SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT
21865 Copley Drive, Diamond Bar, CA 91765

FACILITY PERMIT TO OPERATE
ULTRAMAR INC (NSR USE ONLY)

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
PROCESS 15: STEAM GENERATION					
SYSTEM 4: BOILER					
BOILER, 86-B-9002, REFINERY GAS, RENTECH BOILER SYSTEMS, MODEL BAF-200/250, 245 MMBTU/HR WITH A/N: 527884 Permit to Construct Issued: TBD BURNER, REFINERY GAS, COEN, DAF-42,WITH LOW NOX BURNER, 245 MMBTU/HR	D1550	C1551	NOX: MAJOR SOURCE; SOX: MAJOR SOURCE	**CO:** 2000 PPMV (5)[**RULE 407, 4-2-1982**]; **CO:** 50 PPMV (4) [**RULE 1303(a)(1)-BACT, 5-10-1996;** RULE 1303(a)(1)-BACT, 12-6-2002] **NOX:** 0.015 LBS/MMBTU (8) [**CONSENT DECREE VALERO, 6-16-2005**]; **NOX**: 9 PPMV (4) [**RULE 2005, 6-3-2011**]; **NOX:** 7 PPMV (Monthly) (4) [**RULE 2005, 6-3-2011**]; **PM:** 11 LBS/HR (5A) [**RULE 476, 10-8-1976**]; **PM:** 0.01 GRAINS/SCF (5B) [**RULE 476, 10-8-1976**] **PM:** 0.1 GRAINS/SCF (5) [**RULE 409, 8-7-1981**]	A1.2, A63.x , A99.6, A195.1, A195.16, A327.1, B61.1. B61.2, D29.10, D29.x1, D82.5, D90.3, H23.5, H23.28, K67.10
VESSEL, DEAERATOR, 86-V-1, HEIGHT: 10 FT ; DIAMETER: 7 FT A/N: 527884 Permit to Construct Issued: TBD	D1552				

* (1)(1A)(1B)Denotes RECLAIM emission factor (2)(2A)(2B)Denotes RECLAIM emission rate
(3) Denotes RECLAIM concentration limit (4) Denotes BACT emission limit
(5)(5A)(5B)Denotes command and control emission limit (6) Denotes air toxic control rule limit
(7) Denotes NSR applicability limit (8)(8A)(8B)Denotes 40 CFR limits(e.g. NSPS, NESHAPS, etc.)
(9) See App B for Emission Limits (10) See Section J for NESHAP/MACT requirements

** Refer to Section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.

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The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
DRUM, BOILER BLOWDOWN, 86-V-2, LENGTH: 6 FT ; DIAMETER: 4 FT A/N: 527884 Permit to Construct Issued: TBD	D1553				
TANK, OXYGEN SCAVENGER, 86-TK-2, PORTABLE A/N: 527884 Permit to Construct Issued: TBD	D1554				
TANK, DISPERSENT/POLYMER, 86-TK-3, PORTABLE A/N: 527884 Permit to Construct Issued: TBD	D1555				
TANK, AMINE, 86-TK-4, PORTABLE A/N: 527884 Permit to Construct Issued: TBD	D1556				

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
PROCESS 16: POWER GENERATION					
SYSTEM 1: COGENERATION					S31.x

* (1)(1A)(1B)Denotes RECLAIM emission factor (2)(2A)(2B)Denotes RECLAIM emission rate
(3) Denotes RECLAIM concentration limit (4) Denotes BACT emission limit
(5)(5A)(5B)Denotes command and control emission limit (6) Denotes air toxic control rule limit
(7) Denotes NSR applicability limit (8)(8A)(8B)Denotes 40 CFR limits(e.g. NSPS, NESHAPS, etc.)
(9) See App B for Emission Limits (10) See Section J for NESHAP/MACT requirements

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SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
GAS TURBINE, 79-GT-1, NATURAL GAS, GENERAL ELECTRIC MODEL NO. LM2500+G4, 341.6 MMBTU/HR (HHV) A/N: 527889 Permit to Construct Issued: TBD	DX1	CX1, CX2	NOX: MAJOR SOURCE; SOX: MAJOR SOURCE	**CO:** 2,000 PPMV (5) [**RULE 407, 4-2-1982**]; **CO:** 4 PPMV (4) **[RULE 1703(a)(2) – PSD – BACT, 10-7-1988**]; **NOx**: 2.5 PPMV (4) [**RULE 2005; 6-3-2011];** **NOx**: 52.3 LBS/MMCF (1) [**RULE 2012; 5-6-2005];** **NOx**: 10.1 LBS/MMCF (1A) [**RULE 2012; 5-6-2005];** N**Ox**: 25 PPMV (8) **[40CFR 60 SUBPART KKKK, 7-06-2006];** **PM**: 0.1 GR/SCF (5) -[RULE 409, 8-7-1981]; **PM**: 0.01 GR/SCF (5A) [**RULE 475, 10-8-1976**; RULE 475, 8-7-1978]; **PM**: 11 LBS/HR (5B) [**RULE 475, 10-8-1976**; RULE 475, 8-7-1978]; **SO2**: 0.06 LBS/MMBTU (8A) [**40CFR 60 SUBPART KKKK, 7-06-2006];** **SOx:** 4.1 LBS/MMCF (1) **2011; 5-6-2005];** **SOx:** 3.9 LBS/MMCF (1) [**RULE 2011; 5-6-2005];** **VOC:** 3 PPMV (4) [**RULE 1303(a)(1)-BACT, 5-10-1996]**	A1.x, A63.x, A99.x1, A99.x2, A99.x3, A99.x5, A99.x6, A99.x7, A99.x8, A327.1, A327.x, D12.x1, D29.x2, D29.x3, D82.x1, D82.x2, 90.x1, H23.x2, H23.x3, I297.x1, I297.x2, K40.x1, K67.x1
DRY LOW-NOX COMBUSTORS	BX1				
GENERATOR, 79-G-1, 34 MW	BX2				

* (1)(1A)(1B)Denotes RECLAIM emission factor (2)(2A)(2B)Denotes RECLAIM emission rate
(3) Denotes RECLAIM concentration limit (4) Denotes BACT emission limit
(5)(5A)(5B)Denotes command and control emission limit (6) Denotes air toxic control rule limit
(7) Denotes NSR applicability limit (8)(8A)(8B)Denotes 40 CFR limits(e.g. NSPS, NESHAPS, etc.)
(9) See App B for Emission Limits (10) See Section J for NESHAP/MACT requirements

** Refer to Section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.

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ULTRAMAR INC (NSR USE ONLY)

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The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
BURNER, DUCT BURNER, , REFINERY GAS, NATURAL GAS, DELTAK OR EQUIVALENT, LOW NOX TYPE, 164.5 MMBTU/HR (HHV) A/N: 527889 Permit to Construct Issued: TBD	DX2	CX1, CX2	NOx: MAJOR SOURCE; SOX: MAJOR SOURCE	CO: 2,000 PPMV (5) [**RULE 407, 4-2-1982**]; NOx: 25 PPMV (8) [**40CFR 60 SUBPART KKKK, 7-06-2006];** PM: 0.1 GR/SCF (5**)** [RULE 409, 8-7-1981]; PM: 0.01 GR/SCF (5A) **[RULE 476, 10-8-1976];** PM: 11 LBS/HR (5B) **[RULE 476, 10-8-1976],** SO2: 0.06 LBS/MMBTU (8) **[40CFR 60 SUBPART KKKK, 7-06-2006];**	A1.x, A63.x, A99.x1, A99.x2, A99.x3, A99.x5, A99.x6, A99.x7, A99.x8, A327.x1 B61.x1, B61.x2, D12.x1, D29.x2, D29.x3, D82.x1, D82.x2, D90.x1, D90.x2, H23.x1, H23.x2, H23.x4, I297.x1, I297.x2, K40.x1, K67.x1
KNOCKOUT DRUM, 79-V-2, FUEL GAS A/N: 527889 Permit to Construct Issued: TBD	DX3				
SCRUBBER, 79-V-1, NATURAL GAS SUCTION A/N: 527889 Permit to Construct Issued: TBD	DX4				
BOILER, WASTE HEAT RECOVERY STEAM GENERATOR, UNFIRED, A/N: 527889 Permit to Construct Issued: TBD	DX5				

* (1)(1A)(1B)Denotes RECLAIM emission factor (2)(2A)(2B)Denotes RECLAIM emission rate
(3) Denotes RECLAIM concentration limit (4) Denotes BACT emission limit
(5)(5A)(5B)Denotes command and control emission limit (6) Denotes air toxic control rule limit
(7) Denotes NSR applicability limit (8)(8A)(8B)Denotes 40 CFR limits(e.g. NSPS, NESHAPS, etc.)
(9) See App B for Emission Limits (10) See Section J for NESHAP/MACT requirements

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ULTRAMAR INC (NSR USE ONLY)

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
DRUM, 79-V-3, BLOWDOWN A/N: 527889 Permit to Construct Issued: TBD	DX6				
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 527889 Permit to Construct Issued: TBD	DX7				H23.17
SYSTEM 2: AIR POLLUTION CONTROL FOR COGENERATION					
CO OXIDATION CATALYST, BASF OR APPROVED EQUIVALENT SYSTEM, 150 CU FT; DEPTH: 2.6 IN; WIDTH: 11 FT; HEIGHT: 56 FT A/ N: 527888 Permit to Construct Issued: TBD	CX1	DX1 DX2 CX2			
SELECTIVE CATALYTIC REDUCTION, HALDOR TOPSOE OR APPROVED EQUIVALENT SYSTEM, 425 CU. FT. DEPTH: 13.4 IN; WIDTH: 11 FT; HEIGHT: 56 FT; WITH AMMONIA INJECTION GRID A/ N: 527888 Permit to Construct Issued: TBD	CX2 BX3	CX1 SX		**NH3:** 5 PPMV (4) [**RULE 1303(a)(1)-BACT, 5-10-1996]**	D12.x2, D12.x5

* (1)(1A)(1B)Denotes RECLAIM emission factor (2)(2A)(2B)Denotes RECLAIM emission rate
(3) Denotes RECLAIM concentration limit (4) Denotes BACT emission limit
(5)(5A)(5B)Denotes command and control emission limit (6) Denotes air toxic control rule limit
(7) Denotes NSR applicability limit (8)(8A)(8B)Denotes 40 CFR limits(e.g. NSPS, NESHAPS, etc.)
(9) See App B for Emission Limits (10) See Section J for NESHAP/MACT requirements

** Refer to Section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.

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The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
VESSEL, 79-ME-1, AQUEOUS AMMONIA VAPORIZER A/ N: 527888 Permit to Construct Issued: TBD	DX8				A99.x4, A195.x4, D12.x3, D12.x4, D29.x4, E73.x1
STACK, DIAMETER: 9 FT; HEIGHT: 95 FT A/N: 527888 Permit to Construct Issued: TBD	SX	CX2			

FACILITY CONDITIONS

F8.1 The operator shall comply with all applicable mitigation measures stipulated in the "Statement of Findings, Statement of Overriding Considerations, and Mitigation Monitoring Plan" document which is part of the AQMD Certified Subsequent Environmental Impact Report dated 08/30/2002 for this facility.

[CA PRC CEQA, 11-23-1970]

F9.1 Except for open abrasive blasting operations, the operator shall not discharge into the atmosphere from any single source of emissions whatsoever any air contaminant for a period or periods aggregating more than three minutes in any one hour which is:

(a) As dark or darker in shade as that designated No.1 on the Ringelmann Chart, as published by the United States Bureau of Mines; or

* (1)(1A)(1B)Denotes RECLAIM emission factor
(2)(2A)(2B)Denotes RECLAIM emission rate
(3) Denotes RECLAIM concentration limit
(4) Denotes BACT emission limit
(5)(5A)(5B)Denotes command and control emission limit
(6) Denotes air toxic control rule limit
(7) Denotes NSR applicability limit
(8)(8A)(8B)Denotes 40 CFR limits(e.g. NSPS, NESHAPS, etc.)
(9) See App B for Emission Limits
(10) See Section J for NESHAP/MACT requirements

** Refer to Section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.

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The operator shall comply with the terms and conditions set forth below:

(b) Of such opacity as to obscure an observer's view to a degree equal to or greater than does smoke described in subparagraph (a) of this condition.

[**RULE 401, 3-2-1984**; RULE 401, 11-9-2001]

F10.1 Material(s) that contain the following compound(s) shall not be used in this facility;

Total Reduced Sulfur

H2S

Hydrogen Fluoride

This condition shall not apply if the operator demonstrates to the satisfaction of the Executive Officer that the facility is in compliance with the operational air quality mitigation measures stipulated in the Reformulated Fuels Project EIR as follows:

a. Implementation of an inspection and maintenance program for all odor sources.

b. Installation and inspection of a deluge system in the alkylation unit. The deluge system shall be inspected quarterly and flow tested semi-annually.

c. Installation and inspection of elevated monitors with water spray system covering all area of the alkylation unit. The system shall be inspected weekly and flow tested monthly.

d. Conduct safety review for the GOH unit, revision and implementation of the Risk Management and Prevention Plan (RMPP) for hydrogen sulfide.

e. Conduct safety review for the Sulfur Recovery Unit, revision and implementation for the RMPP for hydrogen sulfide.

[CA PRC CEQA, 11-23-1970]

F14.1 The operator shall not purchase diesel fuel, for stationary source application as defined in Rule 431.2, containing sulfur compounds in excess of 15 ppm by weight as supplied by the supplier.

[**RULE 431.2, 5-4-1990**; RULE 431.2, 9-15-2000]

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The operator shall comply with the terms and conditions set forth below:

F24.1 Accidental release prevention requirements of Section 112(r)(7):

a). The operator shall comply with the accidental release prevention requirements pursuant to 40 CFR Part 68 and shall submit to the Executive Officer, as a part of an annual compliance certification, a statement that certifies compliance with all of the requirements of 40 CFR Part 68, including the registration and submission of a risk management plan (RMP).

b). The operator shall submit any additional relevant information requested by the Executive Officer or designated agency.

[**40CFR 68 – Accidental Release Prevention, 5-24-1996**]

F25.1 The permit holder of this facility shall not install, alter, or operate a refinery process unit or other non-Rule 219 exempt equipment without a valid RECLAIM/TitleV permit issued by the AQMD pursuant to Rule 201 – Permit to Construct, Rule 203 - Permit to Operate, Rule 2004 - Requirements, and Rule 3002 - Requirements, as applicable.

Notwithstanding the above, the provisions of Rules 201, 203, 2004, and 3002 shall not apply to installations or alterations that involve only the equipment listed in Table 1 below, nor shall they apply to the operation of equipment listed in Table 1, when directly associated with permitted process units or other permitted equipment.

Notwithstanding the above, all new equipment listed in Table 1, including associated fugitive components installed with such equipment, shall have Best Available Control Technology installed in conformance with the Best Available Control Technology Guidelines in effect at the time of the installation.

TABLE 1

(a) Heat Exchanger (including air-cooler, reboiler, cooler, condenser ,and shell and tube exchanger)

(b) In-line Mixer

(c) Pump

(d) Knockout Pot - Compressor inlet (immediate inlet) and interstage

(e) Knockout Pot - Fuel Gas System (downstream of fuel gas mix drums)

This condition applies only to the facility that processes petroleum as defined in the Standard Industrial Classification Manual as Industry No. 2911 - Petroleum Refining, as well as its directly associated sulfur recovery plant which may be located outside of the facility.

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The operator shall comply with the terms and conditions set forth below:

[**RULE 2004, 5-11-2001**; RULE 2004, 4-6-2007]

F34.2 The operator shall not sell refinery gas containing sulfur compounds in excess of 40 ppmv, calculated as hydrogen sulfide, averaged over 4-hour period.

[**RULE 431.1, 6-12-1998**]

F52.1 This facility is subject to the applicable requirements of the following rules or regulation(s):

California Code of Regulations, Title 13, Division 3, Chapter 5

40 CFR 79

40 CFR 80

[**40CFR 79, 7-1-1999; 40CFR 80, 7-1-1999;** CCR Title 13, 9-24-1999]

F52.2 This facility is subject to the applicable requirements of the following rules or regulation(s):

40 CFR 60 Subpart A

40 CFR 61 Subpart A

40 CFR 63 Subpart A

40 CFR 63 Subpart GGGGG

[**40CFR 60 Subpart A, 5-16-2007; 40CFR 61 Subpart A, 5-16-2007; 40CFR 63 Subpart A, 5-16-2007; 40CFR 63 Subpart GGGGG, 11-29-2006**]

F52.3 This facility is subject to the applicable requirements of the following rules or regulation(s):

CONSENT DECREE CIVIL NO. SA-05-CA-0569. The facility shall send the District a copy of the semiannual update report sent to the EPA of the specific requirement of emission standards and limitations from the Consent Decree. This report shall also identify any anticipated future requirements known as of the date of the report and dates of compliance

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The operator shall comply with the terms and conditions set forth below:

for the requirements.

[**CONSENT DECREE VALERO, 6-16-2005**]

F60.1 The emission limits identified in Section D and H of the permit shall be defined as emissions discharged to the atmosphere from the originating equipment.

SYSTEM CONDITIONS

S31.x The following BACT requirements shall apply to VOC service fugitive components associated with the devices that are covered by application number(s) 527889:

All sampling connections shall be closed-purge, closed loop, or closed-vent systems.

All new valves in VOC service shall be leakless type, except those specifically exempted by Rule 1173 or approved by the District in the following applications: heavy liquid service, control valves, instrument piping/tubing, applications requiring torsional valve stem motion, applications where valve failure could pose safety hazard (e.g., drain valves with valve stems in horizontal position), retrofits/special applications with space limitations, and valves not commercially available.

For the purpose of this condition, leakless valve shall be defined as any valve equipped with sealed bellows or equivalent approved in writing by the District prior to installation.

All new components in VOC service as defined by Rule 1173, except valves and flanges shall be inspected quarterly using EPA Reference Method 21. All new valves and flanges in VOC service except those specifically exempted by Rule 1173 shall be inspected monthly using EPA Method 21. Components shall be defined as any valve, flange, fitting, pump, compressor, pressure relief device, diaphragm, hatch, sight-glass, and meter, which are not exempted by Rule 1173.

The following leaks shall be repaired within 7 calendar days -- all light liquid/gas/vapor components leaking at a rate of 500 to 10,000 ppm, heavy liquid components leaking at a rate of 100 to 500 ppm and greater than 3 drops/minute, unless otherwise extended as allowed under Rule 1173.

The following leaks shall be repaired within 2 calendar days -- any leak between 10,000 to 25,000 ppm, any atmospheric PRD leaking at a rate of 200 to 25,000 ppm, unless otherwise extended as allowed under Rule 1173.

The following leaks shall be repaired within 1 calendar day -- any leak greater than 25,000 ppm, heavy liquid leak greater than 500 ppm, or light liquid leak greater than 3 drops per minute.

If 98.0 percent or greater of the new valve and the new flange population inspected is found to leak gaseous or liquid volatile organic compounds at a rate less than 500 ppmv for two consecutive months, then the operator may revert to a

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The operator shall comply with the terms and conditions set forth below:

quarterly inspection program with the approval of the Executive Officer. This condition shall not apply to leakless valves.

The operator shall revert from quarterly to monthly inspection program if less than 98.0 percent of the new valves and the new flange population inspected are found to leak gaseous or liquid volatile organic compounds at a rate less than 500 ppmv. This condition shall not apply to leakless valves.

The operator shall keep records of the monthly inspection (quarterly where applicable), subsequent repair, and reinspection, in a manner approved by the District.

The operator shall provide to the District, prior to initial startup, a list of all non-leakless type valves that were installed. The list shall include the tag numbers for the valves and reasons why leakless valves were not used. The operator shall not startup the equipment prior to the Districts approval for the use of all non-leakless valves

The operator shall provide to the District, no later than 90 days after initial startup, a recalculation of the fugitive emissions based on actual components installed and removed from service. The operator shall also submit a complete, as built, piping and instrumentation diagram(s) and copies of requisition data sheets or field inspection surveys for all non-leakless type valves with a listing of tag numbers and reasons why leakless valves were not used.

[**RULE 1303(a)(1)-BACT, 5-10-1996;** RULE 1303(a)(1)-BACT, 12-6-2002; **RULE 1303(b)(2)-Offset, 5-10-1996;** RULE 1303(b)(2)-Offset, 12-6-2002**]**

[Systems subject to this condition: Process 16, System 1]

DEVICE CONDITIONS

A. Emission Limits

A1.2 Compliance with the emission limit(s) specified in the emissions and requirements column for this device shall be determined as follows:

Emittant	Emission Limit Type	Averaging time	Compliance Verification Method
CO	(5) - Command and Control	15 minute (3 percent oxygen)	Source test
CO	(4)- BACT	1 hour (3 percent oxygen)	Certified CEMS
NOx	(4)- BACT	1 hour (3 percent oxygen)	Source test, Certified CEMS
PM	(5) - Command and	1 hour (3 percent oxygen)	Source test

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The operator shall comply with the terms and conditions set forth below:

Control		

The NOx BACT identified above applies only to the 9 PPM limit.

[**RULE 1303(a)(1)-BACT, 5-10-1996;** RULE 1303(a)(1)-BACT, 12-6-2002; **RULE 2005, 6-3-2011; RULE 407, 4-2-1982; RULE 409, 8-7-1981; RULE 476, 10-8-1976**]

[Devices subject to this condition: D1550]

A1.x Compliance with the emission limit(s) specified in the emissions and requirements column for this device shall be determined as follows:

Emittant	Emission Limit Type	Averaging time	Compliance Verification Method
CO	(5) - Command and Control	15 minute (15 percent oxygen)	Source test
CO	(4)- BACT	1 hour (15 percent oxygen)	Certified CEMS
NOx	(4)- BACT	1 hour (15 percent oxygen)	Source test, Certified CEMS
PM	(5) - Command and Control	1 hour (15 percent oxygen)	Source test
SOx	(4)- BACT	1 hour (15 percent oxygen)	Source test, Certified CEMS
VOC	(4)- BACT	1 hour (15 percent oxygen)	Source test

The above limits are all determined at standard conditions of 68^{o}F and 1 atm.

[**RULE 1303(a)(1)-BACT, 5-10-1996;** RULE 1303(a)(1)-BACT, 12-6-2002; **RULE 2005, 6-3-2011; RULE 407, 4-2-1982; RULE 409, 8-7-1981; RULE 476, 10-8-1976**]

[Devices subject to this condition: DX1, DX2]

A63.x The operator shall limit emission from this equipment as follows:

CONTAMINANT	EMISSION LIMIT
VOC	Less than or equal to 2,981 LBS IN ANY ONE MONTH
PM10	Less than or equal to 4,897 LBS IN ANY ONE MONTH

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The operator shall comply with the terms and conditions set forth below:

For the purposes of this condition, the above emission limits shall be based on the combined emissions from Boiler 86-B-9000, Boiler 86-B-9001, Boiler 86-B-9002, Gas Turbine 79-GT-1, and Duct Burner.

The operator shall initially calculate the monthly emissions for VOC and PM10 using the equation below.

Monthly Emissions, lb/ month = (Monthly fuel usage in mmscf/day) * (Emission factors indicated below)

The emission factors for the gas turbine and duct burner during the commissioning period shall be as follows: VOC, 6.20 lb/mmscf; PM10, 14.01 lb/mmscf.

After commissioning, the emission factors of the gas turbine and duct burner shall be as follows: VOC, 4.14 lb/mmscf; PM: 9.78 lb/mmscf.

The emission factors for the boilers 86-B-9000, 86-B-9001, 86-B-9002 shall be as follows: VOC, 5.5 lb/mmscf; PM10, 7.6 lb/mmscf.

The VOC and PM10 emission factors for boilers 86-B-9000, 86-B-9001, 86-B-9002 shall be revised annually based on results of individual VOC and PM10 source tests performed as specified in permit condition D29.x1. The VOC and PM10 emission factor shall be calculated as the average emission rate in lb/mmscf from all valid source test runs during the annual source test.

The VOC and PM10 emission factors for the gas turbine and duct burner shall be revised initially and annually, thereafter, based on the results of individual VOC and PM10 source tests performed as specified in permit conditions D29.x2 and D29.x3. The VOC and PM10 emission factor shall be calculated as the average emission rate in lb/mmscf from all valid source test runs during the annual source test.

The operator shall maintain records in a manner approved by the District to demonstrate compliance with this condition and the records shall be made available to District personnel upon request.

[**RULE 1303(b)(2)–Offset, 5-10-1996;** RULE 1303(b)(2)-Offset, 12-6-2002; **RULE 1313, 12-7-1995]**

[Devices subject to this condition: D377, D378, D1550, DX1, DX2]

A99.6 The 9 ppm NOx emission limit(s) shall not apply during any startup.

For the purposes of this condition, startup shall be defined as the period when the exhaust temperature of this equipment is below 475 degrees F, which is the minimum ammonia injection temperature.

[**RULE 2005, 6-3-2011**]

[Devices subject to this condition: D1550]

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The operator shall comply with the terms and conditions set forth below:

A99.x1 The 2.5 PPM NOx emission limit(s) shall not apply during turbine commissioning, start-up, and shutdown periods. The turbine commissioning shall not exceed 376 total hours. The turbine shall be limited to a maximum of 20 hours of start-ups and shutdown per year.

For the purposes of this condition, the start-up and shutdown period shall be defined as the initial 30 minute time period when the equipment is shutting down or the initial 60 minute time period when the equipment is starting up and the temperature of the exhaust gas at the inlet of the SCR is below 535 ^{o}F.

NOx emissions shall not exceed 28.4 lbs/startup and 11 lbs/shutdown.

[RULE 1703(a)(2) – PSD-BACT, 10-7-1988; RULE 2005, 6-3-2011]

[Devices subject to this condition: DX1, DX2]

A99.x2 The 4.0 PPM CO emission limit(s) shall not apply during turbine commissioning, start-up, and shutdown periods. The turbine commissioning shall not exceed 376 total hours. The turbine shall be limited to a maximum of 20 hours of start-ups and shutdown per year.

For the purposes of this condition, the start-up and shutdown period shall be defined as the initial 30 minute time period when the equipment is shutting down or the initial 60 minute time period when the equipment is starting up and the temperature of the exhaust gas at the inlet of the SCR is below 535 ^{o}F.

[RULE 1703(a)(2) – PSD-BACT, 10-7-1988]

[Devices subject to this condition: DX1, DX2]

A99.x3 The 3 PPM VOC emission limit(s) shall not apply during turbine commissioning, start-up, and shutdown periods. The turbine commissioning shall not exceed 376 total hours. The turbine shall be limited to a maximum of 20 hours of start-ups and shutdown per year.

For the purposes of this condition, the start-up and shutdown period shall be defined as the initial 30 minute time period when the equipment is shutting down or the initial 60 minute time period when the equipment is starting up and the temperature of the exhaust gas at the inlet of the SCR is below 535 ^{o}F.

[**RULE 1303(a)(1)-BACT, 5-10-1996;** RULE 1303(a)(1)-BACT, 12-6-2002]

[Devices subject to this condition: DX1, DX2]

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The operator shall comply with the terms and conditions set forth below:

A99.x4 The 5 PPM NH3 emission limit(s) shall not apply during turbine commissioning, start-up, and shutdown periods. The turbine commissioning shall not exceed 376 total hours. The turbine shall be limited to a maximum of 20 hours of start-ups and shutdown per year.

For the purposes of this condition, the start-up and shutdown period shall be defined as the initial 30 minute time period when the equipment is shutting down or the initial 60 minute time period when the equipment is starting up and the temperature of the exhaust gas at the inlet of the SCR is below 535 ^{o}F.

With the exception of the commissioning period, the ammonia injection system shall be in full operation at all times that the exhaust gas temperature at the inlet to the SCR is greater than 535 ^{o}F.

[**RULE 1303(a)(1)-BACT, 5-10-1996;** RULE 1303(a)(1)-BACT, 12-6-2002]

[Devices subject to this condition: Cx2]

A99.x5 The 52.3 LBS/MMCF NOx emission limit(s) shall only apply during turbine commissioning during the interim reporting period to report RECLAIM emissions. The interim reporting period shall not exceed 12 months from the initial start up of the turbine.

[**RULE 2012, 5-6-2005**]

[Devices subject to this condition: DX1, DX2]

A99.x6 The 10.1 LBS/MMCF NOx emission limit(s) shall only apply after turbine commissioning during the interim reporting period to report RECLAIM emissions. The interim reporting period shall not exceed 12 months from the initial start up of the turbine.

[**RULE 2012, 5-6-2005**]

[Devices subject to this condition: DX1, DX2]

A99.x7 The 4.10 LBS/MMCF SOx emission limit(s) shall only apply during turbine commissioning during the interim reporting period to report RECLAIM emissions. The interim reporting period shall not exceed 12 months from the initial start up of the turbine.

[**RULE 2011, 5-6-2005**]

[Devices subject to this condition: DX1, DX2]

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The operator shall comply with the terms and conditions set forth below:

A99.x8 The 3.9 LBS/MMCF SOx emission limit(s) shall only apply after turbine commissioning during the interim reporting period to report RECLAIM emissions. The interim reporting period shall not exceed 12 months from the initial start up of the turbine.

[**RULE 2011, 5-6-2005**]

[Devices subject to this condition: DX1, DX2]

A195.1 The 7 ppmv (monthly) NOx emission limit(s) is averaged over a calendar month and is at dry condition, corrected to 3 percent oxygen.

This NOx calendar monthly emission limit shall be calculated based on the measured NOx emissions using a certified RECLAIM CEMS and the heat input during all boiler operating hours for the calendar month except during:

Any District required source test performed without ammonia;
Periods of the exhaust temperature entering the SCR catalyst is less than 475 degrees F, which is the minimum ammonia injection temperature);
RATA testing;
RECLAIM Missing Data period;
Calibration and maintenance periods;
Equipment breakdown periods as defined in Rule 2004; and
Periods of zero fuel flow.

The heat input weighted average NOx concentration shall be calculated using this equation, or other equivalent equation: PPMV at 3 percent oxygen = (Et/Qt) x K, where:

PPMV at 3 percent oxygen = Concentration of NOx in PPMV at 3 percent oxygen
Et = Total measured NOx emissions during the averaging period (excluding exempt periods as noted above)
Qt = Total heat input during the averaging period (excluding exempt periods as noted above)
K =A conversion factor from lbs/MMBtu to PPM, which can be determined using EPA 40 CFR60 Method 19

A data acquisition system (DAS) shall be installed and maintained to record the parameters necessary to determine the calendar monthly NOx concentration. In addition, the DAS shall calculate and display on demand the average monthly NOx PPM.

Any corrections to the DAS data and calculation shall be completed within 72 hours after the end of the calendar month. The recorded parameters and the calculated average monthly NOx PPM shall be kept for a period as stated in the Section E of this facility permit and shall be readily available to the District personnel upon request.

A violation of the 7 PPM NOX limit shall be a violation of the emission limit for the entire averaging period.

[**RULE 2005, 6-3-2011**]

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The operator shall comply with the terms and conditions set forth below:

[Devices subject to this condition: D1550]

A195.16 The 0.015 lb/mmBTU NOx emission limit(s) is averaged over 365 rolling days and based on the HHV.

This Consent Decree interim NOx emission limit is calculated by CEMS data measured and recorded in accordance with Rule 2012.

This emission limit shall only apply during the interim emission reduction period from January 1, 2010 to December 31, 2011.

[Consent Decree Valero, 6-16-2005]

[Devices subject to this condition: D1550]

A327.1 For the purpose of determining compliance with District Rule 476, combustion contaminant emissions may exceed the concentration limit or the mass emission limit listed, but not both limits at the same time.

[RULE 476, 10-8-1976]

[Devices subject to this condition: D378, D1550, DX1, DX2]

A327.x For the purpose of determining compliance with District Rule 475, combustion contaminant emissions may exceed the concentration limit or the mass emission limit listed, but not both limits at the same time.

[**RULE 475, 10-8-1976**; RULE 475, 8-7-1978]

[Devices subject to this condition: DX1, DX2]

B. Material/Fuel Type Limits

B61.1 The operator shall only use fuel gas containing the following specified compounds:

Compound	ppm by volume
Sulfur	less than 100

The operator shall maintain a continuous total sulfur analyzer to monitor the sulfur content of the fuel gas.

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The operator shall comply with the terms and conditions set forth below:

[**RULE 1303(a)(1)-BACT, 5-10-1996;** RULE 1303(a)(1)-BACT, 12-6-2002]

[Devices subject to this condition: D3, D6, D8, D9, D12, D22, D59, D60, D73, D74, D98, D429, D430, D768, D1550]

B61.2 The operator shall not use fuel gas containing the following specified compounds:

Compound	ppm by volume	
H2S	greater than	160

The H2S concentration limit of 160 ppm shall be based on a rolling 3-hour averaging period at the standard condition of 60 ^{o}F and 14.7 psia, as defined in Rule 102. This H2S concentration limit of 160 ppm is equivalent to 162 ppm at the standard conditions of 68 ^{o}F and 29.92 inches Hg, as defined as 40CFR 60 Subpart A.

[40CFR 60 Subpart J, 6-24-2008]

[Devices subject to this condition: D3, D6, D8, D9, D12, D22, D38, D52, D53, D59, D60, D73, D74, D98, D377, D378, D429, D430, D768, D1550]

B61.x1 The operator shall not use fuel gas containing the following specified compounds:

Compound	ppm by volume	
H2S	greater than	60
H2S	greater than	162

The 60 ppmv limit is based on a rolling 365 consecutive calendar day rolling average.
The 162 ppmv limit is based on a rolling 3-hour averaging period.

[40CFR 60 Subpart Ja, 6-24-2008]

[Devices subject to this condition: DX2]

B61.x2 The operator shall not use fuel gas containing the following compounds:

Compound	ppm by volume
Total Sulfur (calculated as H2S) greater than	40

The 40 ppm limit shall be based on a 1-hour averaging time.

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For the purposes of this condition, fuel gas is defined as natural gas obtained from a utility regulated by the Public Utilities Commission (PUC) or a mixture of refinery fuel gas, produced within the refinery, and natural gas.

[**RULE 2005, 5-6-2005**]

[Devices subject to this condition: DX2]

D. Monitoring and Testing Requirements

D12.x1 The operator shall install and maintain a(n) flow meter to accurately indicate the fuel usage being supplied to the turbine and duct burner.

The operator shall also install and maintain a device to continuously record the parameter being measured in accordance with Rule 2012.

[**RULE 1303(b)(2)-Offset, 5-10-1996;** RULE 1303(b)(2)-Offset, 12-6-2002; [**RULE 2012, 5-6-2005**]

[Devices subject to this condition: DX1, DX2]

D12.x2 The operator shall install and maintain a(n) temperature reading device to accurately indicate the temperature at the inlet to the CO catalyst bed.

The operator shall also install and maintain a device to continuously record the parameter being measured.

The measuring device or gauge shall be accurate to within +/- 5 percent. It shall be calibrated once every 12 months.

For the purpose of this condition, continuously record shall be defined as recording at least once every hour and shall be calculated based upon the average of the continuous monitoring for that hour

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002**]**

[Devices subject to this condition: CX1]

D12.x3 The operator shall install and maintain a(n) temperature reading device to accurately indicate the temperature at the inlet to the SCR catalyst bed.

The operator shall also install and maintain a device to continuously record the parameter being measured.

The measuring device or gauge shall be accurate to within +/- 5 percent. It shall be calibrated once every 12 months.

For the purpose of this condition, continuously record shall be defined as recording at least once every hour and shall be calculated based upon the average of the continuous monitoring for that hour

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002**]**

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The operator shall comply with the terms and conditions set forth below:

[Devices subject to this condition: CX2]

D12.x4 The operator shall install and maintain a(n) flow meter to accurately indicate the flow rate of the total hourly throughput of injected ammonia.

The operator shall also install and maintain a device to continuously record the parameter being measured every 15 minutes.

The measuring device or gauge shall be accurate to within plus or minus 5 percent. It shall be calibrated once every 12 months.

The calibration records shall be kept on site and made available to District personnel upon request.

The ammonia injection system shall be placed in full operation as soon as the minimum temperature at the inlet to the SCR reactor is reached. The minimum temperature is 535 deg F.

[**RULE 1303(a)(1) – BACT, 5-10-1996;** RULE 1303(a)(1)-BACT, 12-6-2002]

[Devices subject to this condition: CX2]

D12.x5 The operator shall install and maintain a(n) pressure gauge to accurately indicate the differential pressure across the CO catalyst bed in inches of water column.

The operator shall also install and maintain a device to continuously record the parameter being measured. For the purpose of this condition, continuously record shall be defined as recording at least once a week and shall be calculated based upon the average of the continuous monitoring for that week.

The measuring device or gauge shall be accurate to within plus or minus 5 percent. It shall be calibrated once every 12 months.

The pressure drop across the catalyst shall not exceed 6 inches water column.

[**RULE 1303(a)(1) – BACT, 5-10-1996**; RULE 1303(a)(1)-BACT, 12-6-2002; **RULE 1703(a)(2)-PSD-BACT, 10-7-1988; RULE 2005, 6-3-2011]**

[Devices subject to this condition: CX1]

D29.10 The operator shall conduct source test(s) for the pollutant(s) identified below.

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The operator shall comply with the terms and conditions set forth below:

Pollutant(s) to be tested	Required Test Method(s)	Averaging Time	Test Location
CO emissions	Approved District Method	District-approved averaging time	Outlet of the SCR

The test(s) shall be conducted at least once every three years.

The test shall be conducted to demonstrate compliance with Rules 407.

[**RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997; RULE 407, 4-2-1982**]

[Devices subject to this condition: D1550]

D29.x1 The operator shall conduct source test(s) for the pollutant(s) identified below.

Pollutant(s) to be tested	Required Test Method(s)	Averaging Time	Test Location
PM10 emissions	Approved District Method	1 hour (15 percent oxygen)	Stack Outlet
VOC emissions	Approved District Method	1 hour (15 percent oxygen)	Stack Outlet

The test shall be conducted when this equipment is operating at 80 percent or greater of the maximum design capacity at which ammonia injection occurs during the PM10 test.

The test(s) shall be conducted at least annually. If equipment has not been in operation during the calendar year, the source test does not have to be conducted. The source test shall be conducted in the calendar year the equipment resumes operation. The Facility Permit holder shall keep records to demonstrate that the equipment had not been operated. Upon resumption of operation, the Facility Permit holder shall keep records of each day operated.

The District shall be notified of the date and time of the test at least 10 days prior to the test.

Source test results shall include the following parameters: fuel gas usage of the boiler, amount of ammonia injected, if applicable, for NOx control, the flue gas flow rate, and Higher Heating Value (HHV) of fuel gas other than natural gas.

The test shall be conducted to demonstrate compliance with Rules 1303(b)(1)-BACT, 1303(b)(2)-Offsets, 409, and 476.

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The operator shall comply with the terms and conditions set forth below:

[RULE 1303(b)(1)-BACT, 5-10-1996; RULE 1303(b)(2)-Offset, 5-10-1996; RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997; RULE 409, 8-7-1981; RULE 476, 10-8-1976]

[Devices subject to this condition: D377, D378 , D1550**]**

D29.x2 The operator shall conduct source test(s) for the pollutant(s) identified below.

Pollutant(s) to be tested	Required Test Method(s)	Averaging Time	Test Location
NOX emissions	District –approved Method	1 hour (15 percent oxygen)	Outlet of the SCR serving this equipment
CO emissions	District –approved Method	15 mins (15 percent oxygen)	Outlet of the SCR serving this equipment
SOX emissions	District-approved method	1 hour (15 percent oxygen)	Stack Outlet
VOC emissions	District –approved Method	1 hour (15 percent oxygen)	Outlet of the SCR serving this equipment
PM10 emissions	District-approved method	1 hour (15 percent oxygen)	Outlet of the SCR serving this equipment
NH3 emissions	District –approved Method	1 hour (15 percent oxygen)	Outlet of the SCR serving this equipment

The test shall be conducted after AQMD approval of the source test protocol, but no later than 180 days after initial start-up. The AQMD shall be notified of the date and time of the test at least 10 days prior to the test.

The test shall be conducted in accordance with AQMD approved test protocol. The protocol shall be submitted to the AQMD engineer no later than 45 days before the proposed test date and shall be approved by the AQMD before the test commences. The test protocol shall include the proposed operating conditions of the turbine during the tests, the identity of the testing lab, a statement from the testing lab certifying that it meets the criteria of Rule 304, and a description of all sampling and analytical procedures.

The test shall be conducted to determine the oxygen levels in the exhaust. In addition, the tests shall measure the fuel flow rate (CFH), the flue gas flow rate, amount of ammonia injected, if applicable, for NOx control, the flue gas flow rate, and Higher Heating Value (HHV) of fuel gas other than natural gas, and the turbine generating output in MW.

The test shall be conducted with duct firing when this equipment is operating at maximum, average, and minimum loads at which ammonia injection occurs during the NOx and PM test. The fuel combusted in the duct burner during the source test shall be at least 40% refinery gas or a fuel mixture of natural gas and refinery gas approved by the District.

For the purpose of this condition, alternative test method may be allowed for each of the above pollutants upon concurrence of AQMD, EPA and CARB.

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[**RULE 1303(a)(1)-BACT, 5-10-1996**; RULE 1303(a)(1)-BACT, 12-6-2002; **RULE 1303(b)(2)-Offset, 5-10-1996;** RULE 1303(b)(2)-Offset, 12-6-2002; **RULE 1703(a)(2)-PSD-BACT, 10-7-1988; RULE 2005, 6-3-2011]**

[Devices subject to this condition: DX1, DX2]

D29.x3 The operator shall conduct source test(s) for the pollutant(s) identified below.

Pollutant(s) to be tested	Required Test Method(s)	Averaging Time	Test Location
VOC emissions	District-approved Method	1 hour (15 percent oxygen)	Outlet of the SCR
PM10 emissions	District-approved Method	1 hour (15 percent oxygen)	Outlet of the SCR

The test shall be conducted annually. The AQMD shall be notified of the date and time of the test at least 10 days prior to the test.

The test shall be conducted to determine the oxygen levels in the exhaust. In addition, the tests shall measure the fuel flow rate (CFH), the flue gas flow rate, and the turbine generating output in MW.

The test shall be conducted in accordance with AQMD approved test protocol. The protocol shall be submitted to the AQMD engineer no later than 45 days before the proposed test date and shall be approved by the AQMD before the test commences. The test protocol shall include the proposed operating conditions of the turbine during the tests, the identity of the testing lab, a statement from the testing lab certifying that it meets the criteria of Rule 304, and a description of all sampling and analytical procedures.

The test shall be conducted when this equipment is operating at a load of 80 percent or greater of the maximum design capacity at which ammonia injection occurs during the PM test. The fuel combusted in the duct burner during the source test shall be at least 40% refinery gas or a fuel mixture of natural gas and refinery gas approved by the District.

For the purposes of this condition, alternative test method may be allowed for each of the above pollutants upon concurrence of AQMD, EPA, and CARB.

The test shall be conducted for compliance verification of the BACT VOC 3 ppmv limit.

[**RULE 1303(a)(1)-BACT, 5-10-1996;** RULE 1303(a)(1)-BACT, 12-6-2002; **RULE 1303(b)(2)-Offset, 5-10-1996**; RULE 1303(b)(2)-Offset, 12-6-2002; **RULE 1703(a)(2)-PSD-BACT, 10-7-1988]**

[Devices subject to this condition: DX1, DX2]

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The operator shall comply with the terms and conditions set forth below:

D29.x4 The operator shall conduct source test(s) for the pollutant(s) identified below.

Pollutant(s) to be tested	Required Test Method(s)	Averaging Time	Test Location
NH3 emissions	District-approved Method	1 hour (15 percent oxygen)	Outlet of the SCR

The test(s) shall be conducted at least quarterly during the first twelve months of operation and at least annually thereafter. The AQMD shall be notified of the date and time of the test at least 10 days prior to the test.

The NOx concentration, as determined by the CEMS, shall be simultaneously recorded during the ammonia slip test. If the CEMS is inoperable, a test shall be conducted to determine the NOx emissions using District Method 100.1 measured over a 60 minute averaging time period.

The test shall be conducted no later than 180 days after initial startup.

The test results submitted to the District within 60 days after the test date.

The test shall be conducted when the gas turbine and duct burner are operating at a load of 80 percent or greater of the maximum design capacity.

The test shall be conducted to demonstrate compliance with the Rule 1303 BACT concentration limit.

If the equipment is not operated in any given quarter, the operator may elect to defer the required testing to a quarter in which the equipment is operated.

[**RULE 1303(a)(1)-BACT, 5-10-1996;** RULE 1303(a)(1)-BACT, 12-6-2002]

[Devices subject to this condition: CX2]

D82.5 The operator shall install and maintain a CEMS to measure the following parameters:

CO concentration in ppmv

Concentrations shall be corrected to 3 percent oxygen on a dry basis.

The CEMS shall be installed and operated in accordance with an approved AQMD Rule 218 CEMS plan application.

[**RULE 1303(b)(2)-Offset, 5-10-1996;** RULE 1303(b)(2)-Offset, 12-6-2002]

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The operator shall comply with the terms and conditions set forth below:

[Devices subject to this condition: D1550]

D82.x1 The operator shall install and maintain a CEMS to measure the following parameters:

CO concentration in ppmv

Concentrations shall be corrected to 15 percent oxygen on a dry basis.

The CEMS shall be installed and operating no later than 90 days after initial startup of the turbine, in accordance with an approved AQMD Rule 218 CEMS plan application. The operator shall not install the CEMS prior to receiving initial approval from AQMD. Within two weeks of the turbine start-up, the operator shall provide written notification to the District of the exact date of start-up.

The CEMS shall be installed and operated to measure CO concentrations over a 15 minute averaging time period.

[RULE 1703(a)(2)-PSD-BACT, 10-7-1988; RULE 218, 8-7-1981; RULE 218, 5-14-1999]

[Devices subject to this condition: DX1, DX2]

D82.x2 The operator shall install and maintain a CEMS to measure the following parameters:

NOx concentration in ppmv

Concentrations shall be corrected to 15 percent oxygen on a dry basis.

The CEMS shall be installed and operating no later than 90 days after initial start-up of the turbine and shall comply with the requirements of Rule 2012. During the interim period between the initial start-up and the provisional certification date of the CEMS, the operator shall comply with the monitoring requirements of Rule 2012(h)(2) and 2012(h)(3). Within two weeks of the turbine start-up date, the operator shall provide written notification to the District of the exact date of start-up.

The CEMS shall be installed and operating (for BACT purposes only) no later than 90 days after initial start-up of the turbine.

[**RULE 1703(a)(2)-PSD-BACT, 10-7-1988**; **RULE 2005, 6-3-2011;** [**RULE 2012, 5-6-2005**]

[Devices subject to this condition: DX1, DX2]

D90.3 The operator shall continuously monitor the H2S concentration in the fuel gas before being burned in this device according to the following specifications:

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The operator shall comply with the terms and conditions set forth below:

The operator shall use an NSPS Subpart J approved instrument meeting the requirements of 40CFR60 Subpart J to monitor the parameter.

The operator shall also install and maintain a device to continuously record the parameter being monitored.

The operator may monitor the H2S concentration at a single location for fuel combustion devices, if monitoring at this location accurately represents the concentration of H2S in the fuel gas being burned in this device.

[40CFR 60 Subpart J, 6-24-2008]

Devices subject to this condition: D3, D6, D8, D9, D12, D22, D38, D52, D53, D59, D60, D73, D74, D98, D377, D378, D429, D430, D768, D1550]

D90.x1 The operator shall continuously monitor the H2S concentration in the fuel gas before being burned in this device according to the following specifications:

The operator shall use an NSPS Subpart Ja approved instrument meeting the requirements of 40CFR60 Subpart J to monitor the parameter.

The operator shall also install and maintain a device to continuously record the parameter being monitored in accordance with NSPS Subpart Ja.

The operator may monitor the H2S concentration at a single location for fuel combustion devices, if monitoring at this location accurately represents the concentration of H2S in the fuel gas being burned in this device.

[40CFR 60 Subpart Ja, 6-24-2008]

Devices subject to this condition: DX1, DX2]

D90.x2 The operator shall continuously monitor the total sulfur compounds calculated as H2S concentration in the refinery fuel gas before being burned in this device according to the following specifications:

The CEMS shall be approved by the District before the initial startup.

The operator shall also install and maintain a device to continuously record the parameter being monitored every 15 minutes.

The operator may monitor the total sulfur compounds H2S concentration at a single location for fuel combustion devices, if monitoring at this location accurately represents the concentration of H2S in the fuel gas being burned in this device.

[**RULE 2005, 6-3-2011]**

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT
21865 Copley Drive, Diamond Bar, CA 91765

FACILITY PERMIT TO OPERATE
ULTRAMAR INC (NSR USE ONLY)

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

The operator shall comply with the terms and conditions set forth below:

Devices subject to this condition: DX2]

E. Equipment Operation/Construction Requirements

E73.x1 Notwithstanding the requirements of Section E conditions, the operator may, at his discretion, choose not to use ammonia injection if:

The inlet temperature of the SCR reactor is below 535 ^{o}F.

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002**]**

[Devices subject to this condition: CX2]

H. Applicable Rules

H23.5 This equipment is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
H2S	40CFR60, SUBPART	J

[**40CFR 60 Subpart J, 6-24-2008**]

Devices subject to this condition: D3, D6, D8, D9, D12, D22, D38, D52, D53, D59, D60, D73, D74, D98, D377, D378, C400, C402, C403, D429, D430, D768, D1550]

H23.17 This equipment is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
VOC	District Rule	1173

[**RULE 1173, 5-13-1994**; RULE 1173, 6-1-2007]

Devices subject to this condition: D872, D1321, D1323, D1353, D1626, DX4]

H23.28 This equipment is subject to the applicable requirements of the following rules or regulations:

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The operator shall comply with the terms and conditions set forth below:

Rule	Rule/Subpart
40CFR60, SUBPART	Db

[40 CFR60, Subpart Db, 11-16-2006]

[Devices subject to this condition: D1550]

H23.x1 This equipment is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
H2S	40CFR60, SUBPART	Ja

[40 CFR 60 Subpart Ja, 6-24-2008]

[Devices subject to this condition: DX2]

H23.x2 This equipment is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
NOx	40CFR60, SUBPART	KKKK
SOX	40CFR60, SUBPART	KKKK

[40 CFR 60 Subpart KKKK, 7-6-2006]

[Devices subject to this condition: DX1, DX2]

H23.x3 This equipment is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
HAPs	40CFR63, SUBPART	YYYY

[40 CFR 63 Subpart YYYY, 4-20-2006]

[Devices subject to this condition: DX1]

H23.x4 This equipment is subject to the applicable requirements of the following rules or regulations:

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ULTRAMAR INC (NSR USE ONLY)

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

The operator shall comply with the terms and conditions set forth below:

Contaminant	Rule	Rule/Subpart
HAPs	40CFR63, SUBPART	DDDDD

[40 CFR 63 Subpart DDDDD, 5-20-2011]

[Devices subject to this condition: DX2]

I. Administrative

I297.x1 This equipment shall not be operated unless the facility holds 44,137 pounds of NOx RTCs in its allocation account to offset the annual emissions increase for the first year of operation. RTCs held to satisfy this condition may be transferred only after one year from the initial start of operation. If the hold amount is partially satisfied by holding RTCs that expire midway through the hold period, those RTCs may be transferred upon their respective expiration dates. This hold amount is in addition to any other amount of RTCs required to be held under other condition(s) stated in this permit.

For the purposes of this condition, the above amount of RTCS held shall apply to the combined emissions of the Gas Turbine 79-GT-1 and Duct Burner.

[**RULE 2005, 6-3-2011]**

[Devices subject to this condition: DX1, DX2]

I297.x2 This equipment shall not be operated unless the facility holds 15,318 pounds of SOx RTCs in its allocation account to offset the annual emissions increase for the first year of operation. RTCs held to satisfy this condition may be transferred only after one year from the initial start of operation. If the hold amount is partially satisfied by holding RTCs that expire midway through the hold period, those RTCs may be transferred upon their respective expiration dates. This hold amount is in addition to any other amount of RTCs required to be held under other condition(s) stated in this permit.

For the purposes of this condition, the above amount of RTCS held shall apply to the combined emissions of the Gas Turbine 79-GT-1 and Duct Burner.

[**RULE 2005, 6-3-2011]**

[Devices subject to this condition: DX1, DX2]

K. Recordkeeping/Reporting

K40.x2 The operator shall provide to the District a source test report in accordance with the following specifications:

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT
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FACILITY PERMIT TO OPERATE
ULTRAMAR INC (NSR USE ONLY)

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

The operator shall comply with the terms and conditions set forth below:

Source test results shall be submitted to the District no later than 60 days after the source test was conducted.

Emission data shall be expressed in terms of concentration (ppmv) corrected to 15 percent oxygen (dry basis), mass rate (lb/hr), and lb/MMCF. In addition, solid PM emissions, if required to be tested, shall also be reported in terms of grains/DSCF.

All exhaust flow rate shall be expressed in terms of dry standard cubic feet per minute (DSCFM) and dry actual cubic feet per minute (DACFM).

All moisture concentration shall be expressed in terms of percent corrected to 15 percent oxygen.

Source test results shall also include the oxygen levels in the exhaust, fuel flow rate (CFH), the heating content of the fuel, the flue gas temperature, and the generator power output (MW) under which the test was conducted.

[**RULE 1303(a)(1)-BACT, 5-10-1996**; RULE 1303(a)(1)-BACT, 12-6-2002; **RULE 1303(b)(2)-Offset, 5-10-1996;** RULE 1303(b)(2)-Offset, 12-6-2002; **RULE 1703(a)(2)-PSD-BACT, 10-7-1988**; **RULE 2005, 6-3-2011]**

[Devices subject to this condition: DX1, DX2]

K67.10 The operator shall keep records, in a manner approved by the district, for the following parameter(s) or item(s):

fuel gas usage

fuel gas heating value

[[RULE 2011, 5-6-2005, RULE 2012, 5-6-2005]

[Devices subject to this condition: D1550]

K67.x1 The operator shall keep records in a manner approved by the District, for the following parameter(s) or item(s):

Refinery fuel gas and natural gas fuel use during the commissioning period.

Refinery fuel gas and natural gas fuel use after the commissioning period and prior to CEMS certification.

Refinery fuel gas and natural gas fuel use after CEMS certification.

[RULE 2005, 6-3-2011]

[Devices subject to this condition: DX1, DX2]