



**FACILITY PERMIT TO OPERATE  
EDGINGTON OIL COMPANY**

**SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS**

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

Additions to the equipment description are noted in underlines. Deletions are noted in ~~strikeouts~~.

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emission* And Requirements	Conditions
<b>Process 1: DISTILLATION PROCESS</b>					
<b>System 5: CRUDE UNIT HEATER SYSTEM</b>					
HEATER, VACUUM, H3A/B, NATURAL GAS, WITH LOW NOX BURNER, 20 MMBTU/HR WITH A/N: 309885	D179		NOX: LARGE SOURCE**; <del>SOX: MAJOR SOURCE**</del>	CO: 400 PPMV(5) [ <b>RULE 1146, 11-17- 2000</b> ]; CO: 2000 PPMV (5A) [ <b>RULE 407, 4-2-1982</b> ]; NOX: 37 PPMV (3) [ <b>RULE 2012, 5-6-2005</b> ]; PM: (9) [ <b>RULE 404, 2-7- 1986</b> ]; PM: 0.1 GRAINS/SCF (5) [ <b>RULE 409, 8-7-1981</b> ]; <del>SOX: 16.9 LBS/MMSCF (1) [<b>RULE 2011, 5-6-2005</b>]</del>	D328.1

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emission* And Requirements	Conditions
<b>Process 1: DISTILLATION PROCESS</b>					
<b>System 5: CRUDE UNIT HEATER SYSTEM</b>					
HEATER, VACUUM, H-201, NATURAL GAS, 18 MMBTU/HR WITH A/N: 336128  <del>Permit to Construct Issued: 02/13/98</del>  BURNER, THREE (3), NATURAL GAS, JOHN ZINK, MODEL PSMR-16SP WITH VENT INSERTS AND PILOTS, WITH LOW NOX BURNER, 18 MMBTU/HR	D187		NOX: LARGE SOURCE**	CO: 400 PPMV (5) [ <b>RULE 1146, 11-17- 2000</b> ]; CO: 2000 PPMV (5A) [ <b>RULE 407, 4-2-1982</b> ]; NOX: 37 PPMV (3) [ <b>RULE 2012, 5-6-2005</b> ]; PM: (9) [ <b>RULE 404, 2-7- 1986</b> ]; PM: 0.1 GRAINS/SCF (5) [ <b>RULE 409, 8-7-1981</b> ]	D328.1
<b>PROCESS 2: ASPHALT OXIDIZING</b>					
<b>SYSTEM 8: ASPHALT PROCESS HEATING SYSTEM</b>					
HEATER, SOUTH ASPHALT, <u>H-</u>	D280		NOX: LARGE	CO: 400 PPMV (5)	<del>D332.1</del>



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53, NATURAL GAS, 5 MMBTU/HR WITH A/N 357907  Permit to Construct Issued: 08/19/99  BURNER, NATURAL GAS, GORDON-PIATT, WITH LOW NOX BURNER, STEAM OR WATER INJECTION, 5 MMBTU/HR			SOURCE**	[RULE 1146, 11-17-2000]; CO: 2000 PPMV (5A) [RULE 407, 4-2-1982]; NOX: 37 PPMV (3) [RULE 2012, 5-6-2005]; PM: (9) [RULE 404, 2-7-1986]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]	<u>D328.1</u>
<b>PROCESS 3: TREATING/STRIPPING</b>					
<b>SYSTEM 4: REFINERY FUEL GAS TREATING SYSTEM</b>					S18.1, S31.1
KNOCK OUT POT, D453, VENT GAS, HEIGHT: 6 FT; DIAMETER: 5 FT A/N: <del>367625</del> <u>471236</u>  Permit to Construct Issued: 10/04/00	D19				<del>C8.2, C8.3</del>
SCRUBBER, PACKED BED, D455, CAUSTIC, PACKED BED, VENT GAS, HEIGHT: 20 FT; DIAMETER: 6 FT A/N: <del>367625</del> <u>471236</u>  Permit to Construct Issued: 10/04/00	D20				C8.2, C8.3
KNOCK OUT POT, D404, HEIGHT: 6 FT; DIAMETER: 3 FT A/N: <del>367625</del> <u>471236</u>  Permit to Construct Issued: 10/04/00	D201				
SCRUBBER, PACKED BED, D402, CAUSTIC, PACKED BED, HEIGHT: 20 FT; DIAMETER: 6 FT A/N: <del>367625</del> <u>471236</u>  Permit to Construct Issued: 10/04/00	D300				<u>C8.2, C8.4</u>
COMPRESSOR, C-202 A/B, OFF GAS, CENTRIFUGAL TYPE, 7.5 H. P. A/N: 471236  Permit to Construct Issued: 11/15/07	D295				H23.13
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 471236	<u>Dxxx</u>				<u>H23.13</u>
<b>PROCESS 7: STEAM GENERATION</b>					
BOILER, B-301, NATURAL GAS, FOSTER WHEELER TYPE D, 35 MMBTU/HR WITH A/N: 339741	D196		NOX: LARGE SOURCE**	CO: 400 PPMV NATURAL GAS (5); CO: 2000 PPMV (5A) [RULE 407, 4-2-1982];	D328.1



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<p>Permit to Construct Issued: 07/21/98</p> <p>BURNER, NATURAL GAS, GORDON PIATT WIND BOX LOW NOX BURNER, MODEL WDV-G- 25-1FG, 35 MMBTU/HR</p>				<p>NOX: 37 PPMV (3) [<b>RULE 2012, 5-6-2005</b>]; PM: 0.1 GRAINS/ SCF (5) <b>RULE 409, 8-7-1981</b>]</p>	
<p>BOILER/INCINERATOR, WASTE HEAT, B-501, NATURAL GAS, PROCESS GAS, REFINERY GAS, WITH LOW NOX BURNER, 26 MMBTU/HR WITH A/N: <del>368878</del> 383221</p> <p>Permit to Construct Issued: 09/27/00</p> <p>BURNER, NATURAL GAS, REFINERY GAS, WITH LOW NOX BURNER, 26 MMBTU/HR</p>	D38		<p>NOX: LARGE SOURCE **; SOX: <del>MAJOR</del> SOURCE PROCESS UNIT - SUPER COMPLIANT</p>	<p>CO: 400 PPMV (5A) [<b>RULE 1146, 11-17- 2000</b>]; CO: 2000 PPMV (5) [<b>RULE 407, 4-2- 1982</b>]; NOX: <del>37 PPMV</del> (<del>3</del>) 0.104 LBS/MSCF (1) [<b>RULE 2012, 5-6-2005</b>]; PM: 0.1 GRAINS/SCF (5) [<b>RULE 409, 8-7-1981</b>]; SOX: <del>16.9 LBS/MMSCF (1)</del> 0.0299 LBS/BBL (1) [<b>RULE 2011, 5-6-2005</b>]</p>	A63.1, B61.2, C8.1, D28.1, D90.1, D297.1, D323.1, D328.1, H23.3, K40.1

**CONDITIONS**

S18.1 All affected devices listed under this process/system shall be used only to receive, recover and/or dispose of vent gases routed from the system(s) or process(es) listed below, in addition to specific devices identified in the "connected to" column:

Crude Units 1 & 2 (Process: 1, System: 1, 2, 3 & 4)

Sour water stripping (Process: 3, System: 2)

Crankcase oil distillation (Process: 8, System: 6)

Naphtha stabilizer (Process: 8, System: 1)

[**RULE 1303(a)-BACT, 5-10-1996**; RULE 1303(a), 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 3, System 4]

S31.1 The following BACT requirements shall apply to VOC service fugitive components associated with the devices that are covered by application number(s) 408951 and 367625:



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

All valves shall be bellows sealed valves except in the following applications: valves in heavy liquid service, control valves, instrument piping/tubing valves, valves requiring torsional stem motion, situations where valve failure could pose safety hazard (e.g., drain valves with stems in horizontal position), retrofit/special and valves not commercially available (e.g., valves larger than 8", valves larger than 2" that require special alloys or connectors, etc.)

The District shall approve all exceptions to this requirement

The operator shall provide the following information to the District no later than 60 days after initial startup:

(a) Process and instrumentation diagrams (or some other equivalent District-approved diagrams) that identify all valves. Along with the diagrams, the operator shall provide a listing of all valves categorized by location, type, size, accessibility and service; and,

(b) A recalculation of fugitive emissions based on actual fugitive components installed and removed from service. All valves shall be categorized by size and service. The operator shall submit a listing of all non-bellows seal valves categorized by tag number, type, size, body material, service, operating temperature, operating pressure and reason(s) why bellows seal valves were not used.

All non-bellows seal valves shall be inspected monthly using EPA Method 21. The operator may begin quarterly inspections, upon District approval, after two consecutive monthly inspections in which only two percent or less of non-bellows seal valves are found to be leaking above 500 ppmv.

All valves and new major components shall be physically identified in the field with special marking that distinguish the components from non-BACT components. Additionally, all new components shall be identified as BACT components in the records.

The leak rate from non-bellows seal valves and other non-valve fugitive components shall not exceed 500 ppmv. A leak rate greater than 500 ppmv, but less than or equal to 1,000 ppmv, shall be repaired within 14 calendar days after detection of the leak.

[**RULE 1173, 5-13-1994**; RULE 1173, 2-6-2009; **RULE 1303(a)(1)-BACT, 5-10-1996**;  
RULE 1303(a)(1)-BACT, 12-6-2002]

[Systems subject to this condition : Process 2, System 7; Process 3, System 4]



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

A63.1 The operator shall limit emissions from this equipment as follows:

CONTAMINANT	EMISSIONS LIMIT
SOX	Less than or equal to 13900 LBS IN ANY ONE YEAR

For the purposes of this condition, the limit(s) shall be based on the total combined facility emissions.

[**RULE 2011(c)(4)-Super Compliance, 12-5-2003**; **RULE 2011(c)(4) - Super Compliance, 1-7-2005**]

[Devices subject to this condition : D38]

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 shall be based on a rolling 3-hour averaging period

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

[Devices subject to this condition : D38]

C8.1 The operator shall use this equipment in such a manner that the temperature being monitored, as indicated below, is not less than 1400 Deg F.

To comply with this condition, the operator shall install and maintain a(n) temperature gauge to accurately indicate the temperature in the firebox of the boiler.

The measuring device or gauge shall be accurate to within plus or minus 50 degrees Fahrenheit. It shall be calibrated once every 12 months.

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

[**RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997**; **RULE 470, 5-7-1976**]

[Devices subject to this condition : D38]



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### SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

- C8.2 The operator shall use this equipment in such a manner that the caustic strength being monitored, as indicated below, is not less than 5 percent.

The operator shall monitor the caustic strength of the recirculating scrubbing solution once a day.

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

[Devices subject to this condition: ~~D19~~, D20, D300, C376]

- C8.3 The operator shall use this equipment in such a manner that the flow rate being monitored, as indicated below, is not less than 20 gpm.

The operator shall monitor the flow rate of the scrubbing solution twice a day

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

[Devices subject to this condition: ~~D19~~, D20]

- C8.4 The operator shall use this equipment in such a manner that the flow rate being monitored, as indicated below, is not less than 15 gpm.

The operator shall monitor the flow rate of the scrubbing solution twice a day

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

[Devices subject to this condition: D300]



## FACILITY PERMIT TO OPERATE EDGINGTON OIL COMPANY

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

D28.1 The operator shall conduct source test(s) in accordance with the following specifications:

The test shall be conducted on or before July 1, 1996, and annually thereafter, by a qualified source tester in accordance with the protocol approved by the District.

The test shall be conducted to determine the SOX emissions at the outlet.

The test shall be conducted to demonstrate compliance with the Super Compliance provisions of Rules 2011(4)(C) and 2011(4)(D), as amended September 8, 1995.

**[RULE 2011(c)(4)-Super Compliance, 12-5-2003; RULE 2011(c)(4) - Super Compliance, 1-7-2005]**

D90.1 The operator shall periodically monitor the H<sub>2</sub>S concentration at the inlet of this device according to the following specifications:

The Alternative Monitoring Plan (AMP) approved by the United States Environmental Protection Agency (USEPA) on May 30, 2006 for the periodic monitoring and reporting of H<sub>2</sub>S concentration for refinery gas stream to FGCD B-501 (D38).

In addition, the operator shall also comply with all other requirements of the AMP issued by the USEPA on May 30, 2006 for B-501.

**[40CFR 60 Subpart A, 6-13-2007; 40CFR 60 Subpart J, 6-24-2008]**

[Devices subject to this condition : D38]

D297.1 This equipment is subject to the Super Compliance provisions of Rule 2011. In order to maintain designation as a Super Compliant facility, the operator shall conduct annual source tests of this equipment to determine the SO<sub>x</sub> emissions at the outlet. The test shall be conducted to demonstrate compliance with Rule 2011(c)(4)(C) and 2011(c)(4)(D), as amended September 8, 1995. The operator shall also provide source tests reports to the District no more than sixty days after the date of the source tests, and the report for the first source test shall be provided no later than 31-mar-2001.

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

[Devices subject to this condition : D38]



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

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 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 : D38]



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

D328.1 The operator shall determine compliance with the CO emission limit(s) either: (a) conducting a source test at least once every five years using AQMD Method 100.1 or 10.1; or (b) conducting a test at least annually using a portable analyzer and AQMD-approved test method. The test shall be conducted when the equipment is operating under normal conditions to demonstrate compliance with Rule 407 and Rule 1146. The operator shall comply with all general testing, reporting, and recordkeeping requirements in Sections E and K of this permit.

[**RULE 1146, 11-17-2000; RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997; RULE 407, 4-2-1982**]

[Devices subject to this condition: D38, D187, D196, D280]

~~D332.1 The operator shall determine compliance with the CO emission limit(s) by conducting a test at least once every five years using a portable analyzer and AQMD approved test method or, if not available, a non AQMD approved test method. The test shall be conducted when the equipment is operating under normal conditions to demonstrate compliance with CO concentration limits. The operator shall comply with all general testing, reporting, and recordkeeping requirements in Sections E and K of this permit.~~

~~[RULE 1146, 11-17-2000; RULE 3004(a)(4) Periodic Monitoring, 12-12-1997; RULE 407, 4-2-1982]~~

~~[Devices subject to this condition: D280]~~

*Condition D332.1 has been deleted from the permit. Due to similarities with condition D328.1, device D280 is now tagged to condition D328.1 for streamlining purposes.*

H23.3 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 : D38]



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

H23.13 This equipment is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
VOC	40CFR60, SUBPART	GGG
VOC	District Rule	1173

[RULE 1173, 5-13-1994; RULE 1173, 2-6-2009; 40CFR 63 Subpart GGG, 4-20-2006]

[Devices subject to this condition: D295, Dxxx]

K40.1 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.

Emission data shall be expressed in terms of lbs/MM cubic feet.

[RULE 463, 5-6-2005]

[Devices subject to this condition: D38]