



FACILITY PERMIT TO OPERATE

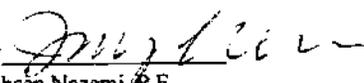
**CONOCOPHILLIPS COMPANY
1660 W ANAHEIM ST
WILMINGTON, CA 90744**

NOTICE

IN ACCORDANCE WITH RULE 206, THIS PERMIT TO OPERATE OR A COPY THEREOF MUST BE KEPT AT THE LOCATION FOR WHICH IT IS ISSUED.

THIS PERMIT DOES NOT AUTHORIZE THE EMISSION OF AIR CONTAMINANTS IN EXCESS OF THOSE ALLOWED BY DIVISION 26 OF THE HEALTH AND SAFETY CODE OF THE STATE OF CALIFORNIA OR THE RULES OF THE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT. THIS PERMIT SHALL NOT BE CONSTRUED AS PERMISSION TO VIOLATE EXISTING LAWS, ORDINANCES, REGULATIONS OR STATUTES OF ANY OTHER FEDERAL, STATE OR LOCAL GOVERNMENTAL AGENCIES.

Barry R. Wallerstein, D. Env.
EXECUTIVE OFFICER

By 
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Deputy Executive Officer
Engineering & Compliance



FACILITY PERMIT TO OPERATE CONOCOPHILLIPS COMPANY

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FACILITY PERMIT TO OPERATE CONOCOPHILLIPS COMPANY

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 1: FLUID CATALYTIC CRACKING					P13.2
System 1: FCCU Unit 152					S15.2, S15.3, S42.1

- * (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 limit (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.
- † This permit to construct was issued to the previous operator at a prior date. The equipment was constructed and the permit was subsequently transferred to this operator.



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Process 1: FLUID CATALYTIC CRACKING					P13.2
REGENERATOR, BB-601, HEIGHT: 81 FT ; DIAMETER: 34 FT 9 IN A/N: 460015 Permit to Construct Issued: 06/12/07	D1	D44 C1740	NOX: MAJOR SOURCE**; SOX: MAJOR SOURCE**	CO: 500 PPMV (5A) [CONSENT DECREE CIVIL NO. H-05-0258, 8-11-2008]; CO: 500 PPMV (8) [40CFR 60 Subpart J, 6-24-2008; 40CFR 63 Subpart UUU, 4-20-2006; CONSENT DECREE CIVIL NO. H-05-0258, 8-11-2008]; CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; HAP: (10) [40CFR 63 Subpart UUU, #2, 4-20-2006]; NOX: 20 PPMV (5A) [CONSENT DECREE CIVIL NO. H-05-0258, 8-11-2008]; NOX: 40 PPMV (5B) [CONSENT DECREE CIVIL NO. H-05-0258, 8-11-2008]; PM: (9) [RULE 404, 2-7-1986; RULE 405, 2-7-1986]; PM: 0.01 GRAINS/SCF (5) [RULE 409, 8-7-1981]; PM: 0.5 LB(S)/1000 LBS COKE BURNOFF (5B) [CONSENT DECREE CIVIL NO. H-05-0258, 8-11-2008]; PM: 1 LB(S)/1000 LBS COKE BURNOFF (8) [40CFR 60 Subpart J, 6-24-2008; CONSENT DECREE CIVIL NO. H-05-0258, 8-11-2008]; PM: 2.8 LBS/1000 BBLs FRESH FEED (5A) [RULE 1105.1, 11-7-2003]; PM: 30	A195.7, A195.8, A195.9, A195.10, A195.11, A195.12, A195.13, A229.1, D29.3, D29.4, D82.5, D323.6, D328.1, D425.1, D425.2, H23.1, H23.23, H23.25, K40.3

- | | |
|---|---|
| <p>* (1) (1A) (1B) Denotes RECLAIM emission factor
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(7) Denotes NSR applicability limit
(9) See App B for Emission Limits</p> | <p>(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 limit (e.g. NSPS, NESHAPS, etc.)
(10) See section J for NESHAP/MACT requirements</p> |
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Process 1: FLUID CATALYTIC CRACKING					P13.2
				PERCENT OPACITY (8) [40CFR 60 Subpart J, 6-24-2008; CONSENT DECREE CIVIL NO. H-05-0258, 8-11-2008], SO2: 9.8 LB(S)/1000 LBS COKE BURNOFF (8) [40CFR 60 Subpart J, 6-24-2008; CONSENT DECREE CIVIL NO. H-05-0258, 8-11-2008]; SO2: 25 PPMV (5) [CONSENT DECREE CIVIL NO. H-05-0258, 8-11-2008]; SO2: 50 PPMV (5A) [CONSENT DECREE CIVIL NO. H-05-0258, 8-11-2008]	
COLUMN, WEST MAIN, D-2, GAS OIL, HEIGHT: 90 FT ; DIAMETER: 16 FT A/N: 460015 Permit to Construct Issued: 06/12/07	D2				
COLUMN, STRIPPER, D-3, CYCLE OIL, HEIGHT: 23 FT 11 IN; DIAMETER: 4 FT 1 IN A/N: 460015 Permit to Construct Issued: 06/12/07	D3				
COLUMN, EAST MAIN, D-102, GAS OIL, HEIGHT: 89 FT 8 IN; DIAMETER: 14 FT 6 IN A/N: 460015 Permit to Construct Issued: 06/12/07	D4				

- * (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 limit (e.g. NSPS, NESHAPS, etc.)
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Process 1: FLUID CATALYTIC CRACKING					P13.2
COLUMN, STRIPPER, D-103, LT. CYCLE OIL, HEIGHT: 23 FT 11 IN; DIAMETER: 4 FT 1 IN A/N: 460015 Permit to Construct Issued: 06/12/07	D5				
COLUMN, AUXILIARY, D-601, HEIGHT: 54 FT 3 IN; DIAMETER: 19 FT 2 IN A/N: 460015 Permit to Construct Issued: 06/12/07	D6				
REACTOR, DD-601, HEIGHT: 142 FT ; DIAMETER: 26 FT A/N: 460015 Permit to Construct Issued: 06/12/07	D7				C1.80
ACCUMULATOR, F-1, LENGTH: 25 FT ; DIAMETER: 8 FT A/N: 460015 Permit to Construct Issued: 06/12/07	D8				
CYCLONE, F-100, THIRD STAGE SEPARATOR, HEIGHT: 57 FT 7 IN; DIAMETER: 20 FT A/N: 460015 Permit to Construct Issued: 06/12/07	D1715				E57.7
CYCLONE, F-400, FOURTH STAGE SEPARATOR, HEIGHT: 21 FT ; DIAMETER: 5 FT A/N: 460015 Permit to Construct Issued: 06/12/07	D1716				E57.7, E102.2
SETTLING TANK, F-606, HEIGHT: 34 FT 3 IN; DIAMETER: 12 FT A/N: 460015 Permit to Construct Issued: 06/12/07	D11				

- * (1) (1A) (1B) Denotes RECLAIM emission factor
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- (5) (5A) (5B) Denotes command and control emission limit
- (7) Denotes NSR applicability limit
- (9) See App B for Emission Limits
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Process 1: FLUID CATALYTIC CRACKING					P13.2
HOPPER, FF-601, CATALYST A/N: 460015 Permit to Construct Issued: 06/12/07	D12			PM: (9) [RULE 405, 2-7-1986]	D323.1
HOPPER, FF-602, CATALYST A/N: 460015 Permit to Construct Issued: 06/12/07	D13			PM: (9) [RULE 405, 2-7-1986]	D323.1
HOPPER, FF-603, CATALYST A/N: 460015 Permit to Construct Issued: 06/12/07	D14			PM: (9) [RULE 405, 2-7-1986]	D323.1
HOPPER, F-401, CATALYST FINES STORAGE A/N: 460015 Permit to Construct Issued: 06/12/07	D1717			PM: (9) [RULE 405, 2-7-1986]	D323.1
COMPRESSOR, GG-601, MAIN BLOWER, 140,000 SCFM A/N: 460015 Permit to Construct Issued: 06/12/07	D15				
GENERATOR, GG-602, HOT GAS, 12 KW ELECTRIC A/N: 460015 Permit to Construct Issued: 06/12/07	D1502				
COMPRESSOR, GG-703, HOT GAS A/N: 460015 Permit to Construct Issued: 06/12/07	D1503				
POT, CATALYST, WITH A VENT POT, HEIGHT: 3 FT 8 IN; DIAMETER: 2 FT 1 IN A/N: 460015 Permit to Construct Issued: 06/12/07	D1674			PM: (9) [RULE 404, 2-7-1986; RULE 405, 2-7-1986]	D323.4, E71.17
ACCUMULATOR, F-101, LENGTH: 20 FT ; DIAMETER: 8 FT A/N: 460015 Permit to Construct Issued: 06/12/07	D1691				

- * (1) (1A) (1B) Denotes RECLAIM emission factor
- (3) Denotes RECLAIM concentration limit
- (5) (5A) (5B) Denotes command and control emission limit
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- (9) See App B for Emission Limits
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Process 1: FLUID CATALYTIC CRACKING					P13.2
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 460015 Permit to Construct Issued: 06/12/07	D1565			HAP: (10) [40CFR 63 Subpart CC, #SA, 6-23-2003]	H23.2
System 3: FCCU AIR POLLUTION CONTROL					
SCRUBBER, EJ-751A/B/C/D, HIGH ENERGY VENTURI, FIXED THROAT, EMHRC, MODEL HEV. 4 TOTAL, HEIGHT: 88 FT, DIAMETER: 24 FT WITH A/N: 460016 Permit to Construct Issued: 06/12/07	C1740	D1 C1741			C12.3
INJECTOR, CAUSTIC SOLUTION VESSEL, WET GAS SCRUBBER DISENGAGING DRUM, FC-751, EMHRC, BOTTOM SECTION, HEIGHT: 95 FT 4 IN; DIAMETER: 24 FT WITH A/N: 460016 Permit to Construct Issued 06/12/07	C1741	C1740 C1742 C1743			
MANIFOLD, FLOW STRAIGHTENER, CHIMNEY TRAY VANES MIST ELIMINATOR, STRUCTURED					

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Process 1: FLUID CATALYTIC CRACKING					P13.2
ELECTROSTATIC PRECIPITATOR, WET, FC-752, WITH WATER SPRAY, SONIC KLEEN, MODEL WESP-516-316L-10H16, TOP SECTION, 1ST STAGE, 2 FIELDS, TOP SECTION, 84 KVA WITH A/N: 460017 Permit to Construct Issued: 06/12/07 BLOWER, 7.5 HP, PURGE AIR COMPARTMENT, PRECOOLER, PRETREATMENT	C1742	C1741 C1743		HAP: (10) [40CFR 63 Subpart UUU, #2, 4-20-2006]; PM: (9) [RULE 404, 2-7-1986; RULE 405, 2-7-1986]	C12.2, E71.25
ELECTROSTATIC PRECIPITATOR, WET, FC-753, WITH WATER SPRAY, SONIC KLEEN, MODEL WESP-516-316L-10H16, TOP SECTION, 2ND STAGE, 2 FIELDS, 84 KVA WITH A/N: 460017 Permit to Construct Issued: 06/12/07 BLOWER, PURGE AIR, 7.5 HP MIST ELIMINATOR, POST TREATMENT	C1743	C1741 C1742 S1750		HAP: (10) [40CFR 63 Subpart UUU, #2, 4-20-2006]; PM10: (9) [RULE 404, 2-7-1986; RULE 405, 2-7-1986]	C12.2, E71.25
STACK A/N: 460017 Permit to Construct Issued: 06/12/07	S1750	C1743			

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- (9) See App B for Emission Limits
- (2) (2A) (2B) Denotes RECLAIM emission rate
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Process 1: FLUID CATALYTIC CRACKING					P13.2
TANK, TK-715, CLARIFIER, WITH SLUDGE REMOVAL ARM, WITH FLOCCULANT INJECTION, HEIGHT: 12 FT ; DIAMETER: 12 FT 6 IN A/N: 460017 Permit to Construct Issued: 06/12/07	D1751				
SUMP, SE-750, WIDTH: 6 FT ; DEPTH: 6 FT ; LENGTH: 20 FT WITH A/N: 460017 Permit to Construct Issued: 06/12/07	D1753				
PUMP, G-765, SUMP					
TANK, TK-752, SULFITE OXIDATION, CAUSTIC, HEIGHT: 20 FT ; DIAMETER: 11 FT WITH A/N: 460017 Permit to Construct Issued: 06/12/07	D1754				
MIXER, INTERNAL RECIRCULATION					
INJECTOR, AIR					
INJECTOR, CAUSTIC SOLUTION, PH CONTROL					
HOPPER, TK-754, WET FINES, 8,000 GALS WITH A/N: 460017 Permit to Construct Issued: 06/12/07	D1759				
LOADING CONNECTIONS, HOSE, VACUUM TRUCK LOADING					

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 (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
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Process 1: FLUID CATALYTIC CRACKING					P13.2
BIN, HOLDING, ROLL-OFF, ME-755 A/B, 675 CU.FT.; 2 TOTAL WITH A/N: 460017 Permit to Construct Issued: 06/12/07	D1761				E71.27, E73.4
FILTER, 150 MICRON SCREEN					
Process 2: HYDROTREATING					P13.2
System 1: HCAT HYDROTREATER UNIT 59 (UNIFINING UNIT 59)					S4.1, S13.6, S15.2, S15.3
FRACTIONATOR, D-101, HEIGHT: 51 FT ; DIAMETER: 10 FT 6 IN A/N: 326109 † Permit to Construct Issued: 04/03/96	D1345				
ACCUMULATOR, F-101, FRACTIONATOR OVERHEAD, LENGTH: 16 FT ; DIAMETER: 7 FT A/N: 326109 † Permit to Construct Issued: 04/03/96	D1346				
FILTER, F-150 A, REFLUX A/N: 326109 † Permit to Construct Issued: 04/03/96	D1347				
FILTER, F-150 B, REFLUX A/N: 326109 † Permit to Construct Issued: 04/03/96	D1348				
REACTOR, D-A, HEIGHT: 24 FT ; DIAMETER: 10 FT A/N: 326109 † Permit to Construct Issued: 04/03/96	D1455				
System 3: MID-BARREL HYDROTREATER UNIT 89 (UNIFINING UNIT 89)					S4.1, S11.1, S13.6, S15.2, S15.8

- * (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 limit (e.g. NSPS, NESHAPS, etc.)
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Process 2: HYDROTREATING					P13.2
PUMP, 89-G-114, TURBINE DRYER REFLUX, CENTRIFUGAL, TANDEM MECHANICAL SEALS, 5-HP A/N: 327360 † Permit to Construct Issued: 02/23/95	D1376				
System 4: DIESEL HYDROTREATER UNIT 90 (UNIFINING UNIT 90)					S11.1, S13.6, S13.10, S15.2, S15.10, S31.1
TANK, SURGE, F-205, FEED, WITH VENT CONNECTION TO VAPOR RECOVERY/FLARE SYSTEM. LENGTH: 24 FT ; DIAMETER: 12 FT A/N: 423384 Permit to Construct Issued: 09/21/04	D86				E57.5
REACTOR, D-401A, HEIGHT: 69 FT 9 IN; DIAMETER: 13 FT 6 IN A/N: 423384 Permit to Construct Issued: 09/21/04	D1701				
SCRUBBER, D-302, RECYCLE GAS, HEIGHT: 46 FT 6 IN; DIAMETER: 3 FT 6 IN A/N: 423384 Permit to Construct Issued: 09/21/04	D82				
REACTOR, D-401B, HEIGHT: 69 FT 9 IN; DIAMETER: 13 FT 6 IN A/N: 423384 Permit to Construct Issued: 09/21/04	D1702				
COLUMN, TURBINE STOCK STRIPPER, D-205, HEIGHT: 56 FT ; DIAMETER: 5 FT A/N: 423384 Permit to Construct Issued: 09/21/04	D83				

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 - (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
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Process 2: HYDROTREATING					P13.2
VESSEL, HOT SEPARATOR, F-401, HEIGHT: 24 FT ; DIAMETER: 8 FT A/N: 423384 Permit to Construct Issued 09/21/04	D1703				
VESSEL, SEPARATOR, F-201, HOT, IDLE, LENGTH: 25 FT ; DIAMETER: 5 FT A/N: 423384 Permit to Construct Issued 09/21/04	D84				E71.23
VESSEL, COLD SEPARATOR, F-402, WITH BYPASS CONNECTION TO VAPOR RECOVERY/FLARE SYSTEM, HEIGHT: 22 FT ; DIAMETER: 7 FT A/N: 423384 Permit to Construct Issued: 09/21/04	D1704				E448.2
VESSEL, SEPARATOR, F-202, COLD, IDLE, LENGTH: 21 FT ; DIAMETER: 4 FT A/N: 423384 Permit to Construct Issued: 09/21/04	D85				E71.23
COLUMN, H2S STRIPPER, D-202, HEIGHT: 58 FT ; DIAMETER: 8 FT A/N: 423384 Permit to Construct Issued: 09/21/04	D81				
REACTOR, D-301, IDLE, HEIGHT: 35 FT 6 IN; DIAMETER: 7 FT 6 IN A/N: 423384 Permit to Construct Issued: 09/21/04	D1705				E71.23
ACCUMULATOR, F-206, RERUN COLUMN OVERHEAD, LENGTH: 24 FT ; DIAMETER: 8 FT A/N: 423384 Permit to Construct Issued: 09/21/04	D87				

- * (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 limit (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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FACILITY PERMIT TO OPERATE CONOCOPHILLIPS COMPANY

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 2: HYDROTREATING					P13.2
ACCUMULATOR, F-207, TURBINE STOCK STRIPPER, LENGTH: 12 FT ; DIAMETER: 2 FT A/N: 423384 Permit to Construct Issued: 09/21/04	D88				E336.3
VESSEL, SEPARATOR, F-213, HEIGHT: 4 FT ; DIAMETER: 2 FT A/N: 423384 Permit to Construct Issued: 09/21/04	D90				
TANK, SURGE, F-215, MERCAPTAN, LENGTH: 14 FT 3 IN; DIAMETER: 5 FT A/N: 423384 Permit to Construct Issued: 09/21/04	D91				
TANK, FLASH, F-301, RICH MEA, WITH BYPASS CONNECTION TO VAPOR RECOVERY/FLARE SYSTEM, HEIGHT: 12 FT ; DIAMETER: 4 FT 6 IN A/N: 423384 Permit to Construct Issued: 09/21/04	D92				E57.6, E71.6
COMPRESSOR, GB-201B, RECYCLE GAS, RECIPROCATING A/N: 423384 Permit to Construct Issued: 09/21/04	D93				
COMPRESSOR, GB-301, RECYCLE GAS, CENTRIFUGAL, CAPACITY 68.8 MMSCFD A/N: 423384 Permit to Construct Issued: 09/21/04	D94				E193.5, H23.22
REACTOR, D-201, IDLE, HEIGHT: 35 FT 6 IN; DIAMETER: 7 FT 6 IN A/N: 423384 Permit to Construct Issued: 09/21/04	D95				E71.23

- * (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 limit (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.
† This permit to construct was issued to the previous operator at a prior date. The equipment was constructed and the permit was subsequently transferred to this operator.



FACILITY PERMIT TO OPERATE CONOCOPHILLIPS COMPANY

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions* And Requirements	Conditions
Process 2: HYDROTREATING					P13.2
COLUMN, RERUN, D-203, HEIGHT: 79 FT 6 IN; DIAMETER: 13 FT A/N: 423384 Permit to Construct Issued: 09/21/04	D96				
COLUMN, SIDESTREAM STRIPPER, D-204, HEIGHT: 32 FT ; DIAMETER: 6 FT 6 IN A/N: 423384 Permit to Construct Issued: 09/21/04	D97				
ACCUMULATOR, F-203, PRIMARY STRIPPER OVERHEAD, LENGTH: 6 FT ; DIAMETER: 3 FT A/N: 423384 Permit to Construct Issued: 09/21/04	D98				
ACCUMULATOR, F-204, FINAL STRIPPER OVERHEAD, WITH BYPASS CONNECTION TO VAPOR RECOVERY/FLARE SYSTEM, LENGTH: 4 FT ; DIAMETER: 3 FT A/N: 423384 Permit to Construct Issued: 09/21/04	D99				E57.6, E71.6
PUMP, CENTRIFUGAL, 90-G-201, ACCUMULATOR FEED, WITH TANDEM MECHANICAL SEALS, 200-HP A/N: 423384 Permit to Construct Issued: 09/21/04	D1495				
FILTER, F-216, CLAY, HEIGHT: 4 FT 6 IN; DIAMETER: 4 FT A/N: 423384 Permit to Construct Issued: 09/21/04	D1511				

* (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 limit (e.g. NSPS, NESHAPS, etc.)
(9) See App B for Emission Limits
(10) See section J for NESHAP/MACT requirements

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FACILITY PERMIT TO OPERATE CONOCOPHILLIPS COMPANY

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 2: HYDROTREATING					P13.2
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 423384 Permit to Construct Issued: 09/21/04	D1575			HAP: (10) [40CFR 63 Subpart CC, #5A, 6-23-2003]	H23.22
System 9: HYDROTREATING UNIT 90 HEATERS					
HEATER, 90-B-401, REFINERY/NATURAL GAS, WITH LOW NOX BURNER, 41.3 MMBTU/HR WITH A/N: 437423 Permit to Construct Issued: 10/03/05	D1720	C1722	NOX: MAJOR SOURCE**; SOX: MAJOR SOURCE**	CO: 10 PPMV (4) [RULE 1303(a)(1)-BACT, 5-10-1996]; CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; NOX: 5 PPMV REFINERY/NATURAL GAS (4) [RULE 2005, 5-6-2005]; PM: (9) [RULE 404, 2-7-1986]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]; SO2: 20 PPMV (8) [40CFR 60 Subpart J, 6-24-2008]	A99.3, A99.4, A195.4, A195.5, B61.6, C1.26, D28.21, D82.6, D328.2, H23.34
BURNER, REFINERY/NATURAL GAS, ZEECO, MODEL GLSF, WITH LOW NOX BURNER, 4 TOTAL; 10.33 MMBTU/HR					

- * (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 limit (e.g. NSPS, NESHAPS, etc.)
- (10) See section J for NESHAP/MACT requirements

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FACILITY PERMIT TO OPERATE CONOCOPHILLIPS COMPANY

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 2: HYDROTREATING					P13.2
SELECTIVE CATALYTIC REDUCTION, HITACHI-ZOSEN, CORMETECH, HALDOR TOPSOE, CERAMIC MONOLITHIC HONEYCOMB TYPE, 150 CU.FT. WITH A/N: 465739 Permit to Construct Issued: 01/24/08	C1722	D1720		NH3: 5 PPMV (4) [RULE 1303(a)(1)-BACT, 5-10-1996]	A195.6, B61.7, D12.5, D12.16, D29.8, E71.24, K40.4
INJECTOR, AQUEOUS AMMONIA, WITH TWO 150 POUNDS STANDBY CYLINDERS OF ANHYDROUS AMMONIA					
METERING SKID, DILUTION AIR FAN, GB-404A/B					
DRUM, AMMONIA VAPORIZER, F-404					
FILTER, AQUEOUS AMMONIA, F-405A/B/C/D, 4 TOTAL					
FILTER, ANHYDROUS AMMONIA, F-406A/B					
DRUM, DAY POT, AQUEOUS AMMONIA, F-408					
Process 3: CATALYTIC REFORMING					P13.2
System 1: CATALYTIC REFORMING UNIT 80					S4.1, S11.1, S13.6, S15.2, S15.3

- * (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 limit (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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FACILITY PERMIT TO OPERATE CONOCOPHILLIPS COMPANY

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 REFORMING					P13.2
FRACTIONATOR, 80-D-300, REFORMATE. HEIGHT: 70 FT ; DIAMETER 7 FT 6 IN A/N: 326115 † Permit to Construct Issued: 02/23/95	D1373			HAP: (10) [40CFR 63 Subpart UUU, #1, 4-20-2006]	
ACCUMULATOR, 80-F-300, REFORMATE FRACTIONATOR OVERHEAD. LENGTH 18 FT ; DIAMETER: 5 FT 6 IN A/N: 326115 † Permit to Construct Issued: 02/23/95	D1374			HAP: (10) [40CFR 63 Subpart UUU, #1, 4-20-2006]	
TANK, 80-F-301, REFORMATE CONDENSATE. HEIGHT: 9 FT 6 IN; DIAMETER: 2 FT 6 IN A/N: 326115 † Permit to Construct Issued: 02/23/95	D1375			HAP: (10) [40CFR 63 Subpart UUU, #1, 4-20-2006]	
System 3: CATALYTIC REFORMING UNIT 100					S4.1, S11.1, S13.6, S15.2, S15.3
COLUMN, 100-V-125, REFORMATE SPLITTER A/N: 326116 † Permit to Construct Issued: 07/15/94	D754			HAP: (10) [40CFR 63 Subpart UUU, #1, 4-20-2006]	
Process 4: HYDROGEN PRODUCTION					P13.2
System 2: HYDROGEN GENERATION UNIT 118					S2.1, S4.1, S11.1, S13.5, S13.6, S15.2, S15.3
KNOCK OUT POT, 118-V-401, HEIGHT: 10 FT ; DIAMETER: 5 FT A/N: 451293 Permit to Construct Issued: 06/08/06	D755			HAP: (10) [40CFR 63 Subpart CC, #2, 6-23-2003]	

- * (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 limit (e.g. NSPS, NESHAPS, etc.)
- (10) See section J for NESHAP/MACT requirements

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FACILITY PERMIT TO OPERATE CONOCOPHILLIPS COMPANY

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 4: HYDROGEN PRODUCTION					P13.2
REACTOR, DESULFURIZERS, 118-R-402A A/N: 451293 Permit to Construct Issued: 06/08/06	D756				
REACTOR, DESULFURIZERS, 118-R-402B, HEIGHT: 22 FT ; DIAMETER: 9 FT 6 IN A/N: 451293 Permit to Construct Issued: 06/08/06	D757				
KNOCK OUT POT, 118-V-404, HEIGHT: 8 FT ; DIAMETER: 4 FT A/N: 451293 Permit to Construct Issued: 06/08/06	D758				
COMPRESSOR, 118-C-401A, RECIPROCATING TYPE, 4250 H.P. A/N: 451293 Permit to Construct Issued: 06/08/06	D759				H23.3
COMPRESSOR, 118-C-401B, RECIPROCATING TYPE, 4250 H.P. A/N: 451293 Permit to Construct Issued: 06/08/06	D760				H23.3
VESSEL, COALESCER, 118-ME-406, LUBE OIL, HEIGHT: 6 FT 4 IN; DIAMETER: 1 FT 4 IN A/N: 451293 Permit to Construct Issued: 06/08/06	D761				
REACTOR, DESULFURIZER, 118-R-404A, HEIGHT: 1 FT 8 IN; DIAMETER: 10 FT A/N: 451293 Permit to Construct Issued: 06/08/06	D764				

* (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 limit (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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FACILITY PERMIT TO OPERATE CONOCOPHILLIPS COMPANY

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 4: HYDROGEN PRODUCTION					P13.2
REACTOR, DESULFURIZER, 118-R-404B, HEIGHT: 1 FT 8 IN; DIAMETER: 10 FT A/N: 451293 Permit to Construct Issued: 06/08/06	D765				
REACTOR, 118-H-401, REFORMING, TUBULAR TYPE A/N: 451293 Permit to Construct Issued: 06/08/06	D766				
DRUM, BLOWDOWN, 118-V-408, HEIGHT: 10 FT ; DIAMETER: 3 FT A/N: 451293 Permit to Construct Issued: 06/08/06	D768				
REACTOR, 118-R-405, HEIGHT: 14 FT ; DIAMETER: 9 FT A/N: 451293 Permit to Construct Issued: 06/08/06	D769				
REACTOR, DEAERATOR, 118-V-406, LENGTH: 2 FT ; DIAMETER: 9 FT A/N: 451293 Permit to Construct Issued: 06/08/06	D772	D1349			E73.3, K67.12
VESSEL, SEPARATOR, 118-V-403, HEIGHT: 10 FT ; DIAMETER: 4 FT 6 IN A/N: 451293 Permit to Construct Issued: 06/08/06	D773				
ABSORBER, 118-V-420A, HEIGHT: 21 FT 8 IN; DIAMETER: 8 FT 6 IN A/N: 451293 Permit to Construct Issued: 06/08/06	D775				
ABSORBER, 118-V-420B, HEIGHT: 21 FT 8 IN; DIAMETER: 8 FT 6 IN A/N: 451293 Permit to Construct Issued: 06/08/06	D776				

- * (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 limit (e.g. NSPS, NESHAPS, etc.)
- (9) See App B for Emission Limits (10) See section J for NESHAP/MACT requirements

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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions* And Requirements	Conditions
Process 4: HYDROGEN PRODUCTION					P13.2
ABSORBER, 118-V-420C, HEIGHT: 21 FT 8 IN; DIAMETER: 8 FT 6 IN A/N: 451293 Permit to Construct Issued: 06/08/06	D777				
ABSORBER, 118V-420D, HEIGHT: 21 FT 8 IN; DIAMETER: 8 FT 6 IN A/N: 451293 Permit to Construct Issued: 06/08/06	D778				
ABSORBER, 118-V-420E, HEIGHT: 21 FT 8 IN; DIAMETER: 8 FT 6 IN A/N: 451293 Permit to Construct Issued: 06/08/06	D779				
ABSORBER, 118-V-420F, HEIGHT: 21 FT 8 IN; DIAMETER: 8 FT 6 IN A/N: 451293 Permit to Construct Issued: 06/08/06	D780				
ABSORBER, 118-V-420G, HEIGHT: 21 FT 8 IN; DIAMETER: 8 FT 6 IN A/N: 451293 Permit to Construct Issued: 06/08/06	D781				
ABSORBER, 118-V-420H, HEIGHT: 21 FT 8 IN; DIAMETER: 8 FT 6 IN A/N: 451293 Permit to Construct Issued: 06/08/06	D782				
ABSORBER, 118-V-420I, HEIGHT: 21 FT 8 IN; DIAMETER: 8 FT 6 IN A/N: 451293 Permit to Construct Issued: 06/08/06	D783				
ABSORBER, 118-V-420J, HEIGHT: 21 FT 8 IN; DIAMETER: 8 FT 6 IN A/N: 451293 Permit to Construct Issued: 06/08/06	D784				

- * (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 limit (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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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 4: HYDROGEN PRODUCTION					P13.2
FILTER, 118-F-420, HEIGHT: 6 FT 2 IN, DIAMETER: 8 FT 6 IN A/N: 451293 Permit to Construct Issued: 06/08/06	D785				
TANK, HOLDING, 118-V-421, PSA OFFGAS, HEIGHT: 68 FT 6 IN, DIAMETER: 12 FT 6 IN A/N: 451293 Permit to Construct Issued: 06/08/06	D786				
VESSEL, COALESCER, 118-ME-407, HEIGHT: 6 FT 4 IN, DIAMETER: 1 FT 8 IN A/N: 451293 Permit to Construct Issued: 06/08/06	D787				
VESSEL, MODULE, 118-ME-403, WATER TREATMENT A/N: 451293 Permit to Construct Issued: 06/08/06	D789				
VESSEL, MODULE, 118-ME-405, COOLING TOWER CHEMICAL A/N: 451293 Permit to Construct Issued: 06/08/06	D790				
VESSEL, 118-V-412, HOT PROCESS CONDENSATE SEPARATOR A/N: 451293 Permit to Construct Issued: 06/08/06	D1725				
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 451293 Permit to Construct Issued: 06/08/06	D1585				H23.3
System 4: HYDROGEN GENERATION UNIT 118 HEATERS					S11.1

- * (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 limit (e.g. NSPS, NESHAPS, etc.)
- (10) See section J for NESHAP/MACT requirements

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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 4: HYDROGEN PRODUCTION					P13.2
HEATER, HYDROGEN REFORMING, 118-H-401, NATURAL GAS, PSA GAS, REFINERY/NATURAL GAS, HOWE BAKER ENGINEERS, WITH LOW NOX BURNER, 460 MMBTU/HR WITH A/N: 451294 Permit to Construct Issued: 06/08/06	D1349	D772 C1352	NOX: MAJOR SOURCE**; SOX: MAJOR SOURCE**	CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; NOX: 4.8 LBS/HR (7) [RULE 2005, 5-6-2005]; NOX: 7 PPMV (7) [RULE 2005, 5-6-2005]; PM: (9) [RULE 404, 2-7-1986]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]; SO2: 20 PPMV (8) [40CFR 60 Subpart J, 6-24-2008]; SOX: 11.1 LBS/HR (7) [RULE 2005, 5-6-2005]	A63.1, A195.1, B61.1, D28.2, D82.6, D328.1, E54.3, H23.34, K67.1, K67.4
BURNER, 72 BURNERS, NATURAL GAS, PSA GAS, REFINERY/NATURAL GAS, CALLIDUS, MODEL LE-CRG, WITH LOW NOX BURNER, 460 MMBTU/HR					
System 5: H2 GENERATION U118 SCR SYSTEM SERVING HEATER 118-H-401					S11.1
SELECTIVE CATALYTIC REDUCTION, 357 CU.FT. WITH A/N: 328166 Permit to Construct Issued: 05/28/97	C1352	D1349		NH3: 20 PPMV (4) [RULE 1303(a)(1)-BACT, 5-10-1996]	D12.1, D28.17, E71.2
AMMONIA INJECTION, AQUEOUS AMMONIA, WITH A STANDBY ANHYDROUS AMMONIA UNIT					
Process 5: HYDROCRACKING					P13.2
System 1: HYDROCRACKING UNIT 120					S4.1, S11.1, S13.6, S15.2, S15.9

- * (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 limit (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:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions* And Requirements	Conditions
Process 5: HYDROCRACKING					P13.2
ACCUMULATOR, 120-F-208, FRACTIONATOR OVERHEAD, LENGTH: 24 FT ; DIAMETER: 7 FT A/N: 326121 † Permit to Construct Issued: 02/28/96	D237				
FRACTIONATOR, 120-D-215, MEDIUM UNICRACKATE, HEIGHT: 80 FT 6 IN; DIAMETER: 6 FT A/N: 326121 † Permit to Construct Issued: 02/28/96	D1361				
ACCUMULATOR, 120-F-305, FRACTIONATOR OVERHEAD, LENGTH: 20 FT ; DIAMETER: 4 FT A/N: 326121 † Permit to Construct Issued: 02/28/96	D1362				
COMPRESSOR, 120-GB-203A, H2 MAKE-UP/H2 PLANT FEED GAS, 4000-HP, 3 STAGES A/N: 326121 † Permit to Construct Issued: 02/28/96	D1437				
COMPRESSOR, 120-GB-203B, H2 MAKE-UP/H2 PLANT FEED GAS, 4000-HP, 3 STAGES A/N: 326121 † Permit to Construct Issued: 02/28/96	D1438				
KNOCK OUT POT, 120-F-255B, SERVING COMPRESSOR GB-203B, 3RD STAGE A/N: 326121 † Permit to Construct Issued: 02/28/96	D1442				
Process 6: ALKYLATION AND POLYMERIZATION					P13.2

- (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 limit (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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FACILITY PERMIT TO OPERATE CONOCOPHILLIPS COMPANY

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 6: ALKYLATION AND POLYMERIZATION					P13.2
System 1: ALKYLATION UNIT 110					S4.2, S4.4, S11.1, S13.6, S15.2, S15.3
COLUMN, DEISOBUTANIZER D-351, HEIGHT: 197 FT ; DIAMETER: 14 FT A/N: 411097 Permit to Construct Issued: 10/11/03	D1659				
VESSEL, COALESCER, NET EFFLUENT, F-18, LENGTH: 22 FT ; DIAMETER: 6 FT 6 IN A/N: 411097 Permit to Construct Issued: 10/11/03	D1660				D90.11
DRUM, CAUSTIC WASH, F-223, LENGTH: 14 FT 6 IN; DIAMETER: 8 FT 3 IN A/N: 411097 Permit to Construct Issued: 10/11/03	D1661				
DRUM, ECONOMIZER, F-314, HEIGHT: 16 FT ; DIAMETER: 6 FT 6 IN A/N: 411097 Permit to Construct Issued: 10/11/03	D1662				
DRUM, INTERNAL DEPROPANIZER FEED, F318, LENGTH: 20 FT ; DIAMETER: 7 FT A/N: 411097 Permit to Construct Issued: 10/11/03	D1663				
DRUM, CAUSTIC WASH, F-323, LENGTH: 22 FT 6 IN; DIAMETER: 7 FT 6 IN A/N: 411097 Permit to Construct Issued: 10/11/03	D1664				

- (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 limit (e.g. NSPS, NESHAPS, etc.)
 - (10) See section J for NESHAP/MACT requirements
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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions* And Requirements	Conditions
Process 6: ALKYLATION AND POLYMERIZATION					P13.2
VESSEL, COALESCER, F-324, LENGTH: 20 FT ; DIAMETER: 3 FT A/N: 411097 Permit to Construct Issued: 10/11/03	D1665				D90.11
DRUM, DEISOBUTANIZER REFLUX, F-351, LENGTH: 37 FT ; DIAMETER: 13 FT A/N: 411097 Permit to Construct Issued: 10/11/03	D1666				
COMPRESSOR, REFRIGERANT, GB-313, 2650 BHP, VENTED TO VAPOR RECOVERY SYSTEM, 15621 CU.FT./MIN A/N: 411097 Permit to Construct Issued: 10/11/03	D1667				E71.6, H23.3
CONDENSER, SHELL AND TUBE, REFRIGERANT, E-312A/B, VENTED TO VAPOR RECOVERY SYSTEM A/N: 411097 Permit to Construct Issued: 10/11/03	D1668				E71.6
CONDENSER, SHELL AND TUBE, DEISOBUTANIZER, E-351A/B/C/D, VENTED TO VAPOR RECOVERY SYSTEM A/N: 411097 Permit to Construct Issued: 10/11/03	D1669				E71.6
CONDENSER, SHELL AND TUBE, BUTANE, E-353, VENTED TO VAPOR RECOVERY SYSTEM A/N: 411097 Permit to Construct Issued: 10/11/03	D1670				E71.6

- * (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 limit (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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FACILITY PERMIT TO OPERATE CONOCOPHILLIPS COMPANY

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions [*] And Requirements	Conditions
Process 6: ALKYLATION AND POLYMERIZATION					P13.2
COLUMN, DE-ISO-BUTANIZER, D-1, IDLED, HEIGHT: 143 FT 6 IN; DIAMETER: 14 FT A/N: 411097 Permit to Construct Issued: 10/11/03	D267				
COLUMN, DE-PROPANIZER, D-2, HEIGHT: 71 FT ; DIAMETER: 5 FT 6 IN A/N: 411097 Permit to Construct Issued: 10/11/03	D268				
COLUMN, DEBUTANIZER, D-3, HEIGHT: 71 FT 6 IN; DIAMETER: 8 FT 6 IN A/N: 411097 Permit to Construct Issued: 10/11/03	D269				
FRACTIONATOR, D-4, HEIGHT: 47 FT ; DIAMETER: 6 FT 6 IN A/N: 411097 Permit to Construct Issued: 10/11/03	D270				
COLUMN, DEPENTANIZER, D-5, IDLED, HEIGHT: 47 FT ; DIAMETER: 5 FT 6 IN A/N: 411097 Permit to Construct Issued: 10/11/03	D271				
VESSEL, CAUSTIC CONTACTOR, D-6, HEIGHT: 47 FT ; DIAMETER: 4 FT 6 IN A/N: 411097 Permit to Construct Issued: 10/11/03	D272				
COLUMN, BUTENES EXTRACTOR, D-201, HEIGHT: 49 FT 2 IN; DIAMETER: 4 FT 6 IN A/N: 411097 Permit to Construct Issued: 10/11/03	D273				

- * (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 limit (e.g. NSPS, NESHAPS, etc.)
- (9) See App B for Emission Limits
- (10) See section J for NESHAP/MACT requirements

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FACILITY PERMIT TO OPERATE CONOCOPHILLIPS COMPANY

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 6: ALKYLATION AND POLYMERIZATION					P13.2
COLUMN, OXIDIZER, D-203, HEIGHT: 32 FT 9 IN; DIAMETER: 3 FT 6 IN A/N: 411097 Permit to Construct Issued: 10/11/03	D274				
COLUMN, INTERNAL DEPROPANIZER, D-212, HEIGHT: 108 FT 4 IN; DIAMETER: 5 FT 6 IN A/N: 411097 Permit to Construct Issued: 10/11/03	D275				
VESSEL, CONTACTOR, ED-211A, LENGTH: 35 FT 6 IN; DIAMETER: 8 FT A/N: 411097 Permit to Construct Issued: 10/11/03	D276				
VESSEL, CONTACTOR, ED-211B, LENGTH: 35 FT 6 IN; DIAMETER: 8 FT A/N: 411097 Permit to Construct Issued: 10/11/03	D277				
VESSEL, CONTACTOR, ED-211C, LENGTH: 35 FT 6 IN; DIAMETER: 8 FT A/N: 411097 Permit to Construct Issued: 10/11/03	D278				
VESSEL, CONTACTOR, ED-211D, LENGTH: 35 FT 6 IN; DIAMETER: 8 FT A/N: 411097 Permit to Construct Issued: 10/11/03	D279				

- (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 limit (e.g. NSPS, NESHAPS, etc.)
 - (10) See section J for NESHAP/MACT requirements
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FACILITY PERMIT TO OPERATE CONOCOPHILLIPS COMPANY

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 6: ALKYLATION AND POLYMERIZATION					P13.2
VESSEL, CONTACTOR, ED-211E, LENGTH: 45 FT 6 IN; DIAMETER: 7 FT 8 IN A/N: 411097 Permit to Construct Issued: 10/11/03	D280				
VESSEL, CONTACTOR, ED-211F, LENGTH: 45 FT 6 IN; DIAMETER: 7 FT 8 IN A/N: 411097 Permit to Construct Issued: 10/11/03	D281				
ACCUMULATOR, F1, DEISOBUTANIZER REFLUX, IDLED, LENGTH: 20 FT ; DIAMETER: 8 FT A/N: 411097 Permit to Construct Issued: 10/11/03	D282				
ACCUMULATOR, F2, EXTERNAL DEPROPANIZER REFLUX, LENGTH: 16 FT ; DIAMETER: 4 FT 6 IN A/N: 411097 Permit to Construct Issued: 10/11/03	D283				
ACCUMULATOR, F3, DEBUTANIZER REFLUX, LENGTH: 20 FT ; DIAMETER: 8 FT A/N: 411097 Permit to Construct Issued: 10/11/03	D284				
ACCUMULATOR, F4, ALKYLATE FRACTIONATOR REFLUX, LENGTH: 16 FT ; DIAMETER: 4 FT 6 IN A/N: 411097 Permit to Construct Issued: 10/11/03	D285				

- * (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 limit (e.g. NSPS, NESHAPS, etc.)
- (10) See section J for NESHAP/MACT requirements

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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions* And Requirements	Conditions
Process 6: ALKYLATION AND POLYMERIZATION					P13.2
ACCUMULATOR, F5, DEPENTANIZER REFLUX, IDLED, LENGTH: 16 FT ; DIAMETER: 5 FT 6 IN A/N: 411097 Permit to Construct Issued: 10/11/03	D286				
TANK, SURGE, F-6, SPENT ACID, LENGTH: 66 FT ; DIAMETER: 12 FT A/N: 411097 Permit to Construct Issued: 10/11/03	D287				
TANK, WASH, B-B CAUSTIC, F-B, LENGTH: 19 FT ; DIAMETER: 5 FT A/N: 411097 Permit to Construct Issued: 10/11/03	D288				
TANK, WASH, F9, B-B WATER, LENGTH: 26 FT ; DIAMETER: 5 FT A/N: 411097 Permit to Construct Issued: 10/11/03	D289				
TANK, F10, MIXED C4 FEED, LENGTH: 66 FT ; DIAMETER: 12 FT A/N: 411097 Permit to Construct Issued: 10/11/03	D290				
TANK, SURGE, F-11, ISOBUTANE, LENGTH: 40 FT ; DIAMETER: 12 FT A/N: 411097 Permit to Construct Issued: 10/11/03	D291				
DRUM, BLOWDOWN, F-12, ACID, LENGTH: 15 FT ; DIAMETER: 5 FT A/N: 411097 Permit to Construct Issued: 10/11/03	D292				
TANK, WASH, F-15, ACID. LENGTH: 66 FT 6 IN; DIAMETER: 12 FT A/N: 411097 Permit to Construct Issued: 10/11/03	D293				

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| <ul style="list-style-type: none"> * (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 | <ul style="list-style-type: none"> (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 limit (e.g. NSPS, NESHAPS, etc.) (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
Process 6: ALKYLATION AND POLYMERIZATION					P13.2
TANK, WASH, F-16, CAUSTIC, LENGTH: 34 FT 2 IN; DIAMETER: 8 FT A/N: 411097 Permit to Construct Issued: 10/11/03	D294				
TANK, WASH, F-17, ALKYLINE WATER, LENGTH: 52 FT ; DIAMETER: 12 FT A/N: 411097 Permit to Construct Issued: 10/11/03	D295				
DRUM, BLOWDOWN, F-19, ACID, LENGTH: 45 FT 2 IN; DIAMETER: 10 FT A/N: 411097 Permit to Construct Issued: 10/11/03	D296				
DRUM, BLOWDOWN, F-29, CAUSTIC, LENGTH: 24 FT ; DIAMETER: 6 FT A/N: 411097 Permit to Construct Issued: 10/11/03	D298				
SETTLING TANK, F-30, CAUSTIC, LENGTH: 9 FT 6 IN; DIAMETER: 4 FT 6 IN A/N: 411097 Permit to Construct Issued: 10/11/03	D299				
DRUM, HOLDING, BLOWDOWN, F-31, SPENT WATER BLOWDOWN, LENGTH: 25 FT 1 IN; DIAMETER: 6 FT A/N: 411097 Permit to Construct Issued: 10/11/03	D300				

- (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 limit (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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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions* And Requirements	Conditions
Process 6: ALKYLATION AND POLYMERIZATION					P13.2
DRYER, F-32A, DIAMETER: 3 FT; LENGTH: 20 FT A/N: 411097 Permit to Construct Issued: 10/11/03	D301				
DRYER, F-32B, DIAMETER: 3 FT; LENGTH: 20 FT A/N: 411097 Permit to Construct Issued: 10/11/03	D302				
TANK, SURGE, F-101, BUTENE FEED, LENGTH: 60 FT ; DIAMETER: 12 FT A/N: 411097 Permit to Construct Issued: 10/11/03	D303				
TANK, SURGE, F-103A, BUTANE, LENGTH: 27 FT 8 IN; DIAMETER: 4 FT 6 IN A/N: 411097 Permit to Construct Issued: 10/11/03	D304				
TANK, SURGE, F-103B, BUTANE, LENGTH: 27 FT 8 IN; DIAMETER: 4 FT 6 IN A/N: 411097 Permit to Construct Issued: 10/11/03	D305				
TANK, WASH, F-200, BUTENE, LENGTH: 20 FT , DIAMETER: 6 FT A/N: 411097 Permit to Construct Issued: 10/11/03	D306				
SETTLING TANK, F-201, BUTENE, LENGTH: 20 FT , DIAMETER: 5 FT A/N: 411097 Permit to Construct Issued: 10/11/03	D307				

* (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 limit (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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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions* And Requirements	Conditions
Process 6: ALKYLATION AND POLYMERIZATION					P13.2
VESSEL, SEPARATOR, F-203, DISULFIDE, LENGTH: 26 FT ; DIAMETER: 5 FT A/N: 411097 Permit to Construct Issued: 10/11/03	D308	D329		HAP: (10) [40CFR 63 Subpart CC, #1, 6-23-2003]	E57.2
POT, CATALYST ADDITION, F-204, LENGTH: 3 FT ; DIAMETER: 2 FT A/N: 411097 Permit to Construct Issued: 10/11/03	D309				
DRYER, F-211, CONTACTOR FEED A/N: 411097 Permit to Construct Issued: 10/11/03	D310				
SETTLING TANK, F-212A, ACID, LENGTH: 70 FT ; DIAMETER: 15 FT A/N: 411097 Permit to Construct Issued: 10/11/03	D311				
SETTLING TANK, F-212B, ACID, LENGTH: 70 FT ; DIAMETER: 15 FT A/N: 411097 Permit to Construct Issued: 10/11/03	D312				
SETTLING TANK, F-212C, ACID, LENGTH: 70 FT ; DIAMETER: 15 FT A/N: 411097 Permit to Construct Issued: 10/11/03	D313				
DRUM, SYSTEM TRAP AND SUCTION, F-213, LENGTH: 33 FT ; DIAMETER: 13 FT A/N: 411097 Permit to Construct Issued: 10/11/03	D314				
DRUM, FIRST STAGE ECONOMIZER, F-214, LENGTH: 13 FT 8 IN; DIAMETER: 5 FT 6 IN A/N: 411097 Permit to Construct Issued: 10/11/03	D315				

- * (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 limit (e.g. NSPS, NESHAPS, etc.)
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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions* And Requirements	Conditions
Process 6: ALKYLATION AND POLYMERIZATION					P13.2
VESSEL, SECOND STAGE ECONOMIZER, F-215, LENGTH: 13 FT 8 IN; DIAMETER: 6 FT A/N: 411097 Permit to Construct Issued: 10/11/03	D316				
POT, DRAIN, F-216, ACID, LENGTH: 2 FT ; DIAMETER: 2 FT A/N: 411097 Permit to Construct Issued: 10/11/03	D317				
DRUM, FOURTH STAGE ECONOMIZER, F-217, LENGTH: 11 FT ; DIAMETER: 6 FT A/N: 411097 Permit to Construct Issued: 10/11/03	D318				
TANK, HOLDING, F-218, INTERNAL DEPROPANIZER FEED, LENGTH: 15 FT ; DIAMETER: 7 FT A/N: 411097 Permit to Construct Issued: 10/11/03	D319				
ACCUMULATOR, F-219, INTERNAL DEPROPANIZER REFLUX, LENGTH: 14 FT ; DIAMETER: 5 FT A/N: 411097 Permit to Construct Issued: 10/11/03	D320				
VESSEL, COALESCER, F-224, LENGTH: 20 FT ; DIAMETER: 3 FT A/N: 411097 Permit to Construct Issued: 10/11/03	D321				D90.11
TANK, WASH, F-220, PROPANE CAUSTIC, LENGTH: 24 FT ; DIAMETER: 2 FT A/N: 411097 Permit to Construct Issued: 10/11/03	D322				

- * (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 limit (e.g. NSPS, NESHAPS, etc.)
- (10) See section J for NESHAP/MACT requirements

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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions* And Requirements	Conditions
Process 6: ALKYLATION AND POLYMERIZATION					P13.2
TANK, WASH. CAUSTIC, UO20885, DEPROPANIZER FEED, IDLED. LENGTH: 15 FT ; DIAMETER: 7 FT A/N: 411097 Permit to Construct Issued: 10/11/03	D323				
COMPRESSOR, GB-213, REFRIGERANT A/N: 411097 Permit to Construct Issued: 10/11/03	D324				
FILTER, F-4B, LENGTH: 10 FT ; DIAMETER: 2 FT A/N: 411097 Permit to Construct Issued: 10/11/03	D325				
HEAT EXCHANGER, STEAM REBOILER, E-10, DEPENTANIZER, IDLED A/N: 411097 Permit to Construct Issued: 10/11/03	D1363				
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 411097 Permit to Construct Issued: 10/11/03	D1589				H23.3
Process 7: SULFURIC ACID PRODUCTION					P13.2
System 1: CONTACT SULFURIC ACID PRODUCTION PLANT UNIT 141					S1.1, S15.14, S18.6
BOILER, WASTE HEAT, BIGELOW, 5B-101, UNFIRED A/N: 389085 Permit to Construct Issued: 01/31/02	D331				

- * (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 limit (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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FACILITY PERMIT TO OPERATE CONOCOPHILLIPS COMPANY

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 7: SULFURIC ACID PRODUCTION					P13.2
REACTOR, COMBUSTION CHAMBER, B-104, HYDROGEN SULFIDE, PROCESS GAS, REFINERY/NATURAL GAS, SPENT ALKYLATION ACID, LIQUID SULFUR, ACID GAS, WITH TWO BURNERS ME-101 A & 101B, 36.8 MMBTU/HR EACH, LENGTH: 46 FT ; DIAMETER: 17 FT 9 IN A/N: 389085 Permit to Construct Issued 01/31/02	D333		NOX: MAJOR SOURCE** ; SOX: MAJOR SOURCE**	CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; H2SO4 MIST: 0.3 LB(S) PER TON OF H2SO4 PRODUCED (5) [RULE 469, 5-7-1976; RULE 469, 2-13-1981]; H2SO4 MIST: 0.5 LB(S) PER TON OF H2SO4 PRODUCED (8) [40CFR 60 Subpart Cd, 12-19-1995]; PM: (9) [RULE 404, 2-7-1986]; PM 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]	D28.16, D323 5, D328 1
MIST ELIMINATOR, RESEARCH COTTRELL, 5D-101, 34 KVA, LENGTH: 15 FT ; DIAMETER 13 FT A/N: 389085 Permit to Construct Issued: 01/31/02	D334				
ABSORBER, H2SO4 CONTACTOR, MONSANTO, 5D-102, ACID. HEIGHT: 29 FT 4 IN; DIAMETER: 11 FT 8 IN A/N: 389085 Permit to Construct Issued: 01/31/02	D335				
DRYER, D-145, ACID, HEIGHT: 27 FT ; DIAMETER: 15 FT 4 IN A/N: 389085 Permit to Construct Issued: 01/31/02	D336				
COLUMN, STRIPPER, 5D-104, HEIGHT: 22 FT ; DIAMETER: 5 FT 6 IN A/N: 389085 Permit to Construct Issued: 01/31/02	D337				

- (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 limit (e.g. NSPS, NESHAPS, etc.)
- (10) See section J for NESHAP/MACT requirements

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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions* And Requirements	Conditions
Process 7: SULFURIC ACID PRODUCTION					PI3.2
VESSEL, CONVERTER, D-105, HEIGHT: 34 FT ; DIAMETER: 17 FT A/N: 389085 Permit to Construct Issued: 01/31/02	D338	C353			H116.1
TOWER, HUMIDIFIER, 5D-106, HEIGHT: 23 FT 6 IN; DIAMETER: 9 FT 6 IN A/N: 389085 Permit to Construct Issued: 01/31/02	D339				
COLUMN, EFFLUENT STRIPPER, 5D-107, HEIGHT: 12 FT ; DIAMETER: 2 FT A/N: 389085 Permit to Construct Issued: 01/31/02	D340				
MIST ELIMINATOR, BRINK, 5D-109 A/N: 389085 Permit to Construct Issued: 01/31/02	C341				
TANK, HOLDING, F-202, ABSORBING ACID, HEIGHT: 7 FT ; DIAMETER: 17 FT 6 IN A/N: 389085 Permit to Construct Issued: 01/31/02	D342				
TANK, 5F-102, ACID, HEIGHT: 7 FT ; DIAMETER: 17 FT 6 IN A/N: 389085 Permit to Construct Issued: 01/31/02	D343	C341			
TANK, 5F-103, WEAK ACID, HEIGHT: 7 FT ; DIAMETER: 5 FT 6 IN A/N: 389085 Permit to Construct Issued: 01/31/02	D1523	C341			

- * (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 limit (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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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions* And Requirements	Conditions
Process 7: SULFURIC ACID PRODUCTION					P13.2
TANK, 5F-104, WEAK ACID, HEIGHT: 6 FT ; DIAMETER: 8 FT A/N: 389085 Permit to Construct Issued: 01/31/02	D344	C341			
ACCUMULATOR, F-119, EFFLUENT STRIPPER OVERHEAD, HEIGHT: 5 FT ; DIAMETER: 4 FT A/N: 389085 Permit to Construct Issued: 01/31/02	D348				
POT, F-145, EMERGENCY SEAL, WIDTH: 2 FT 10 IN; HEIGHT: 4 FT 3 IN; LENGTH: 5 FT 4 IN A/N: 389085 Permit to Construct Issued: 01/31/02	D349				
MIST ELIMINATOR, EDUCATOR, 20 GPM, HEIGHT: 5 FT ; DIAMETER: 4 FT A/N: 389085 Permit to Construct Issued: 01/31/02	D350				
INJECTOR, COMBUSTION CHAMBER, ME-105A, SULFUR A/N: 389085 Permit to Construct Issued: 01/31/02	D1402		NOX: MAJOR SOURCE**; SOX: MAJOR SOURCE**	NOX: 0.333 LBS/TON PRODUCED (1) ; SOX: 2.76 LBS/TON PRODUCED (1)	
INJECTOR, COMBUSTION CHAMBER, ME-105B, SULFUR A/N: 389085 Permit to Construct Issued: 01/31/02	D1403		NOX: MAJOR SOURCE**; SOX: MAJOR SOURCE**	NOX: 0.333 LBS/TON PRODUCED (1) ; SOX: 2.76 LBS/TON PRODUCED (1)	
INJECTOR, COMBUSTION CHAMBER, ME-105A, SULFUR A/N: 389085 Permit to Construct Issued: 01/31/02	D1404				

- * (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 limit (e.g. NSPS, NESHAPS, etc.)
- (10) See section J for NESHAP/MACT requirements

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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions* And Requirements	Conditions
Process 7: SULFURIC ACID PRODUCTION					P13.2
INJECTOR, COMBUSTION CHAMBER, ME-105B, SULFUR A/N: 389085 Permit to Construct Issued: 01/31/02	D1405				
INJECTOR, COMBUSTION CHAMBER, ME-104A, SPENT ACID (ALKYLATION ACID) A/N: 389085 Permit to Construct Issued: 01/31/02	D1406				
INJECTOR, COMBUSTION CHAMBER, ME-104B, SPENT ACID (ALKYLATION ACID) A/N: 389085 Permit to Construct Issued: 01/31/02	D1407				
INJECTOR, COMBUSTION CHAMBER, ME-106A, WEAK ACID A/N: 389085 Permit to Construct Issued: 01/31/02	D1408				
INJECTOR, COMBUSTION CHAMBER, ME-106B, WEAK ACID A/N: 389085 Permit to Construct Issued: 01/31/02	D1409				
PIT, 5F-313, SULFUR, 100 LONG TON CAPACITY, COVERED, WIDTH: 17 FT 4 IN; DEPTH: 7 FT; LENGTH: 22 FT 8 IN A/N: 389085 Permit to Construct Issued: 01/31/02	D1525			SOX: 500 PPMV (5) [RULE 407, 4-2-1982]	E336.1
SCRUBBER, 40-F-140, PRIMARY RESERVE JET, HEIGHT 18 FT 4 IN; DIAMETER: 9 FT A/N: 389085 Permit to Construct Issued: 01/31/02	D1547				

- * (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 limit (e.g. NSPS, NESHAPS, etc.)
 - (10) See section J for NESHAP/MACT requirements
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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions* And Requirements	Conditions
Process 7: SULFURIC ACID PRODUCTION					P13.2
SCRUBBER, 40-F-142, FINAL RESERVE JET, HEIGHT: 12 FT 10 IN; DIAMETER: 7 FT A/N: 389085 Permit to Construct Issued: 01/31/02	D1548				
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 389085 Permit to Construct Issued: 01/31/02	D1591				H23.2
System 3: CANSOLV SO_x Scrubbing (W/AMMSOX as Backup System) for H₂SO₄ Plant					S18.7
SCRUBBER, CHEMICAL, SO ₂ , D-120, WITH MIST ELIMINATOR, HEIGHT: 33 FT 9 IN, DIAMETER: 10 FT A/N: 389083 Permit to Construct Issued: 01/31/02	D352				
MIST ELIMINATOR, F-115, WIDTH: 7 FT 8 IN, HEIGHT: 15 FT, LENGTH: 24 FT 2 IN A/N: 389083 Permit to Construct Issued: 01/31/02	C353	D338			
COLUMN, SO ₂ STRIPPING, D-121, BACKUP AMMSOX SYSTEM, HEIGHT: 30 FT 6 IN, DIAMETER: 2 FT A/N: 389083 Permit to Construct Issued: 01/31/02	D354				
System 4: VAPOR RECOVERY SYSTEM (BLOWERS & SCRUBBER)					S13.11

- (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 limit (e.g. NSPS, NESHAPS, etc.)
 - (10) See section J for NESHAP/MACT requirements
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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions* And Requirements	Conditions
Process 7: SULFURIC ACID PRODUCTION					P13.2
BLOWER, GB-404 & GB-404S (SPARE), SULFUR VAPOR/H2S/AIR MIXTURE, CENTRIFUGAL, 550 CFM, 7.5 HP EACH, SERVING SULFUR PIT AND SULFUR LOADING RACK A/N: 425342 Permit to Construct Issued: 12/22/04	D1546				E225.1
BLOWER, GB-105 & GB-106 (SPARE), VOC/SO2, 221 SCFM, SERVING SPENT ACID STORAGE TANK, NEUTRALIZATION UNIT AND ACID LOADING RACK A/N: 425342 Permit to Construct Issued: 12/22/04	D1675				E225.1
KNOCK OUT POT, F-340, VAPOR RECOVERY BLOWER SUCTION, HEIGHT: 4 FT ; DIAMETER: 1 FT 4 IN A/N: 425342 Permit to Construct Issued: 12/22/04	D1676				
KNOCK OUT POT, F-341, VAPOR RECOVERY BLOWER DISCHARGE, HEIGHT: 4 FT ; DIAMETER: 1 FT 4 IN A/N: 425342 Permit to Construct Issued: 12/22/04	D1677				
SCRUBBER, PACKED BED, F-404, BACKUP CAUSTIC, WITH TWO CAUSTIC CIRCULATION PUMPS, G-405 & G-405S (SPARE), 30 GPM., HEIGHT: 25 FT 6 IN; DIAMETER: 2 FT A/N: 425342 Permit to Construct Issued: 12/22/04	C1545	C1678 D1713 D1714			C8.4, D90.5, E71.20

- * (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 limit (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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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions* And Requirements	Conditions
Process 7: SULFURIC ACID PRODUCTION					P13.2
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 425342 Permit to Construct Issued: 12/22/04	D1594				H23.2
System 5: SPENT SULFURIC ACID STORAGE					
STORAGE TANK, FIXED ROOF, F-301, SPENT SULFURIC ACID, 4030 BBL, DIAMETER: 30 FT ; HEIGHT: 32 FT A/N: 378287 Permit to Construct Issued: 01/31/02	D1386			SO2: 500 PPMV (5) [RULE 407, 4-2-1982]; VOC: 500 PPMV (5) [RULE 1303(a)(1)] -BACT, 5-10-1996]	C1.64, E336.1, H23.13
System 7: AIR POLLUTION CONTROL SYSTEM (CARBON ADSORBERS)					
CARBON ADSORBER, ME-5. 12 TOTAL. 3 IN EACH SERIES, 4 SERIES IN PARALLEL, 1,800 LBS ACTIVATED CARBON EACH. BACKUP FOR D333, HEIGHT 4 FT ; DIAMETER: 5 FT A/N: 391944 Permit to Construct Issued: 01/31/02	C1678	C1545			D90.6, E153.2
System 8: CANSOLV (AMINE) REGENERATION					S13.11
REGENERATOR, SOLVENT, D-600, HEIGHT: 43 FT 1 IN; DIAMETER: 3 FT A/N: 424946 Permit to Construct Issued: 12/22/04	D1679				
ACCUMULATOR, REFLUX, F-602, HEIGHT: 9 FT ; DIAMETER: 1 FT 10 IN A/N: 424946 Permit to Construct Issued: 12/22/04	D1680				

- (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 limit (e.g. NSPS, NESHAPS, etc.)
 - (9) See App B for Emission Limits
 - (10) See section J for NESHAP/MACT requirements
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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions* And Requirements	Conditions
Process 7: SULFURIC ACID PRODUCTION					PI3.2
KNOCK OUT POT, AMINE, F-603, HEIGHT: 9 FT ; DIAMETER: 1 FT 10 IN A/N: 424946 Permit to Construct Issued: 12/22/04	D1681				
TANK, LEAN AMINE, F-604, VENTED TO ATMOSPHERE, HEIGHT: 15 FT 1 IN; DIAMETER: 7 FT 6 IN A/N: 424946 Permit to Construct Issued: 12/22/04	D1682			SOX: 500 PPMV (5) [RULE 407, 4-2-1982]	D90.7, H116.2
CONDENSER, SOLVENT STRIPPER, E-601, SHELL AND TUBE TYPE, 6.71 MMBTU/HR A/N: 424946 Permit to Construct Issued: 12/22/04	D1688				
COLUMN, ION EXCHANGE BED, D-100A, HEIGHT: 6 FT ; DIAMETER: 4 FT A/N: 424946 Permit to Construct Issued: 12/22/04	D1707				
COLUMN, ION EXCHANGE BED, D-100B, HEIGHT: 6 FT ; DIAMETER: 4 FT A/N: 424946 Permit to Construct Issued: 12/22/04	D1708				
TANK, SPENT CAUSTIC, F-327, WITH A ROOF MOUNT MIXER, VENTED TO ATMOSPHERE, 16700 GALS; DIAMETER: 14 FT ; HEIGHT: 20 FT A/N: 424946 Permit to Construct Issued: 12/22/04	D1709			SOX: 500 PPMV (5) [RULE 407, 4-2-1982]	D90.7, H116.2, H116.3

- (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 limit (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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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions* And Requirements	Conditions
Process 7: SULFURIC ACID PRODUCTION					P13.2
TANK, DILUTE AMINE PURGE, F-613, VENTED TO ATMOSPHERE, 9000 GALS. DIAMETER: 12 FT ; HEIGHT: 12 FT A/N: 424946 Permit to Construct Issued: 12/22/04	D1711			SOX: 500 PPMV (5) [RULE 407, 4-2-1982]	D90.7, H116.2, H116.3
TANK, AMINE RECYCLE, F-614, VENTED TO ATMOSPHERE, 9000 GALS. DIAMETER: 12 FT ; HEIGHT: 12 FT A/N: 424946 Permit to Construct Issued: 12/22/04	D1712			SOX: 500 PPMV (5) [RULE 407, 4-2-1982]	D90.7, H116.2, H116.3
TANK, NEUTRALIZATION PRIMARY TREATMENT, F-401, WITH MIXER, HEIGHT: 6 FT 6 IN; DIAMETER: 9 FT 6 IN A/N: 424946 Permit to Construct Issued: 12/22/04	D1713	C1545		SOX: 500 PPMV (5) [RULE 407, 4-2-1982]	E336.1
TANK, NEUTRALIZATION SECONDARY TREATMENT, F-402, WITH MIXER, HEIGHT: 11 FT 4 IN; DIAMETER: 8 FT A/N: 424946 Permit to Construct Issued: 12/22/04	D1714	C1545		SOX: 500 PPMV (5) [RULE 407, 4-2-1982]	E336.1
Process 8: BLENDING					P13.2
System 1: GASOLINE BLENDING					S13.6, S15.2, S15.3
DRUM, F-1, SAMPLE RECOVERY, HEIGHT: 6 FT ; DIAMETER: 3 FT A/N: 326126 * Permit to Construct Issued: 01/10/96	D1342	C1343		BENZENE: 5 PPMV (4) [RULE 1303(a)(1)-BACT, 5-10-1996]; VOC: 500 PPMV (4) [RULE 1303(a)(1)-BACT, 5-10-1996]	
System 2: MID-BARREL BLENDING					S15.2, S15.3

- * (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 limit (e.g. NSPS, NESHAPS, etc.)
- (9) See App B for Emission Limits
- (10) See section J for NESHAP/MACT requirements

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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions* And Requirements	Conditions
Process 8: BLENDING					P13.2
PUMP, CENTRIFUGAL, P-1901, MID BARREL SHIPPING, TANDEM SEAL, 1,000-HP A/N: 326128 † Permit to Construct Issued: 01/09/97	D1473				
System 3: VAPOR CONTROL SYSTEM					S11.1
CARBON ADSORBER, ME-2A, 2 TOTAL IN PARALLEL, 200 LBS A/N: 326130 † Permit to Construct Issued: 07/22/94	C1343	D1342			D90.13, E128.1, E153.3
Process 9: TREATING/STRIPPING					P13.2
System 4: AMINE STRIPPING UNIT 138					S13.6, S15.11, S15.16
REACTOR, REACTIVATOR (STRIPPER/REGENERATOR), NO. 1, D-1, HEIGHT: 50 FT ; DIAMETER: 7 FT A/N: 351957 Permit to Construct Issued: 05/21/99	D398				
REACTOR, REACTIVATOR (STRIPPER/REGENERATOR), NO. 2, D-301, HEIGHT: 52 FT ; DIAMETER: 8 FT 6 IN A/N: 351957 Permit to Construct Issued: 05/21/99	D399				
ACCUMULATOR, NO. 1, F-1, REGENERATOR REFLUX, HEIGHT: 10 FT ; DIAMETER: 3 FT A/N: 351957 Permit to Construct Issued: 05/21/99	D400				

- * (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 limit (e.g. NSPS, NESHAPS, etc.)
- (10) See section J for NESHAP/MACT requirements

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FACILITY PERMIT TO OPERATE CONOCOPHILLIPS COMPANY

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 9: TREATING/STRIPPING					P13.2
TANK, SURGE, F-4, LEAN MEA, 2175 BBL; DIAMETER: 30 FT ; HEIGHT: 18 FT A/N: 351957 Permit to Construct Issued: 05/21/99	D401				
FILTER, CARTRIDGE, F-304, LEAN MEA A/N: 351957 Permit to Construct Issued: 05/21/99	D402				
TANK, DRAIN, F-305, ORGANIC LIQUID, HEIGHT: 6 FT 10 IN; DIAMETER: 11 IN A/N: 351957 Permit to Construct Issued: 05/21/99	D404				
TANK, SURGE, F-300, RICH MEA, LENGTH: 28 FT ; DIAMETER: 7 FT 6 IN A/N: 351957 Permit to Construct Issued: 05/21/99	D405				
ACCUMULATOR, NO. 2, F-301, REGENERATOR REFLUX, LENGTH: 15 FT ; DIAMETER: 5 FT A/N: 351957 Permit to Construct Issued: 05/21/99	D406				
TANK, SURGE, F-300B, RICH MEA, LENGTH: 32 FT ; DIAMETER: 13 FT A/N: 351957 Permit to Construct Issued: 05/21/99	D1552				
Process 11: LOADING/UNLOADING					P13.2
System 1: BUTANE					S15.2, S15.6

- | | |
|--|--|
| <ul style="list-style-type: none"> * (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 | <ul style="list-style-type: none"> (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 limit (e.g. NSPS, NESHAPS, etc.) (10) See section J for NESHAP/MACT requirements |
|--|--|

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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions* And Requirements	Conditions
Process 11: LOADING/UNLOADING					P13.2
LOADING AND UNLOADING ARM, TANK CAR, C4 AND C5, VENTED TO REFINERY VAPOR RECOVERY UNIT, 8 TOTAL; DIAMETER: 4 IN A/N:	D458	D1673		VOC: 0.08 LBS/1000 GAL BUTANE (5) [RULE 462, 5-14-1999]	C1.52, C1.55
LOADING AND UNLOADING ARM, TANK TRUCK, BUTANE/BUTENE, VENTED TO NORTH VAPOR RECOVERY UNIT, 2 TOTAL; DIAMETER: 4 IN A/N:	D459	D1673		VOC: 0.08 LBS/1000 GAL BUTANE (5) [RULE 462, 5-14-1999]	C1.53, C1.56
VESSEL, DEPRESSURING, F-114, VENTED TO NORTH VAPOR RECOVERY UNIT, HEIGHT: 6 FT; DIAMETER: 2 FT A/N:	D1673	D458 D459 D709			
FUGITIVE EMISSIONS, MISCELLANEOUS A/N:	D1605				H23.2
System 7: SPENT SULFURIC ACID LOADING/UNLOADING					S1.2
LOADING AND UNLOADING ARM, TANK TRUCK, SPENT SULFURIC ACID, DIAMETER: 4 IN A/N: 378283 Permit to Construct Issued: 01/31/02	D1380			SO2: 500 PPMV (5) [RULE 407, 4-2-1982]	D28.15, E71.18, E336.1
System 8: SULFUR LOADING					
LOADING ARM, TANK TRUCK, TOP, SULFUR, DIAMETER: 2 IN A/N: 336592 Permit to Construct Issued: 06/04/98	D1385			SOX: 500 PPMV (5) [RULE 407, 4-2-1982]	E336.1
Process 12: WASTEWATER TREATMENT PLANTS					P13.2
System 1: WASTEWATER TREATMENT					S13.1, S13.10

- * (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 limit (e.g. NSPS, NESHAPS, etc.)
- (9) See App B for Emission Limits
- (10) See section J for NESHAP/MACT requirements

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FACILITY PERMIT TO OPERATE CONOCOPHILLIPS COMPANY

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 12: WASTEWATER TREATMENT PLANTS					P13.2
TANK, F-2A (WEST), FLOCCULATOR, COVERED, WITH A MIXER, WIDTH: 16 FT, HEIGHT: 12 FT; LENGTH 24 FT A/N: 504062 Permit to Construct Issued: 06/16/10	D499				
TANK, F-2B (CENTER), FLOCCULATOR, COVERED, WITH A MIXER, WIDTH: 16 FT; HEIGHT: 12 FT; LENGTH 24 FT A/N: 504062 Permit to Construct Issued 06/16/10	D500				
TANK, F-2C (EAST), FLOCCULATOR, COVERED, WITH A MIXER, WIDTH: 16 FT; HEIGHT: 12 FT; LENGTH 24 FT A/N: 504062 Permit to Construct Issued: 06/16/10	D501				
FLOATATION UNIT, FIXED ROOF, F-3A (WEST), DISSOLVED AIR FLOTATION UNIT, WITH FROTH AND SLUDGE FLIGHT SCRAPER, WIDTH: 16 FT; DEPTH: 12 FT; LENGTH: 81 FT A/N: 504062 Permit to Construct Issued 06/16/10	D502	C524		VOC: 500 PPMV (5) [RULE 1176, 9-13-1996]	D182.2
FLOATATION UNIT, FIXED ROOF, F-3B (CENTER), DISSOLVED AIR FLOTATION UNIT, WITH FROTH AND SLUDGE FLIGHT SCRAPER, WIDTH: 16 FT; DEPTH: 12 FT; LENGTH: 81 FT A/N: 504062 Permit to Construct Issued: 06/16/10	D503	C524		VOC: 500 PPMV (5) [RULE 1176, 9-13-1996]	D182.2

- (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 limit (e.g. NSPS, NESHAPS, etc.)
- (9) See App B for Emission Limits
- (10) See section J for NESHAP/MACT requirements

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FACILITY PERMIT TO OPERATE CONOCOPHILLIPS COMPANY

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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 12: WASTEWATER TREATMENT PLANTS					P13.2
FLOATATION UNIT, FIXED ROOF, F-3C (EAST), DISSOLVED AIR FLOTATION UNIT, WITH FROTH AND SLUDGE FLIGHT SCRAPER, WIDTH: 16 FT ; DEPTH: 12 FT ; LENGTH: 81 FT A/N: 504062 Permit to Construct Issued: 06/16/10	D504	CS24		VOC: 500 PPMV (5) [RULE 1176, 9-13-1996]	D182.2
TANK, FIXED ROOF, RECYCLE SATURATION, F-4A, WASTE WATER, HEIGHT: 7 FT ; DIAMETER: 5 FT A/N: 504062 Permit to Construct Issued: 06/16/10	D505				
TANK, FIXED ROOF, RECYCLE SATURATION, F-4B, WASTE WATER, HEIGHT: 7 FT ; DIAMETER: 5 FT A/N: 504062 Permit to Construct Issued: 06/16/10	D506				
TANK, FIXED ROOF, RECYCLE SATURATION, F-4C, WASTE WATER, HEIGHT: 7 FT ; DIAMETER: 5 FT A/N: 504062 Permit to Construct Issued: 06/16/10	D507				

- * (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 limit (e.g. NSPS, NESHAPS, etc.)
- (9) See App B for Emission Limits
- (10) See section J for NESHAP/MACT requirements

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FACILITY PERMIT TO OPERATE CONOCOPHILLIPS COMPANY

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 12: WASTEWATER TREATMENT PLANTS					P13.2
SUMP, PRIMARY OIL SKIMMING, WIDTH: 11 FT ; DEPTH: 15 FT ; LENGTH 16 FT WITH A/N: 504062 Permit to Construct Issued: 06/16/10	D508				
FLOATING ROOF					
PRIMARY SEAL					
SUMP, SECONDARY OIL SKIMMING, WIDTH: 10 FT ; DEPTH: 11 FT . LENGTH: 11 FT WITH A/N: 504062 Permit to Construct Issued: 06/16/10	D509				
FLOATING ROOF					
PRIMARY SEAL, LIQUID MOUNTED					
SECONDARY SEAL					
TANK, HOLDING, FIXED ROOF, TK-436, FERROUS SULFATE, 145 BBL; DIAMETER: 14 FT ; HEIGHT: 16 FT A/N: 504062 Permit to Construct Issued: 06/16/10	D512				
TANK, HOLDING, FIXED ROOF, TK-437, FERROUS SULFATE, 250 BBL; DIAMETER: 10 FT . HEIGHT: 15 FT A/N: 504062 Permit to Construct Issued: 06/16/10	D513				

- * (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 limit (e.g. NSPS, NESHAPS, etc.)
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SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions* And Requirements	Conditions
Process 12: WASTEWATER TREATMENT PLANTS					P13.2
TANK, HOLDING, FIXED ROOF, TK-438, SLUDGE, 1500 BBL; DIAMETER: 22 FT ; HEIGHT: 25 FT A/N: 504062 Permit to Construct Issued: 06/16/10	D514			HAP: (10) [40CFR 63 Subpart CC, #2, 6-23-2003]	
TANK, HOLDING, FIXED ROOF, TK-439, SLUDGE, 1500 BBL; DIAMETER: 22 FT ; HEIGHT: 25 FT A/N: 504062 Permit to Construct Issued: 06/16/10	D515			HAP: (10) [40CFR 63 Subpart CC, #2, 6-23-2003]	
TANK, SURGE, TK-461, STORMWATER AND WASTEWATER, WITH OIL SKIMMER. 1.3E+07 GALS; DIAMETER: 185 FT ; HEIGHT: 79 FT 7 IN WITH A/N: 504062 Permit to Construct Issued: 06/16/10	D516			HAP: (10) [40CFR 63 Subpart CC, #4, 6-23-2003]	H23.15
FLOATING ROOF, PAN					
PRIMARY SEAL, CATEGORY A, METALLIC SHOE					
SECONDARY SEAL, CATEGORY B OR BETTER PER RULE 219(C) (4), WIPER TYPE					

- * (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 limit (e.g. NSPS, NESHAPS, etc.)
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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
Process 12: WASTEWATER TREATMENT PLANTS					P13.2
TANK, SURGE, TK-462, STORMWATER AND WASTEWATER, WITH OIL SKIMMER. 1.3E+07 GALS; DIAMETER: 185 FT ; HEIGHT: 79 FT 7 IN WITH A/N: 504062 Permit to Construct Issued: 06/16/10 FLOATING ROOF, PAN PRIMARY SEAL, CATEGORY A, METALLIC SHOE SECONDARY SEAL, CATEGORY B OR BETTER PER RULE 219(C) (4), WIPER TYPE	DS17			HAP: (10) [40CFR 63 Subpart CC, #4, 6-23-2003]	H23.15
TANK, SURGE, F-8, (CONTAINMENT STRUCTURE), FIXED COVER, WITH AN INTERNAL WEIR AND WATER SEAL, WIDTH: 19 FT ; HEIGHT: 11 FT 5 IN. LENGTH: 150 FT WITH A/N: 504062 Permit to Construct Issued: 06/16/10 FLOATING ROOF, PAN, LIQUID MOUNTED FLOW CHAMBER, FIXED COVER, WIDTH: 7 FT ; DEPTH: 10 FT ; LENGTH: 175 FT	DS18	CS26		HAP: (10) [40CFR 63 Subpart CC, #4, 6-23-2003]; VOC: 500 PPMV (5) [RULE 1176, 9-13-1996]	C6.2, D182.2, E193.3

* (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 limit (e.g. NSPS, NESHAPS, etc)
 (9) See App B for Emission Limits
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FACILITY PERMIT TO OPERATE CONOCOPHILLIPS COMPANY

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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 12: WASTEWATER TREATMENT PLANTS					P13.2
OIL WATER SEPARATOR, F-1A (EAST), API, CAPACITY 305,000 GALLONS, WITH A PRV SET AT 4.5 INCHES OF WATER RELIEF PRESSURE, 360000 GALS/HR; WIDTH: 40 FT ; DEPTH: 7 FT 8 IN; LENGTH: 138 FT WITH A/N: 504062 Permit to Construct Issued: 06/16/10 OIL WATER SEPARATOR, F-1A(EAST) API FOREBAY, WITH FIXED COVER OIL WATER SEPARATOR, F-1A(EAST) API AFTERBAY, WITH FIXED COVER PRIMARY SEAL, LIQUID MOUNTED SECONDARY SEAL	D1543	CS22		HAP: (10) [40CFR 63 Subpart CC, #4, 6-23-2003]; VOC: 500 PPMV (5) [RULE 1176, 9-13-1996]	C6.2, D182.2

* (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 limit (e.g. NSPS, NESHAPS, etc.)
 (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
Process 12: WASTEWATER TREATMENT PLANTS					P13.2
OIL WATER SEPARATOR, F-1B (WEST), API. CAPACITY 305,000 GALLONS, WITH A PRV SET AT 4.5 INCHES OF WATER RELIEF PRESSURE. 360000 GALS/HR. WIDTH: 40 FT ; DEPTH: 7 FT 8 IN; LENGTH: 138 FT WITH A/N: 504062 Permit to Construct Issued: 06/16/10 OIL WATER SEPARATOR, F-1B(WEST) API FOREBAY, WITH FIXED COVER OIL WATER SEPARATOR, F-1B(WEST) API AFTERBAY, WITH FIXED COVER PRIMARY SEAL, LIQUID MOUNTED SECONDARY SEAL	D1544	C522		HAP: (10) [40CFR 63 Subpart CC, #4, 6-23-2003]; VOC: 500 PPMV (5) [RULE 1176, 9-13-1996]	C6.2, D182.2
SUMP, G-13, SLUDGE FROTH, 3,400 GALS, FIXED COVER, WIDTH: 7 FT 9 IN; DEPTH: 7 FT ; LENGTH: 8 FT 6 IN A/N: 504062 Permit to Construct Issued: 06/16/10	D1550	C524		VOC: 500 PPMV (5) [RULE 1176, 9-13-1996]	

* (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 limit (e.g. NSPS, NESHAPS, 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:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions* And Requirements	Conditions
Process 12: WASTEWATER TREATMENT PLANTS					P13.2
SUMP, G-19, SLUDGE DEWATERING, 25,000 GALS, FIXED COVER WITH A PRV SET AT 1.1 PSIG RELIEF PRESSURE, WIDTH: 11 FT ; DEPTH: 7 FT ; LENGTH: 20 FT A/N: 504062 Permit to Construct Issued: 06/16/10	D1551	C522		VOC: 500 PPMV (5) [RULE 1176, 9-13-1996]	C6.2, D182.2
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 504062 Permit to Construct Issued: 06/16/10	D1608				H23.2
TANK, OB DIVERSION BOX, FIXED COVER, WIDTH: 5 FT ; HEIGHT: 7 FT ; LENGTH: 10 FT 3 IN A/N: 504062 Permit to Construct Issued: 06/16/10	D1624	C522		HAP: (10) [40CFR 63 Subpart CC, #4, 6-23-2003]; VOC: 500 PPMV (5) [RULE 1176, 9-13-1996]	C6.2, D182.2
DRAIN SYSTEM COMPONENT A/N: 504062 Permit to Construct Issued: 06/16/10	D1647			HAP: (10) [40CFR 63 Subpart CC, #4, 6-23-2003]	
System 3: CARBON ADSORBERS					S13.1
CARBON ADSORBER, UNIT NO. 2 (TWO IN PARALLEL), US FILTER/WESTATES, MODEL VSC-8000, EACH, 8000 LBS A/N: 369288 Permit to Construct Issued: 08/18/00	C522	D1543 D1544 D1551 D1624			D90.3, E153.1
CARBON ADSORBER, UNIT NO. 1 (TWO IN PARALLEL), 2000 LBS A/N: 327239 Permit to Construct Issued: 06/04/98	C524	D502 D503 D504			D90.3, E153.1

- * (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 limit (e.g. NSPS, NESHAPS, etc.)
- (10) See section J for NESHAP/MACT requirements

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**FACILITY PERMIT TO OPERATE
CONOCOPHILLIPS COMPANY**

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 12: WASTEWATER TREATMENT PLANTS					P13.2
CARBON ADSORBER, UNIT NO. 3, US FILTER/WESTATES, MODEL VSC-8000, (TWO IN PARALLEL) EACH, 8000 LBS A/N: 369289 Permit to Construct Issued: 08/18/00	C526	D518			D90.3, E153.1
Process 13: STORAGE TANKS					P13.1, P13.2
System 4: PRESSURIZED TANKS					S13.2, S15.2, S15.6
STORAGE TANK, PRESSURIZED, 465, C4 AND C5, VENTED TO REFINERY FLARE VAPOR RECOVERY SYSTEM, 27000 BBL; DIAMETER: 66 FT A/N: 387299 Permit to Construct Issued: 01/31/02	D1367				C1.54, E57.3, E71.19, E71.21, E71.22
STORAGE TANK, PRESSURIZED, F-136, PERCHLORETHYLENE, WITH A VAPOR BALANCE SYSTEM, 6250 GALS; DIAMETER: 8 FT, HEIGHT: 16 FT A/N: 334037 Permit to Construct Issued: 01/27/98	D825				C1.15, E144.1
System 9: LOW PRESSURIZED TANKS					
STORAGE TANK, FIXED ROOF, LOW PRESSURE, NO. 466, MIXED PENTANES, WITH TWO PRESSURE RELIEF VALVES SET AT 14.9 PSIG, 40000 BBL; DIAMETER: 80 FT ; HEIGHT: 48 FT A/N: 337587 Permit to Construct Issued: 10/06/98	D1378			HAP: (10) [40CFR 63 Subpart CC, #2, 6-23-2003]	C1.5, C1.17, E71.4, E336.3

* (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 limit (e.g. NSPS, NESHAPS, etc.)
(9) See App B for Emission Limits (10) See section J for NESHAP/MACT requirements

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FACILITY PERMIT TO OPERATE CONOCOPHILLIPS COMPANY

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 14: ELECTRICITY GENERATION					
System 2: NON EMERGENCY IC ENGINES					
INTERNAL COMBUSTION ENGINE, NON-EMERGENCY, LEAN BURN, GB-151, DRIVING A VAPOR RECOVERY COMPRESSOR GB151, NATURAL GAS, INGERSOL, MODEL 8XVG-2, AIR TO FUEL RATIO CONTROLLER, WOODWARD MODEL F SERIES ITB, WITH PRE-STRATIFIED CHARGE, 300 BHP A/N: 495174 Permit to Construct Issued: 03/10/09	D732		NOX: LARGE SOURCE**	CO: 2000 PPMV (5) [RULE 1110.2, 2-1-2008]; NOX: 150 PPMV NATURAL GAS (3) [RULE 2012, 5-6-2005]; PM: (9) [RULE 404, 2-7-1986]; ROG: 250 PPMV (5) [RULE 1110.2, 2-1-2008]	D12.8, D12.18, D29.11, E193.6, H23.30, I30.1, K67.14
System 3: COGENERATION					
EVAPORATOR, THERMAL, E-107, BUTANE, BUTANE A/N: 484546 Permit to Construct Issued: 02/25/09	D826				G292.1, I30.1
KNOCK OUT POT, THERMAL, F-109, BUTANE, BUTANE, DIAMETER: 3 FT, HEIGHT: 6 FT 6 IN A/N: 484546 Permit to Construct Issued: 02/25/09	D1383				G292.1, I30.1
VESSEL, MIXING, F-104, FUEL GAS, HEIGHT: 7 FT 6 IN; DIAMETER: 4 FT A/N: 484546 Permit to Construct Issued: 02/25/09	D1471				G292.1, I30.1

- (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 limit (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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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions* And Requirements	Conditions
Process 14: ELECTRICITY GENERATION					
GAS TURBINE, GG-101, B12 ROTOR, BUTANE, NATURAL GAS, REFINERY/NATURAL GAS, WESTINGHOUSE, MODEL CW251B12A, S/N 66S-8109, 646 3 MMBTU/HR WITH A/N: 484546 Permit to Construct Issued: 02/25/09	D828		NOX: MAJOR SOURCE**; SOX: MAJOR SOURCE**	CO: 10 PPMV (4) [RULE 1303(a)(1)-BACT, 5-10-1996]; CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; NOX: 9 PPMV (4) [RULE 2005, 4-20-2001; RULE 2005, 5-6-2005]; NOX: 24.7 LBS/HR (7) [RULE 2005, 4-20-2001; RULE 2005, 5-6-2005]; NOX: 104 PPMV NATURAL GAS (4) [RULE 2005, 4-20-2001; RULE 2005, 5-6-2005]; NOX: 165 PPMV BUTANE (4) [RULE 2005, 4-20-2001; RULE 2005, 5-6-2005]; PM: 0.01 GRAINS/SCF (5B) [RULE 475, 10-8-1976; RULE 475, 8-7-1978]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]; PM: 11 LBS/HR (5A) [RULE 475, 10-8-1976; RULE 475, 8-7-1978]; SO2: 20 PPMV (8) [40CFR 60 Subpart J, 6-24-2008]; SO2: 150 PPMV (8A) [40CFR 60 Subpart GG, 7-8-2004]; SOX: 9.54 LBS/HR (7) [RULE 2005, 4-20-2001; RULE 2005, 5-6-2005]	A63.2, A99.1, A99.2, A195.2, A195.3, A327.2, B61.3, C1.9, D12.4, D12.6, D28.8, D29.9, D82.6, E71.3, E73.2, E73.5, E193.2, G292.1, H23.3, H23.11, H23.34, I30.1, K67.5
GENERATOR, ELECTRIC, 58.5 MW					

- * (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 limit (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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FACILITY PERMIT TO OPERATE CONOCOPHILLIPS COMPANY

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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 14: ELECTRICITY GENERATION					
COMPRESSOR, CENTRIFUGAL, GB-101, FUEL GAS					
COMPRESSOR, AIR					
COMBUSTOR, STEAM INJECTION					
BURNER, DUCT BURNER, JOHN-ZINK MODEL LDR11E, 99 MMBTU/HR WITH A/N: 484546 Permit to Construct Issued: 02/25/09	D829	C832	NOX: MAJOR SOURCE**; SOX: MAJOR SOURCE**	CO: 10 PPMV (4) [RULE 1303(a)(1)-BACT, 5-10-1996]; CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; NOX: 9 PPMV (4) [RULE 2005, 4-20-2001; RULE 2005, 5-6-2005]; NOX: 24.7 LBS/HR (4) [RULE 2005, 4-20-2001; RULE 2005, 5-6-2005]; PM: 0.01 GRAINS/SCF (5B) [RULE 476, 10-8-1976]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]; PM: 11 LBS/HR (5A) [RULE 476, 10-8-1976]; SO2: 20 PPMV (8) [40CFR 60 Subpart J, 6-24-2008]; SOX: 9.54 LBS/HR (4) [RULE 2005, 4-20-2001; RULE 2005, 5-6-2005]	A63.2, A327.1, B61.3, C1.10, D12.7, D28.8, D82.6, E73.1, G292.1, H23.34, I30.1
BOILER, TURBINE EXHAUST HEAT RECOVERY, E-102, REFINERY/NATURAL GAS, FOSTER WHEELER, 3.1E+5 LBHR OF 415 PSIG STEAM OUTPUT					

* (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 limit (e.g. NSPS, NESHAPS, etc.)
(10) See section J for NESHAP/MACT requirements

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FACILITY PERMIT TO OPERATE CONOCOPHILLIPS COMPANY

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions* And Requirements	Conditions
Process 14: ELECTRICITY GENERATION					
System 4: AIR POLLUTION CONTROL					
CO OXIDATION CATALYST, ME-109, ENGELHARD, 160 CF, 22 IN W X 218 IN L X 492 IN H, HONEYCOMB PLATINUM TYPE OR EQUIVALENT A/N: 480888 Permit to Construct Issued: 02/25/09	C832	D829 C830			D82.1, G292.1, I30.1
SELECTIVE CATALYTIC REDUCTION, ME-108, HALDOR-TOPSOE CATALYST VOLUME 1400 CU FT OR CORMETECH VOLUME 1040 CU FT, HONEYCOMB CERAMIC TYPE, FOLLOWING STEAM INJECTION CONTROL (TURBINE COMBUSTOR), WIDTH: 20 FT 6 IN; HEIGHT: 41 FT 2 IN; LENGTH: 7 FT WITH A/N: 480888 Permit to Construct Issued: 02/25/09	C830	C832 S1369		NH3: 20 PPMV (4) [RULE 1303(a)(1)-BACT, 5-10-1996]	D12.1, D12.5, D28.18, D29.10, G292.1, I30.1, K40.2
AMMONIA INJECTION, ME-102, ANHYDROUS STACK, HEIGHT: 80 FT ; DIAMETER 13 FT 5.5 IN A/N: 480888 Permit to Construct Issued: 02/25/09	S1369	C830			G292.1, I30.1

Process 15: STEAM GENERATION

System 1: BOILERS

- * (1) (1A) (1B) Denotes RECLAIM emission factor
 - (3) Denotes RECLAIM concentration limit
 - (5) (5A) (5B) Denotes RECLAIM 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 limit (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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**FACILITY PERMIT TO OPERATE
CONOCOPHILLIPS COMPANY**

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions And Requirements	Conditions
Process 15: STEAM GENERATION					
BOILER, NO. 7, REFINERY/NATURAL GAS, WITH OPTIONAL FLUE GAS RECIRCULATION, WITH LOW NOX BURNER, 304 MMBTU/HR WITH A/N: 460501 Permit to Construct Issued: 08/02/07	D686	C1773	NOX: MAJOR SOURCE**, SOX: MAJOR SOURCE**	CO: 19.2 LBS/HR REFINERY/NATURAL GAS (7) [RULE 1303(b)(2)-Offset, 5-10-1996]; CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]; ROG: 1.6 LBS/HR REFINERY/NATURAL GAS (7) [RULE 1303(b)(2)-Offset, 5-10-1996]	A305.2, A305.3, B61.4, C1.62, D12.15, D29.2, D232.1, D328.2, D425.1, H23.1
BURNER, REFINERY/NATURAL GAS, COEN, MODEL TANGENTIAL FIRED CORNER BURNER, 25.3 MMBTU/HR EACH, WITH LOW NOX BURNER, 12 TOTAL: 304 MMBTU/HR					

- (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 limit (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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FACILITY PERMIT TO OPERATE CONOCOPHILLIPS COMPANY

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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 15: STEAM GENERATION					
SELECTIVE CATALYTIC REDUCTION, VANADIUM PENTOXIDE AND TUNGSTEN TRIOXIDE, HONEYCOMB TYPE, HALDOR TOPSOE, 560 CU FT., WIDTH: 10 FT 10 IN; HEIGHT: 5 FT ; LENGTH: 11 FT 2 IN WITH A/N: 460547 Permit to Construct Issued: 08/02/07	C1773	D686		NH3: 5 PPMV (4) [RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002]	A1.2, B61.8, D12.5, D12.16, D12.17, D29.6, D29.7, E448.3
AMMONIA INJECTION, AQUEOUS AMMONIA					
METERING SKID, DILUTION AIR BLOWER					
DRUM, AMMONIA VAPORIZER, F-715					
FILTER, AQUEOUS AMMONIA, F-713/714, 2 TOTAL					
Process 16: PETROLEUM, MISCELLANEOUS					
System 7: SOIL VAPOR EXTRACTION AND CONTROL SYSTEM					

* (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 limit (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:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions* And Requirements	Conditions
Process 16: PETROLEUM, MISCELLANEOUS					
STORAGE TANK, PRESSURIZED (35 PSIG), 80-F-218, SERVING SCR OF H2 PLANT U118 & SCR OF U90, AQUEOUS AMMONIA, WITH TRUCK UNLOADING STATION, VAPOR RETURN SYSTEM & TRANSFER PUMPS. 16240 GALS; DIAMETER 10 FT 6 IN. LENGTH: 25 FT A/N: 468688 Permit to Construct Issued: 06/12/07	D701				E71.26, E144.1, K67.6
TANK, PRESSURIZED (175 PSIG), F-716, SERVING SCR OF BOILER 7, AQUEOUS AMMONIA, WITH TRUCK UNLOADING STATION, VAPOR RETURN SYSTEM & TRANSFER PUMPS. 11400 GALS; DIAMETER 9 FT ; LENGTH: 21 FT A/N: 460548 Permit to Construct Issued: 08/02/07	D1778				K67.6
Process 17: AIR POLLUTION CONTROL (FLARES)					
System 1: NORTH FLARE					
FLARE, ELEVATED WITH STEAM INJECTION, NORTH, WITH MOLECULAR GAS SEAL AND NATURAL GAS PILOT BURNER, HEIGHT: 200 FT ; DIAMETER 3 FT A/N: 406317 Permit to Construct Issued: 10/11/03	C706				S18 2, S18 8 D12.10, D323.2, E193.4, H23 28, H23 32, I1 2

- (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 limit (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:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions* And Requirements	Conditions
Process 17: AIR POLLUTION CONTROL (FLARES)					
DRUM, NORTH BLOWDOWN, F-7, WITH INTERNAL STEAM COIL, LENGTH 60 FT ; DIAMETER: 10 FT A/N: 406317 Permit to Construct Issued: 10/11/03	D709	D1673			E71.14
DRUM, SEAL, F-702, HEIGHT: 15 FT ; DIAMETER: 10 FT A/N: 406317 Permit to Construct Issued: 10/11/03	D1692				
System 2: SOUTH FLARE					
FLARE, ELEVATED WITH STEAM INJECTION. (SOUTH), WITH MOLECULAR GAS SEAL AND NATURAL GAS PILOT BURNER, HEIGHT: 200 FT ; DIAMETER: 12 FT A/N: 334427 Permit to Construct Issued: 01/27/98	C723				D12.10, D323.2, E193.4, H23.28, H23.32, 11.2
POT, DRAIN, F-1A, SOUTH RECOVERY SYSTEM, LENGTH: 12 FT ; DIAMETER: 4 FT A/N: 334427 Permit to Construct Issued: 01/27/98	D834				
POT, DRAIN, F-1B, SOUTH RECOVERY SYSTEM, LENGTH: 12 FT ; DIAMETER: 4 FT A/N: 334427 Permit to Construct Issued: 01/27/98	D835				
POT, LIQUID SEAL, F-55, SOUTH RECOVERY SYSTEM, LENGTH: 33 FT 4 IN. DIAMETER: 12 FT A/N: 334427 Permit to Construct Issued: 01/27/98	D836				

- (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 limit (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:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions* And Requirements	Conditions
Process 17: AIR POLLUTION CONTROL (FLARES)					
KNOCK OUT POT, F-155, SOUTH RECOVERY SYSTEM, LENGTH: 40 FT ; DIAMETER: 13 FT 6 IN A/N: 334427 Permit to Construct Issued: 01/27/98	D837				
TANK, HOLDING, F-151, VAPORSPHERE, DIAMETER: 66 FT A/N: 334427 Permit to Construct Issued: 01/27/98	D725				
KNOCK OUT POT, F-152, HEIGHT: 5 FT ; DIAMETER: 1 FT 6 IN A/N: 334427 Permit to Construct Issued: 01/27/98	D726				
POT, DRAIN, F-1, HEIGHT: 8 FT ; DIAMETER: 3 FT 6 IN A/N: 334427 Permit to Construct Issued: 01/27/98	D727				
KNOCK OUT POT, HEIGHT: 24 FT ; DIAMETER: 25 FT A/N: 334427 Permit to Construct Issued: 01/27/98	D729				
TANK, SURGE, F-154, JACKET WATER, DIAMETER: 8 IN A/N: 334427 Permit to Construct Issued: 01/27/98	D730				
COMPRESSOR, GB151, DRIVEN BY AN ICE DEVICE ID D732 A/N: 334427 Permit to Construct Issued: 01/27/98	D1554				
KNOCK OUT POT, F-156, PACKER VENT A/N: 334427 Permit to Construct Issued: 01/27/98	D734				

- * (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 limit (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:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions* And Requirements	Conditions
Process 17: AIR POLLUTION CONTROL (FLARES)					
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 334427 Permit to Construct Issued: 01/27/98	D1617				H23.2
System 5: HYDROCRACKING FLARE					
FLARE, ELEVATED WITH STEAM INJECTION. UK. NATURAL GAS, JOHN ZINK, MODEL STS-36, HEIGHT: 200 FT ; DIAMETER: 3 FT A/N: 406318 Permit to Construct Issued: 10/11/03	C748				S18.2, S18.8 D12.10, D323.2, E193.4, H23.28, H23.32, 11.2
KNOCK OUT POT, F-701. LENGTH: 32 FT ; DIAMETER: 11 FT 6 IN A/N: 406318 Permit to Construct Issued: 10/11/03	D749				
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 406318 Permit to Construct Issued: 10/11/03	D1620				
DRUM, SEAL, F-703, HEIGHT: 15 FT ; DIAMETER: 10 FT A/N: 406318 Permit to Construct Issued: 10/11/03	D1693				
System 6: VAPOR RECOVERY SYSTEM (NORTH)					
DRUM, UNIT 152 BLOWDOWN, F-6C, LIGHT HC RELIEF AND RECOVERY, LENGTH: 20 FT 3 IN; DIAMETER: 9 FT A/N: 406317 Permit to Construct Issued: 10/11/03	D710				S13.6, S15.1, S15.16, S18.2, S18.10

- * (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 limit (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:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions* And Requirements	Conditions
Process 17: AIR POLLUTION CONTROL (FLARES)					
DRUM, UNIT 152 BLOWDOWN, F-6B, LIGHT HC RELIEF AND RECOVERY, LENGTH: 20 FT ; DIAMETER 9 FT A/N: 406317 Permit to Construct Issued: 10/11/03	D711				
VESSEL, VAPORIZER, F-300, PROPANE RELIEF AND VAPORIZATION VESSEL, LENGTH: 14 FT ; DIAMETER: 6 FT A/N: 406317 Permit to Construct Issued: 10/11/03	D714				
KNOCK OUT POT, F-950, LENGTH: 9 FT ; DIAMETER: 3 FT A/N: 406317 Permit to Construct Issued: 10/11/03	D715				
VESSEL, SEPARATOR, F-954, LENGTH: 4 FT ; DIAMETER: 2 FT A/N: 406317 Permit to Construct Issued: 10/11/03	D716				
KNOCK OUT POT, F-1, PROPANE, (LPG UNLOADING FACILITY), HEIGHT: 5 FT 6 IN; DIAMETER: 2 FT A/N: 406317 Permit to Construct Issued: 10/11/03	D717				
VESSEL, UNIT 138 BLOWDOWN, F-9, HEIGHT: 14 FT ; DIAMETER: 10 FT A/N: 406317 Permit to Construct Issued: 10/11/03	D718				

* (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 limit (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.
† This permit to construct was issued to the previous operator at a prior date. The equipment was constructed and the permit was subsequently transferred to this operator.



FACILITY PERMIT TO OPERATE CONOCOPHILLIPS COMPANY

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 17: AIR POLLUTION CONTROL (FLARES)					
COMPRESSOR, TWO STAGE, GB-951, RECIPROCATING, 1991CFM, PACKED GLANDS, 350-HP. A/N: 406317 Permit to Construct Issued: 10/11/03	D719				
VESSEL, VAPORIZER, F-20, UNIT 91 PROPANE RELIEF AND VAPORIZATION, LENGTH: 14 FT ; DIAMETER: 6 FT A/N: 406317 Permit to Construct Issued: 10/11/03	D720				
VESSEL, F-231, UNIT 110 PROPANE RELIEF AND VAPORIZATION, LENGTH: 14 FT ; DIAMETER: 6 FT A/N: 406317 Permit to Construct Issued: 10/11/03	D721				
KNOCK OUT POT, F-148 A/N: 406317 Permit to Construct Issued: 10/11/03	D833				
KNOCK OUT POT, 118-V-410, LENGTH: 10 FT ; DIAMETER: 6 FT A/N: 406317 Permit to Construct Issued: 10/11/03	D1355				
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 406317 Permit to Construct Issued: 10/11/03	D1616				H23.2
Process 18: ISOMERIZATION UNIT 60					P13.2
System 1: ISOMERIZATION, PENEX PLUS UNIT 60					S4.1, S11.1, S13.6, S15.2, S15.3

* (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 limit (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.
 † This permit to construct was issued to the previous operator at a prior date. The equipment was constructed and the permit was subsequently transferred to this operator.



FACILITY PERMIT TO OPERATE CONOCOPHILLIPS COMPANY

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 18: ISOMERIZATION UNIT 60					P13.2
MIST ELIMINATOR, 60-ME-001, LUBE OIL MIST ELIMINATOR A/N: 326166 † Permit to Construct Issued: 07/24/96	D838				
ACCUMULATOR, 60-F-148, MAKE-UP GAS CHLORIDE A/N: 326166 † Permit to Construct Issued: 07/24/96	D839				
VESSEL, ZINC OXIDE TREATER, 60-F-134 A/N: 326166 † Permit to Construct Issued: 07/24/96	D840				
DRYER, MAKE UP GAS, 60-F-133A/B A/N: 326166 † Permit to Construct Issued: 07/24/96	D841				
TANK, SURGE, 60-F-130, FEED, HEIGHT: 26 FT ; DIAMETER 8 FT 6 IN A/N: 326166 † Permit to Construct Issued: 07/24/96	D842			HAP: (10) [40CFR 63 Subpart CC, #2, 6-23-2003]	
VESSEL, TREATER, 60-F-131, SULFUR GUARD, HEIGHT: 13 FT 6 IN; DIAMETER: 6 FT A/N: 326166 † Permit to Construct Issued: 07/24/96	D843				
VESSEL, 60-F-210, PROCESS WATER DEGASSING, HEIGHT: 10 FT ; DIAMETER: 4 FT 6 IN A/N: 326166 † Permit to Construct Issued: 07/24/96	D844				
REACTOR, 60-D-104, WIDTH: 36 FT 1 IN; DIAMETER: 6 FT A/N: 326166 † Permit to Construct Issued: 07/24/96	D845				

- * (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 limit (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
- † This permit to construct was issued to the previous operator at a prior date. The equipment was constructed and the permit was subsequently transferred to this operator.



FACILITY PERMIT TO OPERATE CONOCOPHILLIPS COMPANY

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 18: ISOMERIZATION UNIT 60					P13.2
VESEL, RECEIVER, 60-F-132, HEIGHT: 27 FT 6 IN; DIAMETER: 100 FT 6 IN A/N: 326166 † Permit to Construct Issued: 07/24/96	D846				
REACTOR, 60-D-110A, HEIGHT: 26 FT 10 IN; DIAMETER: 7 FT 6 IN A/N: 326166 † Permit to Construct Issued: 07/24/96	D847				
REACTOR, 60-D-110B, HEIGHT: 26 FT 10 IN; DIAMETER: 7 FT 6 IN A/N: 326166 † Permit to Construct Issued: 07/24/96	D848				
VESEL, STABILIZER, 60-D-105, HEIGHT: 34 FT ; DIAMETER: 7 FT 6 IN A/N: 326166 † Permit to Construct Issued: 07/24/96	D849				
VESEL, RECEIVER, 60-F-103, STABILIZER REFLUX, LENGTH: 20 FT ; DIAMETER: 4 FT A/N: 326166 † Permit to Construct Issued: 07/24/96	D850				
SCRUBBER, 60-D-111, NET GAS, HEIGHT: 35 FT ; DIAMETER: 7 FT A/N: 326166 † Permit to Construct Issued: 07/24/96	D851				
DRUM, 60-F-140, CAUSTIC DEGASSING, HEIGHT: 10 FT ; DIAMETER: 2 FT 6 IN A/N: 326166 † Permit to Construct Issued: 07/24/96	D852			HAP: (10) [40CFR 63 Subpart CC, #2, 6-23-2003]	

- * (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 limit (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.
- † This permit to construct was issued to the previous operator at a prior date. The equipment was constructed and the permit was subsequently transferred to this operator.



FACILITY PERMIT TO OPERATE CONOCOPHILLIPS COMPANY

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 18: ISOMERIZATION UNIT 60					P13.2
System 2: ISOMERIZATION, BUTAMER UNIT 60					S4.1, S11.1, S13.6, S15.2, S15.3
REACTOR, 60-D-302A. HEIGHT: 12 FT 6 IN; DIAMETER: 5 FT 6 IN A/N: 334038 Permit to Construct Issued: 01/27/98	D1534				
REACTOR, 60-D-302B. HEIGHT: 12 FT 6 IN; DIAMETER: 5 FT 6 IN A/N: 334038 Permit to Construct Issued: 01/27/98	D1535				
VESSEL, FEED DRYER, 60-D-301A. HEIGHT: 20 FT ; DIAMETER 5 FT A/N: 334038 Permit to Construct Issued: 01/27/98	D1536				
VESSEL, FEED DRYER, 60-D-301B. HEIGHT: 20 FT ; DIAMETER 5 FT A/N: 334038 Permit to Construct Issued: 01/27/98	D1537				
VESSEL, FEED SURGE, 60-F-301. HEIGHT: 22 FT 6 IN; DIAMETER 7 FT 6 IN A/N: 334038 Permit to Construct Issued: 01/27/98	D1538				
VESSEL, STABILIZER, 60-D-303. HEIGHT: 86 FT ; DIAMETER: 5 FT 6 IN A/N: 334038 Permit to Construct Issued: 01/27/98	D1539				
VESSEL, STABILIZER RECEIVER, 60-F-303. LENGTH: 13 FT 6 IN; DIAMETER: 4 FT 6 IN A/N: 334038 Permit to Construct Issued: 01/27/98	D1540				

- * (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 limit (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.
† This permit to construct was issued to the previous operator at a prior date. The equipment was constructed and the permit was subsequently transferred to this operator.



FACILITY PERMIT TO OPERATE CONOCOPHILLIPS COMPANY

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 18: ISOMERIZATION UNIT 60					P13.2
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 334038 Permit to Construct Issued: 01/27/98	D1622				H23.3

- * (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 limit (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.
- † This permit to construct was issued to the previous operator at a prior date. The equipment was constructed and the permit was subsequently transferred to this operator.



**FACILITY PERMIT TO OPERATE
CONOCOPHILLIPS COMPANY**

SECTION H: DEVICE ID INDEX

**The following sub-section provides an index
to the devices that make up the facility
description sorted by device ID.**



FACILITY PERMIT TO OPERATE CONOCOPHILLIPS COMPANY

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D3	3	1	1
D4	3	1	1
D5	4	1	1
D6	4	1	1
D7	4	1	1
D8	4	1	1
D11	4	1	1
D12	5	1	1
D13	5	1	1
D14	5	1	1
D15	5	1	1
D81	11	2	4
D82	10	2	4
D83	10	2	4
D84	11	2	4
D85	11	2	4
D86	10	2	4
D87	11	2	4
D88	12	2	4
D90	12	2	4
D91	12	2	4
D92	12	2	4
D93	12	2	4
D94	12	2	4
D95	12	2	4
D96	13	2	4
D97	13	2	4
D98	13	2	4
D99	13	2	4
D237	22	5	1
D267	25	6	1
D268	25	6	1



FACILITY PERMIT TO OPERATE CONOCOPHILLIPS COMPANY

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D271	25	6	1
D272	25	6	1
D273	25	6	1
D274	26	6	1
D275	26	6	1
D276	26	6	1
D277	26	6	1
D278	26	6	1
D279	26	6	1
D280	27	6	1
D281	27	6	1
D282	27	6	1
D283	27	6	1
D284	27	6	1
D285	27	6	1
D286	28	6	1
D287	28	6	1
D288	28	6	1
D289	28	6	1
D290	28	6	1
D291	28	6	1
D292	28	6	1
D293	28	6	1
D294	29	6	1
D295	29	6	1
D296	29	6	1
D298	29	6	1
D299	29	6	1
D300	29	6	1
D301	30	6	1
D302	30	6	1
D303	30	6	1



FACILITY PERMIT TO OPERATE CONOCOPHILLIPS COMPANY

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D306	30	6	1
D307	30	6	1
D308	31	6	1
D309	31	6	1
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D311	31	6	1
D312	31	6	1
D313	31	6	1
D314	31	6	1
D315	31	6	1
D316	32	6	1
D317	32	6	1
D318	32	6	1
D319	32	6	1
D320	32	6	1
D321	32	6	1
D322	32	6	1
D323	33	6	1
D324	33	6	1
D325	33	6	1
D331	33	7	1
D333	34	7	1
D334	34	7	1
D335	34	7	1
D336	34	7	1
D337	34	7	1
D338	35	7	1
D339	35	7	1
D340	35	7	1
C341	35	7	1
D342	35	7	1
D343	35	7	1



FACILITY PERMIT TO OPERATE CONOCOPHILLIPS COMPANY

SECTION H: DEVICE ID INDEX

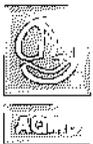
Device Index For Section H			
Device ID	Section H Page No.	Process	System
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D348	36	7	1
D349	36	7	1
D350	36	7	1
D352	38	7	3
C353	38	7	3
D354	38	7	3
D398	43	9	4
D399	43	9	4
D400	43	9	4
D401	44	9	4
D402	44	9	4
D404	44	9	4
D405	44	9	4
D406	44	9	4
D458	45	11	1
D459	45	11	1
D499	46	12	1
D500	46	12	1
D501	46	12	1
D502	46	12	1
D503	46	12	1
D504	47	12	1
D505	47	12	1
D506	47	12	1
D507	47	12	1
D508	48	12	1
D509	48	12	1
D512	48	12	1
D513	48	12	1
D514	49	12	1
D515	49	12	1
D516	49	12	1
D517	50	12	1



FACILITY PERMIT TO OPERATE CONOCOPHILLIPS COMPANY

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C522	53	12	3
C524	53	12	3
C526	54	12	3
D686	59	15	1
D701	62	16	9
C706	62	17	1
D709	63	17	1
D710	65	17	6
D711	66	17	6
D714	66	17	6
D715	66	17	6
D716	66	17	6
D717	66	17	6
D718	66	17	6
D719	67	17	6
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C723	63	17	2
D725	64	17	2
D726	64	17	2
D727	64	17	2
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D749	65	17	5
D754	16	3	3
D755	16	4	2
D756	17	4	2
D757	17	4	2
D758	17	4	2
D759	17	4	2



FACILITY PERMIT TO OPERATE CONOCOPHILLIPS COMPANY

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Device ID	Section H Page No.	Process	System
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D761	17	4	2
D764	17	4	2
D765	18	4	2
D766	18	4	2
D768	18	4	2
D769	18	4	2
D772	18	4	2
D773	18	4	2
D775	18	4	2
D776	18	4	2
D777	19	4	2
D778	19	4	2
D779	19	4	2
D780	19	4	2
D781	19	4	2
D782	19	4	2
D783	19	4	2
D784	19	4	2
D785	20	4	2
D786	20	4	2
D787	20	4	2
D789	20	4	2
D790	20	4	2
D825	54	13	4
D826	55	14	3
D828	57	14	3
D829	57	14	3
C830	58	14	4
C832	58	14	4
D833	67	17	6
D834	63	17	2
D835	63	17	2
D836	63	17	2



FACILITY PERMIT TO OPERATE CONOCOPHILLIPS COMPANY

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D837	64	17	2
D838	68	18	1
D839	68	18	1
D840	68	18	1
D841	68	18	1
D842	68	18	1
D843	68	18	1
D844	68	18	1
D845	68	18	1
D846	69	18	1
D847	69	18	1
D848	69	18	1
D849	69	18	1
D850	69	18	1
D851	69	18	1
D852	69	18	1
D1342	42	8	1
C1343	43	8	3
D1345	9	2	1
D1346	9	2	1
D1347	9	2	1
D1348	9	2	1
D1349	21	4	4
C1352	21	4	5
D1355	67	17	6
D1361	22	5	1
D1362	22	5	1
D1363	33	6	1
D1367	54	13	4
S1369	58	14	4
D1373	16	3	1
D1374	16	3	1
D1375	16	3	1
D1376	10	2	3



FACILITY PERMIT TO OPERATE CONOCOPHILLIPS COMPANY

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D1380	45	11	7
D1383	55	14	3
D1385	45	11	8
D1386	40	7	5
D1402	36	7	1
D1403	36	7	1
D1404	36	7	1
D1405	37	7	1
D1406	37	7	1
D1407	37	7	1
D1408	37	7	1
D1409	37	7	1
D1437	22	5	1
D1438	22	5	1
D1442	22	5	1
D1455	9	2	1
D1471	55	14	3
D1473	43	8	2
D1495	13	2	4
D1502	5	1	1
D1503	5	1	1
D1511	13	2	4
D1523	35	7	1
D1525	37	7	1
D1534	70	18	2
D1535	70	18	2
D1536	70	18	2
D1537	70	18	2
D1538	70	18	2
D1539	70	18	2
D1540	70	18	2
D1543	51	12	1
D1544	52	12	1



FACILITY PERMIT TO OPERATE CONOCOPHILLIPS COMPANY

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D1546	39	7	4
D1547	37	7	1
D1548	38	7	1
D1550	52	12	1
D1551	53	12	1
D1552	44	9	4
D1554	64	17	2
D1565	6	1	1
D1575	14	2	4
D1585	20	4	2
D1589	33	6	1
D1591	38	7	1
D1594	40	7	4
D1605	45	11	1
D1608	53	12	1
D1616	67	17	6
D1617	65	17	2
D1620	65	17	5
D1622	71	18	2
D1624	53	12	1
D1647	53	12	1
D1659	23	6	1
D1660	23	6	1
D1661	23	6	1
D1662	23	6	1
D1663	23	6	1
D1664	23	6	1
D1665	24	6	1
D1666	24	6	1
D1667	24	6	1
D1668	24	6	1
D1669	24	6	1
D1670	24	6	1



FACILITY PERMIT TO OPERATE CONOCOPHILLIPS COMPANY

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Device Index For Section H			
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D1673	45	11	1
D1674	5	1	1
D1675	39	7	4
D1676	39	7	4
D1677	39	7	4
C1678	40	7	7
D1679	40	7	8
D1680	40	7	8
D1681	41	7	8
D1682	41	7	8
D1688	41	7	8
D1691	5	1	1
D1692	63	17	1
D1693	65	17	5
D1701	10	2	4
D1702	10	2	4
D1703	11	2	4
D1704	11	2	4
D1705	11	2	4
D1707	41	7	8
D1708	41	7	8
D1709	41	7	8
D1711	42	7	8
D1712	42	7	8
D1713	42	7	8
D1714	42	7	8
D1715	4	1	1
D1716	4	1	1
D1717	5	1	1
D1720	14	2	9
C1722	15	2	9
D1725	20	4	2
C1735	61	16	7
C1740	6	1	3



FACILITY PERMIT TO OPERATE CONOCOPHILLIPS COMPANY

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Device Index For Section H			
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C1741	6	1	3
C1742	7	1	3
C1743	7	1	3
S1750	7	1	3
D1751	8	1	3
D1753	8	1	3
D1754	8	1	3
D1759	8	1	3
D1761	9	1	3
C1773	60	15	1
D1778	62	16	9



FACILITY PERMIT TO OPERATE CONOCOPHILLIPS COMPANY

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

FACILITY CONDITIONS

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]

F14.1 The operator shall not purchase diesel fuel containing sulfur compounds in excess of 15 ppm by weight as supplied by the supplier.

This condition shall become effective on or after June 1, 2004.

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

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]



FACILITY PERMIT TO OPERATE CONOCOPHILLIPS COMPANY

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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/Title V 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]



FACILITY PERMIT TO OPERATE CONOCOPHILLIPS COMPANY

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

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):

40CFR79

40CFR80

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

[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):

CONSENT DECREE CIVIL NO. H-05-0258. The facility shall send the District a copy of the semiannual updates sent to the EPA of the specific requirement of emission standards and limitations from the Consent Decree as well as dates of compliance for the requirements not yet fulfilled.

[CONSENT DECREE CIVIL NO. H-05-0258, 8-11-2008]

F52.3 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

[40CFR 60 Subpart A, 5-16-2007; 40CFR 61 Subpart A, 5-16-2007; 40CFR 63 Subpart A, 5-16-2007]

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.



FACILITY PERMIT TO OPERATE CONOCOPHILLIPS COMPANY

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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
VOC	District Rule	463

[RULE 463, 5-6-2005]

[Processes subject to this condition : 13]

P13.2 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

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

[Processes subject to this condition : 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 18]

SYSTEM CONDITIONS

S1.1 The operator shall limit the production rate to no more than 450 ton(s) in any one day.

For the purpose of this condition, production rate shall be defined as total daily production of sulfuric acid expressed as 100 percent H₂SO₄.

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

[RULE 1303(b)(2)-Offset, 5-10-1996]



FACILITY PERMIT TO OPERATE CONOCOPHILLIPS COMPANY

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

[Systems subject to this condition : Process 7, System 1]

S1.2 The operator shall limit the loading rate to no more than 1.3356e+06 gallon(s) per month.

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

[RULE 1303(b)(2)-Offset, 5-10-1996]

[Systems subject to this condition : Process 11, System 7]

S2.1 The operator shall limit emissions from this system as follows

CONTAMINANT	EMISSIONS LIMIT
VOC	Less than 2.5 lbs/mm scf of hydrogen produced

[RULE 1189, 1-21-2000]

[Systems subject to this condition : Process 4, System 1 , 2]

S4.1 The following condition(s) shall apply to all affected devices listed under Section H of this system for fugitive emissions of volatile organic compounds (VOC):



FACILITY PERMIT TO OPERATE CONOCOPHILLIPS COMPANY

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

All components are subject to District Rule 1173 and 40CFR60, Subpart GGG.

All new components in VOC service as defined in 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.

All new valves greater than 2-inch size and major components in VOC service as defined by Rule 1173, except those specifically exempted by Rule 1173 shall be distinctly identified from other components through their tag numbers (e.g. numbers ending in the letter "N"), and shall be noted in the records.

The operator shall provide to the District, no later than 60 days after initial startup, a plot plan or process instrumentation diagrams with a listing showing by functional grouping, location, type, accessibility, and application of each new valve in VOC service.

All new valves in VOC service except those specifically exempted by Rule 1173, shall be bellow-sealed valves for 2-inch and smaller sizes, except in the following applications: heavy liquid service, control valve, 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), and retrofits with space limitations.

All new components in VOC service, a leak greater than 500 ppm but less than 1,000 ppm measured as methane above background as measured using EPA Method 21, shall be repaired within 14 days of detection. Components shall be defined as any valve, fitting, pump, compressor, pressure relief device, diaphragm, hatch, sight-glass, and meter, which are not exempted by Rule 1173.

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 ppm for two consecutive months, then the operator shall revert to a quarterly inspection program with the approval of the executive officer. This condition shall not apply to bellow sealed valves.



FACILITY PERMIT TO OPERATE CONOCOPHILLIPS COMPANY

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

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

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

[Systems subject to this condition : Process 2, System 1, 3; Process 3, System 1, 3; Process 4, System 2; Process 5, System 1; Process 18, System 1, 2]

S4.2 The following condition(s) shall apply to all affected devices listed under Section H of this system for fugitive emissions of volatile organic compounds (VOC):

All open-ended lines shall be equipped with cap, blind flange, plug, or a second valve.

All pressure relief valves shall be connected to closed vent system or equipped with rupture disc.

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

All process drains shall be equipped with water seal, or a closed vent system and control device complying with the requirements of 40CFR60 Subpart QQQ Section 60.692-5.

[RULE 1303(a)(1)-BACT, 5-10-1996; 40CFR 60 Subpart QQQ, 10-17-2000]

[Systems subject to this condition : Process 1, System 2; Process 6, System 1]

S4.3 The following condition(s) shall apply to all affected devices listed under Section H of this system for fugitive emissions of volatile organic compounds (VOC):



FACILITY PERMIT TO OPERATE CONOCOPHILLIPS COMPANY

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

All components are subject to District Rule 1173 and 40CFR60, Subpart GGG.

All new components in VOC service as defined in 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.

All new components in VOC service, a leak greater than 500 ppm but less than 1,000 ppm measured as methane above background as measured using EPA Method 21, shall be repaired within 14 days of detection. Components shall be defined as any valve, fitting, pump, compressor, pressure relief device, diaphragm, hatch, sight-glass, and meter, which are not exempted by Rule 1173.

All new valves in VOC service shall be of 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 failures could pose safety hazards (e.g. drain valves with valve stems in horizontal position), retrofits with space limitations, and valves not commercially available.

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 ppm for two consecutive months, then the operator may revert to a quarterly inspection program with the approval of the executive officer. This condition shall not apply to leakless valves.

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

The operator shall provide to the District, no later than 90 days after initial startup, a recalculation of the fugitive emissions based on the 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 for all non-leakless type valves with a listing of tag numbers and reasons why leakless valves were not used.



FACILITY PERMIT TO OPERATE CONOCOPHILLIPS COMPANY

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

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

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

[Systems subject to this condition : Process 1, System 2]

S4.4 The following condition(s) shall apply to all affected devices listed under Section H of this system for fugitive emissions of volatile organic compounds (VOC):



FACILITY PERMIT TO OPERATE CONOCOPHILLIPS COMPANY

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

All components are subject to District Rule 1173 and 40CFR60, Subpart GGG.

All new components in VOC service as defined in 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.

All new components in VOC service, a leak greater than 500 ppm but less than 1,000 ppm measured as methane above background as measured using EPA Method 21, shall be repaired within 14 days of detection. Components shall be defined as any valve, fitting, pump, compressor, pressure relief device, diaphragm, hatch, sight-glass, and meter, which are not exempted by Rule 1173.

All new valves in VOC service shall be of 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 failures could pose safety hazards (e.g. drain valves with valve stems in horizontal position), retrofits with space limitations, and valves not commercially available.

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 ppm for two consecutive months, then the operator may revert to a quarterly inspection program with the approval of the executive officer. This condition shall not apply to leakless valves.

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

The operator shall provide to the District, no later than 90 days after initial startup, a recalculation of the fugitive emissions based on the 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 for all non-leakless type valves with a listing of tag numbers and reasons why leakless valves were not used.



FACILITY PERMIT TO OPERATE CONOCOPHILLIPS COMPANY

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

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

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

[Systems subject to this condition : Process 6, System 1]

S11.1 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 18-nov-1994 for this facility.

This condition shall only apply to equipment listed in Section H of this facility permit.

[CA PRC CEQA, 11-23-1970]

[Systems subject to this condition : Process 2, System 3, 4; Process 3, System 1, 3; Process 4, System 2, 4, 5; Process 5, System 1; Process 6, System 1; Process 8, System 3; Process 18, System 1, 2]

S13.1 All devices under this system are subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
VOC	District Rule	1176

[RULE 1176, 9-13-1996]

[Systems subject to this condition : Process 12, System 1, 3]

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

Contaminant	Rule	Rule/Subpart



FACILITY PERMIT TO OPERATE CONOCOPHILLIPS COMPANY

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

VOC	District Rule	1149
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[RULE 1149, 7-14-1995; RULE 1149, 5-2-2008]

[Systems subject to this condition : Process 13, System 4 , 6 , 7]

S13.3 All devices under this system are subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
VOC	District Rule	462

[RULE 462, 5-14-1999]

[Systems subject to this condition : Process 11, System 4 , 6]

S13.4 All devices under this system are subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
VOC	District Rule	461

[RULE 461, 6-3-2005; RULE 461, 3-7-2008]

[Systems subject to this condition : Process 16, System 5]

S13.5 All devices under this system are subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
VOC	District Rule	1189

[RULE 1189, 1-21-2000]

[Systems subject to this condition : Process 4, System 1 , 2]



**FACILITY PERMIT TO OPERATE
CONOCOPHILLIPS COMPANY**

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

S13.6 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, 12-7-1990]

[Systems subject to this condition : Process 1, System 2; Process 2, System 1, 2, 3, 4, 5; Process 3, System 1, 3; Process 4, System 1, 2; Process 5, System 1; Process 6, System 1; Process 8, System 1; Process 9, System 3, 4, 5, 6; Process 10, System 1, 2, 4, 5; Process 17, System 6, 7; Process 18, System 1, 2]

S13.8 All devices under this system are subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
VOC	District Rule	463
VOC	District Rule	1178
VOC	District Rule	1149

For Rule 463 applicability, only subdivision (d) in the March 11, 1994 amendment, or equivalent requirements in the future amendments, shall apply to domed external floating roof tanks. This does not preclude any requirements specified in Rule 1178.

[RULE 1149, 7-14-1995; RULE 1149, 5-2-2008; RULE 1178, 4-7-2006; RULE 463, 5-6-2005]

[Systems subject to this condition : Process 13, System 3, 8]

S13.9 All devices under this system are subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart



FACILITY PERMIT TO OPERATE CONOCOPHILLIPS COMPANY

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

VOC | District Rule | 1178

[RULE 1178, 4-7-2006]

[Systems subject to this condition : Process 13, System 1 , 2]

S13.10 All devices under this system are subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
VOC	40CFR60, SUBPART	QQQ

[40CFR 60 Subpart QQQ, 10-17-2000]

[Systems subject to this condition : Process 2, System 4; Process 12, System 1]

S13.11 All devices under this system are subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
Sulfur compounds	District Rule	407
Sulfuric Acid Mist	District Rule	469

[RULE 407, 4-2-1982; RULE 469, 5-7-1976; RULE 469, 2-13-1981]

[Systems subject to this condition : Process 7, System 4 , 8]

S15.1 The vent gases from all affected devices of this process/system shall be vented as follows:

All vent gases shall be directed to the Deethanizers Device ID D1671 and D1672 in the FCCU Fractionation CLEF unit (Process 1, System 2).

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



FACILITY PERMIT TO OPERATE CONOCOPHILLIPS COMPANY

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

[Systems subject to this condition : Process 17, System 6]

S15.2 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 vapor recovery system or/and blowdown flare system except Devices IDs D1, D7, D210, D213, D214, D219, D644, D645, D646, D773, D775 TO D785, D1367, D1370, D1673 that vent to the atmosphere and Device ID D772 that normally vents to heater D1349 when hydrogen is being produced and vents to atmosphere when hydrogen is not produced.

This process/system shall not be operated unless the above air pollution control equipment is in full use and has a valid permit to receive vent gases from this system.

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

[Systems subject to this condition : Process 1, System 1, 2; Process 2, System 1, 2, 3, 4, 5; Process 3, System 1, 3; Process 4, System 1, 2; Process 5, System 1; Process 6, System 1; Process 8, System 1, 2; Process 11, System 1; Process 13, System 4, 6; Process 18, System 1, 2]

S15.3 The vent gases from all affected devices of this process/system shall be vented as follows:

All sour gases under normal operating conditions shall be directed to the fuel gas treating unit.

This process/system shall not be operated unless the fuel gas treating unit is in full use and has a valid permit to receive vent gases from this system.

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

[Systems subject to this condition : Process 1, System 1, 2; Process 2, System 1, 5; Process 3, System 1, 3; Process 4, System 1, 2; Process 6, System 1; Process 8, System 1, 2; Process 18, System 1, 2]



FACILITY PERMIT TO OPERATE CONOCOPHILLIPS COMPANY

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

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

All vent gases shall be directed to a blowdown flare system(s).

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

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

[Systems subject to this condition : Process 11, System 6]

S15.6 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 a flare gas recovery system.

This process/system shall not be operated unless the above air pollution control equipment is in full use and has a valid permit to receive vent gases from this system.

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

[Systems subject to this condition : Process 11, System 1; Process 13, System 4 , 6]

S15.7 The vent gases from all affected devices of this process/system shall be vented as follows:

All vent gases shall be vented to the LPG flare except Device IDs D661 and D662 that vent emergency vent gases to the atmosphere.

This process/system shall not be operated unless the above air pollution control equipment is in full use and has a valid permit to receive vent gases from this system.

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



FACILITY PERMIT TO OPERATE CONOCOPHILLIPS COMPANY

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

[Systems subject to this condition : Process 13, System 7]

S15.8 The vent gases from all affected devices of this process/system shall be vented as follows:

All sour gases under normal operating conditions shall be directed to the fuel gas treating unit (Process 9, System 3), or the absorber/scrubber located in Diesel Hydrotreating Unit (Process 2, System 4), or Hydrogen Generation Unit (Process 4, System 1).

This process/system shall not be operated unless the above fuel gas treating unit/absorber/scrubber is in full use and has a valid permit to receive vent gases from this system.

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

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

S15.9 The vent gases from all affected devices of this process/system shall be vented as follows:

All sour gases under normal operating conditions shall be directed to the absorber located in the hydrogen generation unit (Process 4, System 1) or the fuel gas treating unit (Process 9, System 3).

This process/system shall not be operated unless the absorber/fuel gas treating unit is in full use and has a valid permit to receive vent gases from this system.

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

[Systems subject to this condition : Process 2, System 2; Process 5, System 1]

S15.10 The vent gases from all affected devices of this process/system shall be vented as follows:



FACILITY PERMIT TO OPERATE CONOCOPHILLIPS COMPANY

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

All sour gases under normal operating conditions shall be directed to the absorber located in this system, the absorber located in the hydrogen production unit (Process 4, System 1), or the fuel gas treating unit (Process 9, System 3).

This process/system shall not be operated unless the absorber/fuel gas treating unit is in full use and has a valid permit to receive vent gases from this system.

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

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

S15.11 The vent gases from all affected devices of this process/system shall be vented as follows:

All acid gases under normal operating conditions shall be directed to the sulfur recovery unit(s) or sulfuric acid production unit.

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

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

[Systems subject to this condition : Process 9, System 4]

S15.13 The vent gases from all affected devices of this process/system shall be vented as follows:

All acid gases under normal operating conditions shall be directed to the sulfur recovery unit(s).

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

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

[Systems subject to this condition : Process 9, System 5 , 6; Process 10, System 2 , 5]



FACILITY PERMIT TO OPERATE CONOCOPHILLIPS COMPANY

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

S15.14 The vent gases from all affected devices of this process/system shall be vented as follows:

All vent gases shall be directed to the CANSOLV SOX Scrubbing (Process 7, Sytem 3).

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

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

[Systems subject to this condition : Process 7, System 1]

S15.15 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 tail gas treating system.

This process/system shall not be operated unless the above tail gas treating system is in full use and has a valid permit to receive vent gases from this system.

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

[Systems subject to this condition : Process 10, System 1 , 4]

S15.16 The vent gases from all affected devices of this process/system shall be vented as follows:

All emergency vent gases shall be directed to the blowdown flare system.

This process/system shall not be operated unless the above air pollution control equipment is in full use and has a valid permit to receive vent gases from this system.

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

[Systems subject to this condition : Process 9, System 3 , 4 , 5 , 6; Process 10, System 1 , 2 , 4 , 5; Process 17, System 6 , 7]



FACILITY PERMIT TO OPERATE CONOCOPHILLIPS COMPANY

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

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:

Amine Stripping Unit 138 (Process: 9, System: 4)

Sour Water Stripping (Process: 9, System: 5 & 6)

Tail Gas Units (Process: 10, System: 2 & 5)

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

[Systems subject to this condition : Process 10, System 1 , 4]

S18.2 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:

FCCU (Process: 1, System: 1 & 2)

Hydrotreating (Process: 2, System: 1, 2, 3, 4 & 5)

Catalytic Reforming (Process: 3, System: 1 & 3)

Hydrogen Production (Process: 4, System: 1 & 2)

Hydrocracking (Process: 5, System: 1)

Alkylation (Process: 6, System: 1)

Blending (Process: 8, System: 1 & 2)

Butane Loading/Unloading (Process: 11, System: 1)

Butane Storage Tanks (Process: 13, System: 6)

Isomerization (Process: 18, System: 1 & 2)



FACILITY PERMIT TO OPERATE CONOCOPHILLIPS COMPANY

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

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

[Systems subject to this condition : Process 17, System 1 , 2 , 5 , 6 , 7]

- S18.3 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:

Butane Storage Tanks (Process: 13, System: 7)

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

[Systems subject to this condition : Process 17, System 4]

- S18.4 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:

FCCU (Process: 1, System: 1 & 2)

Hydrotreating (Process: 2, System: 1, 2, 3, 4 & 5)

Catalytic Reforming (Process: 3, System: 1 & 3)

Hydrogen Production (Process: 4, System: 1 & 2)

Alkylation (Process: 6, System: 1)

Blending (Process: 8, System: 1 & 2)

Isomerization (Process: 18, System: 1 & 2)

Hydrocracking (Process: 5, System: 1)

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



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

[Systems subject to this condition : Process 9, System 3]

- S18.6 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:

Amine Stripping Unit 138 (Process: 9, System: 4)

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

[Systems subject to this condition : Process 7, System 1; Process 10, System 1 , 4]

- S18.7 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:

Contact H2SO4 Production Plant (Process: 7, System: 1)

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

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

- S18.8 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:

Treating/Stripping (Process: 9, System: 3, 4, 5 & 6)

Sulfur Recovery Plant (Process: 10, System: 1, 2, 4, & 5)

Vapor Recovery System (Process: 17, System: 6 & 7)

Loading/Unloading (Process: 11, System: 6)

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



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

[Systems subject to this condition : Process 17, System 1 , 2 , 5]

- S18.9 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:

Sulfur Recovery Plants (Process: 10, System: 1 & 4)

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

[Systems subject to this condition : Process 10, System 2 , 5]

- S18.10 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:

Butane Loading/Unloading (Process: 11, System: 1)

Pressurized Storage Tanks (Process: 13, System: 4 & 6)

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

[Systems subject to this condition : Process 17, System 6 , 7]

- S31.1 The following BACT requirements shall apply to VOC service fugitive components associated with the devices that are covered by application number(s) 423384:



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

All open-ended lines shall be equipped with cap, blind flange, plug, or a second valve.

All pressure relief valves shall be connected to closed vent system or equipped with rupture disc.

All process drains shall be equipped with water seal, or a closed vent system and control device complying with the requirements of 40CFR60 Subpart QQQ Section 60.692-5.

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

All components are subject to District Rule 1173 and 40CFR60, Subpart GGG.

All new components in VOC service as defined in 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.

All new components in VOC service, a leak greater than 500 ppm but less than 1,000 ppm measured as methane above background as measured using EPA Method 21, shall be repaired within 14 days of detection. Components shall be defined as any valve, fitting, pump, compressor, pressure relief device, diaphragm, hatch, sight-glass, and meter, which are not exempted by Rule 1173.

All new valves in VOC service shall be of 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 failures could pose safety hazards (e.g. drain valves with valve stems in horizontal position), retrofits with space limitations, and valves not commercially available.

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

The operator shall provide to the District, no later than 90 days after initial startup, a recalculation of the fugitive emissions based on the 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 for all non-leakless type valves with a listing of tag numbers and reasons why leakless valves were not used.

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

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

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

S42.1 The operator shall not operate the FCCU unless, by November 30, 2008, the operator complies the requirements of the following rule:

Contaminant	Rule	Rule/Subpart
PM10	District Rule	1105.1
NH3	District Rule	1105.1



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

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).

1. Modification of the Third Stage Separator and Installation of the Fourth Stage Separator.

a. Submit complete applications to AQMD to replace the existing third stage separator and to install the fourth stage separator no later than August 15, 2004.

b. Submit a source test plan within 30 days of approval of the extension request to determine particulate concentration and mass emissions at the inlet and outlet of the existing third stage separator. Perform the test and report the results to the AQMD within 60 days after the completion of the test along with the following operating parameters at the time of the source test: FCCU throughput (operate at least at 80% of maximum capacity during the test), catalyst feed rate, coke burn-off rate.

c. Begin fabrication of the third and fourth stage separators no later than April 1, 2005.

d. Complete construction and begin operation no later than January 1, 2006. Conduct source tests to determine particulate concentration and mass emissions at the inlet and outlet of each separator (third and fourth stage) and report the results to the AQMD by April 30, 2006 along with the following operating parameters at the time of the source tests: FCCU throughput (operate at least at 80% of maximum capacity during the test), catalyst feed rate, coke burn-off rate.

2. Select an air pollution control technology for compliance with the emission limits in Rule 1105.1(d)(1) and submit a letter to the AQMD specifying the control technology selected by May 31, 2006.

3. Award contract(s) to design the control technology selected for compliance with Rule 1105.1(d)(1) by July 1, 2006. Award contract(s) to construct and install the control technology by May 1, 2007.



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

4. Submit information necessary for the preparation of the California Environmental Quality Act (CEQA) documents for equipment installation and/or modification for 1105.1(d)(1) compliance, by August 1, 2006.

5. Submit a complete application(s) for a permit(s) to construct the control technology selected for compliance with Rule 1105.1(d)(1) by September 1, 2006.

6. Begin construction of the control technology permitted by AQMD for compliance with Rule 1105.1(d)(1) by the later of July 1, 2007, or within 30 days of receiving permit(s). These dates may be extended in writing by the Executive Officer upon a request by ConocoPhillips if the CEQA document is not finalized by May 1, 2007. Such extension(s) shall not be for a period more than five months after the original deadline listed in this paragraph.

7. Start operation of the control technology permitted to ensure compliance with Rule 1105.1(d)(1) by October 15, 2008.

8. Comply with all Rule 1105.1(d)(1) requirements no later than November 30, 2008.

[RULE 1105.1, 11-7-2003]

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

S42.2 The operator shall only use the following catalyst emission control and process optimization additives in this process system:

MANUFACTURER	PRODUCT
Albemarle	ELIMINOx
Albemarle	KDNOx
Englehard	CLEANOx
Grace-Davison	CP-5
Grace-Davison	DENOX



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

Grace-Davison	OlefinsMax
Grace-Davison	OlefinsUltra
Grace-Davison	Super DESOX
Grace-Davison	XNOx
Intercat	COP-550
Intercat	NOXGETTER
Intercat	Super SOXGETTER
Intercat	CATNA482

[RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002; RULE 1401, 3-7-2008]

[Systems subject to this condition : Process 1, System 6]

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 (O2 Content)	Compliance Verification Method
NH3	(4)- BACT	1 hour (3 percent oxygen)	Source Test

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

[Devices subject to this condition : C1773]

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



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

CONTAMINANT	EMISSIONS LIMIT
CO	Less than or equal to 248 LBS IN ANY ONE DAY
PM10	Less than or equal to 166 LBS IN ANY ONE DAY
ROG	Less than or equal to 110 LBS IN ANY ONE DAY

The operator shall calculate the emission limit(s) using daily fuel usage data in MMSCF/hr, and the emission factors in lbs/MMscf of fuel usage derived from the latest source test results on this equipment.

For the purposes of this condition, Fuel usage shall be defined as the fuel used to operate the burners..

To comply with this condition, the operator shall use the following equation for each pollutant to determine daily emissions: Pollutant (lbs/day) = Fuel usage (mmscf/hr) x pollutant emission factor (lbs/MMscf) x 24

[RULE 1303(b)(2)-Offset, 5-10-1996]

[Devices subject to this condition : D1349]

A63.2 The operator shall limit emissions from this equipment as follows:

CONTAMINANT	EMISSIONS LIMIT
CO	Less than or equal to 401 LBS IN ANY ONE DAY
PM10	Less than or equal to 269 LBS IN ANY ONE DAY
PM	Less than or equal to 269 LBS IN ANY ONE DAY
ROG	Less than or equal to 166 LBS IN ANY ONE DAY

For the purposes of this condition, the limit(s) shall be based on the total combined emissions from Turbine Device D828 & Boiler Device D829.

[RULE 1303(b)(2)-Offset, 5-10-1996]



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

[Devices subject to this condition : D828, D829]

A63.5 The operator shall limit emissions from this equipment as follows:

CONTAMINANT	EMISSIONS LIMIT
Benzene	Less than or equal to 7.96 LBS IN ANY ONE YEAR
MTBE	Less than or equal to 53.38 LBS IN ANY ONE YEAR

To comply with this condition, the operator shall determine benzene and MTBE emissions on a quarterly basis using results from grab sample and total blower extraction volume for the quarter.

The sum of the benzene emissions for the year shall not exceed limit.

The sum of the MTBE emissions for the year shall not exceed limit.

[RULE 1401, 3-7-2008]

[Devices subject to this condition : C1735]

A99.1 The 9 PPM NOX emission limit(s) shall not apply when the equipment is in startup, shutdown, or on-line fuel transfer periods (for NOx).

[RULE 2005, 5-6-2005]

[Devices subject to this condition : D828]

A99.2 The 10 PPM CO emission limit(s) shall not apply when the equipment is in startup, shutdown, or on-line fuel transfer periods (for CO).

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

[Devices subject to this condition : D828]



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

A99.3 The 5 PPM NOX emission limit(s) shall not apply when this equipment is startup, shutdown, during the refractory dryout period, or when the heater exhaust temperature is below 500 degrees F.

[RULE 2005, 5-6-2005]

[Devices subject to this condition : D1720]

A99.4 The 10 PPM CO emission limit(s) shall not apply when this equipment is startup, shutdown, or during the refractory dryout period.

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

[Devices subject to this condition : D1720]

A195.1 The 7 PPM NOX emission limit(s) is averaged over 15 minutes.

[RULE 2005, 5-6-2005]

[Devices subject to this condition : D1349]

A195.2 The 104 PPM NOX emission limit(s) is averaged over 15 minutes for NOx when the gas turbine is fired with natural gas during startup, shutdown, or on-line fuel transfer periods, dry uncorrected.

[RULE 2005, 5-6-2005]

[Devices subject to this condition : D828]

A195.3 The 165 PPM NOX emission limit(s) is averaged over 15 minutes for NOx when the gas turbine is fired with butane during startup, shutdown, or on-line fuel transfer periods, dry uncorrected.

[RULE 2005, 5-6-2005]

[Devices subject to this condition : D828]



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

A195.4 The 5 PPMV NOX emission limit(s) is averaged over 60 minutes.

[RULE 2005, 5-6-2005]

[Devices subject to this condition : D1720]

A195.5 The 10 PPMV CO emission limit(s) is averaged over 60 minutes.

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

[Devices subject to this condition : D1720]

A195.6 The 5 PPMV NH3 emission limit(s) is averaged over 60 minutes.

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

[Devices subject to this condition : C1722]

A195.7 The 20 PPMV NOX emission limit(s) is averaged over 365 rolling days at 0% O2, dry basis.

The 20 ppmv NOx emission limit shall become effective on March 1, 2011.

[CONSENT DECREE CIVIL NO. H-05-0258, 8-11-2008]

[Devices subject to this condition : D1]

A195.8 The 40 PPMV NOX emission limit(s) is averaged over 7 rolling days at 0% O2, dry basis.



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

The 40 ppmv NOx emission limit shall become effective on March 1, 2011.

NOx emissions during period of Startup, Shutdown, or Malfunction shall not be used in determining compliance with this emissions limit, provided that during such periods the operator implements good air pollution control practices to minimize NOx emissions.

[CONSENT DECREE CIVIL NO. H-05-0258, 8-11-2008]

[Devices subject to this condition : D1]

A195.9 The 50 PPMV SO2 emission limit(s) is averaged over 7 rolling days at 0% O2, dry basis.

The 50 ppmv SO2 emission limit shall become effective on March 1, 2011.

SO2 emissions during period of Startup, Shutdown, or Malfunction shall not be used in determining compliance with this emissions limit, provided that during such periods the operator implements good air pollution control practices to minimize SO2 emissions.

[CONSENT DECREE CIVIL NO. H-05-0258, 8-11-2008]

[Devices subject to this condition : D1]

A195.10 The 25 PPMV SO2 emission limit(s) is averaged over 365 rolling days at 0% O2, dry basis..

The 25 ppmv SO2 emission limit shall become effective on March 1, 2011.

[CONSENT DECREE CIVIL NO. H-05-0258, 8-11-2008]

[Devices subject to this condition : D1]

A195.11 The 500 PPMV CO emission limit(s) is averaged over 1 hour at 0% O2, dry basis.



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

CO emissions during period of Startup, Shutdown, or Malfunction shall not be used in determining compliance with this emissions limit, provided that during such periods the operator implements good air pollution control practices to minimize CO emissions.

[CONSENT DECREE CIVIL NO. H-05-0258, 8-11-2008]

[Devices subject to this condition : D1]

A195.12 The 500 PPMV CO emission limit(s) is averaged over 1 hour as measured (no O₂ correction) on a dry basis.

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

[Devices subject to this condition : D1]

A195.13 The 0.5 LBS/1000 LBS OF COKE BURNED PM emission limit(s) is averaged over 3 hours.

The PM emission limit shall become effective on December 31, 2008.

PM emissions during period of Startup, Shutdown, or Malfunction shall not be used in determining compliance with this emissions limit, provided that during such periods the operator implements good air pollution control practices to minimize PM emissions.

[CONSENT DECREE CIVIL NO. H-05-0258, 8-11-2008]

[Devices subject to this condition : D1]

A195.14 The 32 PPMV NO_x emission limit(s) is averaged over 60 minutes.

NO_x concentration is 32 ppmv corrected to 3% O₂, dry basis.

Notwithstanding the requirements of Section E conditions, a source test shall be performed once every five years to demonstrate compliance with this limit.



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

[RULE 2005, 5-6-2005]

[Devices subject to this condition : C1735]

A195.15 The 200 PPMV CO emission limit(s) is averaged over 60 minutes.

CO concentration is 32 ppmv corrected to 3% O₂, dry basis.

Notwithstanding the requirements of Section E conditions, a source test shall be performed once every five years to demonstrate compliance with this limit.

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

[Devices subject to this condition : C1735]

A229.1 The 30 Percent Opacity emission limit is measured by a continuous opacity monitor. However, it is allowed to exceed the limit for one six-minute average opacity reading in any one hour period.

The operator shall install and maintain a(n) continuous opacity monitor to accurately indicate the opacity of the exhaust

For the purpose of this condition, a continuous opacity monitor shall be either 1) a continuous monitoring system or 2) a monitoring method pursuant to the USEPA-approved alternative monitoring plan (AMP) dated July 14, 2008. A copy of such approved AMP shall be forwarded to the Executive Officer or designee.

The operator shall install the continuous opacity monitor by the allotted time in NSPS Subpart A 40CFR60.13.

[40CFR 60 Subpart J, 6-24-2008; CONSENT DECREE CIVIL NO. H-05-0258, 8-11-2008]

[Devices subject to this condition : D1]



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

A305.2 Whenever this equipment is in operation, the flue gas recirculation may be operated at any control efficiency provided that the emission concentrations being monitored by the certified CEMS serving this equipment is below the valid upper range specified in the approved CEMS plan.

[RULE 2005, 5-6-2005]

[Devices subject to this condition : D686]

A305.3 Whenever this equipment is in operation, the selective catalytic reduction (SCR) may be operated at any control efficiency provided that the emission concentrations being monitored by the certified CEMS serving this equipment is below the valid upper range specified in the approved CEMS plan.

[RULE 2012, 5-6-2005]

[Devices subject to this condition : D686]

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 : D829]

A327.2 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 : D828]

B. Material/Fuel Type Limits

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



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

Compound	ppm by volume
Sulfur less than	100

[RULE 2005, 5-6-2005]

[Devices subject to this condition : D1349]

B61.3 The operator shall only use fuel gas containing the following specified compounds:

Compound	ppm by volume
total sulfur compounds calculated as H2S less than or equal to	95

[RULE 2005, 5-6-2005]

[Devices subject to this condition : D828, D829]

B61.4 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; CONSENT DECREE CIVIL NO. H-05-0258,
8-11-2008]

[Devices subject to this condition : D686]

B61.6 The operator shall only use fuel gas containing the following specified compounds:



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

Compound	ppm by volume
Total sulfur compounds calculated as H ₂ S less than or equal to	40

The 40 ppm limit is averaged over four hours

The total sulfur content of the fuel burned in this heater shall be determined by calculation using the "FuelSulfur" equation in the latest version of the facility "Software Design Description (SDD)" plus 4% using Sox emissions monitored by the CEMS required by "Section F: RECLAIM Monitoring and Source Testing Requirements".

[RULE 2005, 5-6-2005]

[Devices subject to this condition : D1720]

B61.7 The operator shall not use aqueous ammonia containing the following specified compounds:

Compound	weight percent
ammonia greater than	30

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

[Devices subject to this condition : C1722]

B61.8 The operator shall not use aqueous ammonia containing the following specified compounds:

Compound	weight percent
Ammonia greater than	19

[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 : C1773]

B163.1 The operator shall only use this equipment subject to restrictions containing the following:

An identification tag or nameplate shall be displayed on the equipment to show manufacturer model and/or serial numbers. The tag(s) or plate(s) shall be issued by the manufacturer, and shall be affixed to the equipment in a permanent and conspicuous position.

The catalyst in the oxidizer (when operating in catalytic mode) shall be maintained in good working condition. The operator shall maintain records of catalyst cleaning periods and replacement frequency.

[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 1401, 3-7-2008]

[Devices subject to this condition : C1735]

C. Throughput or Operating Parameter Limits

C1.5 The operator shall limit the number of turnovers to no more than 20 in any one year.

[RULE 1303(b)(2)-Offset, 5-10-1996]

[Devices subject to this condition : D1378]

C1.9 The operator shall limit the firing rate to no more than 646.3 MM Btu per hour.

[RULE 1303(b)(2)-Offset, 5-10-1996]

[Devices subject to this condition : D828]



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

C1.10 The operator shall limit the firing rate to no more than 99 MM Btu per hour.

[RULE 1303(b)(2)-Offset, 5-10-1996]

[Devices subject to this condition : D829]

C1.15 The operator shall limit the number of turnovers to no more than 5 in any one year.

[RULE 1301, 12-7-1995]

[Devices subject to this condition : D825]

C1.17 The operator shall limit the number of turnovers to no more than 31 in any one year.

This limit shall be based on the total combined limit for equipment listed under Devices D1378 (Mixed Pentanes Storage Tank 466) and D665 (Organic Liquid Storage Tank 304) during Tank 304 shutdown for maintenance. The limit of 20 turnovers from Tank 466 shall not be applied during Tank 304 shutdown for maintenance.

[RULE 1303(b)(2)-Offset, 5-10-1996]

[Devices subject to this condition : D1378]

C1.26 The operator shall limit the firing rate to no more than 34 MM Btu per hour.

To comply with this condition, the operator shall monitor and record the fuel rate and the fuel high heating value for the refinery fuel gas/natural gas. Such records shall be made available to District personnel upon request.

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

[Devices subject to this condition : D1720]



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

- C1.52 The operator shall limit the unloading rate to no more than 360000 barrel(s) in any one month.

This limit shall be based on the total combined limit for equipment D458.

[RULE 1303(b)(2)-Offset, 5-10-1996]

[Devices subject to this condition : D458]

- C1.53 The operator shall limit the loading rate to no more than 165000 barrel(s) in any one month.

This limit shall be based on the total combined limit for equipment D459.

[RULE 1303(b)(2)-Offset, 5-10-1996]

[Devices subject to this condition : D459]

- C1.54 The operator shall limit the throughput to no more than 300000 barrel(s) in any one month.

[RULE 1303(b)(2)-Offset, 5-10-1996]

[Devices subject to this condition : D1367]

- C1.55 The operator shall limit the loading rate to no more than 360000 barrel(s) in any one month.

This limit shall be based on the total combined limit for equipment D458.

[RULE 1303(b)(2)-Offset, 5-10-1996]

[Devices subject to this condition : D458]

- C1.56 The operator shall limit the unloading rate to no more than 165000 barrel(s) in any one month.



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

This limit shall be based on the total combined limit for equipment D459.

[RULE 1303(b)(2)-Offset, 5-10-1996]

[Devices subject to this condition : D459]

C1.62 The operator shall limit the firing rate to no more than 304 MM Btu per hour.

To comply with this condition, the operator shall monitor and record the fuel rate and the high heating value. Such records shall be available to the District personnel upon request.

[RULE 1303(b)(2)-Offset, 5-10-1996]

[Devices subject to this condition : D686]

C1.64 The operator shall limit the throughput to no more than 31800 barrel(s) in any one month.

To comply with this condition, the operator shall monitor and record the liquid outage daily. Such records shall be maintained for at two years and made available to the District personnel upon request.

[RULE 1303(b)(2)-Offset, 5-10-1996]

[Devices subject to this condition : D1386]

C1.80 The operator shall limit the throughput to no more than 55,000 barrel(s) in any one day.

For the purpose of this condition, throughput shall be defined as FCCU feed rate.

The operator shall properly maintain and operate the existing throughput measuring and recording device to show compliance with this limit.

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



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

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

[Devices subject to this condition : D7]

C1.81 The operator shall limit the loading rate to no more than 500 cubic feet per minute.

For the purpose of this condition, loading rate shall be defined as the total waste gas flow rate at the inlet of this oxidizer.

To comply with this condition, the operator shall install and maintain a(n) flow meter to accurately indicate the flow rate at the inlet to the oxidizer.

The operator shall measure the flow rate in standard cubic feet per minute (SCFM).

If a pressure sensing device is used instead of the flow meter, a conversion chart shall be made available to indicate the flow rate (in SCFM) corresponding to the pressure reading.

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

[Devices subject to this condition : C1735]

C6.2 The operator shall use this equipment in such a manner that the pressure being monitored, as indicated below, does not exceed 4.3 inches water column.

To comply with this condition, the operator shall install and maintain a(n) pressure gauge to accurately indicate the pressure of the closed vent system connecting this equipment to the carbon adsorption system.

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

[Devices subject to this condition : D518, D1543, D1544, D1551, D1624]

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 25 gpm.



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

To comply with this condition, the operator shall install and maintain a(n) flow meter to accurately indicate the flow rate of the scrubbing solution.

The operator shall determine and record the parameter being monitored once every day.

The measuring device or gauge shall be accurate to within 0.5 gpm. It shall be calibrated once every 12 months.

The operator shall maintain records of caustic flow rate and meter calibrations for at least three years and make available to District personnel upon request.

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

[Devices subject to this condition : C1545]

C8.5 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.

This condition shall only apply when the oxidizer is operating in the thermal mode..

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

A temperature sensor, accurate to 20 degrees Fahrenheit, shall be installed and maintained at the exhaust stack of this equipment. The sensor shall be mounted at least 0.3 seconds downstream of the flame zone. A temperature indicator and a strip chart recorder or electronic data logger shall be used to display and record the above temperature whenever this equipment is in operation.

The operator shall automatically regulate the temperature by a fully modulated control system.

[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 1401, 3-7-2008; RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997]



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

[Devices subject to this condition : C1735]

- C8.6 The operator shall use this equipment in such a manner that the temperature being monitored, as indicated below, is not less than 650 Deg F.

This condition shall only apply when the oxidizer is operating in the catalytic mode..

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

A temperature sensor, accurate to 20 degrees Fahrenheit, shall be installed and maintained at the exhaust stack of this equipment. The sensor shall be mounted at least 0.3 seconds downstream of the flame zone. A temperature indicator and a strip chart recorder or electronic data logger shall be used to display and record the above temperature whenever this equipment is in operation.

The operator shall automatically regulate the temperature by a fully modulated control system.

[**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 1401, 3-7-2008; RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997**]

[Devices subject to this condition : C1735]

- C12.2 The operator shall use this equipment in such a manner that the the minimum number of stages in operation and the average daily secondary voltage and secondary current (or total power input) being monitored as indicated below are greater than or equal to one WESP stage in operation and the total power input value (or total current and total voltage) in the most recent source test which demonstrated compliance with the emission limits.



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

The operator shall install and maintain a continuous monitoring and recording system to accurately measure and record the:

1. voltage
2. current

at each WESP field. In addition, the operator shall keep records, in a manner approved by the District, for each of these parameters.

If the daily average WESP total power input falls below the level measured in the most recent source test which demonstrated compliance with the emission limit, a new source test shall be performed within 90 days at the new minimum daily average WESP total power level. The source test shall be performed according to the requirements specified in Permit Condition D29.3

[**RULE 1105.1, 11-7-2003; RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 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; 40CFR 60 Subpart J, 6-24-2008**]

[Devices subject to this condition : C1742, C1743]

- C12.3 The operator shall use this equipment in such a manner that the minimum ratio of WGS scrubbing solution flow rate to flue gas flow rate being monitored as indicated below is greater than or equal to the ratio in the most recent source test which demonstrated compliance with the emission limits.



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

The operator shall install and maintain a continuous monitoring and recording system to accurately measure and record the:

1. flue gas flow rate
2. WGS scrubbing solution flow rate

at each venturi scrubber or at the manifold inlet to all scrubbers only if the respective flows are divided equally to each scrubber. In addition, the operator shall keep records, in a manner approved by the District, for each of these parameters.

If the ratio of WGS scrubbing solution flow rate to flue gas flow rate falls below the level measured in the most recent source test which demonstrated compliance with the emission limit, a new source test shall be performed within 90 days at the new minimum ratio level. The source test shall be performed according to the requirements specified in Permit Condition D29.3

The operator shall also comply with the approved EPA alternative monitoring plan (AMP) dated July 14, 2008.

[RULE 1105.1, 11-7-2003; RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 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; 40CFR 60 Subpart J, 6-24-2008]

[Devices subject to this condition : C1740]

D. Monitoring/Testing Requirements

D12.1 The operator shall install and maintain a(n) temperature reading device to accurately indicate the temperature at the SCR inlet.

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



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

[Devices subject to this condition : C830, C1352]

- D12.4 The operator shall install and maintain a(n) measuring device to accurately indicate the steam-to-fuel ratio in the gas turbine combustion chamber.

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

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

[Devices subject to this condition : D828]

- D12.5 The operator shall install and maintain a(n) continuous monitoring system to accurately indicate the ammonia-to-emitted-NOx mole ratio at the inlet of the SCR.

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

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

[Devices subject to this condition : C830, C1722, C1773]

- D12.6 The operator shall install and maintain a(n) flow meter to accurately indicate the fuel usage of the gas turbine in SCFH.

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

[RULE 1303(b)(2)-Offset, 5-10-1996]

[Devices subject to this condition : D828]

- D12.7 The operator shall install and maintain a(n) flow meter to accurately indicate the fuel usage of the duct burner in SCFH.

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

[RULE 1303(b)(2)-Offset, 5-10-1996]



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

[Devices subject to this condition : D829]

- D12.8 The operator shall install and maintain a(n) flow meter to accurately indicate the fuel usage at the fuel supply line.

[RULE 1301(b)(1), 12-7-1995]

[Devices subject to this condition : D732]

- D12.10 The operator shall install and maintain a(n) thermocouple to accurately indicate the presence of a flame at the pilot light.

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

[RULE 1118, 11-4-2005; RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997; 40CFR 60 Subpart A, 5-16-2007]

[Devices subject to this condition : C706, C723, C748]

- D12.15 The operator shall install and maintain a(n) continuous monitoring system to accurately indicate the flue gas flow in the flue gas recirculation line.

[RULE 2012, 5-6-2005]

[Devices subject to this condition : D686]

- D12.16 The operator shall install and maintain a(n) temperature reading device to accurately indicate the temperature at the SCR inlet.

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

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

[Devices subject to this condition : C1722, C1773]



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

D12.17 The operator shall install and maintain a(n) flow meter to accurately indicate the flow rate of the injected ammonia in lb/hr.

The operator shall continuously record the flow rate with a measuring device or gauge accurate to within +/- 5 percent, calibrated once every 12 months.

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

[Devices subject to this condition : C1773]

D12.18 The operator shall install and maintain a(n) non-resettable elapsed time meter to accurately indicate the elapsed operating time of the engine.

[RULE 1110.2, 2-1-2008]

[Devices subject to this condition : D732]

D28.2 The operator shall conduct source test(s) in accordance with the following specifications:



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

The test shall be conducted to determine and report the ammonia in ppmv, from the SCR unit outlet.

The test shall be conducted to determine and report the control efficiency of the SCR unit.

The test shall be conducted to determine and report the concentration in ppmv and mass emission rate in lb/hr for ROG, NOX, SOX, CO, TOTAL PM, PM10. For pollutants monitored by certified CEMS installed on this equipment, concentration data can be provided in lieu of actual test.

The test shall be conducted to determine and report the flue gas flow rate in SCF per hour, from the SCR unit outlet.

The test shall be conducted to determine and report the moisture in percent, from the SCR unit outlet.

The test shall be conducted to determine and report the excess oxygen in percent dry basis, from the SCR unit outlet.

The test shall be conducted within 60 days after achieving maximum production rate, but no later than 180 days after initial start-up of changes made as identified in application number 451294.

The test shall be conducted at least annually, thereafter.

Source test shall be conducted when this equipment is operating at 80 percent or greater of the permitted maximum rated capacity and PSA offgas is being supplied to furnace. Record and report PSA offgas flow rate.

The test shall be conducted to determine and report the firing rate in MMBTU/hr of the equipment. The total firing rate shall be the sum total of firing rate from natural gas, refinery fuel gas and/or PSA offgas combusted in the furnace of this equipment.

The test shall be conducted to determine and report the NOX in lb per MMBtu of



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

heat input, from the inlet and outlet of the SCR unit.

The test shall be conducted to determine and report the heating value, in BTU per SCF, of fuel gas supplied to the hydrogen reforming heater. For the purpose of this paragraph, fuel gas shall be defined as natural gas, refinery fuel gas, PSA offgas, or a combination thereof.

The test shall be conducted also to the source test requirements of Section E of this facility permit. In addition, the facility permit holder shall submit the protocol to the AQMD engineer no later than 45 days prior to the proposed test date, and notify the District of the date and time of the test at least 10 days prior to the test. The source test results shall be submitted to the District no later than 60 days after the source test was conducted.

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(b)(2)-Offset, 5-10-1996; RULE 2005, 5-6-2005; RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997; RULE 407, 4-2-1982]

[Devices subject to this condition : D1349]

D28.8 The operator shall conduct source test(s) in accordance with the following specifications:



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

The test shall be conducted to determine and report the high heating value in BTU per SCF, of fuel gas supplied to the gas turbine and duct burner.

The test shall be conducted to determine and report the NO_x emission factor in lb per MMBtu of rated maximum heat input, from the inlet and outlet of the SCR unit.

The test shall be conducted to determine and report the mass emission rate for ROG, NO_x, SO_x, CO, total PM, and PM₁₀.

The test shall be conducted to determine and report the flue gas flow rate in DSCF per hour, from the SCR unit outlet.

The test shall be conducted without the operation of the duct burner when the gas turbine is fired with butane gas.

The test shall be conducted to determine and report the moisture in percent, from the SCR unit outlet.

The District shall be notified of the date and time of the test at least 7 days prior to the test.

The test shall be conducted to determine and report the concentration for ROG, NO_x, SO_x, CO, total PM, and PM₁₀, corrected to 15 percent oxygen, dry basis.

The test shall be conducted to determine and report the excess oxygen in percent dry basis, from the SCR unit outlet.

The test shall be conducted at least annually.

The test shall be conducted within 60 days after achieving maximum production rate, but no later than 180 days after initial start-up.

Source test shall be conducted when this equipment is operating at 80 percent or greater of the permitted maximum rated capacity (initial and subsequent annual tests).



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

The test shall be conducted with and without the operation of the duct burner when the gas turbine is fired with refinery gas.

Source test shall be conducted when this equipment is operating with fuels used at normal conditions (subsequent annual tests only).

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(b)(2)-Offset, 5-10-1996; RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997; RULE 407, 4-2-1982]

[Devices subject to this condition : D828, D829]

D28.15 The operator shall conduct source test(s) in accordance with the following specifications:

The District 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 emission rate of VOC from the SO₂ scrubber. The operator shall submit a test protocol to the District at least 60 days prior to the test. The test shall be conducted according to the approved test protocol.

The test shall be conducted within 120 days after achieving maximum production rate, but no later than 180 days after initial startup.

The test shall be conducted with the equipment operating at least 80 percent of the permitted maximum capacity or within a capacity range approved by the District. Report of the test and operating conditions of the equipment shall be submitted to the District within 60 days after the test.

[RULE 1301, 12-7-1995]

[Devices subject to this condition : D1380]

D28.16 The operator shall conduct source test(s) in accordance with the following specifications:



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

The test shall be conducted to determine emission rates of NOX, SOX, ROG, CO, PM, sulfuric acid mist, and PM10. The operator shall submit a test protocol to the District at least 60 days prior to the initial test. The tests shall be conducted according to the approved test protocol or any subsequently approved revisions.

The test shall be conducted with the equipment operating at least 80 percent of the permitted maximum capacity or within a capacity range approved by the District. Report of the test and operating condition of the equipment shall be submitted to the District within 60 days after the test.

The test shall be conducted to demonstrate compliance with Rule 469(b) and permit condition.

The test shall be conducted to determine the SO2 conversion efficiency of the converter.

The test shall be conducted at least once every three years for acid mist, CO, and PM.

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

The test shall be conducted within 120 days after achieving maximum production rate, but no later than 180 days after initial startup.

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(b)(2)-Offset, 5-10-1996; RULE 2005, 5-6-2005; RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997; RULE 407, 4-2-1982; RULE 469, 5-7-1976; RULE 469, 2-13-1981]

[Devices subject to this condition : D333]

D28.17 The operator shall conduct source test(s) in accordance with the following specifications:

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



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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(b)(2)-Offset, 5-10-1996]

[Devices subject to this condition : C1352]

D28.18 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 1303(b)(2)-Offset, 5-10-1996]

[Devices subject to this condition : C830]

D28.21 The operator shall conduct source test(s) in accordance with the following specifications:

The test shall be conducted within 120 days after achieving maximum production rate, but no later than 180 days after initial start-up.

The test shall be conducted to determine emission rates of NO_x, SO_x, ROG, CO, PM, and PM₁₀. The operator shall submit a test protocol to the District at least 60 days prior to the test. The tests shall be conducted according to the approved test protocol or any subsequently approved revisions.

The test shall be conducted with the equipment operating at least 80 percent of the permitted maximum capacity or within a capacity range approved by the District. Report of the test and operating condition of the equipment shall be submitted to the District within 60 days after the test. The test for PM₁₀ shall be conducted once every three years.

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

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(b)(2)-Offset, 5-10-1996; RULE 2005, 5-6-2005]



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

[Devices subject to this condition : D1720]

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
ROG emissions	Approved District method	District-approved averaging time	Outlet of SCR

The test shall be conducted to determine ROG emission rates at the outlet of the SCR in ppmv and in lb/hr.

The test shall be conducted to determine the following parameters: the oxygen content (%), the carbon dioxide (%) and the moisture content in the exhaust gas; exhaust flow rate; and boiler firing rate.

The test shall be conducted with the equipment operating at least 80 percent of the permitted maximum capacity or within a capacity range approved by the District.

The test(s) shall be conducted at least every 5 years.

[**RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002; RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997**]

[Devices subject to this condition : D686]

D29.3 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 of the WESP



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

For the purpose of this condition, PM emission is filterable PM10 emissions as defined in Rule 1105.1.

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

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

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

Source test result shall include the following parameters: FCCU feed rate; catalyst recirculation rate; 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 WESP; the average secondary voltage and current (or total power input) and the average spark rate at each of the WESP fields; and the ratio of flue gas flow rate to venturi scrubbers scrubbing solution recirculation flowrate.

[RULE 1105.1, 11-7-2003]

[Devices subject to this condition : D1]

D29.4 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 of the WESP
NOX emissions	District method 100.1	District-approved averaging time	Outlet of the WESP
SOX emissions	District method 100.1	District-approved averaging time	Outlet of the WESP
CO emissions	Approved District method	District-approved averaging time	Outlet of the WESP



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

ROG emissions

| Approved District method

| District-approved
averaging time

| Outlet of the WESP



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

The test(s) shall be conducted within 120 days after achieving maximum production rate, but no later than 180 days after initial start-up.

The test shall be conducted to determine emission rates of NOX, SOX, ROG and CO at the outlet of the WESPs in ppmv and in lb/hr.

The test shall be conducted to determine emission rates of PM and PM10 at the inlet of WGS and outlet of the WESPs simultaneously in lb/hr.

The test shall be conducted to determine the following parameters: the oxygen content (%), the carbon dioxide (%) and the moisture content in the exhaust gas; exhaust flow rate; FCCU feed rate; catalyst recirculation rate; coke burn-off rate; exhaust flow rate; exhaust gas moisture content; the flue gas temperature at the outlet of the WESP; and the average secondary voltage and current (or total power input); the average spark rate at each of the WESP fields.

The test shall be conducted to determine the following additional parameters: opacity at the outlet of the WESP, and the ratio of WGS scrubbing solution recirculation flow rate to flue gas flow rate.

The test shall also be conducted at the outlet of the WESP to determine SOx emissions in lbs/ tons coke burn-off pursuant to 40CFR60, Subpart J and PM emissions in lbs/ 1,000 lbs coke-burn-off pursuant to 40CFR63, Subpart UUU and Consent Decree H-05-0258.

In addition to the source test requirements of Section E of this facility permit, the facility permit holder shall submit the protocol to the AQMD engineer no later than 60 days prior to the proposed test date, and notify the District of the date and time of the test at least 10 days prior to the test. The test shall be conducted according to the approved test protocol or any subsequently approved revisions.

The test shall be conducted with the equipment operating at least 80 percent of the permitted maximum capacity or within a capacity range approved by the District.



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

[RULE 1105.1, 11-7-2003; RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002; RULE 2005, 5-6-2005; 40CFR 60 Subpart J, 6-24-2008; 40CFR 63 Subpart UUU, 4-20-2006; CONSENT DECREE CIVIL NO. H-05-0258, 8-11-2008]

[Devices subject to this condition : D1]

D29.5 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 method 100.1	1 hour	Outlet of the Oxidizer
CO emissions	Approved District method	1 hour	Outlet of the Oxidizer

The test shall be conducted to demonstrate compliance with the NOx concentration limit of 32 PPMV at 3% O2, and CO concentration limit of 200 ppmv at 3% O2.

The test(s) shall be conducted within 90 days after achieving maximum production rate, but no later than 180 days after initial start-up.

During the source test(s), the facility permit holder shall also record the operating temperatures of the oxidizer.

Notwithstanding the requirements of Section E conditions, the source test results shall be submitted to the District no later than 60 days after the source test was conducted.

When catalyst is added to the oxidizer so that it can be operated in the catalytic mode, all the above tests shall be repeated within 90 days of achieving maximum production rate, but no later than 180 days after initial start-up of the catalytic oxidizer

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



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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; RULE 2005, 5-6-2005]

[Devices subject to this condition : C1735]

D29.6 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	Approved District method	1 hour	Outlet of SCR

The test shall be conducted to determine NH3 emission rates at the outlet of the SCR in ppmv corrected to 3% O2 and in lb/hr.

The test shall be conducted to determine the ammonia-to-emitted-NOx mole ratio using outlet NOx CEMS and ammonia injection rate.

The test shall be conducted at least annually.

The test shall be conducted to determine the following parameters: the oxygen content (%), the carbon dioxide (%) and the moisture content in the exhaust gas; exhaust flow rate; boiler firing rate, SCR inlet temperature and ammonia injection rate.

The test shall be conducted when the combustion equipment vented to the SCR is operating at least 80 percent of the permitted maximum capacity or within a capacity range approved by the District, with ammonia injection.

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

[Devices subject to this condition : C1773]

D29.7 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
NOX emissions	District method 100.1	1 hour	Outlet of SCR
NH3 emissions	Approved District method	1 hour	Outlet of SCR

The test shall be conducted within 120 days after achieving maximum production rate, but no later than 180 days after initial start-up.

The test shall be conducted to determine NOx emission rates at the inlet and outlet of the SCR in ppmv and in lb/hr.

The test shall be conducted to determine NH3 emission rates at the outlet of the SCR in ppmv corrected to 3% O2 and in lb/hr.

The test shall be conducted to determine the ammonia-to-emitted-NOx mole ratio using outlet NOx CEMS and ammonia injection rate.

The test shall be conducted to determine the following parameters: the oxygen content (%), the carbon dioxide (%) and the moisture content in the exhaust gas; exhaust flow rate; boiler firing rate and SCR inlet temperature.

In addition to the source test requirements of Section E of this facility permit, the facility permit holder shall submit the protocol to the AQMD engineer no later than 60 days prior to the proposed test date, and notify the District of the date and time of the test at least 10 days prior to the test. The test shall be conducted according to the approved test protocol or any subsequently approved revisions.

The test shall be conducted with the equipment operating at least 80 percent of the permitted maximum capacity or within a capacity range approved by the District.

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

[Devices subject to this condition : C1773]



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

D29.8 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	Approved District method	District-approved averaging time	Outlet

The test shall be conducted to determine the NH3 emissions. The operator shall submit a test protocol to the District at least 60 days prior to the test. The tests shall be conducted according to the approved test protocol or any subsequently approved revisions.

The test shall be conducted with the equipment operating at least 80 percent of the permitted maximum capacity or within a capacity range approved by the District.

The following operating parameters shall be recorded during the test:

NH3 injection rate, ammonia-to-emitted NOx mole ratio, SCR inlet temperature, and fuel flow rate to the heater.

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

The test shall be conducted at least annually.

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

[Devices subject to this condition : C1722]

D29.9 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
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The operator shall comply with the terms and conditions set forth below:

NOX emissions	District method 100.1	1 hour	Outlet of the SCR serving this equipment
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The test shall be conducted whenever the catalyst is replaced with a different manufacturer.

The test shall be conducted to demonstrate compliance with the NOx concentration limit of 9 ppmv at 15% O2.

The test(s) shall be conducted within 90 days after achieving maximum production rate, but no later than 180 days after initial start-up.

During the source test(s), the facility permit holder shall also record the operating temperature of the SCR.

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

[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]

[Devices subject to this condition : D828]

D29.10 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	Approved District method	1 hour	Outlet of the SCR serving this equipment



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

The test shall be conducted whenever the catalyst is replaced with a different manufacturer.

The test shall be conducted to demonstrate compliance with the NH3 concentration limit of 20 ppmv at 15% O2.

The test(s) shall be conducted within 90 days after achieving maximum production rate, but no later than 180 days after initial start-up.

During the source test(s), the facility permit holder shall also record the operating temperature of the SCR.

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

[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]

[Devices subject to this condition : C830]

D29.11 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	Approved District method	District-approved averaging time	Outlet
CO emissions	Approved District method	District-approved averaging time	Outlet



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

The test shall be conducted to demonstrate compliance with Rule 1110.2(f)(1) (C).

The test shall be conducted to determine and report the control efficiency of the air-to-fuel ratio controller (initial test only).

The test shall be conducted to determine the millivolts equivalent readings of the oxygen sensor.

The test(s) shall be conducted within 60 days after achieving maximum production rate, but no later than 180 days after initial start-up.

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

[RULE 1110.2, 2-1-2008]

[Devices subject to this condition : D732]

D82.1 The operator shall install and maintain a CEMS to measure the following parameters:

CO concentration in ppmv

Oxygen concentration in percent volume

The CEMS shall be installed to measure mass flow rate for flue gas

The CEMS shall be installed in accordance with Rule 218

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

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

[Devices subject to this condition : C832]

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



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1. CO
2. O2

[40CFR 60 Subpart J, 6-24-2008; CONSENT DECREE CIVIL NO. H-05-0258,
8-11-2008]

[Devices subject to this condition : D1]

D82.6 The operator shall install and maintain a CEMS to measure the following parameters:

SOX concentration in ppmv

Oxygen concentration in percent volume

Concentrations shall be corrected to zero percent excess air on a dry basis.

The CEMS shall be installed in accordance with the requirements of the 40CFR60 Subpart J with an appropriate range approved by the AQMD

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

[Devices subject to this condition : D828, D829, D1349, D1720]

D90.3 The operator shall periodically monitor the VOC concentration at the outlet of the carbon adsorber according to the following specifications:

The operator shall monitor once every day.

The operator shall use a District approved organic vapor analyzer to monitor the parameter.

The operator shall calibrate the instrument used to monitor the parameter in ppmv methane.



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

[RULE 1176, 9-13-1996; RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997]

[Devices subject to this condition : C522, C524, C526]

D90.5 The operator shall periodically monitor the SO₂ concentration at the outlet of the scrubber according to the following specifications:

The operator shall monitor once every day when equipment is in operation.

The operator shall maintain records for at least five years and make available to District personnel upon request.

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997; RULE 407, 4-2-1982]

[Devices subject to this condition : C1545]

D90.6 The operator shall periodically monitor the VOC concentration at the outlet of the carbon adsorber system according to the following specifications:

The operator shall use a District approved Organic Vapor Analyzer (OVA) to monitor the parameter.

The operator shall calibrate the instrument used to monitor the parameter in ppmv methane.

The operator shall monitor once every day when equipment is in service.

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

[Devices subject to this condition : C1678]

D90.7 The operator shall periodically monitor the SO₂ concentration at the vent pipe of this tank according to the following specifications:

The operator shall monitor once every week when the equipment is in operation. The operator shall maintain records for at least five years and make available to District personnel upon request.



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

[RULE 407, 4-2-1982]

[Devices subject to this condition : D1682, D1709, D1711, D1712]

D90.11 The operator shall sample and analyze the total hydrocarbon concentration in the alkaline water effluents of the coalescers(D321, D1660, & D1665) and Water Blowdown Drum F31(D300) before and after the modification according to the following specifications:

The operator shall sample and analyze the total hydrocarbon concentration in the alkaline water using District approved methods.

The operator shall submit test protocol to the District for approval at least 60 days prior to the test.

The operator shall submit test results to the District no later than 90 days from startup of the equipment after modification. The operator shall sample at least three times each in three separate operating days.

[RULE 1303(b)(2)-Offset, 5-10-1996]

[Devices subject to this condition : D321, D1660, D1665]

D90.12 The operator shall sample and analyze the VOC concentration in ppmv hexane, and speciated for benzene at the inlet and outlet of the oxidizer according to the following specifications:



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

Volatile organic compound (VOC) concentration shall be measured and recorded in parts per million by volume (ppmv) at the inlet and the outlet of this equipment at least once every seven (7) days of its operation using a flame ionization detector or a District approved organic vapor analyzer (OVA) calibrated in parts per million by volume (ppmv) as hexane.

Grab samples shall be collected at the inlet and outlet of this equipment at least once during the first week of its operation and once each quarter thereafter. The samples shall be analyzed for VOC in ppmv reported as hexane, and speciated for benzene and MTBE in ppmv in accordance with AQMD approved methods.

Benzene concentration at the outlet of the vapor control system shall not exceed 0.15 ppmv at vent gas flow rates between 300 to 500 scfm or 0.24 ppmv at vent gas flow rates below 300 scfm.

MTBE concentration at the outlet of the vapor control system shall not exceed 0.89 ppmv.

The operator shall report benzene and MTBE emissions at the outlet of the vapor control system in lb/hr.

VOC concentration at the outlet of the vapor control system shall not exceed 20 ppmv as hexane at vent gas flow rates between 300 to 500 scfm or 33 ppmv at vent gas flow rates below 300 scfm.

Compliance with the concentration limits shall be determined from grab sample analysis.

Analysis shall be conducted using EPA Method 8015, EPA Method 8260, EPA Method TO-03/TO-15 or other method approved by the district.

The operator shall record the oxidizer operating temperature in deg F, extraction blower flow rate in SCFM and test duration during the above tests, and include them in the report submitted to the district.

A report of findings on the grab sampling tests shall be prepared and submitted to



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

The test shall be conducted to determine the VOC concentration in the closed vent system and at the outlet of the carbon adsorption system and its control efficiency.

The test shall be conducted by April 30, 2001 in accordance with the source test protocol approved by the District. The source test protocol shall be submitted to the District at least 60 days prior to the test.

The District shall be notified of the date and time of the test at least 15 days prior to the test.

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

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

[Devices subject to this condition : D502, D503, D504, D518, D1543, D1544, D1551, D1624]

- D232.1 The operator shall install and maintain a continuous emission monitoring device to accurately indicate the H₂S concentration at the fuel inlet to the combustion device pursuant to 40CFR60 Subpart J. Compliance with the fuel gas H₂S concentration can alternately be determined by measuring the SO₂ emissions at the outlet of the device and complying with the 20 ppmv (dry basis, zero percent excess air) SO₂ limit allowed by 40CFR60 Subpart J. The measurement may be performed at a single device that shares a common source of fuel gas.

This condition shall become effective after EPA's determination on the Alternative Monitoring Plan (AMP) submitted on March 31, 2005. Within 180 days of EPA's determination on the AMP, the operator shall comply with all the requirements of the EPA-approved AMP or the monitoring requirements of 40CFR60 Subpart J specified in this condition.

[40CFR 60 Subpart J, 6-24-2008; CONSENT DECREE CIVIL NO. H-05-0258, 8-11-2008]

[Devices subject to this condition : D686]



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

SCAQMD, Engineering and Compliance, Refinery Unit, Attention: Permitting Engineer, within 45 days of the test date. The project location, AQMD application/permit number, sampling date and location, and analysis date shall be included in the test report.

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

[**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 1401, 3-7-2008]**

[Devices subject to this condition : C1735]

D90.13 The operator shall periodically monitor the VOC concentration at the outlet of the carbon adsorber according to the following specifications:

The operator shall monitor once every day.

The operator shall use a District approved organic vapor analyzer to monitor the parameter.

The operator shall calibrate the instrument used to monitor the parameter in ppmv methane.

[**RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002; RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997]**

[Devices subject to this condition : C1343]

D182.2 The operator shall test this equipment in accordance with the following specifications:



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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 a 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.



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

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

[Devices subject to this condition : D12, D13, D14, D1717]



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

D323.2 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 a semi-annual basis, at least, unless the equipment did not operate during the entire semi-annual period. The routine semi-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; RULE 401, 11-9-2001]



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

[Devices subject to this condition : C706, C723, C748]

D323.4 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 a monthly basis, at least, unless the equipment did not operate during the entire monthly period. The routine monthly 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.



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

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

[Devices subject to this condition : D1674]



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

D323.5 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 a bi-weekly basis, at least, unless the equipment did not operate during the entire bi-weekly period. The routine bi-weekly 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; RULE 401, 11-9-2001**]



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

[Devices subject to this condition : D333]

D323.6 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 a weekly basis, at least, unless the equipment did not operate during the entire weekly period. The routine weekly 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.



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

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

[Devices subject to this condition : D1]

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 CO emission limit(s). 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 1146, 9-5-2008; RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997; RULE 407, 4-2-1982]

[Devices subject to this condition : D1, D333, D1349, C1735]

D328.2 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 CO emission limit(s). 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 : D686, D1720]



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

D425.1 The operator shall have the existing NO_x CEMS monitoring this device reevaluated by the District by submitting a CEMS application. If recertification is necessary, the operator shall have the existing 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).

[RULE 2012, 5-6-2005]

[Devices subject to this condition : D1, D686]

D425.2 The operator shall have the existing SO_x CEMS monitoring this device reevaluated by the District by submitting a CEMS application. If recertification is necessary, the operator shall have the existing 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 2011, Appendix A, Chapter 2, Paragraph (B) (14).

[RULE 2012, 5-6-2005]

[Devices subject to this condition : D1]

E. Equipment Operation/Construction Requirements

E54.3 The operator is not required to vent this equipment to the following equipment if any of the requirements listed below are met:



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

Device ID: C1352 [SELECTIVE CATALYTIC REDUCTION]

Requirement number 1: During startup or shutdown period

Requirement number 2: During the refractory dry-out period (up to 150 consecutive hours) to allow the curing of refractory materials, during which time no production of hydrogen shall occur

Requirement number 3: The heater exhaust is below 600 degrees F

[RULE 2005, 5-6-2005]

[Devices subject to this condition : D1349]

E57.2 The operator shall vent this equipment to the superheater B-211 through the Merox Off Gas KO Pot F-210 whenever this equipment and the superheater are in operation. Merox off gases shall not be vented to the flare through control valve PV256 except during shutdown of the superheater or off gas burner maintenance.

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

[Devices subject to this condition : D308]

E57.3 The operator shall vent this equipment to the refinery flare vapor recovery system whenever this equipment is in normal operation.

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

[Devices subject to this condition : D1367]

E57.5 The operator shall vent this equipment to the refinery vapor recovery system whenever this equipment is in operation.

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

[Devices subject to this condition : D86]



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

E57.6 The operator shall vent this equipment to either one of the H₂S absorbers D101, D102, or D103 (Device D389, D390, or D391) in Unit 110E (Process 9, System 3) whenever this equipment is in normal operation.

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

[Devices subject to this condition : D92, D99]

E57.7 The operator shall vent this equipment to the Wet Gas Scrubber (WGS) with Wet Electrostatic Precipitators (WESPs) whenever the FCC unit is in operation.

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

[Devices subject to this condition : D1715, D1716]

E71.2 The operator shall only inject ammonia into this equipment if the flue gas inlet temperature is at least 600 degrees F.

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

[Devices subject to this condition : C1352]

E71.3 The operator shall only use natural gas and butane in this equipment during the periods of startup.

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

[Devices subject to this condition : D828]

E71.4 The operator shall only use this equipment for storing Mixed Pentanes except that during Tank 304 shutdown for maintenance, Organic Liquid from Tank 304 shall be stored in this tank.

[RULE 1303(b)(2)-Offset, 5-10-1996]

[Devices subject to this condition : D1378]



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

E71.6 The operator shall not operate this equipment to process organic vapor unless the connection to the flare header is equipped with a block valve with a car seal or equivalent as approved in writing by the District prior to installation. The valve shall be closed at all times except during startup, shutdown, or scheduled maintenance. The operator shall maintain record of startup, shutdown, or scheduled maintenance in a manner approved by the District and make the record available to District personnel upon request.

[RULE 1303(b)(2)-Offset, 5-10-1996]

[Devices subject to this condition : D92, D99, D1667, D1668, D1669, D1670]

E71.14 The operator shall not operate this equipment to receive Merox off gas unless the vent line down-stream of control valve PV256 is equipped with a flow meter and the flare gas is being periodically monitored for total sulfur content.

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

[Devices subject to this condition : D709]

E71.17 The operator shall not use this equipment to load additive unless the loading rate is less than or equal to 100 pounds per day for DeNOX and 150 pounds per day for DeSOX additives.

[RULE 1303(b)(2)-Offset, 5-10-1996]

[Devices subject to this condition : D1674]

E71.18 The operator shall not operate this equipment to load spent alkylation acid unless the temperature of the combustion chamber (device ID D333) is maintained above 1650 degree F and the oxygen content in the exhaust gas from the stack (device ID S351) is maintained above 1.5 percent by volume except when the vent gas is routed to the backup air pollution control system.

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

[Devices subject to this condition : D1380]



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

E71.19 The operator shall not use this equipment to store hydrocarbon unless the relief pressure of the control valve PV202B is set at 60 psig or higher and the nitrogen blanket gas control valve PV202A is set at 3 psig or higher.

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

[Devices subject to this condition : D1367]

E71.20 The operator shall not operate this equipment to receive vent gas unless the NaOH concentration in the caustic solution is equal to 5 percent by weight or more. The operator shall install and maintain a continuous NaOH monitor with alarm to accurately indicate and record the NaOH concentration in the scrubbing solution at the inlet of the scrubber. Records shall be maintained and made available to District personnel upon request.

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997; RULE 407, 4-2-1982]

[Devices subject to this condition : C1545]

E71.21 The operator shall not use this equipment to store hydrocarbon unless the storage vapor temperature is maintained at 90 degree F or less. The operator shall install a temperature gauge readable at ground level for this equipment to show compliance with this condition.

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

[Devices subject to this condition : D1367]

E71.22 The operator shall only use this equipment to store C4 and C5 with total vapor pressure not exceeding 57.0 psig at 90 degree F.

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

[Devices subject to this condition : D1367]



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

E71.23 The operator shall not operate this equipment to process hydrocarbon. All piping to this equipment shall be disconnected and blind-flanged.

[RULE 1303(b)(2)-Offset, 5-10-1996]

[Devices subject to this condition : D84, D85, D95, D1705]

E71.24 The operator shall not use any anhydrous ammonia in this equipment except during the malfunction of the aqueous ammonia injection system serving this equipment. The quantity of anhydrous ammonia stored at this facility for use in this equipment shall not exceed a total of two-150 pounds cylinders. The operator shall maintain records of the date, duration, and reason of occurrence when anhydrous ammonia is used and make the records available to District personnel upon request.

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

[Devices subject to this condition : C1722]

E71.25 The operator shall only begin operation of this equipment when the commissioning period has ended until the ammonia injection (Device C38) and Dry ESPs (Devices C36 & C37) have been shutdown and the permits surrendered.

[RULE 1105.1, 11-7-2003]

[Devices subject to this condition : C1742, C1743]

E71.26 The operator shall not use this equipment to service of any of the dry ESP (Devices C36 and/or C37) of FCCU Unit 152 after the commissioning period has ended for any of the WESPs (devices C1742 and/or C1743).

[RULE 1105.1, 11-7-2003]

[Devices subject to this condition : D701]

E71.27 The operator shall only load wet fines from the WESP into this equipment when Tank TK-754 (device D1759) is either completely full or out-of-service.



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

[RULE 401, 3-2-1984; RULE 401, 11-9-2001; RULE 405, 2-7-1986]

[Devices subject to this condition : D1761]

E71.28 The operator shall not operate this equipment to treat vapors containing halogenated compounds or any carcinogenic compounds listed in AQMD Rule 1401 (as amended on March 4, 2005) other than benzene and MTBE.

[RULE 1401, 3-7-2008]

[Devices subject to this condition : C1735]

E73.1 Notwithstanding the requirements of Section E conditions, the operator shall not use the duct burner if any of the following requirement(s) are met:

Butane gas is used in the gas turbine.

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

[Devices subject to this condition : D829]

E73.2 Notwithstanding the requirements of Section E conditions, the operator may, at his discretion, choose not to use steam injection if any of the following requirement(s) are met:

During startup, shutdown, or on-line fuel transfer

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

[Devices subject to this condition : D828]

E73.3 Notwithstanding the requirements of Section E conditions, the operator is not required to use reformer heater 118-H-401 (D1349) as an air pollution control device and can vent to atmosphere for a period not to exceed 4 hours in any 24-hour period and only during emergencies meeting any one of the conditions as identified below:



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

1. High liquid level in deaerator V-206 - of the HH level is reached with the furnace operating, or
2. High level in the liquid trap located immediately upstream of the furnace vent connections - if the HH level is reached with the furnace operating , or
3. Low level in either condensate separator V-403 or V-412 - if the LL level is reached with the furnace operating

This condition shall only apply when feed gas that is used in hydrogen production is being supplied to the process.

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

[Devices subject to this condition : D772]

E73.4 Notwithstanding the requirements of Section E conditions, the operator shall not use roll-off bins ME-755 A/B (device D1761) to store solid waste unless all of the following requirements are met:

1. The roll-off bins are covered.

The purpose of this condition is to mitigate particulate emissions from these bins.

For the purpose of this condition, solid waste shall be defined as material containing no free liquid as determined by USEPA Method 9095B (Paint Filter Liquid Test).

[RULE 401, 3-2-1984; RULE 401, 11-9-2001; RULE 405, 2-7-1986]

[Devices subject to this condition : D1761]

E73.5 Notwithstanding the requirements of Section E conditions, the operator is not required to use ammonia injection if any of the following requirement(s) are met:

The temperature at the inlet to the SCR catalyst bed is below 500 Deg F



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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 : D828]

E102.2 The operator shall discharge dust collected in this equipment only into closed containers.

[RULE 401, 3-2-1984; RULE 401, 11-9-2001; RULE 405, 2-7-1986]

[Devices subject to this condition : D1716]

E128.1 The operator shall keep all spent carbon in a tightly covered container which shall remain closed except when it is being transferred into or out of the container.

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

[Devices subject to this condition : C1343]

E144.1 The operator shall vent this equipment, during filling, only to the vessel from which it is being filled.

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

[Devices subject to this condition : D701, D825]

E153.1 The operator shall change over the spent carbon with fresh activated carbon in the adsorber whenever breakthrough occurs.

For the purpose of this condition, breakthrough occurs when the hydrocarbon monitor reading indicates a concentration of 500 ppmv at the outlet of the carbon canister. (The 500 ppmv refers to VOCs).

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

[Devices subject to this condition : C522, C524, C526]

E153.2 The operator shall change over the spent carbon with fresh activated carbon in the adsorber whenever breakthrough occurs.



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

For the purpose of this condition, breakthrough occurs when the hydrocarbon monitor reading indicates a concentration of 500 ppmv at the outlet of the carbon adsorber (the 500 ppmv refers to VOC measured by EPA Reference Method 21).

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

[Devices subject to this condition : C1678]

- E153.3 The operator shall change over the spent carbon with fresh activated carbon in the adsorber whenever breakthrough occurs.

For the purpose of this condition, breakthrough shall be defined as 500 ppmv of VOCs or 5 ppmv of Benzene at the outlet of the carbon canister indicated by the hydrocarbon monitor reading.

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

[Devices subject to this condition : C1343]

- E190.1 The operator shall maintain a minimum stack height of 13 feet.

[RULE 1401, 3-7-2008]

[Devices subject to this condition : C1735]

- E193.2 The operator shall construct this equipment according to the following specifications:

Sampling ports shall be provided in accordance with EPA Source Test Method 201A for determination of PM10 emissions

[RULE 1303(b)(2)-Offset, 5-10-1996]

[Devices subject to this condition : D828]

- E193.3 The operator shall upon completion of construction, operate and maintain this equipment according to the following specifications:



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

The operator shall maintain a minimum 4.5 inches of water seal at the overflow outlet of this equipment.

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

[Devices subject to this condition : D518]

E193.4 The operator shall operate and maintain this equipment according to the following specifications:

The operator shall comply with all applicable requirements specified in Section 60.18 of the 40CFR60 Subpart A

The operator shall install, operate and maintain a stack gas flow meter at the flare stack in according to the Rule 1118 compliance plan approved by the District.

The operator shall install, operate and maintain a flare gas sampling port/facility at a location upstream of the Merox off-gas connection in according to the Rule 1118 compliance plan approved by the District.

[40CFR 60 Subpart A, 5-16-2007]

[Devices subject to this condition : C706, C723, C748]

E193.5 The operator shall construct this equipment according to the following specifications:

The compressor seal system shall be vented to an air pollution control system which is in full use and has a valid permit to receive vent gases from this system.

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

[Devices subject to this condition : D94]

E193.6 The operator shall construct, operate, and maintain this equipment as follows:



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

Automatic air-to-fuel ratio controller

Malfunction indicator light and audible alarm for the air-to-fuel ratio controller

Exhaust gas oxygen sensor and a device that monitors the exhaust gas concentration. The display of the exhaust gas concentration should read in millivolts (mV). The exhaust gas oxygen concentration shall be maintained at no more than 500 millivolts range.

During the initial set-up of the exhaust oxygen sensor, the optimum oxygen sensor set point in millivolts shall be determined by comparing the NO_x and CO emission levels at various engine operating loads. The NO_x and CO emission readings shall be obtained through the use of a portable analyzer. The operator shall keep records of the following data while operating the engine in various loads during the initial set-up:

Loads during the initial set-up:

Equivalent exhaust oxygen readings in millivolts,

Manifold absolute pressure, and

Engine speed.

The operator shall submit to the Executive Officer an update to their Rule 1110.2 Inspection and Maintenance (I&M) Plan (AN 486552) no later than 30 days after commissioning the engine to reflect the Air-to-Fuel Ration Controller's parameters.

[RULE 1110.2, 2-1-2008]

[Devices subject to this condition : D732]

E202.4 The operator shall clean and maintain this equipment according to the following specifications:



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

Upon completion of Soil Vapor Extraction at this location, any vapor extraction well(s) and duct(s) shall be capped to prevent vapors from venting to the atmosphere. Vapors shall not be extracted from the soil, unless vented to the vapor control system. There shall be no detectable leak between the outlet of the vapor extraction blower used and the inlet to this equipment.

[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]

[Devices subject to this condition : C1735]

- E223.1 The operator shall install and maintain an interlock control to stop the operation of this equipment if the operating temperature falls below the required minimum operating temperatures of 650 deg. F in catalytic oxidation mode or 1400 deg F in thermal oxidation mode, when temperature exceeds manufacturer's specifications, when flameout occurs, or when the vapor blower flow rate exceeds 500 SCFM.

[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]

[Devices subject to this condition : C1735]

- E225.1 The operator shall install and maintain an on/off light to indicate the operational status of the control equipment venting this equipment. The on/off light shall be easily observable and its location be made known to the persons in charge of maintenance.

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

[Devices subject to this condition : D1546, D1675]

- E336.1 The operator shall vent the vent gases from this equipment as follows:



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

All vent gases under normal operating conditions shall be directed to a reactor combustion chamber B-104 (Device D333).

All vent gases during shutdown of the combustion chamber B-104 (Device D333) shall be directed to a caustic scrubber F-404 (Device C1545) in tandem with a carbon adsorber (Device C1678) with at least one series of adsorbers in operation.

This equipment shall not be operated unless the above air pollution control system is in full use and has a valid permit to receive vent gases from this equipment.

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

[Devices subject to this condition : D1380, D1385, D1386, D1525, D1713, D1714]

E336.3 The operator shall vent the vent gases from this equipment as follows:

All vent gases shall be directed to the vapor recovery system(s) (Process 17, Systems 6 and 7).

This equipment 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 equipment.

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

[Devices subject to this condition : D88, D1378]

E448.2 The operator shall comply with the following requirements:

The bypass connection to the flare header shall be closed at all times except during an emergency. Record of valve opening and emergency events shall be maintained and made available to District personnel upon request.

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



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

[Devices subject to this condition : D1704]

E448.3 The operator shall comply with the following requirements:

The operator shall inject aqueous ammonia into this SCR only if the flue gas temperature at the inlet of this SCR is equal to or greater than the 350 degrees Fahrenheit.

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

[Devices subject to this condition : C1773]

G. CEQA Requirements

G292.1 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 Final Environmental Impact Report dated 06/05/1996 for this facility.

[CA PRC CEQA, 11-23-1970]

[Devices subject to this condition : D826, D828, D829, C830, C832, S1369, D1383, D1471]

H. Applicable Rules

H23.1 This equipment is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
SOX	40CFR60, SUBPART	J



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

Pursuant to 40CFR60.8(c), emissions in excess of the level of the applicable emission limit during periods of startup, shutdown and malfunction shall not be considered a violation of the applicable emission limit unless otherwise specified in the applicable standard.

The operator shall keep records to demonstrate compliance or exemption from this condition.

[40CFR 60 Subpart J, 6-24-2008; CONSENT DECREE CIVIL NO. H-05-0258, 8-11-2008]

[Devices subject to this condition : D1, D686]

H23.2 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 : D1565, D1591, D1594, D1605, D1608, D1616, D1617]

H23.3 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, 6-1-2007; 40CFR 60 Subpart GGG, 6-2-2008]

[Devices subject to this condition : D759, D760, D828, D1585, D1589, D1622, D1667]



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

H23.11 This equipment is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
SOX	40CFR60, SUBPART	GG

[40CFR 60 Subpart GG, 2-24-2006]

[Devices subject to this condition : D828]

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

Contaminant	Rule	Rule/Subpart
VOC	District Rule	463

[RULE 463, 5-6-2005]

[Devices subject to this condition : D1386]

H23.15 This equipment is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
VOC	40CFR60, SUBPART	Kb

[40CFR 60 Subpart Kb, 10-15-2003]

[Devices subject to this condition : D516, D517]

H23.22 This equipment is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
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The operator shall comply with the terms and conditions set forth below:

VOC | 40CFR60, SUBPART | GGG
[40CFR 60 Subpart GGG, 6-2-2008]

[Devices subject to this condition : D94, D1575]

H23.23 This equipment is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
PM10	District Rule	1105.1
NH3	District Rule	1105.1

[RULE 1105.1, 11-7-2003]

[Devices subject to this condition : D1]

H23.25 This equipment is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
CO	40CFR60, SUBPART	J
PM	40CFR60, SUBPART	J

Compliance with the opacity limit shall be determined per the EPA-approved Alternative Monitoring Plan dated July 14, 2008 and also as described in Condition C12.3.

[40CFR 60 Subpart J, 6-24-2008; CONSENT DECREE CIVIL NO. H-05-0258, 8-11-2008]

[Devices subject to this condition : D1]

H23.26 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:

Contaminant	Rule	Rule/Subpart
H2S	40CFR60, SUBPART	J

The operator shall monitor H2S concentration at the inlet to this equipment according to the approved EPA alternative monitoring plan (AMP) dated April 6, 2007. A copy shall be made available to the Executive Officer or designee upon request.

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

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

[Devices subject to this condition : C1735]

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

Contaminant	Rule	Rule/Subpart
SOX	District Rule	1118

[RULE 1118, 11-4-2005]

[Devices subject to this condition : C706, C723, C748]

H23.30 This equipment is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
VOC	District Rule	1110.2
CO	District Rule	1110.2

[RULE 1110.2, 2-1-2008]



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

[Devices subject to this condition : D732]

H23.32 This equipment is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
H2S	40CFR60, SUBPART	J

[CONSENT DECREE CIVIL NO. H-05-0258, 8-11-2008]

[Devices subject to this condition : C706, C723, C748]

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

Contaminant	Rule	Rule/Subpart
SOX	40CFR60, SUBPART	J

Pursuant to 40CFR60.8(c), emissions in excess of the level of the applicable emission limit during periods of startup, shutdown and malfunction shall not be considered a violation of the applicable emission limit unless otherwise specified in the applicable standard.

The operator shall keep records to demonstrate compliance or exemption from this condition.

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

[Devices subject to this condition : D828, D829, D1349, D1720]



FACILITY PERMIT TO OPERATE CONOCOPHILLIPS COMPANY

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

H116.1 The operator shall maintain the overall SO₂ to SO₃ conversion efficiency or equivalent at least 99.7 percent in order to comply with the performance standard for the sulfur acid plant whenever this plant is in operation. The conversion efficiency shall be calculated based on the SO₂ emission rate and the total SO₂ feed into the converter or linear interpolation calculation from the emission factors listed in Table 8.10-1 of AP42 Chapter 8.10(7/93). Emission factors shall be in lbs/ton based on daily emission rate and sulfuric acid production rate.

[RULE 2005, 5-6-2005]

[Devices subject to this condition : D338]

H116.2 The operator shall not discharge liquid or gaseous sulfur compounds exceeding 500 ppmv calculated as sulfur dioxide and averaged over 15 consecutive minutes from the vent pipe of this tank in order to comply with Rule 407 whenever this equipment is in operation.

[RULE 407, 4-2-1982]

[Devices subject to this condition : D1682, D1709, D1711, D1712]

H116.3 The operator shall not discharge VOC vapor exceeding 500 ppmv calculated as methane from the vent pipe of this tank in order to comply with Rule 1303 whenever this equipment is in operation.

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

[Devices subject to this condition : D1709, D1711, D1712]

I. Administrative



FACILITY PERMIT TO OPERATE CONOCOPHILLIPS COMPANY

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

- 11.2 The operator shall comply with all the requirements of the conditions and compliance schedule as specified in the variance dated May 8, 2008, Case No. 4900-79 in accordance with the Findings and Decisions of the Hearing Board or as subsequently modified by the Hearing Board. The operator shall submit progress reports at least semi-annually, or more frequently if specified in the Findings and Decisions. The progress reports shall contain dates for achieving activities, milestones or compliance required in the schedule of compliance and dates when such activities, milestones or compliance were achieved; and an explanation of why any dates in the schedule of compliance were not, or will not be met, and any preventative or corrective measures adopted.

The variance (or Order for Abatement) referenced in this condition does not affect federal or citizen enforceability of the underlying SIP approved rules for which the applicant is receiving the variance (or Order for Abatement).

[RULE 1118, 11-4-2005; RULE 3004(a)(10)(C), 12-12-1997]

[Devices subject to this condition : C706, C723, C748]

- 130.1 In accordance with Rule 3002(a)(3), the permit for this equipment is being issued as a non-Title V permit.

The facility permit holder shall file an application for a Title V permit revision for this equipment within 90 days of the issuance of the facility's initial Title V permit.

[RULE 3002, 11-14-1997]

[Devices subject to this condition : D732, D826, D828, D829, C830, C832, S1369, D1383, D1471]

K. Record Keeping/Reporting

- K40.2 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.



FACILITY PERMIT TO OPERATE CONOCOPHILLIPS COMPANY

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

[RULE 2005, 5-6-2005]

[Devices subject to this condition : C830]

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.

Emission data shall be expressed in terms of mass rate (lbs/hr). In addition, solid PM emissions, if required to be tested, shall also be reported in terms of grains per DSCF.

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.

FCCU design capacity (MBPD), feed rate (MBPD), density, sulfur content (%) and source (vacuum gas oil, coker gas oil) of feed, flow rates of air to FCCU regenerator (dscfm), amount of combustion promoter, De-NO_x and De-SO_x catalyst used (lb/day), catalyst recirculation rate (ton/day), and make-up catalyst rate (ton/day); coke burn-off rate (lbs/hr), the average secondary voltage and current (or total power input), and the average spark rate at each of the ESP field and ESP NH₃ injection rate (lb/hr).

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

[Devices subject to this condition : D1]

K40.4 The operator shall provide to the District a source test report in accordance with the following specifications:



FACILITY PERMIT TO OPERATE CONOCOPHILLIPS COMPANY

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.

The source test reports shall also include the following operating parameters under which the test was conducted:

NH₃ injection rate, ammonia-to-emitted NO_x mole ratio, SCR inlet temperature, fuel flow rate to the heater, and specification of the catalyst.

This condition shall only apply to source test condition D29.8

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

[Devices subject to this condition : C1722]

K67.1 The operator shall keep records, in a manner approved by the District, for the following parameter(s) or item(s):

Fuel rate and high heating value of the fuel

[RULE 2005, 5-6-2005]

[Devices subject to this condition : D1349]

K67.4 The operator shall keep records, in a manner approved by the District, for the following parameter(s) or item(s):

Hourly firing rates, flue gas temperature, process feed flow rates, inlet and outlet process fluid temperatures, excess air, and NO_x emissions

[RULE 2005, 5-6-2005]

[Devices subject to this condition : D1349]

K67.5 The operator shall keep records, in a manner approved by the District, for the following parameter(s) or item(s):



FACILITY PERMIT TO OPERATE CONOCOPHILLIPS COMPANY

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

The concentration of total sulfur compounds, calculated as H₂S, in the refinery fuel gas on a daily basis

The concentration of total sulfur compounds shall be measured using a method approved in writing by the AQMD

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

[Devices subject to this condition : D828]

K67.6 The operator shall keep records, in a manner approved by the District, for the following parameter(s) or item(s):

Daily inspections and maintenance of all the valves at this equipment

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

[Devices subject to this condition : D701, D1778]

K67.12 The operator shall keep records, in a manner approved by the District, for the following parameter(s) or item(s):

- Records of atmospheric vents shall include, but not limited to, date of occurrence, reason for occurrence, duration of occurrence and information to support whether hydrogen was being produced or not.

[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]

[Devices subject to this condition : D772]

K67.14 The operator shall keep records, in a manner approved by the District, for the following parameter(s) or item(s):



FACILITY PERMIT TO OPERATE CONOCOPHILLIPS COMPANY

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

An engine operating log shall be maintained which on a monthly basis shall include manual and automatic operation and shall list all engine operations in each of the following areas:

- A. Total hours of operation
- B. Type of liquid and/or type of gaseous fuel
- C. Fuel consumption (cubic feet of gas or gallons of liquid)
- D. Cumulative hours of operation since the last source test required by the rule.

The log shall be kept for a minimum of five calendar years prior to the current year and made available to the District personnel upon request.

[RULE 1110.2, 2-1-2008]

[Devices subject to this condition : D732]