



FACILITY PERMIT TO OPERATE EXXONMOBIL OIL CORPORATION

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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 1: CRUDE DISTILLATION UNIT					P13.1
System 6: CRUDE HEATING SYSTEM					
HEATER, ATMOSPHERIC DISTILLATION COLUMN CHARGE, 1F-1, NATURAL GAS, REFINERY GAS, WITH LOW NOX BURNER, 457 MMBTU/HR WITH <u>A/N: 442858-510396</u> BURNER, NATURAL GAS, REFINERY GAS, WITH LOW NOX BURNER, 60 TOTAL; 457 MMBTU/HR	D913	<u>Sx1</u> , C916	NOX: MAJOR SOURCE**; SOX: MAJOR SOURCE**	CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; PM: (9) [RULE 404, 2-7-1986]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]	B61.3, D90.12, D328.1, E193.16, <u>E448.x3</u> , H23.13, K171.10
<u>STACK, EAST & WEST, HEATER 1F-1 BYPASS STACKS, NORMALLY CLOSED, EQUIPPED WITH STACK DAMPER POSITION MONITOR, LOCATED UPSTREAM OF NH3 INJECTION GRIDS & SCR, 2 TOTAL</u> <u>A/N: 510396</u>	<u>Sx1</u>	<u>D913</u>			<u>E448.x3</u>
HEATER, VACUUM DISTILLATION COLUMN CHARGE, 1F-2, NATURAL GAS, REFINERY GAS, WITH LOW NOX BURNER, 161 MMBTU/HR WITH <u>A/N: 455166-510397</u> BURNER, NATURAL GAS, REFINERY GAS, WITH LOW NOX BURNER, 40 TOTAL; 161 MMBTU/HR	D914	<u>Sx2</u> , C916	NOX: MAJOR SOURCE**; SOX: MAJOR SOURCE**	CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; PM: (9) [RULE 404, 2-7-1986]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]	B61.3, D90.12, D328.1, E193.16, <u>E448.x3</u> , H23.13,
<u>STACK, EAST & WEST, HEATER 1F-2 BYPASS STACKS, NORMALLY CLOSED, EQUIPPED WITH STACK DAMPER POSITION MONITOR, LOCATED UPSTREAM OF NH3 INJECTION GRIDS & SCR, 2 TOTAL</u> <u>A/N: 510397</u>	<u>Sx2</u>	<u>D914</u>			<u>E448.x3</u>
SELECTIVE CATALYTIC	C916	D913		NH3: 20 PPMV (4)	D12.2,

* (1) Denotes RE CLAIM emission factor	(2) 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
(7) Denotes NSR applicability limit	(8)(8A)(8B) Denotes 40 CFR limit (e.g. NSPS, NESHAP, 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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REDUCTION, WITH FIXED BED REACTOR AND HONEYCOMD TYPE CATALYST BED WITH A/N: 258222 AMMONIA INJECTION		D914 S1731		[RULE 1303(a)(1)-BACT, 5-10-1996]	D12.8, D28.11, E71.7
STACK, MAIN STACK, COMMON TO HEATERS 1F-1 & 1F-2 A/N: 455166-510397	S1731	C916			
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 455166-510397	D1789			HAP: (10) [40CFR 63 Subpart CC, #5A, 6-23-2003]	H23.34
Process 5: CATALYTIC REFORMING UNIT					P13.1
System 5: PLATFORMER NO. 2 HEATING SYSTEM					
HEATER, PLATINUM REFORMER NO. 2 REACTOR CHARGE, 19F-1, NATURAL GAS, REFINERY GAS, WITH LOW NOX BURNER, 288 MMBTU/HR WITH A/N: 278853 515123 BURNER, FIFTY-TWO LO-NOX, NATURAL GAS, REFINERY GAS, WITH LOW NOX BURNER, 50 TOTAL; 288 MMBTU/HR	D924	Sx1, C301	NOX: MAJOR SOURCE**; SOX: MAJOR SOURCE**	CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; PM: (9) [RULE 404, 2-7-1986]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]	D328.1, E193.16, E448.x4, H23.13
STACK, HEATER 19F-1 BYPASS STACKS, NORMALLY CLOSED, EQUIPPED WITH DAMPER POSITION MONITOR. LOCATED UPSTREAM OF NH3 INJECTION GRIDS & SCR, 2 TOTAL A/N: 515123	Sx1	D924			E448.x4,
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 278853 515123	D2371			HAP: (10) [40CFR 63 Subpart CC, #5A, 6-23-2003]	H23.34

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
HAPs	40CFR61, SUBPART	FF

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| * (1) Denotes RE CLAIM emission factor | (2) 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 |
| (7) Denotes NSR applicability limit | (8)(8A)(8B) Denotes 40 CFR limit (e.g. NSPS, NESHAP, 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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SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

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

[Processes subject to this condition: 1, 2, 3, 4, 5, 7, 8, 9, 11, 12, 13, 14, 15, 20, 22, 23]

DEVICE CONDITIONS

B61.3 The operator shall not use fuel gas containing the following specified compounds:

Compound	ppm by volume
H2S greater than	160

[40CFR 60 Subpart J, 06-24-2008]; Consent Decree Civil Case No. C 5809, 12-13-2005]

[Devices subject to this condition : D83, D84, D85, D120, C164, D231, D232, D234, D235, D367, D833, D913, D914, D917, D918, D920, D925, D927, D928, D929, D930, D931, D949, D950, D1403]

D12.2 The operator shall install and maintain a(n) pressure gauge to accurately indicate the differential pressure across the SCR bed.

[RULE 2005, 5-6-2005]

[Devices subject to this condition : C233, C236, C301, C395, C916, C923, C1238, C1241]

D12.8 The operator shall install and maintain a(n) temperature reading device to accurately indicate the temperature at the SCR inlet.

[RULE 2005, 5-6-2005]

[Devices subject to this condition: C233, C236, C301, C395, C916, C923, C1238, C1241]

D28.11 The operator shall conduct source test(s) in accordance with the following specifications:

The test shall be conducted annually to determine the NH3 emission.

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997]

[Devices subject to this condition : C233, C236, C301, C395, C916, C1238, C1241]

D90.12 The operator shall continuously monitor the H2S concentration in the fuel gases before being burned in this device according to the following specifications:

The operator shall monitor the H2S concentration at the outlet of the fuel gas mix drum 64C-4 (Device D838) for fuel combustion devices.

The operator shall use Gas Chromatography (GC 34) meeting the requirements of 40CFR60 Subpart J, Method 11 to monitor the parameter.

* (1) Denotes RE CLAIM emission factor	(2) 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
(7) Denotes NSR applicability limit	(8)(8A)(8B) Denotes 40 CFR limit(e.g. NSPS, NESHAP, etc.)
(9) See App B for Emission Limits	(10) See Section J for NESHAP/MACT requirements

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FACILITY PERMIT TO OPERATE EXXONMOBIL OIL CORPORATION

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

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

[40CFR 60 Subpart J, 6-24-2008; CONSENT DECREE CIVIL CASE No. 05 C 5809, 12-13-2005]

[Devices subject to this condition : D83, D84, D85, D120, C164, D231, D232, D234, D235, D367, D833, D913, D914, D917, D918, D920, D927, D928, D929, D930, D931, D949, D950, D1403]

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 the emission limits. The operator shall comply with all general testing, reporting, and recordkeeping requirements in Sections E and K of this permit.

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

[Devices subject to this condition : D83, D84, D85, D120, D231, D232, D234, D235, D269, C626, D803, D805, D833, D913, D914, D917, D918, D920, D922, D924, D927, D928, D929, D930, D931, D949, D950, D1236, D1239, D1403]

E71.7 The operator shall only inject NH3 into this equipment if the flue gas inlet temperature is at least 550 degrees F.

[RULE 1303(a)(1)-BACT, 5-10-1996]

[Devices subject to this condition : C301, C395, C916, C923, C1238, C1241]

E193.16 The operator shall operate and maintain this equipment according to the following specifications:

The operator shall comply with all applicable requirements specified in Subpart A of the 40CFR60

[40CFR 60 Subpart A, 5-16-2007; CONSENT DECREE CIVIL CASE No. 05 C 5809, 12-13-2005]

E448.x3 The operator shall comply with the following requirements:

The operator shall maintain the SCR bypass stack dampers for heaters 1F-1 and 1F-2 (Device IDs D913 and D914) at a fully closed position such that no emissions will be exhausted through the bypass stacks whenever fuel is supplied to the heaters, unless a contractor, who is certified under the Laboratory Approval Program (LAP), is continuously monitoring NOx and SOx emissions from the bypass stack(s) using a District-approved test method.

The operator shall install and maintain damper limit switches or other equivalent device to accurately indicate the fully closed position of the SCR bypass stack dampers.

* (1) Denotes RE CLAIM emission factor	(2) 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
(7) Denotes NSR applicability limit	(8)(8A)(8B) Denotes 40 CFR limit (e.g. NSPS, NESHAP, 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:

The operator shall record the position of the dampers at least once every 15 minutes and any time the damper position changes.

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

The District shall be notified of the date and time of each opening of any bypass stack damper(s) for heater 1F-1 or 1F-2 at least 24 hours prior to opening for a planned event or no more than one hour after opening for an unplanned event.

The District shall be notified of the date, time, and duration of each instance of the opening of any bypass stack dampers for heater 1F-1 or 1F-2 and of the uncontrolled emissions resulting from the event within 24 hours of closing the damper(s).

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

[Devices subject to this condition: D913, D914, Sx1, Sx2]

E448.x4 The operator shall comply with the following requirements:

The operator shall maintain the SCR bypass stack dampers for platinum reformer 19F-1 (Device ID D924) at a fully closed position such that no emissions will be exhausted through the bypass stacks whenever fuel is supplied to the heaters.

The operator shall install and maintain damper limit switches or other equivalent device to accurately indicate the fully closed position of the SCR bypass stack dampers.

The operator shall record the position of the dampers at least once every 15 minutes and any time the damper position changes.

The operator shall install and maintain an automatic fuel shutoff system to cut off the fuel supply to the heater whenever any of the bypass stack dampers is not in the fully closed position.

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

The District shall be notified of the date and time of each opening of any bypass stack damper(s) for platinum reformer 19F-1 at least 24 hours prior to opening for a planned event or no more than one hour after opening for an unplanned event.

The District shall be notified of the date, time, duration of each instance of the opening of any bypass stack damper(s) for platinum reformer 19F-1, as well as if fuel was supplied to the heater while a damper was open, within 24 hours of closing the damper(s).

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

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|--|---|
| * (1) Denotes RE CLAIM emission factor | (2) 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 |
| (7) Denotes NSR applicability limit | (8)(8A)(8B) Denotes 40 CFR limit(e.g. NSPS, NESHAP, etc.) |
| (9) See App B for Emission Limits | (10) See Section J for NESHAP/MACT requirements |

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

[Devices subject to this condition: D924, Sx1]

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

Contaminant	Rule	Rule Rule/Subpart
H2S	40CFR60, SUBPART	J

[40CFR 60 Subpart J, 6-24-2008; CONSENT DECREE CIVIL CASE No. 05 C 5809, 12-13-2005]

[Devices subject to this condition : D83, D84, D85, D120, C164, D231, D232, D234, D235, D269, D367, C626, C686, C687, D803, D805, D833, C891, C892, C894, D913, D914, D917, D918, D920, D922, D924, D927, D928, D929, D930, D931, D949, D950, C952, D1236, D1239, D1403, C1558]

H23.34 This equipment is subject to the applicable requirements of the following rules or regulations:

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

~~K171.10 The operator shall provide to the District the following items:~~

Update P&ID drawings of the heater, including the firing rate in MMBtu/hr, fuel gas/utility system, removal of all miscellaneous process gases (fume/waste gas) feed lines and their knockout pots (e.g., Vessels 1C-9 & 1D-7), shall be submitted to the district within 60 days after permit issuance date

ExxonMobil shall maintain records demonstrating the non-operation status of the above equipment and shall submit to the district upon request

[RULE 2011, 5-6-2005; 40CFR 60 Subpart J, 6-24-2008]

[Devices subject to this condition : D913]

* (1) Denotes RE CLAIM emission factor	(2) 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
(7) Denotes NSR applicability limit	(8)(8A)(8B) Denotes 40 CFR limit(e.g. NSPS, NESHAP, etc.)
(9) See App B for Emission Limits	(10) See Section J for NESHAP/MACT requirements

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