section 63.9 with Sections 63.9(b)(4) and (5))</u>	<u>Y</u>	
<u>63.5(c)</u>	<u>[reserved]</u>	<u>Y</u>	
<u>63.5(d)</u>	<u>Application for approval of construction or reconstruction</u>	<u>Y</u>	
<u>63.5(d)(1)</u>	<u>General application requirements</u>	<u>Y</u>	
<u>63.5(d)(1)(i)</u>	<u>Application for approval (except that Subpart UUU specifies the application is submitted as soon as practicable before startup but not later than 90 days (rather than 60) after the promulgation date where construction or reconstruction had commenced and initial startup had not occurred before promulgation.)</u>	<u>Y</u>	
<u>63.5(d)(1)(ii)</u>	<u>Separate application for each construction or deconstruction (Except that emission estimates specified in §63.5(d)(1)(ii)(H) are not required.)</u>	<u>Y</u>	
<u>63.5(d)(3)</u>	<u>Application for approval of reconstruction (Except that §63.5(d)(3)(ii) does not apply.)</u>	<u>Y</u>	
<u>63.5(d)(3)(i)</u>	<u>A brief description of the affected source, etc.</u>	<u>Y</u>	
<u>63.5(d)(3)(iii)</u>	<u>An estimate of the fixed capital cost of the replacements and of constructing a comparable entirely new source</u>	<u>Y</u>	

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S302 – MOLTEN SULFUR PIT 236 AND S303 – MOLTEN SULFUR PIT 238

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.5(d)(3)(iv)	<u>The estimated life of the affected source after the replacements</u>	<u>Y</u>	
63.5(d)(3)(v)	<u>A discussion of any economic or technical limitations</u>	<u>Y</u>	
63.5(d)(3)(vi)	<u>Designation of reconstructed source</u>	<u>Y</u>	
63.5(d)(4)	<u>Additional information</u>	<u>Y</u>	
63.5(e)	<u>Approval of construction or reconstruction</u>	<u>Y</u>	
63.5(f)	<u>Approval of construction or reconstruction based on prior State preconstruction review</u>	<u>Y</u>	
63.5(f)(1)	<u>Preconstruction review procedures that a State utilizes for other purposes, etc.</u>	<u>Y</u>	
63.5(f)(2)	<u>Deadline for request of approval of construction or reconstruction (Except that 60 days is changed to 90 days and cross-reference to 53.9(B)(2) does not apply.)</u>	<u>Y</u>	
63.6	<u>Compliance with standards and maintenance requirements</u>	<u>Y</u>	
63.6(a)	<u>Applicability</u>	<u>Y</u>	
63.6(b)	<u>Compliance dates for new and reconstructed sources</u>	<u>Y</u>	
63.6(b)(1)	<u>Compliance at standard's effective date</u>	<u>Y</u>	
63.6(b)(2)	<u>Compliance upon startup</u>	<u>Y</u>	
63.6(b)(3)	<u>Compliance within 3 years of effective date</u>	<u>Y</u>	
63.6(b)(4)	<u>Compliance within 10 years of effective date</u>	<u>Y</u>	
63.6(b)(5)	<u>Notification to administrator of later compliance date (Except that subpart UUU specifies different compliance dates for sources)</u>	<u>Y</u>	
63.6(c)	<u>Compliance dates for existing sources</u>	<u>Y</u>	
63.6(c)(1)	<u>Compliance with standards by the compliance date established by the Administrator</u>	<u>Y</u>	
63.6(c)(2)	<u>Compliance with standards by date established by Section 112(f) of the act</u>	<u>Y</u>	
63.6(e)	<u>Operation and maintenance requirements</u>	<u>Y</u>	
63.6(e)(1)	<u>Operation in a manner consistent with safety and good air pollution control practices</u>	<u>Y</u>	
63.6(e)(2)	<u>Reserved</u>	<u>Y</u>	
63.6(e)(3)	<u>Startup, shutdown, and malfunction plan</u>	<u>Y</u>	
63.6(e)(3)(i)	<u>Development and implementation of a written startup, shutdown, and malfunction plan</u>	<u>Y</u>	
63.6(e)(3)(ii)	<u>Periods of startup, shutdown, and malfunction</u>	<u>Y</u>	
63.6(e)(3)(iii)	<u>Operation consistent with procedures</u>	<u>Y</u>	
63.6(e)(3)(iv)	<u>Operation not consistent with procedures (Except that reports of actions not consistent with plan are not required within 2 and 7 days</u>	<u>Y</u>	

Table IV – U
Source-specific Applicable Requirements
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S1003 – SULFUR PLANT UNIT 238, S301 – MOLTEN SULFUR PIT 234
S302 – MOLTEN SULFUR PIT 236 AND S303 – MOLTEN SULFUR PIT 238

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	<u>of action but rather must be included in next periodic report)</u>		
63.6(e)(3)(v)	<u>Maintenance of the plan at the affected source (The owner or operator is only required to keep the latest version of the plan)</u>	<u>Y</u>	
63.6(e)(3)(vi)	<u>Alternative plans</u>	<u>Y</u>	
63.6(e)(3)(vii)	<u>Administrator may require changes to plan</u>	<u>Y</u>	
63.6(e)(3)(viii)	<u>The owner or operator may periodically revise the startup, shutdown, and malfunction plan</u>	<u>Y</u>	
63.6(f)	<u>Compliance with non-opacity emission standards</u>	<u>Y</u>	
63.6(f)(1)	<u>Applicability (standards apply at all times except startup, shutdown, and malfunction)</u>	<u>Y</u>	
63.6(f)(2)	<u>Methods for determining compliance</u>	<u>Y</u>	
63.6(f)(2)(i)	<u>Based on performance tests</u>	<u>Y</u>	
63.6(f)(2)(ii)	<u>Evaluation of an owner or operator's conformance with operation and maintenance requirements</u>	<u>Y</u>	
63.6(f)(2)(iii)	<u>Conditions under which performance testing for state requirements shows compliance</u>	<u>Y</u>	
63.6(f)(2)(iii)(A)	<u>Performance test conducted within a reasonable amount of time</u>	<u>Y</u>	
63.6(f)(2)(iii)(B)	<u>Performance test conducted under representative operating conditions</u>	<u>Y</u>	
63.6(f)(2)(iii)(c)	<u>EPA-approved test methods and procedures</u>	<u>Y</u>	
63.6(f)(2)(iv)	<u>Determination of compliance</u>	<u>Y</u>	
63.6(f)(2)(v)	<u>Conformance with operation and maintenance requirements</u>	<u>Y</u>	
63.6(f)(3)	<u>Finding of compliance</u>	<u>Y</u>	
63.6(g)	<u>Use of an alternative non-opacity emission standard</u>	<u>Y</u>	
63.6(i)	<u>Extension of compliance with emission standards (Parts 1-14 and part 16. Part 15 is reserved.</u>	<u>Y</u>	
63.7	<u>Performance testing requirements</u>	<u>Y</u>	
63.7(a)	<u>Applicability and performance test dates</u>	<u>Y</u>	
63.7(a)(1)	<u>Performance test requirements Applicability (Except that subpart UUU specifies the applicable test and demonstration procedures.)</u>	<u>Y</u>	
63.7(a)(3)	<u>The Administrator may require performance tests at any time when action is authorized by section 114 of the Act (Except that subpart UUU specifies notification at least 30 days prior to the scheduled test date rather than 60 days.)</u>	<u>Y</u>	
63.7(b)	<u>Notification of performance test</u>	<u>Y</u>	

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Source-specific Applicable Requirements
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S1003 – SULFUR PLANT UNIT 238, S301 – MOLTEN SULFUR PIT 234
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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.7(c)	<u>Quality assurance program</u>	<u>Y</u>	
63.7(d)	<u>Performance testing facilities</u>	<u>Y</u>	
63.7(e)	<u>Conduct of performance tests</u>	<u>Y</u>	
63.7(f)	<u>Use of an alternative test method</u>	<u>Y</u>	
63.7(g)	<u>Data analysis, recordkeeping, and reporting (Except performance test reports must be submitted with notification of compliance status due 150 days after the compliance date.)</u>	<u>Y</u>	
63.7(h)	<u>Waiver of performance tests</u>	<u>Y</u>	
63.8	<u>Monitoring requirements</u>	<u>Y</u>	
63.8(a)	<u>Applicability</u>	<u>Y</u>	
63.8(a)(1)	<u>Applicability</u>	<u>Y</u>	
63.8(a)(2)	<u>Performance Specifications</u>	<u>Y</u>	
63.8(a)(4)	<u>Additional monitoring requirements for control devices</u>	<u>Y</u>	
63.8(b)	<u>Conduct of monitoring</u>	<u>Y</u>	
63.8(b)(1)	<u>Conduct of monitoring</u>	<u>Y</u>	
63.8(b)(2)	<u>Combination of the emissions from two or more affected sources (Subpart UUU specifies the required monitoring locations.)</u>	<u>Y</u>	
63.8(b)(3)	<u>More than one CMS (Subpart UUU specifies the required monitoring locations.)</u>	<u>Y</u>	
63.8(c)	<u>Operation and maintenance of continuous monitoring systems</u>	<u>Y</u>	
63.8(c)(1)	<u>Good air pollution control practices</u>	<u>Y</u>	
63.8(c)(1)(i)	<u>Maintenance and operation of each CMS</u>	<u>Y</u>	
63.8(c)(1)(ii)	<u>Parts for routine repairs readily available (Except that subpart UUU specifies that reports are not required if actions are consistent with the SSM plan, unless requested by the permitting authority. If actions are not consistent, actions must be described in next compliance report.)</u>	<u>Y</u>	
63.8(c)(1)(iii)	<u>Compliance with Operation and Maintenance Requirements (Except that subpart UUU specifies that reports are not required if actions are consistent with the SSM plan, unless requested by the permitting authority. If actions are not consistent, actions must be described in next compliance report.)</u>	<u>Y</u>	
63.8(c)(2)	<u>Monitoring system installation</u>	<u>Y</u>	
63.8(c)(3)	<u>Monitoring system installation</u>	<u>Y</u>	
63.8(c)(4)(ii)	<u>One cycle of operation for each 15-minute period (Applicable since facility has chosen to comply with NSPS SO2 standard)</u>	<u>Y</u>	
63.8(c)(6)	<u>CMS Requirements (Applicable since facility has chosen to comply with NSPS SO2 standard)</u>	<u>Y</u>	

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S1003 – SULFUR PLANT UNIT 238, S301 – MOLTEN SULFUR PIT 234
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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.8(c)(7)	<u>Out-of-control CMS</u>	<u>Y</u>	
63.8(c)(8)	<u>Submittal of all information concerning out-of-control periods</u>	<u>Y</u>	
63.8(d)	<u>Quality Control Program (Applicable since facility has chosen to comply with NSPS SO2 standard)</u>	<u>Y</u>	
63.8(e)	<u>Performance evaluation of continuous monitoring systems (Applicable since facility has chosen to comply with NSPS SO2 standard. Results to be submitted by part of Notification Compliance Status due 150 days after the compliance date)</u>	<u>Y</u>	
63.8(f)	<u>Use of an alternative monitoring method</u>	<u>Y</u>	
63.8(g)	<u>Reduction of monitoring data</u>	<u>Y</u>	
63.8(g)(1)	<u>Reduction of monitoring data</u>	<u>Y</u>	
63.8(g)(2)	<u>1-hour averages</u>	<u>Y</u>	
63.8(g)(3)	<u>Records in reduced or non-reduced form</u>	<u>Y</u>	
63.8(g)(4)	<u>Units of the relevant standard</u>	<u>Y</u>	
63.9	<u>Notification requirements</u>	<u>Y</u>	
63.9(a)	<u>Applicability and general information</u>	<u>Y</u>	
63.9(b)	<u>Initial notifications (Sections 1, 2, 4, and 5. Section 3 is reserved.) Notification of construction or reconstruction is to be submitted as soon as practicable before startup.)</u>	<u>Y</u>	
63.9(c)	<u>Request for extension of compliance</u>	<u>Y</u>	
63.9(d)	<u>Notification that source is subject to special compliance requirements</u>	<u>Y</u>	
63.9(e)	<u>Notification of performance test (Except that notification is required at least 30 days before test.)</u>	<u>Y</u>	
63.9(g)	<u>Additional notification requirements for sources with continuous monitoring systems (Applicable since facility has chosen to comply with NSPS SO2 standard)</u>	<u>Y</u>	
63.9(h)	<u>Notification of compliance status (Except that subpart UUU specifies the notification is due no later than 150 days after compliance date.)</u>	<u>Y</u>	
63.9(i)	<u>Adjustment to time periods or postmark deadlines</u>	<u>Y</u>	
63.9(j)	<u>Change in information already provided</u>	<u>Y</u>	
63.10	<u>Recordkeeping and reporting requirements</u>	<u>Y</u>	
63.10(a)	<u>Applicability and general information</u>	<u>Y</u>	
63.10(b)	<u>General recordkeeping requirements</u>	<u>Y</u>	
63.10(c)	<u>Additional recordkeeping requirements for sources with continuous monitoring systems</u>	<u>Y</u>	
63.10(c)(1)	<u>All required CMS measurements</u>	<u>Y</u>	

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S1003 – SULFUR PLANT UNIT 238, S301 – MOLTEN SULFUR PIT 234
S302 – MOLTEN SULFUR PIT 236 AND S303 – MOLTEN SULFUR PIT 238

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.10(c)(2)	[reserved]	<u>Y</u>	
63.10(c)(3)	[reserved]	<u>Y</u>	
63.10(c)(4)	[reserved]	<u>Y</u>	
63.10(c)(5)	Date and time when CMS was inoperative	<u>Y</u>	
63.10(c)(6)	Date and time when CMS was out-of-control	<u>Y</u>	
63.10(c)(9)	[reserved]	<u>Y</u>	
63.10(c)(10)	The nature and cause of any malfunction	<u>Y</u>	
63.10(c)(11)	Corrective action or preventive measures	<u>Y</u>	
63.10(c)(12)	Nature of repairs or adjustments	<u>Y</u>	
63.10(c)(13)	Process operating time	<u>Y</u>	
63.10(c)(14)	Procedures in quality control program	<u>Y</u>	
63.10(c)(15)	Use of startup, shutdown, and malfunction plan	<u>Y</u>	
63.10(d)	General reporting requirements	<u>Y</u>	
63.10(d)(1)	Reports to the Administrator	<u>Y</u>	
63.10(d)(4)	Progress reports	<u>Y</u>	
63.10(d)(5)(i)	Periodic startup, shutdown, and malfunction reports	<u>Y</u>	
63.10(d)(5)(ii)	Immediate startup, shutdown, and malfunction reports (reports not required if actions consistent with the SSM plan, unless requested by permitting authority)	<u>Y</u>	
63.10(e)	Additional reporting requirements for sources with continuous monitoring systems	<u>Y</u>	
63.10(e)(1)	General (Applicable since facility has chosen to comply with NSPS SO2 standard)	<u>Y</u>	
63.10(e)(2)	Reporting results of continuous monitoring system performance evaluations (Applicable since facility has chosen to comply with NSPS SO2 standard)	<u>Y</u>	
63.10(f)	Waiver of recordkeeping or reporting requirements	<u>Y</u>	
63.11	Control device requirements (Applicable to flares)	<u>Y</u>	
63.15	Availability of information and confidentiality	<u>Y</u>	
40 CFR 63 Subpart UUU	National Emission Standards for Hazardous Pollutants for Petroleum Refineries: Catalytic Cracking Units, Catalytic Reforming Units, and Sulfur Recovery Units (4/11/02)	Y	Notification by 8/9/02; compliance by 4/11/05
63.1561	Am I subject to this subpart?	<u>Y</u>	
63.1562(a)	New, reconstructed, or existing affected sources	<u>Y</u>	
63.1562(b)(3)	Sulfur recovery units and tail gas treatment units	<u>Y</u>	
63.1563	When do I have to comply with this subpart?	<u>Y</u>	

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S302 – MOLTEN SULFUR PIT 236 AND S303 – MOLTEN SULFUR PIT 238

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.1563(b)	<u>Deadline for existing sources-4/11/05</u>	<u>Y</u>	
63.1563(e)	<u>Notification requirements</u>	<u>Y</u>	
63.1568	<u>What are my requirements for HAP emissions from sulfur recovery units?</u>	<u>Y</u>	
63.1568(a)	<u>Emission limitations and work practice standards</u>	<u>Y</u>	
63.1568(a)(1)(i)	<u>Sulfur Emission Limitation from Claus sulfur recovery units electing to meet NSPS Limits: 250 ppmvd SO₂ at 0% excess air. (Table 29, Item 2.a)</u>	<u>Y</u>	
63.1568(a)(3)	<u>Prepare Operation, Maintenance, and Monitoring Plan and operate at all times according to the procedures in the plan</u>	<u>Y</u>	
63.1568(b)	<u>Demonstrate Initial Compliance with Emission Limitation and Work Practice Standard</u>	<u>Y</u>	
63.1568(b)(1)	<u>Continuous Emission Monitoring System to measure and record hourly average SO₂ concentration, with O₂ monitor to correct excess air concentration (Table 31, Item 2.a)</u>	<u>Y</u>	
63.1568(b)(2)	<u>Performance Test: measure SO₂ concentration using CEMS every 15 minutes for 24 hours and reduce the data to 1-hr averages (Table 32, Item 1)</u>	<u>Y</u>	
63.1568(b)(5)	<u>Demonstrate Initial Compliance with Emission Limitation: Average SO₂ emissions measured by CEMS in initial performance test not greater than 250 ppmvd at 0% excess O₂, and monitoring system meets applicable requirements (Table 33, Item 2.a)</u>	<u>Y</u>	
63.1568(b)(6)	<u>Demonstrate initial compliance by submitting Operation, Maintenance, and Monitoring Plan</u>	<u>Y</u>	
63.1568(b)(7)	<u>Submit Notice of Compliance Status</u>	<u>Y</u>	
63.1568(c)	<u>Demonstrate Continuous Compliance with Emission Limitation and Work Practice Standards</u>	<u>Y</u>	
63.1568(c)(1)	<u>Demonstrate Continuous Compliance with Emission Limitation: collect hourly average SO₂ monitoring data; maintain hourly average below applicable limit; determine and record each 12-hour concentration; report 12-hour concentration greater than applicable limitation (Table 34, Item 2.a)</u>	<u>Y</u>	
63.1568(c)(2)	<u>Demonstrate Continuous Compliance with Work Practice Standards by complying with the procedures in Operation, Maintenance, and Monitoring Plan.</u>	<u>Y</u>	
63.1570	<u>What are my general requirements for complying with this subpart?</u>	<u>Y</u>	
63.1570(a)	<u>Operate in compliance with non-opacity standards at all times except during periods of startup, shutdown, and malfunction, as</u>	<u>Y</u>	

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S302 – MOLTEN SULFUR PIT 236 AND S303 – MOLTEN SULFUR PIT 238

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	<u>specified in 63.6(f)(1)</u>		
63.1570(c)	<u>Operate and maintain source including pollution control and monitoring equipment in accordance with 63.6(e)(1). Between 4/11/05 and the date continuous monitoring systems are installed and validated and operating limits have been set, maintain a log detailing operation and maintenance of process and equipment.</u>	<u>Y</u>	
63.1570(d)	<u>Develop and implement startup, shutdown, and malfunction plan (SSMP) in accordance with 63.6(e)(3)</u>	<u>Y</u>	
63.1570(e)	<u>Operate in accordance with SSMP during periods of startup, shutdown, and malfunction</u>	<u>Y</u>	
63.1570(f)	<u>Report deviations from compliance with this subpart according to the requirements of 63.1575</u>	<u>Y</u>	
63.1570(g)	<u>Deviations that occur during startup, shutdown, or malfunction are not violations if operating in accordance with SSMP</u>	<u>Y</u>	
63.1571	<u>How and when do I conduct a performance test or other initial compliance demonstration?</u>	<u>Y</u>	
63.1571(a)	<u>Conduct Performance Test and submit results no later than 150 days after compliance date</u>	<u>Y</u>	
63.1571(a)(1)	<u>For emission limitation or work practice standard where compliance not demonstrated using performance test, opacity observation, or visible emission observation, conduct initial compliance demonstration within 30 days after compliance date</u>	<u>Y</u>	
63.1571(b)	<u>Requirements for Performance Tests</u>	<u>Y</u>	
63.1571(b)(1)	<u>Conduct performance tests in accordance with the requirements of 63.7(e)(1)</u>	<u>Y</u>	
63.1571(b)(2)	<u>Conduct three separate test runs of at least an hour for each performance test</u>	<u>Y</u>	
63.1571(b)(3)	<u>Conduct each performance evaluation in accordance with the requirements of 63.8(e)</u>	<u>Y</u>	
63.1571(b)(4)	<u>Performance tests not conducted during periods of startup, shutdown, or malfunction</u>	<u>Y</u>	
63.1571(b)(5)	<u>Arithmetic average of emission rates</u>	<u>Y</u>	
63.1572	<u>What are my monitoring installation, operation, and maintenance requirements?</u>	<u>Y</u>	
63.1572(a)	<u>Requirements for installation, operation, and maintenance of continuous emission monitoring system</u>	<u>Y</u>	
63.1572(a)(1)	<u>SO2 CEMS must meet requirements of Performance Specification 2 (40 CFR Part 60, App B) (Table 40, Item 4)</u>	<u>Y</u>	

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S1003 – SULFUR PLANT UNIT 238, S301 – MOLTEN SULFUR PIT 234
S302 – MOLTEN SULFUR PIT 236 AND S303 – MOLTEN SULFUR PIT 238

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.1572(a)(2)	<u>Conduct performance evaluation for SO2 CEMS according to Performance Specification 2 (Table 40, Item 4)</u>	<u>Y</u>	
63.1572(a)(3)	<u>CEMS must complete one cycle of operation for each 15-minute period</u>	<u>Y</u>	
63.1572(a)(4)	<u>Data reduction per 63.8(g)(2)</u>	<u>Y</u>	
63.1572(d)	<u>Data monitoring and collection requirements</u>	<u>Y</u>	
63.1572(d)(1)	<u>Conduct monitoring at all times, except for monitoring malfunctions, repairs, and QA/QC activities</u>	<u>Y</u>	
63.1572(d)(2)	<u>Data recorded during monitoring malfunctions, repairs, and QA/QC activities not used for compliance purposes</u>	<u>Y</u>	
63.1573	<u>What are my monitoring alternatives?</u>	<u>Y</u>	
63.1573(d)	<u>Monitoring for alternative parameters (optional)</u>	<u>Y</u>	
63.1573(e)	<u>Alternative Monitoring Requests (optional)</u>	<u>Y</u>	
63.1574	<u>What notifications must I submit and when?</u>	<u>Y</u>	
63.1574(a)	<u>Notifications Required by Subpart A</u>	<u>Y</u>	
63.1574(a)(1)	<u>Notifications of reconstruction</u>	<u>Y</u>	
63.1574(a)(2)	<u>Submit notification of intent to conduct performance test 30 days before scheduled (instead of 60 days)</u>	<u>Y</u>	
63.1574(a)(3)	<u>Notification of Compliance Status</u>	<u>Y</u>	
63.1574(a)(3)(ii)	<u>Submit Notification of Compliance Status for initial compliance demonstration that includes a performance test, no later than 150 days after source compliance date</u>	<u>Y</u>	
63.1574(d)	<u>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)</u>	<u>Y</u>	
63.1574(f)	<u>Requirement to prepare Operation, Maintenance, and Monitoring Plan</u>	<u>Y</u>	
63.1574(f)(1)	<u>Submit plan to permitting authority for review and approval along with notification of compliance status. Include duty to prepare and implement plan into Part 70 or 71 permit.</u>	<u>Y</u>	
63.1574(f)(2)	<u>Minimum contents of Operation, Maintenance, and Monitoring Plan</u>	<u>Y</u>	
63.1574(f)(2)(ii)	<u>Procedures for monitoring emissions and process and control device operating parameters for each affected source.</u>	<u>Y</u>	
63.1574(f)(2)(vii)	<u>Monitoring schedule</u>	<u>Y</u>	
63.1574(f)(2)(ix)	<u>Quality control plan for continuous emission monitor</u>	<u>Y</u>	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.1574(f)(2)(x)	<u>Maintenance schedule for monitoring systems and control devices</u>	<u>Y</u>	
63.1575	<u>What reports must I submit and when?</u>	<u>Y</u>	
63.1575(a)	<u>Required reports: Statement that there were no deviations or report including information in 1575(d) or (e) (Table 43, Item 1) on a semi-annual basis</u>	<u>Y</u>	
63.1575(b)	<u>Specified semiannual report submittal dates</u>	<u>Y</u>	
63.1575(c)	<u>Information required in compliance report</u>	<u>Y</u>	
63.1575(d)	<u>Information required for deviations from emission limitations and work practice standards where CEMS or COMS is not used to comply with emission limitation or work practice standard</u>	<u>Y</u>	
63.1575(e)	<u>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</u>	<u>Y</u>	
63.1575(f)	<u>Additional information for compliance reports</u>	<u>Y</u>	
63.1575(f)(1)	<u>Requirement to submit performance test reports</u>	<u>Y</u>	
63.1575(f)(2)	<u>Submittal of requested change in the applicability of an emission standard</u>	<u>Y</u>	
63.1575(g)	<u>Submittal of reports required by other regulations in place of or as part of compliance report if they contain the required information</u>	<u>Y</u>	
63.1575(h)	<u>Reporting requirements for startups, shutdowns, and malfunctions</u>	<u>Y</u>	
63.1576	<u>What records must I keep, in what form, and for how long?</u>	<u>Y</u>	
63.1576(a)	<u>Required Records – General</u>	<u>Y</u>	
63.1576(b)	<u>Records for CEMs</u>	<u>Y</u>	
63.1576(b)(1)	<u>Records described in §63.10(b)(2)(vi) through (xi).</u>	<u>Y</u>	
63.1576(b)(3)	<u>Previous (i.e., superceded) versions of the performance evaluation plan as required in §63.8(d)(3).</u>	<u>Y</u>	
63.1576(b)(4)	<u>Requests for alternatives to the relative accuracy test for continuous emission monitoring systems as required in §63.8(f)(6)(i).</u>	<u>Y</u>	
63.1576(b)(5)	<u>Records of the date and time that each deviation started and stopped, and whether the deviation occurred during a period of startup, shutdown, or malfunction or during another period.</u>	<u>Y</u>	
63.1576(d)	<u>Records required by Tables 34 and 35 of Subpart UUU</u>	<u>Y</u>	
63.1576(e)	<u>Maintain copy of operation, maintenance, and monitoring plan</u>	<u>Y</u>	
63.1576(f)	<u>Records of changes that affect emission control system performance</u>	<u>Y</u>	
63.1576(g)	<u>Records in a form suitable and readily available for review</u>	<u>Y</u>	
63.1576(h)	<u>Maintain records for 5 years</u>	<u>Y</u>	
63.1576(i)	<u>Records onsite for 2 years; may be maintained offsite for remaining</u>	<u>Y</u>	

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S302 – MOLTEN SULFUR PIT 236 AND S303 – MOLTEN SULFUR PIT 238

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	<u>3 years</u>		
BAAQMD Condition 19278			
Part 3	Annual source test to verify SO3 and H2SO4 exhaust concentrations. [Basis: Regulation 6-330]	Y	
Part 4	Visible emissions monitoring for particulate [Basis: Regulation 2-6-503]	Y	
<u>Part 5</u>	<u>Installation of ports for particulate testing and source test within 90 days of next turnaround [2-6-503]</u>	<u>Y</u>	<u>After turn-around</u>
<u>Part 6</u>	<u>Throughput limits [Cumulative Increase]</u>	<u>Y</u>	
BAAQMD Condition 21099	<u>APPLIES</u> TO S1002, S1003 ONLY		
Part 1	Light hydrocarbon control valve requirements [Basis: BACT]	Y	
Part 2	Light hydrocarbon flange/connector requirements [Basis: BACT]	Y	
Part 3	Centrifugal compressor requirements [Basis: BACT]	Y	
Part 4	Light hydrocarbon centrifugal pump requirements [Basis: BACT]	Y	
Part 5	Monitoring and repair program requirement [Basis: BACT]	Y	
Part 6	ULSD project component count report requirement [Basis: BACT, Cumulative Increase, Toxic Management Policy]	Y	
BAAQMD Condition 20989, Part A	Throughput limits for sources S1001, S1002, S1003, S301, S302, S303 [Basis: 2-1-234.3]	N	
<u>BAAQMD Condition 22964</u>	<u>APPLIES TO S301, S302, S303</u>		
<u>Part 1</u>	<u>Throughput limit for S301, S302, S303 [Cumulative Increase]</u>	<u>Y</u>	
<u>Part 4</u>	<u>Abatement requirement for S301 [Consent Decree Case No. 05-0258, paragraph 123, DATE: 1/27/05; Consent Decree Case No. 05-0258 amendment, paragraph 123, DATE: 5/1/07; 40 CFR 60.104(a)(2)(i)]</u>	<u>Y</u>	
<u>Part 5</u>	<u>Abatement requirement for S302 [Consent Decree Case No. 05-0258, paragraph 123, DATE: 1/27/05; Consent Decree Case No. 05-0258 amendment, paragraph 123, DATE: 5/1/07; 40 CFR 60.104(a)(2)(i)]</u>	<u>Y</u>	

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S302 – MOLTEN SULFUR PIT 236 AND S303 – MOLTEN SULFUR PIT 238

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<u>Part 6</u>	<u>Abatement requirement for S303 [Consent Decree Case No. 05-0258, paragraph 123, DATE: 1/27/05; Consent Decree Case No. 05-0258 amendment, paragraph 123, DATE: 5/1/07; 40 CFR 60.104(a)(2)(i)]</u>	<u>Y</u>	
<u>Part 7</u>	<u>Maintenance allowance for sulfur pits [Consent Decree Case No. 05-0258 amendment, paragraph 123, DATE: 5/1/07]</u>	<u>Y</u>	

- 1 This section has been removed from BAAQMD Regulations because it has been superseded. Nevertheless, the source must comply with this regulation until US EPA has reviewed and approved (or disapproved) the District's revision of the regulation.

Following is a list showing determinations of non-applicability of various parts of the rules for the SRUs.

Section	Reason:
	Not Applicable
60.7(e)	Report frequency is semi-annual
60.13(g)	Effluents are not combined
60.13(i)	No alternative monitoring plan is approved
60.13(j)	Alternative relative accuracy test has not been requested.
60.14	The source is already subject to NSPS due to the consent decree.
60.15	The source is already subject to NSPS due to the consent decree.
60.16	This section applies to EPA.
60.17	This section incorporates materials by reference.
60.18	The sources are not controlled by flares.
63.6(b)(7)	Facility is a major source.
63.6(c)(5)	Facility is a major source.
63.6(h)	No MACT opacity or visible emissions standards
63.6(j)	No request for presidential compliance exemption
63.8(c)(2) and (3): Note in Table 44	Note refers to parametric monitoring, which is not being used.
63.8(c)(4)(i) and (5)	No COMs
63.9(f)	No MACT opacity standard
63.10(d)(3)	No MACT opacity standard
63.10(e)(4)	No MACT opacity standard
63.13	Contains agency addresses
63.1569	SRUs have no bypass lines.
63.1570(b)	No MACT opacity standard
63.1571(a)(2)	No limit has a 30-day averaging period
63.1571(a)(3)	Source not reconstructed between 9/11/98 and 4/11/02
63.1571(a)(4)	Source not reconstructed between 9/11/98 and 4/11/02
63.1571(c)	Facility has not chosen to use an engineering assessment.
63.1571(d)	Facility is not using a continuous parameter monitor.
63.1571(e)	Facility is not using a continuous parameter monitor.
63.1572(b)	Opacity monitors are not required.
63.1572(c)	Facility is not using a continuous parameter monitor.

Section	Reason:
	Not Applicable
63.1573(a)	Gas flow measurement is not required for SRUs.
63.1573(b)	The unit is not a catalytic reforming unit.
63.1573(c)	The facility is not using a data compression system.
63.1573(d)	The facility has not chosen to use alternative parameters.
63.1573(e)	The facility has not chosen to use alternative parameters.
63.1573(f)	The unit is not a catalytic cracking unit.
63.1574(a)(i)	The notification of initial compliance will include a performance test
63.1574(b)	The initial notification has been submitted pursuant to 40 CFR 63.9(b)(2).
63.1574(c)	The source was started up before April 11, 2002.
63.1574(e)	The unit is not a catalytic cracking unit.
63.1574(f)(2)(i)	Process and control parameters will not be monitored. Instead, the facility will use a CEM for SO ₂ .
63.1574(f)(2)(iii)	Coke burn-rate, volumetric flow rate, and rate of combustion of liquid or solid fossil fuels are not appropriate parameters for sulfur recovery units.
63.1574(f)(2)(iv)	SRUs are not subject to limits on nickel emissions.
63.1574(f)(2)(v)	The SRUs have no scrubbers.
63.1574(f)(2)(vi)	This section applies only to catalytic reforming units.
63.1574(f)(2)(vii)	This section applies only to catalytic cracking units.
63.1574(f)(2)(xi)	This section applies only to catalytic reforming units.
63.1574(f)(2)(xii)	This section applies only to catalytic reforming units.
63.1575(i)	This section applies only to catalytic cracking units.
63.1575(j)	This section applies only to catalytic cracking units.
63.1576(b)(2)	No MACT opacity standard
63.1576(c)	No MACT opacity standard

V. Schedule of Compliance

A schedule of compliance is required in all Title V permits pursuant to BAAQMD Regulation 2-6-409.10 that provides that a major facility review permit shall contain the following information and provisions:

“409.10 A schedule of compliance containing the following elements:

- 10.1 A statement that the facility shall continue to comply with all applicable requirements with which it is currently in compliance;
- 10.2 A statement that the facility shall meet all applicable requirements on a timely basis as requirements become effective during the permit term; and
- 10.3 If the facility is out of compliance with an applicable requirement at the time of issuance, revision, or reopening, the schedule of compliance shall contain a plan by which the facility will achieve compliance. The plan shall contain deadlines for each item in the plan. The schedule of compliance shall also contain a requirement for submission of progress reports by the facility at least every six months. The progress reports shall contain the dates by which each item in the plan was achieved and an explanation of why any dates in the schedule of compliance were not or will not be met, and any preventive or corrective measures adopted.”

No changes to this section are proposed in this action.

The facility submitted a Notice of Compliance for the Refinery MACT II (40 CFR 63, Subpart UUU) to EPA on April 7, 2006. Therefore, no changes to the schedule of compliance are necessary.

VI. Permit Conditions

Each permit condition is identified with a unique numerical identifier, up to five digits.

All changes to existing permit conditions are clearly shown in “strike-out/underline” format in the proposed permit. When the permit is issued, all 'strike-out' language will be deleted and all “underline” language will be retained, subject to consideration of comments received.

The existing permit conditions are derived from previously issued District Authorities to Construct (A/C) or Permits to Operate (P/O). Permit conditions may also be imposed or revised as part of the annual review of the facility by the District pursuant to California Health and Safety Code (H&SC) § 42301(e), through a variance pursuant to H&SC § 42350 et seq., an order of abatement pursuant to H&SC § 42450 et seq., or as an administrative revision initiated by District staff. After issuance of the Title V permit, permit conditions will be revised using the procedures in Regulation 2, Rule 6, Major Facility Review.

The regulatory basis is listed following each condition. The regulatory basis may be a rule or regulation. The District is also using the following terms for regulatory basis:

- BACT: This term is used for a condition imposed by the Air Pollution Control Officer (APCO) to ensure compliance with the Best Available Control Technology in Regulation 2-2-301.
- Cumulative Increase: This term is used for a condition imposed by the APCO that limits a source's operation to the operation described in the permit application pursuant to BAAQMD Regulation 2-1-403.
- Offsets: This term is used for a condition imposed by the APCO to ensure compliance with the use of offsets for the permitting of a source or with the banking of emissions from a source pursuant to Regulation 2, Rules 2 and 4.
- PSD: This term is used for a condition imposed by the APCO to ensure compliance with a Prevention of Significant Deterioration permit issued pursuant to Regulation 2, Rule 2.
- TRMP: This term is used for a condition imposed by the APCO to ensure compliance with limits that arise from the District's Toxic Risk Management Policy.

Changes to the permit

Condition 19278, part 3, has been amended to allow the facility 60 days for submitting the source test reports instead of 45 days. This is consistent with changes made elsewhere in the Title V permit.

A requirement to add a second port to the SRU stacks and perform source testing for particulate has been added to Condition 19278. The discussion is in Section C.VII of this statement of basis.

The limits for S1001-S1003, Sulfur Recovery Units, are not grandfathered limits, since these limits were increased in Application 5814. The limits for S1001-S1003 have been moved from Condition 20989 to Condition 19278.

CONDITION 19278

Conditions for S1001, S1002, S1003, Sulfur Recovery Units

1. Deleted 12433.
2. Deleted 12433.
3. An annual District-approved source test shall be performed to verify compliance with the requirements of Regulation 6-330. A copy of the source test results shall be provided to the District Director of Compliance and Enforcement within ~~45~~60 days of the test.
[Regulation 6-330]
4. The Owner/Operator shall perform a visible emissions check on Sources S-1001, S-1002, and S-1003 on a monthly basis. The visible emissions check shall take place while the equipment is operating and during daylight hours. If any visible emissions are detected, the owner/operator shall have a CARB-certified smoke reader determine compliance with the opacity standard, using EPA Method 9 or the procedures outlined in the CARB manual, “Visible Emissions Evaluation” for six (6) minutes within three (3) days and record the results of the reading. If the reading is in compliance with the Ringelmann 1.0 limit in BAAQMD Regulation 6-301, the reading shall be recorded and the owner/operator shall continue to perform a visible emissions check on a monthly basis. If the reading is not in compliance with the Ringelmann 1.0 limit in BAAQMD Regulation 6-301, the owner/operator shall take corrective action and report the violation in accordance with Standard Condition 1.F of this permit. The certified smoke-reader shall continue to conduct the Method 9 or CARB Visible Emission Evaluation on a daily basis until the daily reading shows compliance with the applicable limit or until the equipment is shut down. Records of visible emissions checks and opacity readings made by a CARB-certified smoke reader 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: Regulations 6-301, 2-6-501, 2-6-503]
5. During the next turnaround after issuance of the permit pursuant to Application 10994, the owner/operator shall install a second testing port into the stack of Tail Gas Incinerators A421-A423. The owner/operator shall submit plans to the Source Test group for approval prior to construction. Within 90 days of startup after the turnaround and after obtaining approval from the District for the source test protocol, the owner/operator shall perform source tests to determine compliance with BAAQMD Regulations 6-310 and 6-311. Within 60 days of the source tests, the owner/operator shall submit the results of the source tests to the District. If the results are less than one quarter of the standard, the owner/operator shall repeat the source tests every permit term. If the results are greater than one quarter of the standard, the owner/operator shall repeat the source tests on an annual basis. [2-6-503]
6. The owner/operator shall ensure that the throughput of molten sulfur at S1001, S1002, and S1003 combined does not exceed 98,915 long tons/yr. The owner/operator shall record the throughput of molten sulfur on a monthly basis. [Cumulative Increase]

The limits for S301-S303, Sulfur Pits, and S1001-S1003, Sulfur Recovery Units, are not grandfathered limits, since these limits were increased in Application 5814. The limits for S301-S303 have been moved to Condition 22964 and the conditions for S1001-S1003 have been moved to Condition 19278.

FACILITY-WIDE REQUIREMENTS
CONDITION 20989

A. THROUGHPUT LIMITS

The following limits are imposed through this permit in accordance with Regulation 2-1-234.3. Sources require BOTH hourly/daily and annual throughput limits (except for tanks and similar liquid storage sources, and small manually operated sources such as cold cleaners which require only annual limits). Sources with previously imposed hourly/daily AND annual throughput limits are not listed below; the applicable limits are given in the specific permit conditions listed above in this section of the permit. Also, where hourly/daily capacities are listed in Table II-A, these are considered enforceable limits for sources that have a New Source Review permit. Throughput limits imposed in this section and hourly/daily capacities listed in Table II-A are not federally enforceable for grandfathered sources. Grandfathered sources are indicated with an asterisk in the source number column in the following table. Refer to Title V Standard Condition J for clarification of these limits.

In the absence of specific recordkeeping requirements imposed as permit conditions, monthly throughput records shall be maintained for each source.

<u>source number</u>	<u>hourly / daily throughput limit</u>	<u>annual throughput limit (any consecutive 12-month period unless otherwise specified)</u>
301	<u>Table II-A</u>	<u>98,915 long ton for S301, S302, S303</u>
302	<u>Table II-A</u>	<u>98,915 long ton for S301, S302, S303</u>
303	<u>Table II-A</u>	<u>98,915 long ton for S301, S302, S303</u>
1001	<u>Table II-A</u>	<u>98,915 long ton for S1001, S1002, S1003</u>
1002	<u>Table II-A</u>	<u>98,915 long ton for S1001, S1002, S1003</u>
1003	<u>Table II-A</u>	<u>98,915 long ton for S1001, S1002, S1003</u>

The limits for S301-S303, Sulfur Pits are not grandfathered limits, since these limits were increased in Application 5814. The limits for S301-S303 have been moved from Condition 20989 to Condition 22964.

Parts 4-7 have been established in Application 14883, issued September 18, 2007. These conditions require control of the sulfur pits pursuant to the consent decree and 40 CFR 60.104(a)(2)(i).

Parts 2 and 3 will be incorporated in the action that incorporates most of the revisions for Application 13424, the Clean Fuels Expansion Project. These parts concern the new proposed

sulfur pit, S465. The same condition number is being used so that in the future the sulfur pits will be subject to only one condition.

CONDITION 22964

Sources S301, S302, S303, Sulfur Pits

1. The owner/operator shall ensure that the throughput of molten sulfur at S301, S302, and S303 combined does not exceed 98,915 long tons per consecutive 12-month period. [Cumulative Increase]
4. The owner/operator shall ensure that S301, Molten Sulfur Pit, is abated by A8, Stretford Evaporative Cooler. [Consent Decree Case No. 05-0258, paragraph 123, DATE: 1/27/05; Consent Decree Case No. 05-0258 amendment, paragraph 123, DATE: 5/1/07; 40 CFR 60.104(a)(2)(i)]
5. The owner/operator shall ensure that S302, Molten Sulfur Pit, is abated by A9, Stretford Evaporative Cooler. [Consent Decree Case No. 05-0258, paragraph 123, DATE: 1/27/05; Consent Decree Case No. 05-0258 amendment, paragraph 123, DATE: 5/1/07; 40 CFR 60.104(a)(2)(i)]
6. The owner/operator shall ensure that S303, Molten Sulfur Pit, is abated by A10, Stretford Evaporative Cooler. [Consent Decree Case No. 05-0258, paragraph 123, DATE: 1/27/05; Consent Decree Case No. 05-0258 amendment, paragraph 123, DATE: 5/1/07; 40 CFR 60.104(a)(2)(i)]
7. Notwithstanding the requirements of parts 4-6, the owner/operator may disconnect the vent lines from S301, S302, and S303, Molten Sulfur Pits, to A8, A9, and A10, Stretford Evaporative Coolers, for periodic maintenance without penalty, as long as the owner/operator takes reasonable measures to minimize emissions while such periodic maintenance is being performed. [Consent Decree Case No. 05-0258 amendment, paragraph 123, DATE: 5/1/07]

Condition 18255 is shown for information only.

CONDITION 18255

FOR SOURCES S296 AND S398, FLARES

1. Deleted Application 12601.
2. Deleted Application 12601.
3. For the purposes of these conditions, a flaring event is defined as a flow rate of vent gas flared in any consecutive 15 minutes period that continuously exceeds 330 standard cubic feet per minute (scfm). If during a flaring event, the vent gas flow rate drops below 330 scfm and then increases above 330 scfm within 30 minutes, that shall still be considered a single flaring event, rather than two separate events. For each flaring event during daylight hours (between sunrise and sunset), the owner/operator shall inspect the flare within 15 minutes of determining the flaring event, and within 30 minutes of the last inspection thereafter, using video monitoring or visible inspection following the procedure described in Part 4. [Regulation 2-6-409.2]

4. The owner/operator shall use the following procedure for the initial inspection and each 30-minute inspection of a flaring event.
 - a. If the owner/operator can determine that there are no visible emissions using video monitoring, then no further monitoring is necessary for that particular inspection.
 - b. If the owner/operator cannot determine that there are no visible emissions using video monitoring, the owner/operator shall conduct a visual inspection outdoors using either:
 - i. EPA Reference Method 9; or
 - ii. Survey the flare by selecting a position that enables a clear view of the flare at least 15 feet, but not more than 0.25 miles, from the emission source, where the sun is not directly in the observer's eyes.
 - c. If a visible emission is observed, the owner/operator shall continue to monitor the flare for at least 3 minutes, or until there are no visible emissions, whichever is shorter.
 - d. The owner/operator shall repeat the inspection procedure for the duration of the flaring event, or until a violation is documented in accordance with Part 5. After a violation is documented, no further inspections are required until the beginning of a new calendar day.
[Regulation 6-301, 2-1-403]
5. The owner/operator shall comply with one of the following requirements if visual inspection is used:
 - a. If EPA Method 9 is used, the owner/operator shall comply with Regulation 6-301 when operating the flare.
 - b. If the procedure of Part 4.b.ii is used, the owner/operator shall not operate a flare that has visible emissions for three consecutive minutes.
[Regulation 2-6-403]
6. The owner/operator shall keep records of all flaring events, as defined in Part 3. The owner/operator shall include in the records the name of the person performing the visible emissions check, whether video monitoring or visual inspection (EPA Method 9 or visual inspection procedure of Part 4) was used, the results of each inspection, and whether any violation of this condition (using visual inspection procedure in Part 4) or Regulation 6-301 occurred (using EPA Method 9).
[Regulation 2-6-501; 2-6-409.2]
7. Deleted Application 12601.

VII. Applicable Limits and Compliance Monitoring Requirements

This section of the permit is a summary of numerical limits and related monitoring requirements that apply to each source. The summary includes a citation for each monitoring requirement, frequency, and type. The applicable requirements for monitoring are completely contained in Sections IV, Source-Specific Applicable Requirements, and VI, Permit Conditions, of the permit.

Changes to permit:

See Section C.IV of this statement of basis for the explanation of the changes.

Table VII – L
Applicable Limits and Compliance Monitoring Requirements
S296 – C-1 FLARE
S398 – MP-30 FLARE

[Flares which are visually inspected upon release, with no remote viewing system]

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Opacity	BAAQMD 6-301	Y	12/1/04	Ringelmann No. 1 for no more than 3 minutes/hr	BAAQMD Condition 18255, Part 4	P/E	Visual Inspection
FP	BAAQMD 6-305	Y		Prohibition of nuisance	None	N	None
FP	BAAQMD 6-310	Y	12/1/04	No emissions from source > 0.15 grains per dscf of gas volume	BAAQMD Condition 18255, Part 4	P/E	Visual Inspection
VE	40 CFR 63.11(b)(4)	Y		No visible emissions except for 5 min in any two hours whenever emissions from S306 or S308 regeneration vented to flare	BAAQMD Condition 18255, Part 4 40 CFR 63, Section 63.11(b)(4) and Subpart UUU, Table 18	P/E	Visual Inspection
SO2	40 CFR 60.104(a)(1)	Y		Flares are exempt since when they are used only for startup, shutdown, malfunction, and upset gases	None	N	None
All		N			BAAQMD 12-11-501 & 12-11-505	P/C	Flow Rate
All		N			BAAQMD 12-11-502.1 & 12-11-505	P/E	Composition
All		N			BAAQMD 12-11-502.3 & 12-11-505	P/E	Composition
All		N			BAAQMD 12-11-503 & 12-11-505	P/C	Flame Detector
All		N			BAAQMD 12-11-504 & 12-11-505	P/C	Purge Gas Flow Rate
All		N			BAAQMD 12-11-507	P/C	1 frame per minute image video recording
Presence of flame	40 CFR 63.11(b)(5)	Y		Presence of flame whenever emissions from S306 or S308 regeneration vented to flare	40 CFR 63.11(b)(5)	C	Thermo-couple

Table VII – L
Applicable Limits and Compliance Monitoring Requirements
S296 – C-1 FLARE
S398 – MP-30 FLARE

[Flares which are visually inspected upon release, with no remote viewing system]

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
<u>Heating value</u>	40 CFR 63.11(b)(6)(ii)	<u>Y</u>		Net heating value of 300 btu/scf or greater whenever emissions from S306 or S308 regeneration vented to flare		None (The heating value was determined during the first test.)	
<u>Exit velocity</u>	40 CFR 63.11(b)(7)(i)	<u>Y</u>		Exit velocity less than 60 ft/sec whenever emissions from S306 or S308 regeneration vented to flare		None (The exit velocity was determined during the first test.)	

Table VII – Na
Applicable Limits and Compliance Monitoring Requirements
S304 –U-229 LIGHT NAPHTHA HYDROTREATER;
S305 – U-230 PREFRACTIONATOR / NAPHTHA HYDROTREATER;
~~S306 – U-231 PLATFORMING UNIT;~~ S307 – U-240 UNICRACKING UNIT;
~~S308 – U-244 REFORMING UNIT;~~ S309 – U-248 UNISAR UNIT;
S318 – U-76 GASOLINE / MID-BARREL BLENDING UNIT;
S319 – U-215 GASOLINE FRACTIONATING UNIT;
S322 – U-40 RAW MATERIALS RECEIVING; S435 – REFORMATE SPLITTER;
S436 – DEISOPENTANIZER; S437 – HYDROGEN PLANT;
S460 – U-250 ULSD HYDROTREATER

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 8-10-301	Y		abatement of emissions from process vessel depressurization is required until pressure is reduced to less than 1000 mm Hg	8-10-401.2 (SIP) and 8-10-501 & 502 (non-SIP)	P/E	Records
VOC (S307 only)	BAAQMD Condition 6671, Part 2 and 8-2-301	Y		emission streams with 15 lb/day AND 300 ppm total carbon on a dry basis prohibited	BAAQMD Condition 6671, Part 4 BAAQMD Condition 6671, Part 6	P/D P/A	visual inspection source test
throughput (S304 only)	BAAQMD Condition 21095, Part 1	Y		12,198 bbl/day (monthly average)	BAAQMD Condition 21095, Part 2	P/D	records
throughput (S460 only)	BAAQMD Condition 21094, Part 1	Y		35,000 bbl/day (monthly average)	BAAQMD Condition 21094, Part 2	P/D	records
throughput	BAAQMD Condition 20989, Part A	Y		S305: 9.23 E 6 bbl/yr S306: 5.66 E 6 bbl/yr S307: 1.39 E 7 bbl/yr S435: 6.6 E 6 bbl/yr S436: 4.7 E 6 bbl/yr S437: 10.4 E 9 ft3/yr	BAAQMD Condition 20989, Part A	P/M	records
throughput	BAAQMD Condition 20989, Part A	N		S308: 5.11 E 6 bbl/yr S309: 6.6 E 8 bbl/yr S318: 3.3 E 7 bbl/yr S319: 3.51 E 6 bbl/yr	BAAQMD Condition 20989, Part A	P/M	records

Table VII – Na
Applicable Limits and Compliance Monitoring Requirements
S304 –U-229 LIGHT NAPHTHA HYDROTREATER;
S305 – U-230 PREFRACTIONATOR / NAPHTHA HYDROTREATER;
~~S306 – U-231 PLATFORMING UNIT;~~ S307 – U-240 UNICRACKING UNIT;
~~S308 – U-244 REFORMING UNIT;~~ S309 – U-248 UNISAR UNIT;
S318 – U-76 GASOLINE / MID-BARREL BLENDING UNIT;
S319 – U-215 GASOLINE FRACTIONATING UNIT;
S322 – U-40 RAW MATERIALS RECEIVING; S435 – REFORMATE SPLITTER;
S436 – DEISOPENTANIZER; S437 – HYDROGEN PLANT;
S460 – U-250 ULSD HYDROTREATER

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 22549, Part 1	Y		S318: 113,150 bbl/day (except for diesel, which does not have a daily limit)	BAAQMD Condition 22549, Part 2	P/D	records

Table VII – Nb
Applicable Limits and Compliance Monitoring Requirements
S306 – U-231 PLATFORMING UNIT; S308 – U-244 REFORMING 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 8-10-301	Y		abatement of emissions from process vessel depressurization is required until pressure is reduced to less than 1000 mm Hg	8-10-401.2 (SIP) and 8-10-501 & 502 (non-SIP)	P/E	Records
<u>TOC</u>	<u>40 CFR 63.1566(a)(1)(ii)</u>	<u>Y</u>		<u>98% control of non-methane TOC by weight or concentration of 20 ppmw as hexane, dry @ 3% O₂, whichever is less stringent (Applies to S306, may apply to S308)</u>	<u>40 CFR 63.11(b)(5)</u>	<u>C</u>	<u>Thermo-couple to detect presence of flame</u>
<u>HCl</u>	<u>40 CFR 63.1567(a)(1)</u>	<u>Y</u>		<u>For S306: 92% reduction or to concentration of 30 ppmv, dry @ 3% O₂</u>	<u>Monitoring to be determined during initial compliance demonstration</u>		

Table VII – Nb
Applicable Limits and Compliance Monitoring Requirements
S306 – U-231 PLATFORMING UNIT; S308 – U-244 REFORMING UNIT;

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)	Y		For S308: 30 ppmv, dry @ 3% O ₂	40 CFR 63.1572(c)(1) and (2)	P/E	Color-metric monitoring
throughput	BAAQMD Condition 20989, Part A	Y		S306: 5.66 E 6 bbl/yr	BAAQMD Condition 20989, Part A	P/M	records
throughput	BAAQMD Condition 20989, Part A	N		S308: 5.11 E 6 bbl/yr	BAAQMD Condition 20989, Part A	P/M	records

Visible emissions monitoring was added for the SRUs in Application 12601. The use of the periodic monitoring guidelines for gaseous-fueled sources was not appropriate because the SRUs are not solely combustion sources. The citation has been corrected from part 3 to part 4 of BAAQMD Condition 19278.

BAAQMD Regulation 6-311 has been added because it was omitted in error. The process rate in this case is the rate of production of elemental sulfur. The SRUs are permitted to produce up to 271 tons/hr. Generally, two of the SRUs are in use and production is continuous. Therefore, an average of 5.65 tons/hr are produced at each source. At this rate, the limit is about 13.1 lb/hr.

At the moment, it is not feasible to test for particulate because the stacks only have one port for testing. The facility will be required to install a second port into each stack during the next turnaround, to test within 90 days of startup after the turnaround, and to report the results within 60 days of the test. If the results are less than one quarter of the standard, a test will be required every permit term. If the results are greater than one quarter of the standard, an annual test will be required.

The requirements of 40 CFR 63, Subparts A and UUU have been added. The table has been split into two tables because the Subpart UUU requirements do not apply to the sulfur pits: Table Ua for the SRUs and Table Uc for the sulfur pits.

Table VII – U
Applicable Limits and Compliance Monitoring Requirements
S1001 - SULFUR PLANT UNIT 234; S1002 - SULFUR PLANT UNIT 236;
S1003 - SULFUR PLANT UNIT 238; S301 - MOLTEN SULFUR PIT 234;
S302 - MOLTEN SULFUR PIT 236; S303 - MOLTEN SULFUR PIT 238

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
(H2S, ammonia)	BAAQMD 9-1-313.2 and SIP 9-1-313.2	N Y		95% of H2S in refinery fuel gas is removed and recovered on a refinery-wide basis AND 95% of H2S in process water streams is removed and recovered on a refinery-wide basis AND 95% of ammonia in process water streams is removed; refineries which remove the equivalent of 16.5 ton/day or more of elemental sulfur shall install a sulfur recovery plant or sulfuric acid plant	BAAQMD Condition 19278 Part 1 None	P/A/N	Source Test None
Opacity	BAAQMD 6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour	BAAQMD Condition 19278 Part 34	Y	Visible emissions inspection
FP	BAAQMD 6-305	Y		Prohibition of nuisance	None	N	None
FP	BAAQMD 6-310	Y	<u>After turn-around</u>	0.15 grain/dscf	BAAQMD Condition 19278 Part 5 None	N Y/annual or every 5 years	None Source test on thermal oxidizer stack
FP	<u>BAAQMD 6-311</u>	<u>Y</u>	<u>After turn-around</u>	<u>4.10P^{0.67} lb/hr, where P is process weight, ton/hr</u>	<u>BAAQMD Condition 19278 Part 5</u>	<u>Y/annual or every 5 years</u>	<u>Source test on thermal oxidizer stack</u>
<u>SO2</u>	<u>40 CFR 60.104(a)(2)</u>	<u>Y</u>		<u>250 ppm at 0% excess air, 12-hr rolling average</u>	<u>40 CFR 60.105(a)(5)</u>	<u>C</u>	<u>CEM on thermal oxidizer stack</u>

Table VII – U
Applicable Limits and Compliance Monitoring Requirements
S1001 - SULFUR PLANT UNIT 234; S1002 - SULFUR PLANT UNIT 236;
S1003 - SULFUR PLANT UNIT 238; S301 - MOLTEN SULFUR PIT 234;
S302 - MOLTEN SULFUR PIT 236; S303 - MOLTEN SULFUR PIT 238

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
SO ₂	40 CFR 63.1568(a)(1)(i)	<u>Y</u>		250 ppm at 0% excess air, 12-hr rolling average	40 CFR 63.1572	<u>C</u>	<u>CEM on thermal oxidizer stack</u>
SO ₃ , H ₂ SO ₄	BAAQMD 6-330	Y		0.08 grain/dscf exhaust concentration of SO ₃ and H ₂ SO ₄ , expressed as 100% H ₂ SO ₄	BAAQMD Condition 19278 Part <u>23</u>	P/A	Source Test <u>on thermal oxidizer stack</u>
throughput	BAAQMD Condition 20989 19278, Part A, part 6	NY		98,915 long ton/yr for S1001, S1002, S1003, S301, S302, S303	BAAQMD Condition 20989 19278, Part 6A	P/M	records

VIII. Test Methods

This section of the permit lists test methods that are associated with standards in District or other rules. It is included only for reference. In most cases, the test methods in the rules are source test methods that can be used to determine compliance but are not required on an ongoing basis. They are not applicable requirements. If a rule or permit condition requires ongoing testing, the requirement will also appear in Section VI of the permit.

Changes to permit:

Test methods have been added for the limit in 40 CFR 60, Subpart J.

Table VIII
Test Methods

<u>Applicable Requirement</u>	<u>Description of Requirement</u>	<u>Acceptable Test Methods</u>
40 CFR 60 Subpart J, 60.104(a)(2) (i)	SO ₂ limit	EPA Method 6, Determination of sulfur dioxide emissions from stationary sources, or EPA Method 6c, Determination of Sulfur Dioxide Emissions From Stationary Sources (Instrumental Analyzer Procedure), and Method 3, Gas analysis for the determination of dry molecular weight, or Method 3A, Determination of Oxygen and Carbon Dioxide Concentrations in Emissions From Stationary Sources (Instrumental Analyzer Procedure), and Method 4, Determination of moisture content in stack gases, and Method 15, Determination of hydrogen sulfide, carbonyl sulfide, and carbon disulfide emissions from stationary sources
40 CFR 63, Subpart A, Section 63.11 (b) 40 CFR 63, Subpart UUU, Table 18	Opacity Limit	EPA Method 22, Visible Emissions

IX. Permit Shield:

No changes to permit shields are proposed in this revision.

X. Revision History

The revision history will be updated when the revision is issued.

XI. Glossary

Changes to the glossary

OMMP

Operation, Maintenance and Monitoring Plan

SMM

Startup, shutdown, and malfunction

SMMP

Startup, shutdown, and malfunction plan

VE

Visible emissions

D. Alternate Operating Scenarios

No alternate operating scenario has been requested for this facility.

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APPENDIX A

Engineering Evaluation for Application 14883

**ENGINEERING EVALUATION
CONOCOPHILLIPS SAN FRANCISCO REFINERY; PLANT 16
APPLICATION 14883**

BACKGROUND

ConocoPhillips has submitted an accelerated permit application to upgrade the sulfur pit vent system between S301-S303, Molten Sulfur Pits, and A8-A10, Stretford Evaporative Coolers. At present, the H₂S, SO₂, and elemental sulfur emissions are routed to the Stretford units using blowers. The new system will have 2 steam-jacketed ejectors per sulfur pit that will use compressed air to move the emissions.

The District and Title V permits already show that the sulfur pits are controlled by the Stretford units. The mechanics of the venting apparatus are not described in the permits, nor do they have to be described.

ConocoPhillips is upgrading the venting apparatus because the consent decree entered against Conoco on January 27, 2005 by the US District Court for the Southern District of Texas states that the sulfur pits are subject to the SO₂ standard in 40 CFR 60.104(a)(2) because they are part of the Claus sulfur recovery units, S1001-S1003. The facility has stated that the improved equipment will be more reliable and will help to ensure compliance.

The change that will be made to the District permit is the addition of a permit condition requiring abatement of the sulfur pits with a basis of the consent decree and 40 CFR 60.104(a)(2).

The District originally proposed a condition that required abatement at all times, mirroring the consent decree. The facility responded that the piping is sometimes disconnected for maintenance because the sulfur clogs the lines. To solve this problem, the facility sought an amendment of the consent decree from EPA. The first amendment to the consent decree, which also includes other items for this refinery and other ConocoPhillips refineries in the US, was published on January 11, 2007, and entered on May 1, 2007.

Paragraph 123 in the amendment to the consent decree states that:

"...The parties recognize that periodic maintenance may be required for a properly designed and operated system of conveyance of the gases to the contactor box. COPC will take all reasonable measures to minimize emissions while such periodic maintenance is being performed."

The Notice of Lodging for the amendment is attached in Appendix A. The amended pages regarding the sulfur pits, pages 18 and 19, are attached in Appendix B. The final order, dated May 1, 2007, is attached in Appendix C. The original requirement to control the sulfur pits, pages 87 and 88 of the original consent decree, is attached in Appendix D.

Evaluation Report Application 14883, ConocoPhillips, Facility A0016

Based on the amendment to the consent decree, the permit condition will allow time for maintenance without penalty.

This will be a minor revision of the Major Facility Review permit for the following reasons:

- The change is not considered a major modification for Federal NSR or PSD.
- The change is not considered a modification for NSPS or NESHAPS.
- There is no significant change or relaxation of monitoring.
- No term is established to allow the facility to avoid an applicable requirement.
- No case-by-case determination has been made.
- No facility-specific determination for ambient impacts, visibility analysis, or increment analysis on portable sources has been made.
- The requirements are not the incorporation of a requirement promulgated by EPA under the authority of the Clean Air Act..

The permit conditions will be added to the Title V permit in Application 10994, which also concerns the sulfur pits. The purpose of this application is to add the Refinery MACT requirements in 40 CFR 63, Subpart UUU, to the reformer and sulfur recovery units, and the Refinery NSPS, Subpart J, requirements to the sulfur recovery units including the sulfur pits.

EMISSION CALCULATIONS

No increase in emissions is expected.

CUMULATIVE INCREASE AND OFFSETS

Since there will be no increase in emissions, no cumulative increase will be calculated.

TOXIC RISK MANAGEMENT

This application will not be subject to BAAQMD Regulation 2, Rule 5, New Source Review of Toxic Air Contaminants, because it will not cause an increase in toxic air contaminants.

STATEMENT OF COMPLIANCE

BACT

The sources will not be subject to BACT because there will be no increase in emissions.

CEQA

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This project is exempt from CEQA pursuant to BAAQMD Regulation 2-1-312.2 because it is a project to install abatement equipment.

The facility has submitted an Appendix H form that shows no significant effect.

NSPS

EPA has determined that the sulfur pits are subject to 40 CFR 60, Subpart J, Section 104(a)(2)(i) because they are part of the sulfur recovery units.

NESHAPS

No new NESHAPS is triggered.

PSD

There is no emissions increase that would trigger PSD.

PERMIT CONDITIONS

Permit Condition 22964, parts 1-3 have been established in Application 13424. As of September 11, 2007, Application 13424 has not been finalized. However, the same condition number will be used so that in the future the sulfur pits will be subject to only one condition. The conditions established in this application will start with Part 4.

CONDITION 22964

CONDITIONS FOR S301, S302, S303, MOLTEN SULFUR PITS

4. The owner/operator shall ensure that S301, Molten Sulfur Pit, is abated by A8, Stretford Evaporative Cooler. [Consent Decree Case No. 05-0258, paragraph 123, DATE: 1/27/05; Consent Decree Case No. 05-0258 amendment, paragraph 123, DATE: 5/1/07; 40 CFR 60.104(a)(2)(i)]
5. The owner/operator shall ensure that S302, Molten Sulfur Pit, is abated by A9, Stretford Evaporative Cooler. [Consent Decree Case No. 05-0258, paragraph 123, DATE: 1/27/05; Consent Decree Case No. 05-0258 amendment, paragraph 123, DATE: 5/1/07; 40 CFR 60.104(a)(2)(i)]
6. The owner/operator shall ensure that S303, Molten Sulfur Pit, is abated by A10, Stretford Evaporative Cooler. [Consent Decree Case No. 05-0258, paragraph 123, DATE: 1/27/05; Consent Decree Case No. 05-0258 amendment, paragraph 123, DATE: 5/1/07; 40 CFR 60.104(a)(2)(i)]
7. Notwithstanding the requirements of parts 4-6, the owner/operator may disconnect the vent lines from S301, S302, and S303, Molten Sulfur Pits, to A8, A9, and A10,

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Stretford Evaporative Coolers, for periodic maintenance without penalty, as long as the owner/operator takes reasonable measures to minimize emissions while such periodic maintenance is being performed. [Consent Decree Case No. 05-0258 amendment, paragraph 123, DATE: 5/1/07]

RECOMMENDATION

Waive the authority to construct and issue a permit to operate for the following sources:

S301, Molten Sulfur Pit vented by steam jacketed air ejector or blower and
abated by A8, Stretford Evaporative Cooler

S302, Molten Sulfur Pit vented by steam jacketed air ejector or blower and
abated by A9, Stretford Evaporative Cooler

S303, Molten Sulfur Pit vented by steam jacketed air ejector or blower and
abated by A10, Stretford Evaporative Cooler

By: _____
Brenda Cabral Date
Supervising Air Quality Engineer

Evaluation Report Application 14883, ConocoPhillips, Facility A0016

Appendix A
Notice of Lodging

IN THE UNITED STATES DISTRICT COURT
FOR THE SOUTHERN DISTRICT OF TEXAS

UNITED STATES OF AMERICA,
STATE OF ILLINOIS,
STATE OF LOUISIANA,
STATE OF NEW JERSEY,
COMMONWEALTH OF PENNSYLVANIA,
NORTHWEST CLEAN AIR AGENCY,

Plaintiffs,

v.

CONOCOPHILLIPS COMPANY,

Defendant.

CIVIL ACTION NO. H-05-258

JUDGE SIM LAKE

NOTICE OF LODGING OF FIRST AMENDMENT TO CONSENT DECREE

The United States hereby lodges with the Court a First Amendment to the Consent Decree entered in December 2005 in the above-referenced case. The First Amendment is attached as Exhibit 1. Under the Consent Decree, the Defendant, ConocoPhillips Company ("COPC"), agreed to undertake, inter alia, numerous projects to reduce emissions of air pollutants at nine refineries that COPC owns and operates. Since December 2005, the parties have determined that numerous amendments to the Consent Decree are in order. The proposed First Amendment has been signed by representatives of each of the parties: the United States, the State of Illinois, the State of Louisiana, the State of New Jersey, the Commonwealth of Pennsylvania, the Northwest Clean Air Agency ("NWCAA"), and COPC.

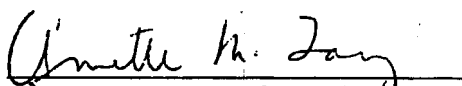
In accordance with 28 C.F.R. § 50.7 and Department of Justice policy, the approval of the Plaintiffs remains subject to public notice and comment. Specifically, this First Amendment has been lodged so that the United States Department of Justice may present the First Amendment to the public for comment, by publication of a "Notice of Lodging" in the Federal Register. The public comment period in the Federal Register will run for thirty days after the initial publication of the Notice.

Accordingly, the First Amendment should not be entered at this time. After notification of the public and review of public comments -- if any are submitted -- Plaintiffs will advise the Court of the substance of the comments and, if appropriate, ask the Court to enter the First Amendment.

Respectfully submitted,

THE UNITED STATES OF AMERICA

SUE ELLEN WOOLDRIDGE
Assistant Attorney General
Environment and Natural Resources Division
U.S. Department of Justice


ANNETTE M. LANG, Trial Attorney
D.C. Bar No. 413292
Environmental Enforcement Section
U.S. Department of Justice
P.O. Box 7611
Washington, D.C. 20044-7611
Phone: (202) 514-4213
Fax: (202) 616-6584
Attorney-in-Charge for the United States

DONALD J. DeGABRIELLE, JR.
United States Attorney
Southern District of Texas

Date: Jan 11, 2007

By: 

KEVIN C. AIMAN
Assistant United States Attorney
Southern District of Texas
Southern District Bar No. 30329
Texas Bar No. 00797884
P.O. Box 61129
Houston, Texas 77208-1129
Tel: (713) 567-9516
Fax: (713) 718-3407

CERTIFICATE OF SERVICE

I, Annette M. Lang, hereby certify that on this 11th day of January 2007, I caused a true copy of the foregoing Notice of Lodging of First Amendment to Consent Decree to be served by first-class mail, postage prepaid upon the following counsel of record:

JAMES L. MORGAN
Senior Assistant Attorney General
Illinois Bar No. 6183865
500 South Second Street
Springfield, Illinois 62706

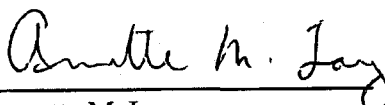
TED R. BROYLES, II (La. #20456)
Legal Affairs Division
Louisiana Department of Environmental Quality
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Baton Rouge, Louisiana 70821-4302

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Annette M. Lang

Evaluation Report Application 14883, ConocoPhillips, Facility A0016

Appendix B
Pages Regarding the Sulfur Pits

during a Scheduled Turnaround at any of these SRPs, COPC is entitled to perform that test and establish such operating limits at the first Scheduled TGU Turnaround and COPC will not be in violation of any applicable sulfur recovery plant provision of Subpart UUU based on the timing of the first performance test. This Paragraph 122A applies only during Scheduled Turnarounds of the TGUs at the Alliance, Bayway, Santa Maria, and Wood River Refineries. During all other times, COPC will comply with Option 1 of Subpart UUU, found at 40 C.F.R. § 63.1568(a)(1)(i).

* * * *

123. Elimination, Control, and/or Inclusion in Monitoring of Sulfur Pit Emissions. By no later than the following dates for the Covered SRPs, COPC will either eliminate, control, and/or include and monitor as part of a Covered SRP's emissions under 40 C.F.R. § 60.104(a)(2), all sulfur pit emissions. The LAR Wilmington Plant and the Rodeo Refinery will upgrade existing systems to meet this requirement. "Control" for purposes of this Paragraph includes routing sulfur pit emissions into a contactor box of a Beavon Stretford TGU evaporator. For purposes of this Paragraph, the pelletizer at the Santa Maria Refinery and the acid plant at the LAR Wilmington Plant are not "Covered SRPs." Routing emissions to a contactor box on a Beavon Stretford TGU evaporator is a work practice standard. Monitoring for this standard will be recordkeeping sufficient to show that the means of conveyance of the gases to the contactor box (for example, blowers, eductors, etc.) are operational. The Parties recognize that periodic maintenance may be required for a properly designed and operated system of conveyance of the gases to the contactor box. COPC will take all reasonable measures to minimize emissions while such periodic maintenance is being performed.

<u>SRP</u>	<u>Compliance Date</u>
Alliance SRP	The earlier of (i) the first SRP turnaround after 4/1/06 ; or (ii) 12/31/08
Bayway SRP	Date of Lodging
Borger SRP	6/30/06
Ferndale SRP	Date of Lodging
LAR Carson SRP	Date of Lodging
LAR Wilmington SRP	6/30/07
Rodeo SRP	6/30/06
Santa Maria SRP	The earlier of (i) the first SRP turnaround after 12/31/05; or (ii) 12/31/08
Sweeny SRP	Date of Lodging
Trainer SRP	6/30/06
Wood River SRP	Date of Lodging

123A. The Rodeo Refinery has upgraded its existing system consistent with the requirements of Paragraph 123. COPC will install enhancements to this control system at the Rodeo Refinery by no later December 31, 2008.

* * * *

124. Monitoring all Emissions Points and Installing CEMS. By no later than the following dates for the Covered SRPs, COPC will monitor all tail gas emission points (stacks) to the atmosphere from the respective SRP and will install and operate a CEMS in accordance with NSPS Subpart J, except where COPC timely submits an AMP:

Evaluation Report Application 14883, ConocoPhillips, Facility A0016

Appendix C
Final Order

IN THE UNITED STATES DISTRICT COURT
FOR THE SOUTHERN DISTRICT OF TEXAS
HOUSTON DIVISION

UNITED STATES OF AMERICA,
STATE OF ILLINOIS,
STATE OF LOUISIANA,
STATE OF NEW JERSEY,
COMMONWEALTH OF PENNSYLVANIA,
NORTHWEST CLEAN AIR AGENCY,

Plaintiffs,

v.

CONOCOPHILLIPS COMPANY,

Defendant.

NO. H-05-0258

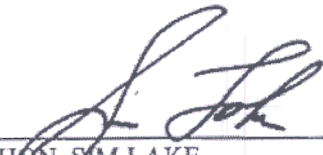
JUDGE SIM LAKE

ORDER

The Court **GRANTS** the Unopposed Motion of the United States to Amend/Vacate Docket Entry No. 36 and Enter in its stead Docket Entry No. 33-2, and **ORDERS THAT:**

- 1) The document signed by the Court and carried as Docket Entry No. 36, is vacated.
- 2) The Court has separately signed and dated a copy of Docket Entry No. 33-2. This signed Docket Entry No. 33-2 shall be carried on the docket as the Entry of the First Amendment to the Consent Decree.

SIGNED: May 1, 2007



HON. SIM LAKE
UNITED STATES DISTRICT JUDGE

Evaluation Report Application 14883, ConocoPhillips, Facility A0016

Appendix D
Pages 87 and 88 of original order

Trainer SRP

SRU 41
SRU 42

4/11/05

Wood River SRP

SRU A
SRU C
SRU D

Date of Lodging

The SRPs set forth in this Paragraph will constitute the "Covered SRPs" for purposes of this Decree.

Compliance with NSPS Emission Limits. On and after the date of NSPS applicability for the Covered SRPs, COPC will, for all periods of operation of a Covered SRP, comply with 40 C.F.R. § 60.104(a)(2), except during periods of startup, shutdown or Malfunction of the SRP or Malfunction of the TGU or as provided in Paragraph 134.

121. Compliance with NSPS Operation and Maintenance Requirements. At all times on and after the date of NSPS applicability for the Covered SRPs, including periods of startup, shutdown, and Malfunction, COPC will, to the extent practicable, operate and maintain the SRPs and associated air pollution control equipment in a manner consistent with good air pollution control practices for minimizing emissions pursuant to 40 C.F.R. § 60.11(d).

Compliance with Consent Decree Constitutes Compliance with Certain NSPS Subpart A Requirements. For SRPs that become affected facilities under NSPS Subpart J pursuant to Paragraph 119, entry of this Consent Decree and compliance with the relevant monitoring requirements of this Consent Decree for SRPs will satisfy the notice requirements of 40 C.F.R. § 60.7(a) and the initial performance test requirement of 40 C.F.R. § 60.8(a).

Elimination, Control, and/or Inclusion in Monitoring of Sulfur Pit Emissions. By no later than the following dates for the Covered SRPs, COPC will either eliminate, control, and/or include and monitor as part of a Covered SRP's emissions under 40 C.F.R.

§ 60.104(a)(2), all sulfur pit emissions. The LAR Wilmington Plant and the Rodeo Refinery will upgrade existing systems to meet this requirement. "Control" for purposes of this Paragraph includes routing sulfur pit emissions into a contactor box of a Beavon Stretford TGU evaporator. For purposes of this Paragraph, the pelletizer at the Santa Maria Refinery and the acid plant at the LAR Wilmington Plant are not "Covered SRPs."

<u>SRP</u>	<u>Compliance Date</u>
Alliance SRP	The earlier of (i) the first SRP turnaround after 12/31/05; or (ii) 12/31/08
Bayway SRP	Date of Lodging
Borger SRP	6/30/06
Ferndale SRP	Date of Lodging
LAR Carson SRP	Date of Lodging
LAR Wilmington SRP	6/30/07
Rodeo SRP	6/30/06
Santa Maria SRP	The earlier of (i) the first SRP turnaround after 12/31/05; or (ii) 12/31/08
Sweeny SRP	Date of Lodging
Trainer SRP	6/30/06
Wood River SRP	Date of Lodging

124. Monitoring all Emissions Points and Installing CEMS. By no later than the following dates for the Covered SRPs, COPC will monitor all tail gas emission points (stacks) to the atmosphere from the respective SRP and will install and operate a CEMS in accordance with NSPS Subpart J, except where COPC timely submits an AMP: