



**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 2: Coking and Residual Conditioning</b>					P13.1
<b>System 1: Delayed Coking Unit</b>					S13.2, S15.7, S15.9, S15.10, S31.19
FRACTIONATOR, C-501A, T/T HEIGHT: 139 FT 6 IN; DIAMETER: 27 FT A/N: 388733	D134				
COLUMN, FRACTIONATOR SIDECUT STRIPPER, C-502A/B, STACKED, HEIGHT: 56 FT; DIAMETER: 6 FT 6 IN A/N: 388733	D135				
COLUMN, ABSORBER-STRIPPER, C-503, STACKED, HEIGHT: 168 FT 5 IN; DIAMETER: 11 FT 7 IN A/N: 388733	D137				
ABSORBER, C-504, SPONGE OIL, HEIGHT: 60 FT 6 IN; DIAMETER: 5 FT 6 IN A/N: 388733	D138				
VESSEL, LEAN OIL STILL, C-505, HEIGHT: 89 FT; DIAMETER: 11 FT 7 IN A/N: 388733	D139				
COLUMN, JET SIDECUT STRIPPER, C-510, HEIGHT: 66 FT; DIAMETER: 5 FT A/N: 388733	D140				
COKE DRUM, V-501A, T/T HEIGHT: 68 FT; DIAMETER: 26 FT A/N: 388733	D141			PM: (9) RULE 405, 2-7-1986]	D12.33, D12.34, D28.31, E336.14
COKE DRUM, V-501B, T/T HEIGHT: 68 FT; DIAMETER: 26 FT A/N: 388733	D142			PM: (9) RULE 405, 2-7-1986]	D12.33, D12.34, D28.31, E336.14
COKE DRUM, V-501C, T/T HEIGHT: 68 FT; DIAMETER: 26 FT A/N: 388733	D143			PM: (9) RULE 405, 2-7-1986]	(D12.33, D12.34, D28.31, E336.14
COKE DRUM, V-501D, T/T HEIGHT: 68 FT; DIAMETER: 26 FT A/N: 388733	D144			PM: (9) RULE 405, 2-7-1986]	D12.33, D12.34, D28.31, E336.14
COKE DRUM, V-501E, T/T HEIGHT: 68 FT; DIAMETER: 26 FT A/N: 388733	D145			PM: (9) RULE 405, 2-7-1986]	D12.33, D12.34, D28.31, E336.14
COKE DRUM, V-501F, T/T HEIGHT: 68 FT; DIAMETER: 26 FT A/N: 388733	D146			PM: (9) RULE 405, 2-7-1986]	D12.33, D12.34, D28.31, E336.14
ACCUMULATOR, V-503, FRACTIONATOR OVERHEAD, WITH WATER LEG, LENGTH: 30 FT; DIAMETER: 11 FT A/N: 388733	D148				



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ACCUMULATOR, V-504A, COMPRESSOR INTERSTAGE, WITH WATER LEG, BOTTOM SECTION; T/T HEIGHT: 10 FT; DIAMETER: 9 FT 6 IN; TOP SECTION; T/T HEIGHT: 5 FT., DIAMETER 4 FT 6 IN A/N: 388733	D149				
DRUM, V-505, ABSORBER-STRIPPER FEED, WITH WATER LEG, LENGTH: 27 FT; DIAMETER: 10 FT A/N: 388733	D150				
ACCUMULATOR, V-507, LEAN OIL STILL OVERHEAD, LENGTH: 12 FT; DIAMETER: 5 FT A/N: 388733	D151				
VESSEL, V-508, COKE CONDENSATE, LENGTH: 10 FT; DIAMETER: 5 FT A/N: 388733	D152				
VESSEL, TAIL GAS SEPARATOR, V-518, HEIGHT: 8 FT; DIAMETER: 4 FT 6 IN A/N: 388733	D153				
TANK, T-205, FEED, CHEMICAL ADDITIVE, 5700 GALS; DIAMETER: 10 FT; HEIGHT: 10 FT 2 IN A/N: 388733	D156				
PIT, COKE, 3 SECTIONS, INCLUDING 2 CLEAR WATER SUMPS, WIDTH: 49 FT; DEPTH: 35 FT; LENGTH: 287 FT A/N: 388733	D158				H23.6
COMPRESSOR, K-501A, FRACTIONATOR OVERHEAD ACCUMULATOR OFF-GAS, TWO-STAGE, CENTRIFUGAL WITH DRY GAS SEAL VENTED TO A FUEL GAS SYSTEM; 13,000 BHP, A/N: 388733	D3261				H23.47
FILTER, K-505 A/N: 388733	D3262				
FILTER, FRACTIONATOR PUMP AROUND STRAINERS, K-535A A/N: 388733	D3263				
FILTER, FRACTIONATOR PUMP AROUND STRAINERS, K-535B A/N: 388733	D3264				
FILTER, K-505A A/N: 388733	D3828				
POT, CONDENSATE, V-523, T/T DIAMETER: 3 FT; HEIGHT: 7 FT 6 IN A/N: 388733	D4092				



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Description	ID No.	Connected To	RECLAIM Source Type	Emissions and Requirements	Conditions
FLASH DRUM, V-524, 15 PSI STEAM, DIAMETER: 4 FT; LENGTH: 12 FT A/N: 388733	D4093				
FILTER, FUEL GAS, K-506, HEIGHT: 9 FT 1 IN; DIAMETER: 1 FT 10 IN A/N: 388733	D4209				
FILTER, FUEL GAS, K-506a, HEIGHT: 9 FT 1 IN; DIAMETER: 1 FT 10 IN A/N: 388733	D4210				
KNOCK OUT POT, V-521, T/T. HEIGHT: 3 FT 6 IN; DIAMETER: 1 FT 4 IN A/N: 388733	D4372				
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 388733	D3580			HAP: (10) [40CFR 63 Subpart CC, #5A, 6-23-2003]	H23. 19

**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:

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;



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

Process 10, System 1, 4; Process 12, System 2, 4, 7, 9, 10, 11, 12, 13, 16, 17, 18, 22, 26, 27, 28; Process 20, System 3, 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]

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

All sour gases shall be directed to the sour gas treating unit(s).

This process/system shall not be operated unless the sour gas treating 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 1, System 3, 5, 13; Process 2, System 1; Process 3, System 1; Process 4, System 1, 3, 7, 9, 11, 13; Process 7, System 4; Process 8, System 1, 5; Process 10, System 1; Process 12, System 7; Process 20, System 4, 10, 28, 29, 30, 37]

**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]

**S31.19** The following BACT requirements shall apply to VOC service fugitive components associated with the devices that are covered by application number(s) 448244 and 458897:



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

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

All new valves in VOC service shall be 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 valve failure could pose safety hazard (e.g., drain valves with valve stems in horizontal position), retrofits/special applications with space limitations, and valves not commercially available.

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

All new components in VOC service as defined by 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. Components shall be defined as any valve, flange, fitting, pump, compressor, pressure relief device, diaphragm, hatch, sight-glass, and meter, which are not exempted by Rule 1173.

The following leaks shall be repaired within 7 calendar days -- all light liquid/gas/vapor components leaking at a rate of 500 to 10,000 ppm, heavy liquid components leaking at a rate of 100 to 500 ppm and greater than 3 drops/minute, unless otherwise extended as allowed under Rule 1173.

The following leaks shall be repaired within 2 calendar days -- any leak between 10,000 to 25,000 ppm, any atmospheric PRD leaking at a rate of 200 to 25,000 ppm, unless otherwise extended as allowed under Rule 1173.

The following leaks shall be repaired within 1 calendar day -- any leak greater than 25,000 ppm, heavy liquid leak greater than 500 ppm, or light liquid leak greater than 3 drops per minute.

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 ppmv 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 revert from quarterly to monthly inspection program if less than 98.0 percent of the new valves and the new flange population inspected are found to leak gaseous or liquid volatile organic compounds at a rate less than 500 ppmv. This condition shall not apply to leakless valves.

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

The operator shall provide to the District, prior to initial startup, a list of all non-leakless type valves that were installed. The list shall include the tag numbers for the valves and reasons why leakless valves were not used. The operator shall not startup the equipment prior to the District's approval for the use of all non-leakless valves.



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

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

[**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, 5]

### DEVICE CONDITIONS

**D12.33** The operator shall install and maintain a(n) pressure sensing device to accurately indicate the pressure in the coke drum.

The operator shall also install and maintain a device to continuously record the parameter being measured. The pressure shall be recorded to a sensitivity level of 0.1 psig.

The range of the measuring device or gauge shall not be greater than zero (0) to fifty (50) psig.

The measuring device or gauge shall be accurate to within plus or minus 5 percent for the sub-range of zero (0) to five (5) psig. It shall be calibrated once every year. When a calibration produces a percentage accuracy of greater than plus or minus 5%, the measuring device shall be calibrated every operating calendar quarter until a subsequent calibration which shows a percentage accuracy of less than plus or minus 5% is achieved.

For the purpose of this condition, continuously record shall be defined as recording the two-minute average pressure at least once every minute during each time period when gas is being released from the coke drum to the Coker Blowdown System (Process 2, System 5) or to the atmosphere, prior to removal of coke from the coke drum.

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

[Devices subject to this condition: D141, D142, D143, D144, D145, D146]

**D12.34** The operator shall install and maintain a(n) sensor to accurately indicate the open or closed position of the valve.

For the purpose of this condition, the "valve" shall be defined as the valve on the atmospheric vent stack for the coke drum.

For the purpose of this condition, the "sensor" shall be defined as a position indicator that sends a signal to the data acquisition system when the valve is in the closed position.

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 minute during each time period when gas is being released from the coke drum to the Coker Blowdown System (Process 2, System 5) or to the atmosphere, prior to removal of coke from the coke drum.



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

[Devices subject to this condition: D141, D142, D143, D144, D145, D146]

**D28.31** The operator shall conduct source test(s) in accordance with the following specifications:

The test shall be conducted every three years.

The test shall be conducted when the coke level in the drum is between 25 and 34 feet of outage (empty space above the coke).

The test shall be conducted to determine the concentration and mass emission of CO, VOC, Solid PM, Total PM, total PM10 and TRS during the venting of the coke drum to the atmosphere during the drum depressurization step of the decoking process, prior to removal of coke from the drum.

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

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

[Devices subject to this condition: D141, D142, D143, D144, D145, D146]

**E336.14** The operator shall vent the vent gases from this equipment as follows:

All blowdown gases from this coke drum shall be directed to the Coker Blowdown System (Process 2, System 5) if the pressure inside the coke drum is greater than or equal to 2 psig.

The operator shall utilize the two-minute average coke drum pressure data recorded according to condition D12.33 to demonstrate compliance with this condition.

This equipment shall not be operated unless the Coker Blowdown System (Process 2, System 5) 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(b)(2)-Offset, 5-10-1996]**

[Devices subject to this condition: D141, D142, D143, D144, D145, D146]

**H23.6** This equipment is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
PM	District Rule	1158

[RULE 1158, 7-11-2008]

[Devices subject to this condition: D158]



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

**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, 2-6-2009; 40CFR 60 Subpart GGG, 6-2-2008]**

[Devices subject to this condition: D196, D237, D633, D1047, D1048, D1049, D1054, D1929, D1930, D3522, D3527, D3580, D3581, D3583, D3585, D3587, D3589, D3613, D3622, D3636, D3638, D3652, D3653, D3675, D3803, D4303, D4353]

**H23.47** This equipment is subject to the applicable requirements of the following rules or regulations:

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

**[RULE 1173, 5-13-1994; RULE 1173, 2-6-2009; 40CFR 60 Subpart GGGa, 6-2-2008]**

[Devices subject to this condition: D3261]