



**FACILITY PERMIT TO OPERATE  
CHEVRON PRODUCTS COMPANY**

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

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

Description	ID No.	Connected To	RECLAIM Source Type	Emissions and Requirements	Conditions
<b>Process 5: CATALYTIC REFORMING</b>					P13.1
<b>System 1: CCRU</b>					S13.2, S15.7, S15.10, S31.13, S31.16
REACTOR, R-410, NO. 1 PLATFORMING, HEIGHT: 34 FT; DIAMETER: 7 FT 6 IN A/N: 498739	D1915				
REACTOR, R-420, NO. 2 PLATFORMING, HEIGHT: 29 FT; DIAMETER: 7 FT 6 IN A/N: 498739	D1916				
REACTOR, R-430, NO. 3 PLATFORMING, HEIGHT: 35 FT; DIAMETER: 8 FT 6 IN A/N: 498739	D1917				
REACTOR, R-440, NO. 4 PLATFORMING, HEIGHT: 35 FT; DIAMETER: 10 FT 6 IN A/N: 498739	D1918				
VESSEL, SEPARATOR, V- 400, REACTOR PRODUCT, HEIGHT: 23 FT; DIAMETER: 12 FT 6 IN A/N: 498739	D1919				
COMPRESSOR, K-400, RECYCLE GAS, CENTRIFUGAL, STEAM TURBINE DRIVE, WITH SEAL/LUBE OIL FILTERS A/N: 498739	D1922				
POT, V-904A, SOUR SEAL OIL TRAP (K-905A) A/N: 498739	D1923				
POT, V-904B, SOUR SEAL OIL TRAP (K-905A) A/N: 498739	D1924				
POT, V-905A, SOUR SEAL OIL TRAP (K-905B) A/N: 498739	D1925				
POT, V-905B, SOUR SEAL OIL TRAP (K-905B) A/N: 498739	D1926				
VESSEL, TREATER, V-901A, NET GAS CHLORIDE, HEIGHT: 18 FT; DIAMETER: 9 FT 6 IN A/N: 498739	D1927				



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VESSEL, TREATER, V-901B, NET GAS CHLORIDE, HEIGHT: 18 FT; DIAMETER: 9 FT 6 IN A/N: 498739	D1928				
COMPRESSOR, K-905A, NET GAS, WITH MODIFIED WHEELS, WITH 10,000-HP MOTOR COMMON TO K-905B, LUBE/SEAL OIL FILTER & MOTOR AIR COOLER. A/N: 498739	D1929				H23.19
COMPRESSOR, K-905B, NET GAS, WITH MODIFIED WHEELS, WITH 10,000-HP MOTOR COMMON TO K-905A, LUBE/SEAL OIL FILTER & MOTOR AIR COOLER A/N: 498739	D1930				H23.19
DRUM, FIRST STAGE RECONTACT, V-906, HEIGHT: 21 FT; DIAMETER: 10 FT A/N: 498739	D1931				
DRUM, SECOND STAGE RECONTACT, V-907, HEIGHT: 21 FT; DIAMETER: 10 FT A/N: 498739	D1932				
ACCUMULATOR, V-450, DEBUTANIZER OVERHEAD, HEIGHT: 16 FT 6 IN; DIAMETER: 5 FT 6 IN A/N: 498739	D1937				
COLUMN, DEHEXANIZER, C-460, HEIGHT: 108 FT; DIAMETER: 12 FT A/N: 498739	D1942				
ACCUMULATOR, V-460, DEHEXANIZER OVERHEAD, HEIGHT: 22 FT 6 IN; DIAMETER: 7 FT 6 IN A/N: 498739	D1944				
HOPPER, NO.2 LOCK, 4-V7 A/N: 498739	D1951				



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Description	ID No.	Connected To	RECLAIM Source Type	Emissions and Requirements	Conditions
CONVEYOR, PNEUMATIC, LIFT ENGAGER NO.2, 4-V8. A/N: 498739	D1952				
CONVEYOR, LIFT ENGAGER NO.3, 4-V15. A/N: 498739	D1953				
TANK, SURGE, 4-V17, NO.2 VENT GAS, HEIGHT: 4 FT 6 IN; DIAMETER: 2 FT 6 IN A/N: 498739	D1954	D471 D472 D473 D3031			
VESSEL, COALESCER, 4-ME9, BOOSTER GAS A/N: 498739	D1955				
VESSEL, COALESCER, 4-ME8, RECYCLE GAS A/N: 498739	D1956				
HOPPER, NO.1 LOCK, 4-V2. A/N: 498739	D1957			HAP: (10) [40CFR 63 SUBPART UUU, #1, 2-9-2005]	
TANK, SURGE, 4-V16, NO.1 VENT GAS, HEIGHT: 6 FT; DIAMETER: 3 FT 6 IN A/N: 498739	D1958	D471 D472 D473 D3031		HAP: (10) [40CFR 63 SUBPART UUU, #1, 2-9-2005]	
CONVEYOR, PNEUMATIC, LIFT ENGAGER NO.1, 4-V3. A/N: 498739	D1959				
VESSEL, COLLECTOR, 4-ME10, CATALYST PARTICLE, WITH AN EXHAUST BLOWER, 4-C5. A/N: 498739	D1960			PM: (9) [RULE 405,2-7-1986]	D381.1
FILTER, J-410A, FUEL GAS A/N: 498739	D1961				
FILTER, J-410B, FUEL GAS A/N: 498739	D1962				
FILTER, J-491, CHEMICAL INJECTION A/N: 498739	D1963				
TOWER, VENT GAS WASH, 4V-12, HEIGHT: 25 FT; DIAMETER: 2 FT 6 IN A/N: 498739	D1964				C8.12, C8.13
DRUM, V-491, CHLORIDE, HEIGHT: 4 FT; DIAMETER: 2 FT A/N: 498739	D3027				
KNOCK OUT POT, V-911, SEPARATOR, HYDROGEN/ CAUSTIC, HEIGHT: 22 FT 6 IN; DIAMETER: 5 FT A/N: 498739	D3120				



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Description	ID No.	Connected To	RECLAIM Source Type	Emissions and Requirements	Conditions
BLOWER, REGENERATION AIR, 4-C1, CENTRIFUGAL A/N: 498739	D3327				
BLOWER, CHLORINATION AIR, 4-C2, CENTRIFUGAL A/N: 498739	D3328				
BLOWER, LIFT GAS, 4-C4, CENTRIFUGAL A/N: 498739	D3329				
SCRUBBER, VENTURI, 4-ME13 A/N: 498739	D3330				
FILTER, 4-ME16, RECYCLE GAS A/N: 498739	D3331				
FILTER, 4-ME5, RECYCLE GAS A/N: 498739	D3332				
TOWER, REGENERATION, 4-VI, HEIGHT: 46 FT; DIAMETER: 7 FT 6 IN A/N: 498739	D3333			HAP: (10) [40CFR 63 SUBPART UUU, #1, 2-9-2005]	
HOPPER, LOCK, 4-V10, CATALYST ADDITION, DIAMETER: 2 FT; HEIGHT: 2 FT A/N: 498739	D3334				
DRUM, VENT, NO. 1, 4-V11A, HEIGHT: 3 FT 6 IN; DIAMETER: 1 FT A/N: 498739	D3335	D471 D472 D473 D3031			
DRUM, VENT, NO. 2, 4-V11B, HEIGHT: 3 FT 6 IN; DIAMETER: 1 FT A/N: 498739	D3336	D471 D472 D473 D3031			
DRUM, VENT, NO. 3, 4-V11C, HEIGHT: 3 FT 6 IN; DIAMETER: 1 FT A/N: 498739	D3337	D471 D472 D473 D3031		HAP: (10) [40CFR 63 SUBPART UUU, #1, 2-9-2005]	
DRUM, VENT, NO. 4, 4-V11D, HEIGHT: 3 FT 6 IN; DIAMETER: 1 FT A/N: 498739	D3338	D471 D472 D473 D3031		HAP: (10) [40CFR 63 SUBPART UUU, #1, 2-9-2005]	
HOPPER, DISENGAGING, 4-V4, DIAMETER: 6 FT; HEIGHT: 8 FT A/N: 498739	D3339			PM: (9) [RULE 405.2-7-1986]	



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Description	ID No.	Connected To	RECLAIM Source Type	Emissions and Requirements	Conditions
HOPPER, SURGE, 4-V6, DIAMETER: 9 FT; HEIGHT: 14 FT A/N: 498739	D3340			PM: (9) [RULE 405.2-7-1986]	
HOPPER, FLOW CONTROL, 4-V5, DIAMETER: 10 IN; HEIGHT: 9 IN A A/N: 498739	D3341				
COLUMN, DEBUTANIZER, C-450, WITH NEW TRAYS, HEIGHT: 67 FT; DIAMETER: 8 FT A/N: 498739	D3342				
BLOWER, FINES, C-5 A/N: 498739	D3343				
FILTER, FEED, J-401 A/N: 498739	D3344				
FILTER, ME2 A/N: 498739	D3345				
FILTER, ME3 A/N: 498739	D3346				
FILTER, ME6, OFF V-13 A/N: 498739	D3347				
POT, WATER DRAW, V-401, HEIGHT: 4 FT; DIAMETER: 1 FT A/N: 498739	D3348				
POT, HOLDING, V-404, SOUR OIL, HEIGHT: 2 FT 8 IN; DIAMETER: 1 FT A/N: 498739	D3349				
TANK, J-909, DEGASSING, DIAMETER: 2 FT 3 IN; HEIGHT: 3 FT 6 IN, WITH A 3 KW ELECTRIC HEATER A/N: 498739	D4218				
FILTER, J-410, FUEL GAS A/N: 498739	D3955				
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 498739	D3613			HAP: (10) [40CFR 63 Subpart CC, #5A,5-25-2001]	H23.19



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

Description	ID No.	Connected To	RECLAIM Source Type	Emissions and Requirements	Conditions
<b>Process 5: CATALYTIC REFORMING</b>					P13.1
<b>System 2: CCRU HEATING SYSTEM</b>					
HEATER , CCR FEED, F-410, NATURAL GAS/ REFINERY GAS, VAPORIZED LPG, PROCESS GAS, WITH LOW NOX BURNER, 177 MMBTU/HR WITH  BURNER, JOHN ZINK, MODEL PSFR-10 (16) AND PSFR- 12 (8), WITH LOW NOX BURNER A/N: 493750	D471	C1967 D1954 D1958 D3335 D3336 D3337 D3338	NOx: MAJOR SOURCE SOx: MAJOR SOURCE	CO: 2000 PPMV REFINERY/ NATURAL GAS (5) [RULE 407,4-2-1982]; CO: 10 PPMV REFINERY/ NATURAL GAS (4) [RULE 1303(a)(1)-BACT, 5-10-1996] NOX: 5 PPMV REFINERY/NATURAL GAS (4) [RULE 2005,4-20-2001; RULE 2005,5-6-2005]; PM: 0.1 GRAINS/SCF REFINERY/ NATURAL GAS (5A) [RULE 409,8-7-1981] PM: (9) [RULE 404,2-7-1986]	A63.17, A99.7, A99.10, A195.4, A195.5, B59.3, B61.6, C1.105, C1.106, C1.107, C1.108, D29.8, D82.5, D90.20, D90.37, E54.12, H23.2, H23.50
HEATER , CATALYTIC REFORMING, F-430, NATURAL GAS/ REFINERY GAS, VAPORIZED LPG, PROCESS GAS, WITH LOW NOX BURNER, 123 MMBTU/HR WITH  BURNER, JOHN ZINK, MODEL PSFR-10 (12) AND PSFR-12 (6), WITH LOW NOX BURNER A/N: 493753	D472	C1967 D1954 D1958 D3335 D3336 D3337 D3338	NOx: MAJOR SOURCE SOx: MAJOR SOURCE	CO: 2000 PPMV REFINERY/ NATURAL GAS (5) [RULE 407,4-2-1982]; CO: 10 PPMV REFINERY/ NATURAL GAS (4) [RULE 1303(a)(1)-BACT, 5-10-1996] NOX: 5 PPMV REFINERY/NATURAL GAS (4) [RULE 2005,4-20-2001; RULE 2005,5-6-2005]; PM: 0.1 GRAINS/SCF REFINERY/ NATURAL GAS (5A) [RULE 409,8-7-1981] PM: (9) [RULE 404,2-7-1986]	A63.17, A99.7, A99.10, A195.4, A195.5, B59.3, B61.6, C1.105, C1.106, C1.107, C1.110, D29.8, D82.5, D90.20, D90.37, E54.12, H23.2, H23.50
HEATER , CATALYTIC REFORMING, F-440, NATURAL GAS/ REFINERY GAS, VAPORIZED LPG, PROCESS GAS, WITH LOW NOX BURNER, 88 MMBTU/HR WITH  BURNER, JOHN ZINK, MODEL PSFR-10 (12) AND PSFR- 12 (6), WITH LOW NOX BURNER A/N: 493746	D473	C1967 D1954 D1958 D3335 D3336 D3337 D3338	NOx: MAJOR SOURCE SOx: MAJOR SOURCE	CO: 2000 PPMV REFINERY/ NATURAL GAS (5) [RULE 407,4-2-1982]; CO: 10 PPMV REFINERY/ NATURAL GAS (4) [RULE 1303(a)(1)-BACT, 5-10-1996] NOX: 5 PPMV REFINERY/NATURAL GAS (4) [RULE 2005,4-20-2001; RULE 2005,5-6-2005]; PM: 0.1 GRAINS/SCF REFINERY/ NATURAL GAS (5A) [RULE 409,8-7-1981] PM: (9) [RULE 404,2-7-1986]	A63.17, A99.7, A99.10, A195.4, A195.5, B59.3, B61.6, C1.105, C1.106, C1.107, C1.111, D29.8, D82.5, D90.20, D90.37, E54.12, H23.2, H23.50



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Description	ID No.	Connected To	RECLAIM Source Type	Emissions and Requirements	Conditions
HEATER , CATALYTIC REFORMING, F-420, NATURAL GAS/ REFINERY GAS, VAPORIZED LPG, PROCESS GAS, WITH LOW NOX BURNER, 199 MMBTU/HR WITH  BURNER, JOHN ZINK, MODEL PSFR-10 (32), WITH LOW NOX BURNER, A/N: 493748	D3031	C1967 D1954 D1958 D3335 D3336 D3337 D3338	NOx: MAJOR SOURCE SOx: MAJOR SOURCE	CO: 2000 PPMV REFINERY/ NATURAL GAS (5) [RULE 407,4-2-1982]; CO: 10 PPMV REFINERY/ NATURAL GAS (4) [RULE 1303(a)(1)-BACT, 5-10-1996] NOX: 5 PPMV REFINERY/NATURAL GAS (4) [RULE 2005,4-20-2001; RULE 2005,5-6-2005]; PM: 0.1 GRAINS/SCF REFINERY/ NATURAL GAS (5A) [RULE 409,8-7-1981] PM: (9) [RULE 404,2-7-1986]	A63.17, A99.7, A99.10, A195.4, A195.5, B59.3, B61.6, C1.105, C1.106, C1.107, C1.109, D29.8, D82.5, D90.20, D90.37, E54.12, H23.2, H23.50
SELECTIVE CATALYTIC REDUCTION, R-429, HITACHI ZOSEN, WITH CERAMIC MONOLITHIC HONEYCOMB NOXNON 700 CATALYST OR APPROVED EQUIVALENT CATALYST, 536.7 CU. FT. TOTAL WITH  AMMONIA INJECTION, 29% AQUEOUS AMMONIA A/N: 421111	C1967	D471 D472 D473 S1969 D3031		NH3: 9 PPMV (4) [RULE 1303(a)(1)-BACT,5-10-1996]	A99.6, A195.3, D12.3, D12.11, D29.9, D82.5, E71.3, E193.5
STACK, HEIGHT: 185 FT; DIAMETER: 9 FT 2 IN A/N: 421111	S1969	C1967			

**PROCESS CONDITIONS:**

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

Contaminant	Rule	Rule/Subpart
Benzene	40CFR61,	SUBPART FF

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

[Processes subject to this condition: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 16]

**SYSTEM CONDITIONS:**

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



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Contaminant	Rule	Rule/Subpart
VOC	District Rule	1123

**[RULE 1123, 12-7-1990]**

[Systems subject to this condition : Process 1, System 3, 5, 13, 17; Process 2, System 1, 5, 6; Process 3, System 1, 5; Process 4, System 1, 3, 5, 7, 9, 11, 13; Process 5, System 1; Process 6, System 4; Process 7, System 2, 4, 7; Process 8, System 1, 2, 5, 7, 8, 10; Process 9, System 1, 2; Process 10, System 1, 4; Process 12, System 2, 4, 7, 9, 10, 11, 12, 13, 16, 17, 18, 22, 26, 27; Process 20, System 3, 4, 7, 10, 11, 12, 14, 18, 19, 23; Process 21, System 13, 14, 16, 18]

**S15.7** 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 and/or flare system except Devices IDs D15, D3195, D3199, D3200 (Process 1, System 3), D106 (Process 1, System 13), D3574, D3371, D3373, D591, D595, D597, D3372, D592, D598 & D602 (Process 6, System 4) that vent to the atmosphere.

This process/system shall not be operated unless the vapor recovery system and/or flare 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 1, System 3, 5, 13, 17; Process 2, System 1; Process 3, System 1, 5; Process 4, System 1, 3, 5, 7, 9, 11, 13; Process 5, System 1; Process 6, System 4; Process 7, System 4, 7; Process 8, System 1, 2, 5, 7, 8, 10; Process 9, System 1, 2; Process 10, System 1; Process 12, System 2, 7, 9, 11, 13, 17, 22, 23, 25, 26, 27; Process 20, System 18, 19; Process 21, System 18]

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

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

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

**[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(b)(2)-Offset, 5-10-1996]** [Systems subject to this condition : Process 1, System 3, 5, 13, 17; Process 2, System 1; Process 3, System 1, 5; Process 4, System 1, 3, 5, 7, 9, 11, 13; Process 5, System 1; Process 6, System 4; Process 7, System 4, 7; Process 8, System 1, 2, 5, 7, 8, 10; Process 9, System 1, 2; Process 10, System 1; Process 12, System 2, 7, 9, 11, 13, 17, 22, 23, 25, 26, 27; Process 20, System 18; Process 21, System 18]



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

- S31.13** The following BACT requirements shall apply to VOC service fugitive components associated with the devices that are covered by application number(s) 308571, 318507, and 377967:

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.

If 98.0 percent or greater of the new (non-bellows seal) valves and the new flange population inspected is found to leak gaseous or liquid volatile organic compounds at a rate less than 500 ppmv for two consecutive months, then the operator may change to a quarterly inspection program with the approval of the District.

The operator shall revert from quarterly to monthly inspection program if less than 98.0 percent of the new (non-bellows seal) valves and the new flange population inspected is found to leak gaseous or liquid volatile organic compounds at a rate less than 500 ppmv.

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

The operator shall keep records of the monthly inspection (quarterly where applicable), subsequent repair, and reinspection, in a manner approved by the District. Records shall be kept and maintained for at least two years, and shall be made available to the Executive Officer or his authorized representative upon request.

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

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

- S31.16** The following BACT requirements shall apply to VOC service fugitive components associated with the devices that are covered by application number(s) 410240, 411356, 411357, 412024, 414153, 414154, 414157, 414158, 421106, 422682, 427936, 454408 & 456768:

The operator shall provide to the District, no later than 60 days after initial startup, a recalculation of the fugitive emissions based on actual components installed and removed from service. The valves and flanges shall be categorized by size and service. The operator shall submit a listing of all new non-bellows seal valves which shall be categorized by tag no., size, type, operating temperature, operating pressure, body material, application, and reasons why bellows seal valves were not used.

All new valves in VOC service, except those specifically exempted by Rule 1173 and those in heavy liquid service as defined in Rule 1173, shall be bellows seal valves, except as approved by the District, 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



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

with alve stems in horizontal position), retrofits/special applications with space limitations, and valves not commercially available.

All new valves and major components in VOC service as defined by Rule 1173, except those specifically exempted by Rule 1173 and those in heavy liquid service as defined in 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.

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.

If 98.0 percent or greater of the new (non-bellows seal) valves and the new flange population inspected is found to leak gaseous or liquid volatile organic compounds at a rate less than 500 ppmv for two consecutive months, then the operator may change to a quarterly inspection program with the approval of the District.

The operator shall revert from quarterly to monthly inspection program if less than 98.0 percent of the new (non-bellows seal) valves and the new flange population inspected is found to leak gaseous or liquid volatile organic compounds at a rate less than 500 ppmv.

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

The operator shall keep records of the monthly inspection (quarterly where applicable), subsequent repair, and reinspection, in a manner approved by the District. Records shall be kept and maintained for at least two years, and shall be made available to the Executive Officer or his authorized representative upon request.

Once Title V permit is issued, records shall be maintained for five years.

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

[Systems subject to this condition : Process 3, System 1; Process 5, System 1; Process 7, System 4; Process 8, System 10; Process 12, System 2, 9, 11, 26; Process 20, System 31; Process 21, System 13]



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

**DEVICE CONDITIONS**

**A63.17** The operator shall limit emissions from this equipment as follows:

Contaminant	Emissions Limit
CO	Less than or equal to 3550 lbs in any calendar month
VOC	Less than or equal to 2590 lbs in any calendar month
PM10	Less than or equal to 5436lbs in any calendar month

For the purposes of this condition, the limit(s) shall be based on the total combined emissions from equipment D471, D472, D473 and D3031.

The operator shall calculate the emission limit(s) for compliance determination purposes for VOC and PM10 based on at least three one-hour source tests using District-approved test methods for emission rates and fuel usage as determined by a RECLAIM-certified fuel meter during the day of the test (0000 - 2400 hours). For compliance determination purposes, CO emissions shall be calculated based on certified continuous monitor, which shall have the capability to show cumulative daily emissions.

The operator shall calculate the emission limit(s) for purposes of determining compliance with the PM10 emission limit specified above, and to avoid double counting of SO2 emission, the PM10 that may be formed due to the reaction of SO2 with NH3 in the sampling impingers used in such analysis shall be deducted and excluded as PM10 emission. This methodology shall be included in a District-approved test protocol and shall be used to calculate PM10 emissions based on source test results.

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

[Devices subject to this condition: D471, D472, D473, D3031]

**A99.6** The 9 PPM NH3 emission limit(s) shall not apply during startup and shutdown.

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

[Devices subject to this condition: C1967, C3696]

**A99.7** The 5 PPM NOX emission limit(s) shall not apply during refractory dryout, startup or shutdown.

**[RULE 2005, 4-20-2001]**

[Devices subject to this condition: D471, D472, D473, D3031, C3780]



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

**A99.10** The 10 PPM CO emission limit(s) shall not apply during refractory dryout, startup or shutdown.

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

[Devices subject to this condition: D471, D472, D473, D3031]

**A195.3** The 9 PPMV NH3 emission limit(s) is averaged over 3 consecutive hours, 3 percent oxygen, dry basis.

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

[Devices subject to this condition: C1967, C3780]

**A195.4** The 5 PPMV NOX emission limit(s) is averaged over 3 consecutive hours @ 3 percent oxygen, dry basis.

**[RULE 2005, 4-20-2001]**

[Devices subject to this condition: D471, D472, D473, D3031]

**A195.5** The 10 PPMV CO emission limit(s) is averaged over 3 consecutive hours @ 3 percent oxygen, dry basis.

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

[Devices subject to this condition: D471, D472, D473, D3031]

**B59.3** The operator shall only use the following material(s) in this device:

Fuel gas: For the purpose of this condition, the term "fuel gas" shall be defined as either refinery gas, or vaporized LPG, or natural gas, or any combination thereof, with a total sulfur content less than 40 ppmv calculated as H2S based on a 4-hr averaging period.

Process gas: For the purpose of this condition, the term "process gas" shall be defined as gas vented from the following devices in the Continuous Catalytic Reforming Unit (Process 5, System 1): D1954, D1958, D3335, D3336, D3337 and D3338.

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

[Devices subject to this condition: D471, D472, D473, D3031]

**B61.6** The operator shall not use fuel gas, except uncombined natural 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



## FACILITY PERMIT TO OPERATE CHEVRON PRODUCTS COMPANY

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

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

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

[Devices subject to this condition: D20, D453, D471, D472, D473, D502, D504, D641, D643, C2158, D2198, D2199, D2207, D2208, D2216, D3031, D3054, C3148, C3493, D3530, D3695, D3778, D3973]

**C1.105** The operator shall limit the duration of cold startups to no more than 48 hour(s).

For the purpose of this condition, the beginning of a cold startup shall be defined as the initial firing of the equipment after its refractory dry-out operation has been completed. If refractory dryout is not required, then the beginning of a cold startup shall be the initial firing of the equipment at ambient temperature.

This limit shall be based on the total combined limit for equipment D471, D472, D473 and D3031.

The operator shall be allowed a total of 144 operating hours after initial furnace firing to complete its refractory dryout operations prior to beginning the startup of the plant.

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

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

[Devices subject to this condition: D471, D472, D473, D3031]

**C1.106** The operator shall limit the duration of startup to no more than 24 hour(s).

For the purpose of this condition, startup shall be defined as startup other than a cold startup.

This limit shall be based on the total combined limit for equipment D471, D472, D473 and D3031 for each event.

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

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

[Devices subject to this condition: D471, D472, D473, D3031]

**C1.107** The operator shall limit the duration of shutdown to no more than 6 hour(s).

This limit shall be based on the total combined limit for equipment D471, D472, D473 and D3031 for each event.

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

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

[Devices subject to this condition: D471, D472, D473, D3031]



## FACILITY PERMIT TO OPERATE CHEVRON PRODUCTS COMPANY

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

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

**C1.108** The operator shall limit the firing rate to no more than 177 MM Btu per hour.

To comply with this condition, the operator shall install and maintain a(n) a continuous fuel flow meter for both the natural gas and refinery gas streams fed to the duct burner(s). The operator shall install a continuous or semi-continuous HHV analyzer for refinery gas and use the RECLAIM default HHV value for natural gas. Monitoring requirements shall not apply during regular calibration checks of the system, or routine maintenance and repair lasting 60 minutes or less.

The operator shall also install and maintain a device to continuously record the parameter being measured except during calibration checks, or routine maintenance and repair lasting 60 minutes or less.

In the event of a monitoring and/or recording system malfunction or failure, which exceeds 24 hours, the operator shall notify the Executive Officer within 24 hours or the next working day. During the system failure, compliance with the requirement to continuously monitor and record data is waived for a period not to exceed 96 consecutive hours. Such waiver is extended beyond 96 consecutive hours only if a petition for an interim variance is filed in accordance with Regulation V and shall terminate at the time the Hearing Board acts upon such variance petition.

This limit shall be based on a rolling 1 hour averaging period.

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

[Devices subject to this condition: D471]

**C1.109** The operator shall limit the firing rate to no more than 199 MM Btu per hour.

To comply with this condition, the operator shall install and maintain a(n) a continuous fuel flow meter for both the natural gas and refinery gas streams fed to the duct burner(s). The operator shall install a continuous or semi-continuous HHV analyzer for refinery gas and use the RECLAIM default HHV value for natural gas. Monitoring requirements shall not apply during regular calibration checks of the system, or routine maintenance and repair lasting 60 minutes or less.

The operator shall also install and maintain a device to continuously record the parameter being measured except during calibration checks, or routine maintenance and repair lasting 60 minutes or less.

In the event of a monitoring and/or recording system malfunction or failure, which exceeds 24 hours, the operator shall notify the Executive Officer within 24 hours or the next working day. During the system failure, compliance with the requirement to continuously monitor and record data is waived for a period not to exceed 96 consecutive hours. Such waiver is extended beyond 96 consecutive hours only if a petition for an interim variance is filed in accordance with Regulation V and shall terminate at the time the Hearing Board acts upon such variance petition.

This limit shall be based on a rolling 1 hour averaging period.

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

[Devices subject to this condition: D3031]



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

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

**C1.110** The operator shall limit the firing rate to no more than 123 MM Btu per hour.

To comply with this condition, the operator shall install and maintain a(n) a continuous fuel flow meter for both the natural gas and refinery gas streams fed to the duct burner(s). The operator shall install a continuous or semi-continuous HHV analyzer for refinery gas and use the RECLAIM default HHV value for natural gas. Monitoring requirements shall not apply during regular calibration checks of the system, or routine maintenance and repair lasting 60 minutes or less.

The operator shall also install and maintain a device to continuously record the parameter being measured except during calibration checks, or routine maintenance and repair lasting 60 minutes or less.

In the event of a monitoring and/or recording system malfunction or failure, which exceeds 24 hours, the operator shall notify the Executive Officer within 24 hours or the next working day. During the system failure, compliance with the requirement to continuously monitor and record data is waived for a period not to exceed 96 consecutive hours. Such waiver is extended beyond 96 consecutive hours only if a petition for an interim variance is filed in accordance with Regulation V and shall terminate at the time the Hearing Board acts upon such variance petition.

This limit shall be based on a rolling 1 hour averaging period.

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

[Devices subject to this condition: D472]

**C1.111** The operator shall limit the firing rate to no more than 88 MM Btu per hour.

To comply with this condition, the operator shall install and maintain a(n) a continuous fuel flow meter for both the natural gas and refinery gas streams fed to the duct burner(s). The operator shall install a continuous or semi-continuous HHV analyzer for refinery gas and use the RECLAIM default HHV value for natural gas. Monitoring requirements shall not apply during regular calibration checks of the system, or routine maintenance and repair lasting 60 minutes or less.

The operator shall also install and maintain a device to continuously record the parameter being measured except during calibration checks, or routine maintenance and repair lasting 60 minutes or less.

In the event of a monitoring and/or recording system malfunction or failure, which exceeds 24 hours, the operator shall notify the Executive Officer within 24 hours or the next working day. During the system failure, compliance with the requirement to continuously monitor and record data is waived for a period not to exceed 96 consecutive hours. Such waiver is extended beyond 96 consecutive hours only if a petition for an interim variance is filed in accordance with Regulation V and shall terminate at the time the Hearing Board acts upon such variance petition.

This limit shall be based on a rolling 1 hour averaging period.

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

[Devices subject to this condition: D473]



## FACILITY PERMIT TO OPERATE CHEVRON PRODUCTS COMPANY

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

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

- C8.12** The operator shall use this equipment in such a manner that the flow rate being monitored, as indicated below, is not less than 35 gpm.

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

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

This condition shall only apply when the catalyst regeneration system (including D3333) is in use.

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

**[RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997; 40CFR 63 Subpart UUU, 4-20-2006]**

[Devices subject to this condition: D1964]

- C8.13** The operator shall use this equipment in such a manner that the pH being monitored, as indicated below, is not less than 7.2 of the pH scale.

The operator shall monitor the pH of the recirculating caustic solution once a day except during maintenance and breakdown periods.

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

This condition shall only apply when the catalyst regeneration system (including D3333) is in use.

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

**[RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997; 40CFR 63 Subpart UUU, 4-20-2006]**

[Devices subject to this condition: D1964]

- D12.3** The operator shall install and maintain a(n) differential pressure gauge to accurately indicate the differential pressure across the SCR catalyst beds in inches water column.

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

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

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

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

[Devices subject to this condition: C1967, C2210, C2213, C3058, C3533, C3696, C3780]



**FACILITY PERMIT TO OPERATE  
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**SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS**

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

**D12.11** The operator shall install and maintain a(n) temperature reading device to accurately indicate the temperature at the inlet to the SCR.

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

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

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

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

[Devices subject to this condition: C1967, C3533, C3696, C4361]

**D29.8** The operator shall conduct source test(s) for the pollutant(s) identified below.

<b>Pollutant(s) to be tested</b>	<b>Required Test Method(s)</b>	<b>Averaging Time</b>	<b>Test Location</b>
NOX emissions	District method 100.1	District-approved averaging time	Outlet of the SCR serving this equipment
SOX emissions	District Method 100.1 or 6.1	District-approved averaging time	Outlet of the SCR serving this equipment
VOC emissions	District Method 25.1 or 25.3	1 hour	Outlet of the SCR serving this equipment
CO emissions	District Method 100.1 or 10.1	District-approved averaging time	Outlet of the SCR serving this equipment
PM emissions	District Method 5.1, 5.2 or 5.3	District-approved averaging time	Outlet of the SCR serving this equipment
PM10 emissions	EPA Method 201A	District-approved averaging time	Outlet of the SCR serving this equipment

The test shall be conducted when this equipment is operating at 80 percent or greater of its maximum design capacity or within a capacity approved by the District.



## FACILITY PERMIT TO OPERATE CHEVRON PRODUCTS COMPANY

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

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

The test shall be conducted to demonstrate compliance with the emission limits of 5 ppmv NOx and 10 ppmv CO, all at 3 percent oxygen, dry basis, three-hour average.

The test shall be conducted at least every three years to determine the concentration and mass emission rate in pounds per hour for NOx, SOx, ROG, CO, Total PM, and PM10.

The test shall be conducted to determine the oxygen concentration.

The test shall be conducted after District approval of a source test protocol submitted in accordance with Section E- Administrative Conditions.

The test shall be conducted and test report submitted to the District in accordance with Section E - Administrative Conditions.

NOx, SOx, and CO source test data may be substituted with CEMS data. The CEMS data shall be included in the source test report.

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 1401, 5-2-2003; RULE 2005, 4-20-2001; RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997; RULE 407, 4-2-1982**]

[Devices subject to this condition: D471, D472, D473, D3031]

**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
NH3 emissions	Approved District method	District-approved averaging time	Outlet of the SCR

The test shall be conducted when all four heaters vented to this equipment are operating under normal operating conditions.

The test shall be conducted at least annually until the NH3 CEMS to be provided for the equipment is accepted or certified by the District. Once accepted or certified, source test data may be substituted with CEMS data.

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

[Devices subject to this condition: C1967]

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

- CO concentration in ppmv
- NOx concentration in ppmv
- NH3 concentration in ppmv



## FACILITY PERMIT TO OPERATE CHEVRON PRODUCTS COMPANY

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

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

Oxygen concentration in percent volume

CO, NO<sub>x</sub> and NH<sub>3</sub> concentrations shall be corrected to 3 percent oxygen on a dry basis.

The CEMS will convert the actual NO<sub>x</sub> and CO concentrations to mass emission rates (lbs/hr) and record the hourly emission rates on a continuous basis.

The NH<sub>3</sub> CEMS shall be accurate to within plus or minus 20 percent relative accuracy. It shall be calibrated at least once every 12 months or as outlined in the Quality Control and Performance Evaluation plan.

**[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 2012, 5-6-2005; RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997; RULE 407, 4-2-1982]**

[Devices subject to this condition: D471, D472, D473, C1967, D3031, D3778, C3780]

**D90.20** The operator shall continuously monitor the H<sub>2</sub>S concentration in fuel gases before being burned in this device according to the following specifications:

The operator shall use Gas Chromatograph meeting the requirements of 40CFR60 Subpart J to monitor the parameter.

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

The operator may monitor the H<sub>2</sub>S concentration at a single location for fuel combustion devices, if monitoring at this location accurately represents the concentration of H<sub>2</sub>S in the fuel gas being burned in this device.

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

[Devices subject to this condition: D20, D453, D471, D472, D473, D502, D504, D641, D643, D2198, D2199, D2207, D2208, D2216, D3031, D3054, D3530, D3695, D3778, D3973]

**D90.37** The operator shall periodically monitor the H<sub>2</sub>S concentration in CCRU process gas before being burned in this device according to the following specifications:

The Alternative Monitoring Plan (AMP) approved by the United States Environmental Protection Agency (USEPA) on September 24, 2003 for the periodic monitoring and reporting of H<sub>2</sub>S concentration for the CCRU feed stream and the CCRU process gas vent stream to this heater.

In addition, the operator shall also comply with all other requirements of the AMP issued by the USEPA on September 24, 2003 for this heater.

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 A, 5-16-2007; 40CFR 60 Subpart J, 6-24-2008]**

[Devices subject to this condition: D471, D472, D473, D3031]



## FACILITY PERMIT TO OPERATE CHEVRON PRODUCTS COMPANY

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

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

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

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

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

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

[Devices subject to this condition: D1960]

**E54.12** The operator is not required to vent this equipment to the following equipment if all of the requirements listed below are met:

Device ID: C1967 [SELECTIVE CATALYTIC REDUCTION, R-429]

Requirement number 1: The equipment is in either startup or shutdown mode

Requirement number 2: The SCR inlet temperature is less than 570 degrees F

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

[Devices subject to this condition: D471, D472, D473, D3031]

**E71.3** The operator shall only inject aqueous ammonia into this equipment if the flue gas inlet temperature is at least 570 degrees F.

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

[Devices subject to this condition: C1967]

**E193.5** The operator shall construct, operate, and maintain this equipment according to the following specifications:

The operator shall not install and use an "equivalent" catalyst until approval is received in writing from the District.

To establish equivalency of a catalyst, the operator shall submit the following information for the catalyst to the District permitting engineer: manufacturer, description (type), configuration, dimensions (per block), number of blocks, total volume, space velocity, life, vendor performance guarantee, performance curve (versus temperature), minimum operating temperature, estimated SO<sub>2</sub> to SO<sub>3</sub> conversion, estimated NO to NO<sub>2</sub> conversion, and concentration of Rule 1401 TACs.



**FACILITY PERMIT TO OPERATE  
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**SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS**

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

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

[Devices subject to this condition: C1967, C2210, C2213, C2217, C3058]

**H23.2** This equipment is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
H2S	40CFR60, Subpart	J

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

[Devices subject to this condition D20, D453, D471, D472, D473, D502, D504, D641, D643, C1746, C2158, C3012, D3031, C3148, C3493, D3778, D3973, C4116]

**H23.19** This equipment is subject to the applicable requirements of the following rules or regulations:

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

**[RULE 1173, 5-13-1994; RULE 1173, 6-1-2007; 40CFR 60 Subpart GGG, 6-2-2008]**

[Devices subject to this condition : D196, D237, D633, D1047, D1048, D1049, D1054, D1808, D1809, D1929, D1930, D1981, D2042, D2200, D2201, D3522, D3527, D3577, D3579, D3580, D3581, D3583, D3585, D3587, D3589, D3613, D3622, D3634, D3636, D3637, D3638, D3639, D3675, D3676, D3679, D3686, D3726, D3803, D3921, D3969, D3972, D4085, D4107, D4205, D4206, D4264, D4269]

**H23.50** This equipment is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
HAP	40CFR63, Subpart	DDDDD

**[40CFR 63 Subpart DDDDD, 4-1-2013]**

[Devices subject to this condition: D3778, D471, D472, D473, D3031]