Bay Area Air Quality Management District

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

Permit Evaluation and Statement of Basis for Minor Revision of

MAJOR FACILITY REVIEW PERMIT

for ConocoPhillips – San Francisco Refinery Facility #A0016

Facility Address:

1380 San Pablo Avenue Rodeo, CA 94572

Mailing Address:

1380 San Pablo Avenue Rodeo, CA 94572

July 2007

Application Engineer: Brenda Cabral Site Engineer: Brenda Cabral

Application: 12931

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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 Title 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, of 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.

Each facility in the Bay Area is assigned a facility identifier that consists of a letter and a 4-digit number. This identifier is also considered to be the identifier for the permit. The identifier for this facility is A0016.

This facility received its initial Title V permit on December 1, 2003. The permit was reopened and re-issued on December 16, 2004 and April 12, 2005. Minor revisions were issued on April 12, 2005, January 5, 2006, and March 2, 2006. A significant revision was issued on January 5, 2006. Section X of the permit, Revision History, has a list of these revisions in chronological order.

This application is for a minor revision to the permit. This statement of basis will include all proposed changes to the permit in strikeout/underline format. This statement of basis addresses only the proposed changes to the permit. The statements of basis for the permits issued on December 1, 2003, and December 16, 2004 contain the basis for most of the rest of the permit. Additional issues were addressed in the documents for the revisions listed above.

The US District Court for the Southern District of Texas entered a consent decree against Conoco on January 27, 2005. Conoco submitted Application 12931 on July 1, 2005, to incorporate the following provisions:

- All heaters and boilers that were not previously subject to 40 CFR 60, Subpart J (Subpart J), are now considered to be "affected facilities" even though they were built before June 11, 1973.
- All Claus sulfur recovery units that were not previously subject to Subpart J are now considered to be "affected facilities" even though they were built before October 4, 1976.

• Heaters will not be allowed to burn fuel oil except during periods of natural gas curtailment, test runs, or operator training. This provision affects only sources S3 and S7 because they were the only heaters or boilers that had permits to burn liquid fuels.

The changes to the requirements for Claus units will be handled in Application 10994, which was submitted on October 7, 2004, to incorporate the requirements of a refinery NESHAPS, 40 CFR 63, Subpart UUU. The reformers and Claus units are affected by this application. The changes to heaters and boilers will be handled in Application 12931.

This action does not incorporate all of the provisions in the consent decree. Conoco will have to submit applications in the future to incorporate other provisions. This action will not have an effect on emissions for the following reasons: (1) Conoco's fuel gas system already complies with Subpart J because the facility has heaters that are subject to Subpart J due to their date of construction, and (2) sources S3 and S7 have not burned liquid fuels in the last ten years.

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

- The change is not considered a major modification under 40 CFR Parts 51 (NSR) or 52 (PSD).
- The change is not considered a modification under 40 CFR Parts 60 (NSPS), 61 (NESHAPS), or Section 112 of the Clean Air Act (HAP).
- 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 limits are not the incorporation of a requirement promulgated by EPA under the authority of the Clean Air Act.

B. Facility Description

This facility is an oil refinery. For a complete description, see the Statement of Basis for Application 9296.

C. Permit Content

The legal and factual basis for the permit revision follows. The permit sections are described in the order presented in the permit.

I. Standard Conditions

This section contains administrative requirements and conditions that apply to all facilities.

Changes to permit

There are no changes to Section I in this action.

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., A24).

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.

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.

Changes to permit:

The heaters are shown here for information. The heaters affected by the change are those with source numbers between S2 and S31. The rest of the heaters are shown because some NSPS citations will be corrected in this action.

The mention of naphtha fuel for S3 and S7 has not been deleted because the fuel may still be burned during periods of natural gas curtailment, for test runs, or for operator training.

The fuel used has been added to the engines, S53-S59, for clarification. This is an administrative amendment in accordance with BAAQMD Regulation 2-6-201.

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
	U229, B-301 Heater	Petro-Chem	process	22 MMbtu/hr
2	(natural gas, refinery fuel gas)		heater	
	U230, B-201 Heater	Petro-Chem	process	62 MMbtu/hr
	(natural gas, refinery fuel gas,		heater	
3	naphtha)			
	U231, B-101 Heater	Braun	process	96 MMbtu/hr
4	(natural gas, refinery fuel gas)		heater	
	U231, B-102 Heater	Braun	process	104 MMbtu/hr
5	(natural gas, refinery fuel gas)		heater	
	U231, B-103 Heater	Petro-Chem	process	64 MMbtu/hr
	(natural gas, refinery fuel gas,		heater	
7	naphtha)			
	U240, B-1 Boiler	Combustion	process	256 MMbtu/hr
8	(natural gas, refinery fuel gas)	Engineering	heater	
	U240, B-2 Boiler	Born	process	61 MMbtu/hr
9	(natural gas, refinery fuel gas)		heater	
	U240, B-101 Heater	Foster-Wheeler	process	223 MMbtu/hr
10	(natural gas, refinery fuel gas)		heater	
- 10	U240, B-201 Heater	Econo-Therm	process	108 MMbtu/hr
11	(natural gas, refinery fuel gas)	Leono Inemi	heater	100 1/11/1000/11
	U240, B-202 Heater	Econo-Therm	process	42 MMbtu/hr
12	(natural gas, refinery fuel gas)	Leono Therm	heater	12 111110 tu, 11
- 12	U240, B-301 Heater	Born	process	194 MMbtu/hr
13	(natural gas, refinery fuel gas)	Bom	heater	19 1 William
- 13	U240, B-401 Heater	Selas	process	556 MMbtu/hr
14	(natural gas, refinery fuel gas)	Scias	heater	330 Wilviota/III
17	U244, B-501 Heater	Alcorn	process	239.75 MMbtu/hr total
15	(natural gas, refinery fuel gas)	Alcom	heater	for S15 through S19
13	U244, B-502 Heater	Alcorn	process	239.75 MMbtu/hr total
16	(natural gas, refinery fuel gas)	Alcom	heater	for S15 through S19
10	U244, B-503 Heater	Alcorn	process	239.75 MMbtu/hr total
17	(natural gas, refinery fuel gas)	Alcom	heater	for S15 through S19
1,	U244, B-504 Heater	Alcorn	process	239.75 MMbtu/hr total
18	(natural gas, refinery fuel gas)	7 HCOIII	heater	for S15 through S19
10	U244, B-505 Heater	Alcorn	process	239.75 MMbtu/hr total
19	(natural gas, refinery fuel gas)	7 HCOIII	heater	for S15 through S19
17	U244, B-506 Heater	Econo-Therm	process	23 MMbtu/hr
20	(natural gas, refinery fuel gas)	ECOHO-THEITH	heater	23 IVIIVIUU/III
20	U244, B-507 Heater	Econo-Therm	process	8.1 MMbtu/hr
21	(natural gas, refinery fuel gas)	ECOHO-THEITH	heater	0.1 IVIIVIUU/III
<u> </u>	U248, B-606 Heater	Econo-Therm		31 MMbtu/hr
22	(natural gas, refinery fuel gas)	ECOHO-THEITH	process heater	51 IVIIVIUU/III
	U200, B-5 Heater	Foster-Wheeler		103 MMbtu/hr
29	(natural gas, refinery fuel gas)	roster-wheeler	process heater	103 IVIIVIUIU/III
29	U200, B-101 Heater	Patro Chem		50 MMbtu/hr
20		Petro-Chem	process	JO IVIIVIOLU/III
30	(natural gas, refinery fuel gas)	Datus Ch	heater	20 MMhtu/k::
21	U200, B-501 Heater	Petro-Chem	process	20 MMbtu/hr
31	(natural gas, refinery fuel gas)	1	heater	

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
<i>5 </i>	U200, B-102 Heater	NA NA	process	82.1 MMbtu/hr
36	(natural gas, refinery fuel gas)	1471	heater	02.1 WINDOW/III
	U200, B-202 Heater		process	230 MMbtu/hr
43	(natural gas, refinery fuel gas)		heater	
	U200, B-201 PCT Reboil		process	46 MMbtu/hr
	Furnace		heater	
44	(natural gas, refinery fuel gas)			
		Cummins	6B-5.9, 97	<100 hr/yr operation
	SPP Emergency Generator G-27		hp	(excluding emergency
53	(diesel fuel)			use)
		Waukesha Scania	F647DSUF,	<100 hr/yr operation
	Pump Station 3 CP-198		258 hp	(excluding emergency
54	Emergency Engine (diesel fuel)			use)
	!	Waukesha Scania	F647DSUF,	<100 hr/yr operation
	Pump Station 3 CP-199		258 hp	(excluding emergency
55	Emergency Engine (diesel fuel)			use)
	!	Caterpillar	3406, 370	<100 hr/yr operation
	Pump Station 4 G-201A		hp	(excluding emergency
56	Emergency Engine (diesel fuel)			use)
		Caterpillar	3406, 370	<100 hr/yr operation
	Pump Station 4 G-201B		hp	(excluding emergency
57	Emergency Engine (diesel fuel)			use)
		Caterpillar	3406, 370	<100 hr/yr operation
50	Pump Station 4 G-422A		hp	(excluding emergency
58	Emergency Engine (diesel fuel)	C . 31	2406.270	use)
	Pump Station 4 G-422B	Caterpillar	3406, 370	<100 hr/yr operation
59	Emergency Engine (diesel fuel)		hp	(excluding emergency use)
39	U231 B-104 Heater	Foster-Wheeler	process	111 MMbtu/hr
336	(natural gas, refinery fuel gas)	roster-wheeler	process heater	111 IVIIVIOLU/III
330	U231 B-105 Heater	Foster-Wheeler		34 MMbtu/hr
337	(natural gas, refinery fuel gas)	Poster-Wheeler	process heater	54 WIWIOtu/III
331	U267 B-601/602 Tower Pre-		neater	95 MMbtu/hr
	heaters) Trinioumin
351	(natural gas, refinery fuel gas)			
	Combustion Turbine	Westinghouse	191	291,MMbtu/hr
352	(natural gas, refinery fuel gas)			continuously
	Combustion Turbine	Westinghouse	191	291,MMbtu/hr
353	(natural gas, refinery fuel gas)	<i>Q</i>		continuously
	Combustion Turbine	Westinghouse	191	291,MMbtu/hr
354	(natural gas, refinery fuel gas)			continuously
	Supplemental Firing Duct	Coen		175 MMbtu/hr
	Burners			
355	(natural gas, refinery fuel gas)			
	Supplemental Firing Duct	Coen		175 MMbtu/hr
	Burners			
356	(natural gas, refinery fuel gas)			

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	iption Make or Type		Capacity
	Supplemental Firing Duct	Coen		175 MMbtu/hr
	Burners			
357	(natural gas, refinery fuel gas)			
	U228 B-520 (Adsorber Feed)	Selas		58 MMbtu/hr for S371,
	Furnace			372
371	(natural gas, refinery fuel gas)			
	U228 B-521 (Hydrogen Plant)	Selas		58 MMbtu/hr for S371,
	Furnace			372
372	(natural gas, refinery fuel gas)			
	U110, H-1 (H2 Plant	John Zinc PFFG burners	reforming	250 MMbtu/hr
	Reforming) Furnace		furnace	
	(natural gas, refinery fuel gas,			
438	PSA offgas)			
	U250, B-701 Heater	NA	process	50.2 MMbtu/hr
461	(natural gas, refinery fuel gas)		heater	

III. Generally Applicable Requirements

This section of the permit lists requirements that generally apply to all sources at a facility including insignificant sources and portable equipment that may not require a District permit. If a generally applicable requirement applies specifically to a source that is permitted or significant, the standard will also appear in Section IV and the monitoring for that requirement will appear in Sections IV and VII of the permit. Parts of this section apply to all facilities (e.g., particulate, architectural coating, odorous substance, and sandblasting standards). In addition, standards that apply to insignificant or unpermitted sources at a facility (e.g., refrigeration units that use more than 50 pounds of an ozone-depleting compound) are placed in this section.

Unpermitted sources are exempt from normal District permits pursuant to an exemption in BAAQMD Regulation 2, Rule 1. They may, however, be specifically described in a Title V permit if they are considered significant sources pursuant to the definition in BAAQMD Rule 2-6-239.

Changes to permit

No changes to this section are proposed in this action.

IV. Source-Specific Applicable Requirements

This section of the permit lists the applicable requirements that apply to 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) are listed following the corresponding District rules. SIP rules are District rules that have been approved by EPA for inclusion in 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 portion of the SIP rule is cited separately after the District rule. The SIP portion will be federally enforceable; the non-SIP version will not be federally enforceable, unless EPA has approved it 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. 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 monitoring is included in Section C.VII of this permit evaluation/statement of basis.

Changes to permit:

Section G.110 of the Consent Decree requires that all heaters and boilers at the refinery that are not already subject to 40 CFR 60, Subparts A and J, become "affected facilities" as defined in Section 100. Therefore, these requirements will be added to the Section IV tables for these sources.

The substantive requirements are that the combustion devices may not burn fuel gas with an H2S content above 0.10 gr/dscf and that the H2S content of the fuel gas must be continuously monitored. The sources will comply because there is only one source of fuel gas, the fuel gas system. Since other sources at the refinery have been subject to the standard, the refinery maintains all of the fuel gas below the limit and continuously monitors the concentration.

Tables IV – A.1-A.23 Source-specific Applicable Requirements COMBUSTION DEVICES-S2-S5, S7-22, S29-S31

	COMBUSTION DEVICES-52-53, 57-22, 527-5	Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
40 CFR 60,	General Provisions (2/12/98)		
Subpart A			
60.7(b)	Records	<u>Y</u>	
<u>60.7(c)</u>	Notification and recordkeeping for continuous monitoring	<u>Y</u>	
60.7(d)	Summary reports	<u>Y</u>	
60.7(e)	Reduction of frequency of summary reports	<u>Y</u>	
<u>60.7(f)</u>	Records	<u>Y</u>	
60.7(g)	Alternative Notification	<u>Y</u>	
60.7(h)	Specific Provisions	<u>Y</u>	
60.8	Performance Tests	<u>Y</u>	
60.11	Compliance with Standards and Maintenance Requirements	<u>Y</u>	
60.11(a)	Compliance determined by performance tests	<u>Y</u>	
<u>60.11(d)</u>	Control devices operated using good air pollution control practice	<u>Y</u>	
60.13	Monitoring requirements	<u>Y</u>	
60.13(a)	Continuous monitoring systems subject to Appendix B, and Appendix	<u>Y</u>	
	F, (if used to demonstrate compliance with continuous emission		
60.13(b)	limits), of Part 60 Continuous monitoring systems and devices operational prior to performance tests required by 60.8	<u>Y</u>	
60.13(d)(1)	Continuous monitoring system zero and span calibration requirements	<u>Y</u>	
60.13(e)	Continuous monitoring system minimum frequency of operation	<u>Y</u>	
60.13(e)(2)	Continuous monitoring system minimum frequency of operation for non-opacity-measuring devices	<u>Y</u>	
60.13(f)	Continuous monitoring system installation location requirement	<u>Y</u>	
NSPS	Standards of Performance for Petroleum Refineries (7/1/00)		

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Tables IV – A.1-A.23 Source-specific Applicable Requirements COMBUSTION DEVICES-S2-S5, S7-22, S29-S31

		Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
40 CFR 60,			
Subpart J			
60.100	Applicability	<u>Y</u>	
60.104	Standards for Sulfur Oxides: Compliance Schedule	<u>Y</u>	
60.104(a)(1)	fuel gas H2S concentration limited to 230 mg/dscm (0.10 gr/dscf)	<u>Y</u>	
	except for gas burned as a result of process upset or gas burned at		
	flares from relief valve leaks or other emergency malfunctions		
60.105	Monitoring of Emissions and Operations	<u>Y</u>	
60.105(a)(4)	monitoring requirement for H2S (dry basis) in fuel gas prior to	<u>Y</u>	
	combustion (in lieu of separate combustion device exhaust SO2		
	monitors as required by 60.105(a)(3))		
60.105(e)(3)	Excess H2S emission definitions for 60.7(c)	<u>Y</u>	
<u>(ii)</u>			
60.106(a)	<u>Test methods and procedures</u>	<u>Y</u>	
60.106(e)(1)	Method 11 shall be used to verify compliance with 60.104(a)(1)	<u>Y</u>	
NSPS	Appendix A to Part 60 – Test Methods	<u>Y</u>	
40 CFR 60,			
Appendix A			
NSPS	Performance Specifications		
40 CFR 60			
Appendix B			
<u>Performance</u>	H2S continuous emission monitoring systems	<u>Y</u>	
Specification 7			

Appendix F of the NSPS, Quality Assurance Procedures, does not apply. The standard states that it applies to fluid catalytic cracking unit catalyst regenerators, but does not state that it applies to the H2S monitors for combustion sources.

Appendix B of the NSPS is being added to the Section IV tables for S336, S337, and S461 because it was omitted in error. The appendices contain performance specifications and quality assurance procedures for continuous monitoring systems.

Tables IV – A.29, A.30, A.35 Source-specific Applicable Requirements COMBUSTION DEVICES-S336, S337, S461

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
NSPS	Performance Specifications		
40 CFR 60			
Appendix B			
Performance	H2S continuous emission monitoring systems	<u>Y</u>	
Specification 7			

Additional Complex Applicability Determinations

40 CFR 63, Subpart DDDDD

The National Emission Standards for Hazardous Air Pollutants for

Industrial/Commercial/Institutional Boilers and Process Heaters, 40 CFR 63, Subpart DDDDD, was promulgated on September 13, 2004. It was amended and renamed on December 28, 2005. The existing heaters and boilers are not subject to this standard because there are no limits for existing gas-fired heaters. The new heaters, S36 and S461, are subject to the standards. The requirements will be added in a future action. The facility is required to comply with all applicable requirements in the standard even if they are not currently contained in the District or Title V permits.

V. Schedule of Compliance

A schedule of compliance is required in all Title V permits pursuant to BAAQMD Regulation 2-6-409.10 which 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."

The permit currently contains the following schedules of compliance:

C. CUSTOM SCHEDULE OF COMPLIANCE

The owner/operator is out of compliance with 40 CFR 61, Subpart FF, National Emission Standard for Benzene Waste Operations because the refinery generates more than 10 Mg benzene/yr. Therefore, the District is imposing the following Schedule of Compliance.

1. The owner/operator shall comply with the "6 BQ" option in accordance with 40 CFR 61.342(e).

Milestones

- 2. By May 30, 2006, the owner/operator shall submit a plan to EPA and to the District that identifies with specificity, the compliance strategy and schedule that the owner/operator will implement to ensure that the refinery complies with the 6 BQ compliance option by May 30, 2007.
- 3. By July 31, 2006, the owner/operator shall submit an application to the District that shows the applicable requirements from the Benzene Waste NESHAP in detail for each source within the refinery to which it applies. A copy of the application shall be sent to EPA Region 9.
- 4. By June 29, 2007, the owner/operator shall submit a certification and a report to the District and to EPA stating that the refinery complies with the Benzene Waste NESHAP.

Reporting Requirements

Progress reports shall be submitted every six months together with the monitoring reports required by Standard Condition I.F. The progress reports shall contain the date by which the item in the custom schedule of compliance was achieved or an explanation of why the item was not achieved by the above date and any corrective measures adopted.

In accordance with 40 Code of Federal Regulations, section 70.5(c)(8)(iii)(c), this schedule of compliance is supplemental to, and does not sanction noncompliance with, the requirements addressed herein.

D. CUSTOM SCHEDULE OF COMPLIANCE

The owner/operator is out of compliance with the requirement in 40 CFR 60 Subpart J 60.105(a)(4) to continuously verify the H2S concentration in gas combusted at S438, U110, H-1 (H2 Plant Reforming) Furnace. Therefore, the District is imposing the following Schedule of Compliance.

Milestones

The proposed alternative monitoring plan was submitted to U.S. EPA in a letter dated May 11, 2004.

Reporting Requirements

Progress reports shall be submitted every six months together with the monitoring reports required by Standard Condition I.F. The progress reports shall contain the date by which the item in the custom schedule of compliance was achieved or an explanation of why the item was not achieved by the above date and any corrective measures adopted.

In accordance with 40 Code of Federal Regulations, section 70.5(c)(8)(iii)(c), this schedule of compliance is supplemental to, and does not sanction noncompliance with, the requirements addressed herein.

E. CUSTOM SCHEDULE OF COMPLIANCE

The owner/operator is out of compliance with the requirement in 40 CFR 60 Subpart J 60.105(a)(4) to continuously verify the H2S concentration in Unicracker (UK) sweet gas. This gas is burned at S438, U110, H-1 (H2 Plant Reforming) Furnace, and S352-S357, combustion turbines and duct burners. Therefore, the District is imposing the following Schedule of Compliance.

Milestones

The proposed alternative monitoring plan was submitted to U.S. EPA in a letter dated May 11, 2004.

Reporting Requirements

Progress reports shall be submitted every six months together with the monitoring reports required by Standard Condition I.F. The progress reports shall contain the date by which the item in the custom schedule of compliance was achieved or an explanation of why the item was not achieved by the above date and any corrective measures adopted.

In accordance with 40 Code of Federal Regulations, section 70.5(c)(8)(iii)(c), this schedule of compliance is supplemental to, and does not sanction noncompliance with, the requirements addressed herein.

F. CUSTOM SCHEDULE OF COMPLIANCE

The owner/operator is out of compliance with the requirement in 40 CFR 60 Subpart J 60.105(a)(4) to continuously verify the H2S concentration in natural gas combusted at S352-S357, combustion turbines and duct burners. Therefore, the District is imposing the following Schedule of Compliance.

Milestones

The proposed alternative monitoring plan was submitted to U.S. EPA in a letter dated May 11, 2004.

Reporting Requirements

Progress reports shall be submitted every six months together with the monitoring reports required by Standard Condition I.F. The progress reports shall contain the date by which the item in the custom schedule of compliance was achieved or an explanation of why the item was not achieved by the above date and any corrective measures adopted.

In accordance with 40 Code of Federal Regulations, section 70.5(c)(8)(iii)(c), this schedule of compliance is supplemental to, and does not sanction noncompliance with, the requirements addressed herein.

The District is proposing no changes to the schedule of compliance section.

VI. Permit Conditions

The Major Facility Review permit contains conditions that 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.

When necessary to meet Title V requirements, additional monitoring, recordkeeping, or reporting has been added to the permit.

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

All changes to existing permit conditions that are proposed in this action 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.

Changes to permit:

CONDITION 1694

CONDITIONS FOR COMBUSTION SOURCES AND SO2 CAP, EXCEPT FOR GAS TURBINES AND DUCT BURNERS

- A. Heater Firing Rate Limits and General Requirements
- 2a. All sources shall use only refinery fuel gas and natural gas as fuel, EXCEPT for S438 which may also use pressure swing adsorption (PSA) off gas as fuel, and EXCEPT for S3 and S7 which may also use naphtha fuel during periods of natural gas curtailment, test runs, or for

operator training. [Regulation 9-1-304 (sulfur content), Regulation 2, Rule 1, Consent Decree Case No. 05-0258, DATE: 1/27/05] Amended Application 12931

- 2b. Sources S3 and S7 are permitted to use naphtha fuel only during periods of natural gas curtailment, test runs, or for operator training. These sources shall be monitored for visible emissions during tube cleaning. If any visible emissions are detected when the operation commences, corrective action shall be taken within one day, and monitoring shall be performed after the corrective action is taken. If no visible emissions are detected, monitoring shall be performed on an hourly basis. [Regulation 2-6-409.2, Consent Decree Case No. 05-0258, DATE: 1/27/05] Amended Application 12931
- 2c. Sources S3 and S7 are permitted to use naphtha fuel only during periods of natural gas curtailment, test runs, or for operator training. These sources shall be monitored for visible emissions before each 1 million gallons of liquid fuel is combusted at each source. If an inspection documents visible emissions, a Method 9 evaluation shall be completed within 3 working days, or during the next scheduled operating period if the specific unit ceases firing on liquid fuel within the 3 working day time frame. [Regulation 2-6-409.2, Consent Decree Case No. 05-0258, DATE: 1/27/05]. Amended Application 12931
- 6. Sources listed below are affected facilities under NSPS Subpart J and are subject to the application requirements of NSPS Subparts A and J for fuel gas combustion devices.

 [Consent Decree Case No. 05-0258, DATE: 1/27/05]

<u>S2</u>	U229/B301
S 3	U230/B201
S4	U231/B101
S5	U231/B102
S7	U231/B103
S8	U240/B1
S9	U240/B2
S10	U240/B101
S11	U240/B201
S12	U240/B202
S13	U240/B301
S14	U240/B401
S15-S19	U244/B501-B505
S20	U244/B506
S21	U244/B507
S22	U244/B606
S29	U200/B5
S30	U200/B101
S31	U200/B501

VII. Applicable Limits and Compliance Monitoring Requirements

This section of the permit is a summary of numerical limits and related monitoring requirements for each source. The summary includes a citation for each monitoring requirement, frequency of monitoring, and type of monitoring. 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:

The NSPS limit and monitoring has been added to the Section VII tables for these combustion units.

Tables VII – A.1-A.23 Applicable Limits and Compliance Monitoring Requirements COMBUSTION DEVICES-S2-S5, S7-22, S29-S31

			Future		Monitoring	Monitoring	
Type of	Citation	FE	Effective		Requirement	Frequency	Monitoring
Limit	of Limit	Y/N	Date	Limit	Citation	(P/C/N)	Type
H2S	40 CFR	Y		fuel gas H2S concentration	40 CFR	С	H2S
	60.104(a)			limited to 230 mg/dscm	60.105(a)(4)		analyzer
	(1)			(0.10 gr/dscf)			

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 IV of the permit.

Changes to permit

No changes are proposed to this section in this action.

IX. Permit Shield:

Changes to permit:

This action proposes no changes to permit shields.

X. Revision History

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

XI. Glossary

Changes to permit:

This action proposes no changes to the glossary.

D. Alternate Operating Scenarios:

No alternate operating scenario has been requested for this facility.

APPENDIX A GLOSSARY

ARB

Air Resources Board

BAAOMD

Bay Area Air Quality Management District

BACT

Best Available Control Technology

Rasis

The underlying authority that allows the District to impose requirements.

CAA

The federal Clean Air Act

CAAOS

California Ambient Air Quality Standards

CEM

Continuous Emission Monitor

CEOA

California Environmental Quality Act

CFR

The Code of Federal Regulations. 40 CFR contains the implementing regulations for federal environmental statutes such as the Clean Air Act. Parts 50-99 of 40 CFR contain the requirements for air pollution programs.

CO

Carbon Monoxide

Cumulative Increase

The sum of permitted emissions from each new or modified source since a specified date pursuant to BAAQMD Rule 2-1-403, Permit Conditions (as amended by the District Board on 7/17/91) and SIP Rule 2-1-403, Permit Conditions (as approved by EPA on 6/23/95). Cumulative increase is used to determine whether threshold-based requirements are triggered.

District

The Bay Area Air Quality Management District

dscf

Dry Standard Cubic Feet

EPA

The federal Environmental Protection Agency.

Federally Enforceable, FE

All limitations and conditions which are enforceable by the Administrator of the EPA including those requirements developed pursuant to 40 CFR Part 51, subpart I (NSR), Part 52.21 (PSD), Part 60 (NSPS), Part 61 (NESHAPs), Part 63 (MACT), and Part 72 (Permits Regulation, Acid Rain), including limitations and conditions contained in operating permits issued under an EPA approved program that has been incorporated into the SIP.

FP

Filterable Particulate as measured by BAAQMD Method ST-15, Particulate.

MOP

The District's Manual of Procedures.

NAAQS

National Ambient Air Quality Standards

NESHAPS

National Emission Standards for Hazardous Air Pollutants. See in 40 CFR Parts 61 and 63.

NH3

Ammonia

NOx

Oxides of nitrogen.

NSPS

Standards of Performance for New Stationary Sources. Federal standards for emissions from new stationary sources. Mandated by Title I, Section 111 of the Federal Clean Air Act, and implemented by 40 CFR Part 60 and District Regulation 10.

NSR

New Source Review. A federal program for pre-construction review and permitting of new and modified sources of pollutants for which criteria have been established in accordance with Section 108 of the Federal Clean Air Act. Mandated by Title I of the Federal Clean Air Act and implemented by 40 CFR Parts 51 and 52 and District Regulation 2, Rule 2. (Note: There are additional NSR requirements mandated by the California Clean Air Act.)

Offset Requirement

A New Source Review requirement to provide federally enforceable emission offsets for the emissions from a new or modified source. Applies to emissions of POC, NOx, PM10, and SO2.

POC

Precursor Organic Compounds

PM

Particulate Matter

PM10

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

PSD

Prevention of Significant Deterioration. A federal program for permitting new and modified sources of those air pollutants for which the District is classified "attainment" of the National Air Ambient Quality Standards. Mandated by Title I of the Act and implemented by both 40 CFR Part 52 and District Regulation 2, Rule 2.

SCR

Selective Catalytic Reduction

SIP

State Implementation Plan. State and District programs and regulations approved by EPA and developed in order to attain the National Air Ambient Quality Standards. Mandated by Title I of the Act.

SO2

Sulfur dioxide

Title V

Title V of the federal Clean Air Act. Requires a federally enforceable operating permit program for major and certain other facilities.

TRMP

Toxic Risk Management Plan

VOC

Volatile Organic Compounds

Units of Measure:

bhp = brake-horsepower
btu = British Thermal Unit
cfm = cubic feet per minute
g = grams

gal gallon gallons per minute gpm = horsepower hp = hr hour lb = pound in inches maximum max = m^2 square meter = minute min million mm = million btu MMbtu = million cubic feet MMcf = parts per million, by volume = ppmv parts per million, by weight ppmw = psia = pounds per square inch, absolute pounds per square inch, gauge psig = scfm = standard cubic feet per minute = year yr