



**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 3 : CATALYTIC CRACKING					P13.1
System 7 : FCCU FRESH CATALYST AND CATALYST ADDITIVE LOADER					
VESSEL, FRESH CATALYST AND CATALYST ADDITIVE INJECTION SYSTEM, GRACE-DAVISON MULTI-LOADER, MODEL MLS-2452-AWC; HEIGHT: 6 FT 7 IN; WIDTH: 3 FT; LENGTH: 3 FT, WITH A/N : 492721 Permit to Construct Issued: TBD TWO FILTERS, CARTRIDGE TYPE, WITH PULSE JET CLEANING, FLEETLIFE, MODEL FA376094 OR EQUIVALENT, HEIGHT: 2 FT 6 IN, DIAMETER: 13.875 IN, INNER DIAMETER: 9.5 IN	Dnew			PM: (9) [RULE 404, 2-7-1986; RULE 405, 2-7-1986]	B27.x, C6.x, D12.x, D322.x, D381.1, K67.x

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

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

(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]



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

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]



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

- 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.

[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]



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

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 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.



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

PROCESS CONDITIONS

P13.1 All devices under this process are subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
Benzene	40CFR61, SUBPART	FF

[40CFR 61 Subpart FF, 12-4-2003]

[Processes subject to this condition : 1, 2, 3, 4, 5, 7, 8, 9, 10, 11, 12, 14]

DEVICE CONDITIONS

B. Material/FuelType Limits

B27.x The operator shall not use this equipment with any materials containing any toxic air contaminants (TACs) identified in the SCAQMD Rule 1401, as amended 03/07/2008.

The operator shall maintain records in a manner approved by the District, to demonstrate compliance with this condition.

[RULE 1401, 3-7-2008]

[Devices subject to this condition : Dnew]

C. Throughput or Operating Parameter Limits

C6.x The operator shall operate this equipment in such a manner that the differential pressure across the filter does not exceed 8 inches of water column.

[RULE 1304(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002; RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997; RULE 401, 3-2-1984; RULE 401, 11-9-2001]

[Devices subject to this condition : Dnew]



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

D. Monitoring/Testing Requirements

D12.x The operator shall install and maintain a(n) differential pressure gauge to accurately indicate the differential pressure across the filter.

The operator shall record and keep records of the differential pressure readings once per week.

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002; RULE 1304(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002; RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997; RULE 401, 3-2-1984; RULE 401, 11-9-2001; RULE 404, 2-7-1986; RULE 405, 2-7-1986]

[Devices subject to this condition : Dnew]

D322.x The operator shall perform annual inspection of the equipment and filter media for leaks, broken or torn filter media, and improperly installed media.

The operator shall maintain records in a manner approved by the District, to demonstrate compliance with this condition.

[RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997; RULE 401, 3-2-1984; RULE 401, 11-9-2001; RULE 404, 2-7-1986; RULE 405, 2-7-1986]

[Devices subject to this condition : Dnew]



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

D381.1 The operator shall conduct an inspection for visible emissions from all stacks and other emission points of this equipment whenever there is a public complaint of visible emissions, whenever visible emissions are observed, and on an annual basis, at least, unless the equipment did not operate during the entire annual period. The routine annual inspection shall be conducted while the equipment is in operation and during daylight hours. If any visible emissions (not including condensed water vapor) are detected, the operator shall take corrective action(s) that eliminates the visible emissions within 24 hours and report the visible emissions as a potential deviation in accordance with the reporting requirements in Section K of this permit.

The operator shall keep the records in accordance with the recordkeeping requirements in Section K of this permit and the following records:

- 1). Stack or emission point identification;
- 2). Description of any corrective actions taken to abate visible emissions; and
- 3). Date and time visible emission was abated.

[RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997; RULE 401, 3-2-1984; RULE 401, 11-9-2001]

[Devices subject to this condition : D946, D1566, D1568, Dnew]

K. Record Keeping/Reporting

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

The name of the person performing the inspection and/or maintenance of the filter media.

The date, time, and results of the filter media inspection.

The date, time, and description of any maintenance or repairs resulting from the filter media inspection.

[RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997; RULE 401, 3-2-1984; RULE 401, 11-9-2001;
RULE 404, 2-7-1986; RULE 405, 2-7-1986]

[Devices subject to this condition : Dnew]



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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
Process 3 : CATALYTIC CRACKING					P13.1
System 1: FCCU					S13.2, S15.5, S15.12, S42.1
REACTOR, FCC, 61-R-1R, WITH CYCLONE, HEIGHT: 153 FT 10 IN; DIAMETER: 15 FT 6 IN A/N: 494177 Permit to Construct Issued: TBD	D35				
REGENERATOR, FCC, 61-IN-1, WITH CYCLONE, HEIGHT: 100 FT 6 IN; DIAMETER: 26 FT 6 IN WITH A/N: 494177 Permit to Construct Issued: TBD	D36	C39	NOX: MAJOR SOURCE SOX: MAJOR SOURCE	[CO]: 500 PPMV (8) 40CFR 60 Subpart J, 10-4-1991, CONSENT DECREE, 6-16-2005 [CO]: 2000 PPMV (5) RULE 407,4-2-1982 [HAP]: (10) 40CFR 63 Subpart UUU, #2,4-11-2002 [NOX]: 80 PPMV (8) CONSENT DECREE, 6-16-2005 [PM]: 2 LBS/TON COKE BURN (8) 40CFR 60 Subpart J, 10-4-1991, CONSENT DECREE, 6-16-2005 [PM]: (9) RULE 404,2-7-1986; RULE 405,2-7-1986 [PM10]: 2.8 LBS/1000 BBL FRESH FEED (5), RULE 1105.1, 11-07-2003	A63.4, A63.8, A195.2, A195.4, B61.4, D29.2, D29.12, D29.13, D82.3, D90.4, D323.1, D425.1, D425.2, E73.5, E193.4, H23.27, K40.3
TANK, SURGE, 61-V-3, RAW OIL, HEIGHT: 35 FT; DIAMETER: 12 FT 6 IN A/N: 494177 Permit to Construct Issued: TBD	D37				

* (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
Process 3 : CATALYTIC CRACKING					P13.1
System 1: FCCU					S13.2, S15.5, S15.12, S42.1
BLOWER, 61-BL-1, MAIN AIR, 80,142 CFM, SINGLE STAGE CENTRIFUGAL WITH A 8,000 HP MOTOR (REPLACES 6,000 HP MOTOR) A/N: 494177 Permit to Construct Issued: TBD	D1023				
VESSEL, SEPARATOR, 61-CY-3, THIRD STAGE A/N: 494177 Permit to Construct Issued: TBD	D1024				
TANK, SURGE, 61-V-10, FLUE GAS COOLER, HEIGHT: 20 FT; DIAMETER: 6 FT A/N: 494177 Permit to Construct Issued: TBD	D1247				
EJECTOR, 61-BLX-1-EJ-1 A/N: 494177 Permit to Construct Issued: TBD	D1249				
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 494177 Permit to Construct Issued: TBD	D1321			[HAP]: (10) 40CFR 63 Subpart CC, #5A,5-25-2001	

* (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:

PROCESS CONDITIONS

P13.1 All devices under this process are subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
Benzene	40CFR61, SUBPART	FF

[40CFR61, SUBPART FF, 12-4-2003]

[Processes subject to this condition: 1, 3, 4, 5, 7, 8, 9, 10, 11, 12, 14]

SYSTEM CONDITIONS:

S13.2 All devices under this system are subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
VOC	District Rule	1123

[RULE 1123, 12-07-1990]

[Systems subject to this condition: Process 1, System 1, 3, 5; Process 2, System 1, 3, 5; Process 3, System 1; Process 4, System 1, 3, 5, 7; Process 5, System 1; Process 7, System 1, 3; Process 8, System 1, 2, 3, 4, 5; Process 9, System 1; Process 10, System 1, 2, 3, 4, 5, 6, 7, 8, 10, 11, 12; Process 11, System 1, 2; Process 17, System 46, 50, 97]

S15.5 The vent gases from all affected devices of this process/system shall be vented as follows:

All vent gases under normal operating conditions shall be directed to the vapor recovery system(s).

This process/system shall not be operated unless the vapor recovery system(s) is in full use and has a valid permit to receive vent gases from this system.

[RULE 1303(b)(1)-BACT, 5-10-1996; RULE 1303(b)(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 1, System 5; Process 2, System 1, 3, 5; Process 3, System 1; Process 4, System 1, 3, 5, 7; Process 5, System 1; Process 7, System 1, 3; Process 8, System 1, 2, 3, 4, 5; Process 9, System 1; Process 10, System 1, 2, 3, 4, 5, 6, 7, 8, 11, 12; Process 13, System 1; Process 17, System 50, 97]



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

S15.12 The vent gases from all affected devices of this process/system shall be vented as follows:

All emergency vent gases shall be directed to a blowdown vapor recovery system and/or blowdown flare system.

When the emergency vent gases are being directed to the blowdown vapor recovery system, this process/system shall not be operated unless the blowdown vapor recovery system is in full use and has a valid permit to receive vent gases from this system.

When the emergency vent gases are being directed to the blowdown flare system, this process/system shall not be operated unless the blowdown flare system is in full use and has a valid permit to receive vent gases from this system.

[RULE 1303(b)(1)-BACT, 5-10-1996; RULE 1303(b)(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 1, System 1, 3, 5; Process 2, System 1, 3, 5; Process 3, System 1; Process 4, System 1, 3, 5, 7; Process 5, System 1; Process 7, System 1, 3; Process 8, System 1, 2, 3, 4; Process 9, System 1; Process 10, System 1, 2, 3, 4, 5, 6, 7, 8, 10, 11, 12; Process 13, System 1; Process 14, System 3, 5, 6; Process 17, System 46, 50, 88, 97]

S42.1 The operator shall not operate the FCCU unless, by December 31, 2008, the operator complies with the requirements of the following rule:

Contaminant	Rule	Rule Number/Subpart
PM10	District Rule	1105.1
Ammonia (NH3)	District Rule	1105.1

If the operator fails to comply with any of the terms and conditions listed below, the operator shall be subject to the compliance deadlines as specified in Rule 1105.1(d)(1).

- a. Award all contracts to design the control technology selected for compliance with Rule 1105.1(d)(1) by September 15, 2006. Award all contracts to construct and install the control technology by July 1, 2007.
- b. Submit information necessary for the preparation of the California Environmental Quality Act (CEQA) documents for equipment installation and modification for Rule 1105.1(d)(1) compliance, by August 15, 2006.
- c. Submit complete applications for permits to construct the control technology selected for compliance with emission limits specified in Rule 1105.1(d)(1) by October 1, 2006. Upon receiving a letter from the AQMD deeming the applications completed by October 1, 2006, Ultramar will be considered in compliance with this requirement.



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

- d. Begin construction of the control technology permitted by AQMD for compliance with Rule 1105.1(d)(1) by October 1, 2007, or within 30 days of receiving all necessary permits, whichever is later.
- e. Complete demolition, site preparation and excavation no later than November 2, 2007.
- f. Have available on-site, all components needed for the complete assembly of the technology selected, which is electrostatic precipitation, by June 1, 2008.
- g. Start operation of the control equipment permitted to ensure compliance with Rule 1105.1(d)(1) by December 1, 2008.
- h. Comply with Rule 1105.1(d)(1) no later than December 31, 2008.

[RULE 1105.1, 11-7-2003]

[Systems subject to this condition: Process 3, System 1]

DEVICE CONDITIONS:

A. Emission Limits

A63.4 The operator shall limit emissions from this equipment as follows:

CONTAMINANT	EMISSIONS LIMIT
CO	Less than or equal to 955 LBS PER DAY
PM	Less than or equal to 562 LBS PER DAY

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

[Devices subject to this condition: D36]

A63.8 The operator shall limit emissions from this equipment as follows:

CONTAMINANT	EMISSIONS LIMIT
Visible emissions	Less than or equal to 30 Percent opacity

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

[Devices subject to this condition: D36]



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

A195.2 The 500 ppmv CO emission limit(s) is averaged over a one-hour block and at 0% oxygen on a dry basis.

[CONSENT DECREE VALERO, 6-16-2005]

[Devices subject to this condition: D36]

A195.4 The 80 ppmv NOx emission limit is averaged over 365-day rolling and at 0% oxygen.

[CONSENT DECREE VALERO, 6-16-2005]

[Devices subject to this condition: D36]

B. Material/Fuel Type Limits

B61.4 The operator shall not use fresh feed containing the following specified compounds:

Compound	Weight Percent
Total sulfur	greater than 0.3

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

[Devices subject to this condition: D36]

D. Monitoring/Testing Requirements

D29.2 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
PM emissions	Approved District method	District-approved averaging time	Outlet

The test(s) shall be conducted at least annually.

The test shall be conducted when the equipment is operating under normal conditions.



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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

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

[Devices subject to this condition: D36]

D29.12 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
PM emissions	Approved District method	District-approved averaging time	Outlet

The test(s) shall be conducted at least annually.

The test shall be conducted when the equipment is operating under normal conditions.

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

Source test results shall include the following parameters: FCCU feed rate; catalyst recirculation rate; coke burn rate; oxygen content of exhaust gases; exhaust flow rate; exhaust gas moisture content; the flue gas temperature at the outlet of the ESP; and the average current, voltage, and spark rate at each ESP fields

[**RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997; RULE 401, 3-2-1984; RULE 404, 2-7-1986, RULE 405, 2-7-1986, 40 CFR 60 Subpart J, 6-24-2008**]

[Devices subject to this condition: D36]

D29.13 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	District Method 5.2 Modified with EPA Method 201A Cyclone (filterables compliance, condensables information)	District-approved averaging time	Stack outlet of ESPs
PM10 emissions	District Method 5.2 (filterables compliance, condensables information)	District-approved averaging	Stack outlet of ESPs



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Pollutant(s) to be tested	Required Test Method(s)	time Averaging Time	Test Location
PM10 emissions	District Method 5.2 with Previously Determined PM10 to PM Ratio Applied (filterables compliance, condensables information)	District-approved averaging time	Stack outlet of ESPs
PM10 emissions	EPA Method 5 (filterables compliance) and EPA Method 202 (condensables information)	District-approved averaging time	Stack outlet of ESPs
NH3 emissions	District Method 207.1	1-hour	Stack outlet of ESPs
CO emissions	District Method 100.1 or 10.1	1-hour	Stack outlet of ESPs

The operator shall choose any of the PM10 test methods as indicated above to comply with Rule 1105.1 requirements.

For the purposes of this condition, filterable PM10 is PM10 collected on the cyclone exit, probe, and filter(s) of the applicable test methods referenced above. Condensable PM10 is the PM10 collected in the impingers of the applicable test methods referenced above.

The test shall be conducted after the AQMD approval of the source test protocol, but no later than 180 days after initial startup of the new ESP. The AQMD engineer shall be notified in writing of the date and time of the test at least 10 days prior to the test.

The test shall be conducted at a minimum with the following modes of operation:

1. ESPs 61-PR-1A and 61-PR-1B in full operation with 4 T/Rs operating and ESP 61-PR-2 with 2 T/Rs operating.
2. ESP 61-PR-2 with 6 T/Rs operating and ESPs 61-PR-1A and 61-PR-1B in idle mode.
3. ESPs 61-PR-1A and 61-PR-1B in operation with 2 T/Rs operating [i.e. one T/R each] and ESP 61-PR-2 with 4 T/Rs operating.

Ultramar may propose additional modes of ESP operation to be tested in the test protocol.

The test shall be conducted when the FCCU is operating with at least 80 percent of the total feed rate.



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

The tests shall be conducted at least every year with the above three operating modes after the initial source test.

Source test results shall include the following parameters: FCCU feed rate in BPD; catalyst recirculation rate and make-up rate in BPD; catalyst inventory in the equipment; fresh catalyst feed; sulfur content (%) in the feed, coke burn-off rate; oxygen content of exhaust gases; exhaust flow rate; exhaust gas moisture content; the flue gas temperature at the outlet of the ESP; ammonia injection rate prior to the ESP (if applicable) and the average current in amps, voltage in volts, and spark rate at each ESP in use.

[RULE 1105.1, 11-7-2003; RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002; RULE 404, 2-7-1986, RULE 405, 2-7-1986, RULE 407, 4-2-1982]

[Devices subject to this condition: D36]

D82.3 The operator shall install and maintain a CEMS to measure the following parameters:

CO concentration in ppmv

Oxygen concentration in percent volume

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

[Devices subject to this condition: D36]

D90.4 The operator shall monitor the opacity at the stack according to the following specifications:

The operator shall maintain and operate the opacity meter and record the readings as required pursuant to 40CFR60, Subpart J at all times except during periods of required maintenance and malfunction of the opacity meter.

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

[Devices subject to this condition: D36]

D323.1 The operator shall conduct an inspection for visible emissions from all stacks and other emission points of this equipment whenever there is a public complaint of visible emissions, whenever visible emissions are observed, and on an annual basis, at least, unless the equipment did not operate during the entire annual period. The routine annual inspection shall be conducted while the equipment is in operation and during daylight hours.

If any visible emissions (not including condensed water vapor) are detected that last more than three minutes in any one hour, the operator shall verify and certify within 24 hours that the equipment



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

causing the emission and any associated air pollution control equipment are operating normally according to their design and standard procedures and under the same conditions under which compliance was achieved in the past, and either:

- 1). Take corrective action(s) that eliminates the visible emissions within 24 hours and report the visible emissions as a potential deviation in accordance with the reporting requirements in section k of this permit; or
- 2). Have a CARB-certified smoke reader determine compliance with the opacity standard, using EPA Method 9 or the procedures in the CARB manual "Visible Emission Evaluation", within three business days and report any deviations to AQMD.

The operator shall keep the records in accordance with the recordkeeping requirements in Section K of this permit and the following records:

- 1). Stack or emission point identification;
- 2). Description of any corrective actions taken to abate visible emissions;
- 3). Date and time visible emission was abated; and
- 4). All visible emission observation records by operator or a certified smoke reader.

[RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997; RULE 401, 3-2-1984]

[Devices subject to this condition: D36, D68, D69, D933, D934, D935, D936, D937, D938, D939]

D425.1 The operator shall have the existing NO_x CEMS monitoring this device recertified within 90 days of the start-up of the modification of this device. If the CEMS is not recertified within 90 days of start-up of this device, the facility permit holder shall calculate and report NO_x emissions in accordance with Rule 2012, Appendix A, Chapter 2, Paragraph (B)(16) - Recertification Requirements.

[RULE 2012, 5-6-2005]

[Devices subject to this condition: D36]

D425.2 The operator shall have the existing SO_x CEMS monitoring this device recertified within 90 days of the start-up of the modification of this device. If the CEMS is not recertified within 90 days of start-up of this device, the facility permit holder shall calculate and report SO_x emissions in accordance with Rule 2011, Appendix A, Chapter 2, Paragraph (B)(17) - Recertification Requirements.

[RULE 2011, 5-6-2005]

[Devices subject to this condition: D36]



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

E. Equipment Operation/Construction Requirements

E73.5 Notwithstanding the requirements of Section E conditions, the operator may, at his discretion, choose not to use ammonia injection if:

The FCCU meets the Rule 1105.1 filterable PM10 emission limit of 2.8 pounds per thousand barrels of fresh feed.

[RULE 1105.1, 11-7-2003]

[Devices subject to this condition: D36]

E193.4 The operator shall operate and maintain this equipment as follows:

The operator shall not operate any mode specified in Condition D29.13 if the source test results show that operating mode exceeds PM (2.8 lbs per 1,000 bbl fresh feed) and NH3 (10 ppmv) limits as specified in Rule 1105.1.

Notwithstanding the requirements of Section E conditions, the operator is not required to operate all three ESPs (61-PR-1A, 61-PR-1B, 61-PR-2) in full operation when venting the FCCU Regenerator catalyst fine exhaust if:

The operator shall maintain in operation a minimum of 6 of 12 transformer/rectifier sets.

[RULE 1105.1, 11-7-2003]

[Devices subject to this condition: D36]

H. Applicable Rules

H23.27 This equipment is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
PM10	District Rule	1105.1
HAPs	40CFR63, SUBPART	UUU
CO	40CFR60, SUBPART	J
PM	40CFR60, SUBPART	J
Opacity	40CFR60, SUBPART	J
SOx	40CFR60, SUBPART	J



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

[RULE 1105.1, 11-7-2003; 40CFR63 Subpart J, 6-24-2008; 40CFR 63 Subpart UUU, 4-20-2006]

[Devices subject to this condition: D36]

K. Recordkeeping/Reporting

K40.3 The operator shall provide to the District a source test report in accordance with the following specifications:

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

PM emission data from testing performed per condition D29.13 shall be reported in terms of mass rate (lbs/hr) and in terms of grains /DSCF.

CO emission data shall be reported in terms of mass rate (lbs/hr) and in terms of concentration (ppmv), corrected to 3 percent oxygen, dry basis.

Ammonia emission data shall be expressed in terms of concentration (ppmv), corrected to 3 percent oxygen, dry basis.

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).

Source test results shall also include the following operating parameters under which the test was conducted:

Source test results shall include the following: FCCU feed rate in BPD; catalyst recirculation rate and make-up rate in BPD; catalyst inventory in the equipment; fresh catalyst feed; sulfur content (%) in the feed; coke burn-off rate; O₂ content of exhaust gases; exhaust flow rate; exhaust gas moisture content; the flue gas temperature at the outlet of the ESP; ammonia injection rate prior to the ESP (if applicable) and the average current in amps, voltage in volts, and spark rate at each ESP in use.

This condition shall only apply to source test condition D29.13.

[RULE 1105.1, 11-7-2003, RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002; RULE 404, 2-7-1986, RULE 405, 2-7-1986, RULE 407, 4-2-1982]

[Devices subject to this condition: D36]