



## FACILITY PERMIT TO OPERATE CONOCOPHILLIPS COMPANY

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

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
<b>Process 14: AIR POLLUTION CONTROL</b>					P18.1
<b>System 1: EAST FLARE SYSTEM</b>					S31.3
FLARE, ELEVATED WITH STEAM INJECTION, SA-4, WITH A JOHN ZINK FLARE TIP AND FOUR CONTINUOUS PILOT BURNERS, HEIGHT: 175 FT DIAMETER: 3 FT A/N 458382	C465	D422 D423 D424 D425 D449 D466 D753			D12.3, D323.2, E193.4, H23.29
VESSEL, WATER SEAL, V-3163, HEIGHT: 19 FT 6 IN; DIAMETER: 12 FT 6 IN A/N: 458382	D933				
TANK, HOLDING, V-3164, WATER SEAL OVERFLOW, LENGTH: 10 FT; DIAMETER: 4 FEET 6 IN A/N: 458382	D937				
KNOCK OUT POT, V-2254 A/N 458382	D466	C465 D938 D939			
KNOCK OUT POT, V-3052 A/N 458382	D467				
KNOCK OUT POT, V-3053 A/N 458382	D468				
KNOCK OUT POT, F-307, HEIGHT: 17 FT; DIAMETER: 6 FT 6 IN A/N 458382	D753	C465 D938 D939			
FUGITIVE EMISSIONS, MISCELLANEOUS A/N 458382	D876			<b>HAP: (10) [40CFR 63 Subpart CC, #5A, 6-23-2003]</b>	H23.1
<b>Process 14: AIR POLLUTION CONTROL</b>					P18.1
<b>System 2: WEST FLARE SYSTEM</b>					S31.3
FLARE, SA-6, WITH A JOHN ZINK FLARE TIP, THREE AUTOMATIC STEAM SUPPLY CONTROLS, A VAPOR SEAL, HEIGHT: 175 FT; DIAMETER: 2 FT 6 IN A/N 458383	C469	D754 D755 D756			D12.3, D323.2, E193.4, H23.29

* (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 limits (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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KNOCK OUT POT, V-2540 A/N 458383	D470	C469			
KNOCK OUT POT, 120-V-22, HEIGHT: 20 FT; DIAMETER: 12 FT A/N 458383	D754	C469 D938 D939			
VESSEL, WATER SEAL, 120-V-32, HEIGHT: 18 FT; DIAMETER: 11 FT 11 IN A/N 458383	D755	C469			
TANK, HOLDING, 120-V-34, WATER SEAL OVERFLOW, 4800 GALS; DIAMETER: 4 FT 6 IN; LENGTH: 10 FT A/N 458383	D756	C469			
FUGITIVE EMISSIONS, MISCELLANEOUS A/N 458383	D877			<b>HAP: (10) [40CFR 63 Subpart CC, #5A, 6-23-2003]</b>	H23.1
<b>Process 14: AIR POLLUTION CONTROL</b>					P18.1
<b>System 3: FLARE GAS RECOVERY SYSTEM</b>					S15.12, S15.13, S31.3
COMPRESSOR, C-3016, LIQUID RING, DUAL SEALS WITH BARRIER FLUID SYSTEM, 900 CU.FT./MIN A/N: 458384	D938	D422 D423 D424 D425 D449 D466 D753 D754			E73.3, H23.36
COMPRESSOR, C-3017, LIQUID RING, DUAL SEALS WITH BARRIER FLUID SYSTEM, 900 CU.FT./MIN A/N: 458384	D939	D422 D423 D424 D425 D449 D466 D753 D754			E73.3, H23.36
KNOCK OUT POT, V-3166, COMPRESSOR DISCHARGE, LENGTH: 18 FT; DIAMETER: 6 FT 6 IN A/N: 458384	D940				
KNOCK OUT POT, V-3168, SCRUBBER INLET, HEIGHT: 7 FT; DIAMETER: 2 FT A/N: 458384	D941				
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 458384	D942			<b>HAP: (10) [40CFR 63 Subpart CC, #5A, 6-23-2003]</b>	H23.36

\* (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 limits (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
<b>Process 1: CRUDE DISTILLATION</b>					P13.2
<b>System 4: VACUUM FLASH UNIT</b>					S13.5, S15.2, S15.3, S15.4, S15.11, S31.3
TANK, SURGE, V-2250, SR RESIDUE, WITH NATURAL GAS BLANKETING, HEIGHT: 27 FT 6 IN; DIAMETER: 16 FT 3 IN A/N: 472815	D64				
ACCUMULATOR, V-2251, FLASHER OVERHEAD, HEIGHT: 20 FT; DIAMETER: 9 FT A/N: 472815	D65				H23.10
KNOCK OUT POT, STEAM AIR DECOKING QUENCH, V-2253, HEIGHT: 7 FT 8 IN; DIAMETER: 4 FT A/N: 472815	D66				
COLUMN, FLASHER, FR-1, HEIGHT: 127 FT; DIAMETER: 23 FT 6 IN A/N: 472815	D69				
SCRUBBER, DEA, FR-2, VENT GAS A/N: 472815	D70				
COMPRESSOR, FR-501, VENT GAS A/N: 472815	D77				
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 472815	D835			HAP: (10) [40CFR 63 Subpart CC, #5A, 6-23-2003]	H23.22
<b>Process 3: HYDROTREATING</b>					P13.2
<b>System 3: FCC FEED (GAS OIL) HYDRODESULFURIZATION UNIT 120</b>					S13.5, S15.2, S15.3, S15.11 S31.1, S31.3
TANK, SURGE, 120-V-1, FEED, HEIGHT: 20 FT; DIAMETER: 10 FT 6 IN A/N: 467377	D721				
REACTOR, UNIONFINER A, 120-V-2A, HEIGHT: 55 FT 6 IN; DIAMETER: 8 FT A/N: 467377	D722				
REACTOR, UNIONFINER B, 120-V-2B,	D723				

\* (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 limits (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
HEIGHT: 49 FT 3 IN; DIAMETER: 8 FT A/N: 467377					
REACTOR, UNIONFINER GUARD C, 120-V-11, HEIGHT: 65 FT; DIAMETER: 8 FT A/N: 467377	D724				
VESSEL, SEPARATOR, HOT HIGH PRESSURE, 120-V-3, HEIGHT: 13 FT; DIAMETER: 5 FT A/N: 467377	D725				
TANK, SURGE, 120-V-30, WASH WATER, HEIGHT: 12 FT; DIAMETER: 8 FT A/N: 467377	D726				
TANK, HOLDING, 120-V-12, WASH WATER, HEIGHT: 9 FT; DIAMETER: 4 FT 6 IN A/N: 467377	D727				
CARBON ADSORBER, 120-ME-3A/B, ACTIVATED CARBON, TWO IN PARALLEL (ONE SPARE), 55- GALLON CANISTER EACH A/N: 467377	C728	D816			D90.2, E128.1, E153.2, H23.11
FILTER, 120-ME-4, FEED A/N: 467377	D814				
VESSEL, SEPARATOR, COLD HIGH PRESSURE, 120-V-5, HEIGHT: 27 FT; DIAMETER: 3 FT 6 IN A/N: 467377	D730				
TANK, DEGASSING, 120-V-17, SOUR WATER, HEIGHT: 19 FT; DIAMETER: 5 FT 6 IN A/N: 467377	D731				
EJECTOR, UNIONFINER EVACUATION, 120-EJ-1 A/N: 467377	D732				
TANK, SURGE, 120-V-13, LOW PRESSURE FEED, HEIGHT: 14 FT 6 IN; DIAMETER: 6 FT 6 IN A/N: 467377	D733				
VESSEL, SEPARATOR, 120-V-4, HEIGHT: 12 FT; DIAMETER: 5 FT A/N: 467377	D734				

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| * (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 limits (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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### SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
COLUMN, STABILIZER, 120-V-8, HEIGHT: 54 FT; DIAMETER: 5 FT A/N: 467377	D735				
VESSEL, SEPARATOR, COLD LOW PRESSURE, 120-V-6, HEIGHT: 12 FT; DIAMETER: 5 FT A/N: 467377	D736				
COMPRESSOR, HYDROGEN RECYCLE, 120-C-1A A/N: 467377	D738				H23.22
COMPRESSOR, HYDROGEN RECYCLE, 120-C-1B A/N: 467377	D740				H23.22
KNOCK OUT POT, 120-V-14, DEA CONTACTOR FEED, HEIGHT: 8 FT 6 IN; DIAMETER: 2 FT A/N: 467377	D741				
VESSEL, CONTACTOR, DEA, 120-V-15, HEIGHT: 54 FT 6 IN; DIAMETER: 4 FT A/N: 467377	D742				
COMPRESSOR, 120-C-2A, MAKEUP HYDROGEN/OFFGAS A/N: 467377	D748				H23.22
COMPRESSOR, 120-C-2B, MAKEUP HYDROGEN/OFFGAS A/N: 467377	D749				H23.22
TANK, HOLDING, (SUMP), 120-V-23, GRAVITY DRAIN, HEIGHT: 10 FT; DIAMETER: 5 FT A/N: 467377	D816	C728		VOC: 500 PPMV (5) [RULE 1176, 9-13-1996]	H23.11
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 467377	D844			HAP: (10) [40CFR 63 Subpart CC, #5A, 6-23-2003]	H23.22

* (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 limits (e.g. NSPS, NESHAPS, etc.) (10) See Section J for NESHAP/MACT requirements
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\*\* 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:

**PROCESS CONDITIONS**

P13.2 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]

P18.1 All affected devices listed under this process/system shall be used only to receive, recover and/or dispose of vent gases routed from the system(s) or process(es) listed below, in addition to specific devices identified in the "connected to" column:

- Crude Distillation Unit (Process: 1, System: 1)
- Vacuum Flash Unit (Process: 1, System: 4)
- Delayed Coking Unit (Process: 2, System: 1)
- Coker Blowdown (Process: 2, System: 3)
- FCC Feed (Gas Oil) Hydrodesulfurization Unit DHT-3 (Process: 3, System: 1)
- FCC Feed (Gas Oil) Hydrodesulfurization Unit 120 (Process: 3, System: 3)
- Hydrogen Plant (Process: 4, System: 1)
- Gas Production (Process: 5, System: 1, 2, 3, and 4)
- Gas and Water Treatment (Process: 6, System: 1, 2, 3, 4, and 5)
- Sulfur Recovery Unit No. 1 (Process: 7, System: 1)
- Sulfur Recovery Unit No. 2 (Process: 7, System: 2)
- Tail Gas (SCOT) Unit 2 (Process: 7, System: 4)
- Tail Gas (SCOT) Unit No. 1 (Process: 7, System: 5)
- Crude Oil Tank Car Unloading System (Process: 8, System: 1)
- LPG Tank Car Loading and Unloading System (Process: 8, System: 3)



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

Sour Water Oxidizer (Process: 1, System: 3)

[**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]

[Processes subject to this condition : 14]

**SYSTEM CONDITIONS**

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	1123

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

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

S15.2 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 sour gas treating unit located in this system.

This process/system shall not be operated unless the sour 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(a)(1)-BACT, 12-6-2002; **RULE 1303(b)(2)-Offset, 5-10-1996**;  
RULE 1303(b)(2)-Offset, 12-6-2002]

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

S15.3 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 blowdown flare system or flare gas recovery system except Devices IDs D2, D4, D65, D69, D95-D97, D816, D175, D188, D202, D803, D479, D896 that vent 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(a)(1)-BACT, 12-6-2002; **RULE 1303(b)(2)-Offset, 5-10-1996**;  
RULE 1303(b)(2)-Offset, 12-6-2002]



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

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

S15.4 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 sour gas treating unit(s).

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(a)(1)-BACT, 12-6-2002**; **RULE 1303(b)(2)-Offset, 5-10-1996**; **RULE 1303(b)(2)-Offset, 12-6-2002**]

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

S15.11 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 except device ID's D175, D188, D202, and D896 that vent to atmosphere.

This process/system shall not be operated unless the above air pollution control equipment (consisting of two compressors operating independently or concurrently at any given time) 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(a)(1)-BACT, 12-6-2002**; **RULE 1303(b)(2)-Offset, 5-10-1996**; **RULE 1303(b)(2)-Offset, 12-6-2002**]

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

S15.12 The vent gases from all affected devices of this process/system shall be vented as follows:

All sour gases during normal operation shall be directed to the sour gas treating unit located in either the Vacuum Flasher Unit (Process 1, System 4), or the Hydrodesulfurization Unit (Process 3, System 3).

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

[Systems subject to this condition : Process 14, System 3]



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

S15.13 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 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(a)(1)-BACT, 12-6-2002**]

[Systems subject to this condition : Process 14, System 3]

S31.1 The following BACT requirements shall apply to VOC service fugitive components associated with the devices that are covered by application number(s) 325725:

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.

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 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.

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

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 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 of each new valve in VOC service.



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[**RULE 1173, 5-13-1994**; **RULE 1173, 2-6-2009**; **RULE 1303(a)(1)-BACT, 5-10-1996**; **RULE 1303(a)(1)-BACT, 12-6-2002**; **RULE 1303(b)(2)-Offset, 5-10-1996**; **RULE 1303(b)(2)-Offset, 12-6-2002**; **40CFR60 Subpart GGG, 6-2-2008**]

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

S31.3 The following BACT requirements shall apply to VOC service fugitive components associated with the devices that are covered by application number(s) 458382, 458383, 458384, 472815, 467377 and 464152:

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 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, application, and reasons why bellows seal valves were not used.

The operator shall provide to the District, no later than 90 days after initial startup, 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.

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, and 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, 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.



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

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.

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

All pressure relief valves shall be connected to a closed vent system.

All new light liquid pumps shall utilize double seals and be connected to a closed vent system.

All compressors shall be equipped with a seal system with a higher pressure barrier fluid.

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

[Systems subject to this condition : Process 1, System 4; Process 2, System 1; Process 3, System 3; Process 14, System 1, 2,3]

### DEVICE CONDITIONS

D12.3 The operator shall install and maintain a(n) thermocouple to accurately indicate the presence of a flame at the pilot light:

[**RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997**; **40CFR60 Subpart A, 5-16-2007**]

[Devices subject to this condition : C465, C469]

D90.2 The operator shall periodically monitor the hydrocarbon concentration at the outlet of the carbon canister according to the following specifications:

The operator shall use a diffusion sensor, or flame-ionization system, or an infra-red ionization ultra-violet ionization system, or a District approved 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.

[**RULE 1176, 9-13-1996**; **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 : C728]

D323.2 The operator shall conduct an inspection for visible emissions from all stacks and other emission points of this



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

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

equipment whenever there is a public complaint of visible emissions, whenever visible emissions are observed, and on a semiannual basis, at least, unless the equipment did not operate during the entire semiannual period. The routine annual inspection shall be conducted while the equipment is in operation and during daylight hours.

If any visible emissions (not including condensed water vapor) are detected that last more than three minutes in any one hour, the operator shall verify and certify within 24 hours that the equipment causing the emission and any associated air pollution control equipment are operating normally according to their design and standard procedures and under the same conditions under which compliance was achieved in the past, and either:

- 1). Take corrective action(s) that eliminates the visible emissions within 24 hours and report the visible emissions as a potential deviation in accordance with the reporting requirements in Section K of this permit; or
- 2). Have a CARB-certified smoke reader determine compliance with the opacity standard, using EPA Method 9 or the procedures in the CARB manual "Visible Emission Evaluation", within three business days and report any deviations to AQMD.

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

- 1). Stack or emission point identification;
- 2). Description of any corrective actions taken to abate visible emissions;
- 3). Date and time visible emission was abated; and
- 4). All visible emission observation records by operator or a certified smoke reader.

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

[Devices subject to this condition : C465, C469, D796, D798, D799]

E73.3 Notwithstanding the requirements of Section E conditions, the operator is not required to use both of the flare gas recovery compressors concurrently if:

The load on the flare gas recovery system is not sufficient to require both compressors to be online.

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

[Devices subject to this condition : D938, D939].

E128.1 The operator shall keep all spent carbon in a tightly covered container which shall remain closed except when it is



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SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

being transferred into or out of the container.

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

[Devices subject to this condition : C517, C519, C520, C521, C728, C830]

E153.2 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 1176, 9-13-1996**; **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 : C517, C519, C520, C521, C728, C830]

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.

[**40CFR60 Subpart A, 5-16-2007**]

[Devices subject to this condition : C465, C469]

H23.1 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, 2-6-2009**]

[Devices subject to this condition : D876, D877, D945]

H23.10 This equipment is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
VOC	District Rule	465
Sulfur compounds	District Rule	465

[**RULE 465, 8-13-1999**]



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SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

[Devices subject to this condition : D65]

H23.11 This equipment is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
VOC	District Rule	1176

[**RULE 1176, 9-13-1996**]

[Devices subject to this condition : C728, D816]

H23.22 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; 40CFR60 Subpart GGG, 6-2-2008**]

[Devices subject to this condition : D738, D740, D748, D749, D832, D834, D835, D838, D842, D844, D957]

H23.29 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 : C465, C469]

H23.36 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 : D938, D939, D942]



## 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.	Conn To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
<b>Process 9 : WASTEWATER TREATMENT</b>					P13.2
<b>System 1 : STORM/PROCESS UNIT WASTEWATER TREATMENT</b>					S13.6
OIL WATER SEPARATOR, NO. 1, OIL/WATER, WITH A FIXED COVER A/N 501261 Permit to Construct Issued: TBD	D336	C719		HAP: (10)[40CFR 63 Subpart CC, #2, 6-23-2003] ; VOC: 500 PPMV (5)[RULE 1176, 9-13-1996]; VOC: 500 PPMV (8) [40CFR60Subpart QQQ, 10-17-2000]	H23.13
SCRUBBER, PACKED COLUMN WITH PALL RINGS, WATER OR WASTEWATER (ONCE THROUGH), HEIGHT: 8 FT; DIAMETER: 10 IN A/N 501261 Permit to Construct Issued: TBD	C719	D336 C519			C8.6
OIL WATER SEPARATOR, NO. 2, OIL/WATER, WITH A FIXED COVER A/N 501261 Permit to Construct Issued: TBD	D337	C720		HAP: (10)[40CFR 63 Subpart CC, #2, 6-23-2003] ; VOC: 500 PPMV (5)[RULE 1176, 9-13-1996]; VOC: 500 PPMV (8) [40CFR60Subpart QQQ, 10-17-2000]	H23.13
SCRUBBER, PACKED COLUMN WITH PALL RINGS, WATER OR WASTEWATER (ONCE THROUGH), HEIGHT: 8 FT; DIAMETER: 10 IN A/N 501261 Permit to Construct Issued: TBD	C720	D337 C520			C8.6
SUMP, PUMP STRUCTURE, NO. 3, STORM/PROCESS WATER, CONCRETE WITH FIXED COVER AND FLAME ARRESTOR A/N 501261 Permit to Construct Issued: TBD	D338	C521 D773		HAP: (10)[40CFR 63 Subpart CC, #2, 6-23-2003] ; VOC: 500 PPMV (5)[RULE 1176, 9-13-1996]; VOC: 500 PPMV (8) [40CFR60Subpart QQQ, 10-17-2000]	H23.13
SUMP, OIL AND WATER, FIXED COVER, WIDTH: 5 FT; DEPTH: 6 FT 7 IN; LENGTH: 10 FT A/N 501261 Permit to Construct Issued: TBD	D339	C521			H23.13
SUMP, PROCESS WATER, CONCRETE WITH OPEN TOP, WIDTH: 15 FT; DEPTH 8 FT 6 IN; LENGTH: 15 FT A/N 501261 Permit to Construct Issued: TBD	D340				

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| <p>* (1) Denotes RECLAIM emission factor</p> <p>(3) Denotes RECLAIM concentration limit</p> <p>(5)(5A)(5B) Denotes command and control emission limit</p> <p>(7) Denotes NSR applicability limit</p> <p>(9) See App B for Emission Limits</p> | <p>(2) Denotes RECLAIM emission rate</p> <p>(4) Denotes BACT emission limit</p> <p>(6) Denotes air toxic control rule limit</p> <p>(8)(8A)(8B) Denotes 40 CFR limits (e.g. NSPS, NESHAPS, etc.)</p> <p>(10) See Section J for NESHAP/MACT requirements</p> |
|---|--|

\*\* 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.	Conn To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
SUMP, STORM WATER, CONCRETE WITH OPEN TOP, WIDTH: 15 FT; DEPTH: 8 FT 6 IN; LENGTH: 20 FT A/N 501261 Permit to Construct Issued: TBD	D341				
TANK, AIR FLOATATION, TK-1601, PROCESS WATER, FIXED ROOF, HEIGHT: 16 FT; DIAMETER: 26 FT A/N 501261 Permit to Construct Issued: TBD	D342	C517		VOC: 500 PPMV (5)[ <b>RULE 1176, 9-13-1996</b> ]	
TANK, AIR FLOATATION, TK-1602, PROCESS WATER, FIXED ROOF, HEIGHT: 16 FT; DIAMETER: 26 FT A/N 501261 Permit to Construct Issued: TBD	D344	C517		VOC: 500 PPMV (5)[ <b>RULE 1176, 9-13-1996</b> ]	
RESERVOIR, STORM WATER, WITH A 21 FT. DIKE, 193000 BBL A/N 501261 Permit to Construct Issued: TBD	D345				
SCREEN, CLASSIFYING, STEEL BAR TYPE, DR-4201, HEIGHT: 4 FT, WIDTH: 3 FT, MANUALLY CLEANED A/N 501261 Permit to Construct Issued: TBD	D346				
CARBON ADSORBER, (THREE IN PARALLEL), ACTIVATED CARBON, 150 LBS A/N 501261 Permit to Construct Issued: TBD	C517	D342 D344			D90.1, E128.1, E153.2
CARBON ADSORBER, ACTIVATED CARBON, 150 LBS A/N 501261 Permit to Construct Issued: TBD	C519	C719			D90.3, E128.1, E153.2
CARBON ADSORBER, ACTIVATED CARBON, 150 LBS A/N 501261 Permit to Construct Issued: TBD	C520	C720			D90.3, E128.1, E153.2

\* (1) Denotes RECLAIM emission factor (2) Denotes RECLAIM emission rate  
 (3) Denotes RECLAIM concentration limit (4) Denotes BACT emission limit  
 (5)(5A)(5B) Denotes command and control emission limit (6) Denotes air toxic control rule limit  
 (7) Denotes NSR applicability limit (8)(8A)(8B) Denotes 40 CFR limits (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.	Conn To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
TANK, AIR FLOATATION, TK-1611, STORM WATER, FIXED ROOF, HEIGHT: 16 FT; DIAMETER: 26 FT A/N 501261 Permit to Construct Issued: TBD	D813				
SUMP, API INLET BOX, STORM/PROCESS WASTEWATER, CONCRETE, FIXED COVER, WITH VAPOR PATH COMMON TO INLET CHANNEL & PUMP STRUCTURE A/N 501261 Permit to Construct Issued: TBD	D773	D338 C521		<b>HAP:</b> (10)[40CFR 63 Subpart CC, #2, 6-23-2003] ; <b>VOC:</b> 500 PPMV (5)[ <b>RULE 1176, 9-13-1996</b> ]	H23.13
SCREEN, CLASSIFYING, WIRE MESH TYPE, 1-1/2 INCH OPENINGS, HEIGHT: 4 FT; WIDTH: 3 FT, MANUALLY CLEANED A/N 501261 Permit to Construct Issued: TBD	D774				
SCREEN, CLASSIFYING, WIRE MESH TYPE, 1-1/2 INCH OPENINGS, HEIGHT: 2 FT 8 IN; WIDTH: 3 FT 4-1/2 IN, MANUALLY CLEANED A/N 501261 Permit to Construct Issued: TBD	D775				
TANK, FIXED ROOF, TK-2529, API SLUDGE, 143 BBL; DIAMETER: 10 FT; HEIGHT: 11 FT A/N 501261 Permit to Construct Issued: TBD	D829	C830		<b>VOC:</b> 500 PPMV (5)[ <b>RULE 1176, 9-13-1996</b> ]	
CARBON ADSORBER, ACTIVATED CARBON, 2 TOTAL IN SERIES, 150 LBS A/N 501261 Permit to Construct Issued: TBD	C830	D829			D90.3, E128.1, E153.2
VESSEL, RETENTION, PRESSURIZED, V-2346, 69 BBL; DIAMETER: 6 FT; HEIGHT: 13 FT 10 IN A/N 501261 Permit to Construct Issued: TBD	DX				
VESSEL, RETENTION, PRESSURIZED, V-2347, 69 BBL; DIAMETER: 6 FT; HEIGHT: 13 FT A/N 501261 Permit to Construct Issued: TBD	DY				

- |   |  |
|---|--|
| <p>* (1) Denotes RECLAIM emission factor</p> <p>(3) Denotes RECLAIM concentration limit</p> <p>(5)(5A)(5B) Denotes command and control emission limit</p> <p>(7) Denotes NSR applicability limit</p> <p>(9) See App B for Emission Limits</p> | <p>(2) Denotes RECLAIM emission rate</p> <p>(4) Denotes BACT emission limit</p> <p>(6) Denotes air toxic control rule limit</p> <p>(8)(8A)(8B) Denotes 40 CFR limits (e.g. NSPS, NESHAPS, etc.)</p> <p>(10) See Section J for NESHAP/MACT requirements</p> |
|---|--|

\*\* 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.	Conn To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
VESSEL, RETENTION, PRESSURIZED, V-2381, 69 BBL; DIAMETER: 6 FT; HEIGHT: 13 FT A/N 501261 Permit to Construct Issued: TBD	DZ				
DRAIN SYSTEM COMPONENT A/N 501261 Permit to Construct Issued: TBD	D887			HAP: (10)[40CFR 63 Subpart CC, #2, 6-23-2003] ;	H23.13
FUGITIVE EMISSIONS, MISCELLANEOUS A/N 501261 Permit to Construct Issued: TBD	D945				H23.1
<b>Process 9 : WASTEWATER TREATMENT</b>					P13.2
<b>System 2 : AIR POLLUTION CONTROL SYSTEM</b>					
CARBON ADSORBER, TWO TOTAL (ONE STANDBY), 1000 LBS EACH, MULTIPLE SOURCES, ACTIVATED CARBON, ALSO CONTROLS VAPOR FROM API INLET BOX, INLET AND OUTLET CHANNELS A/N: 502816 Permit to Construct Issued: TBD	C521	D338 D773 D339			D90.3, D94.1, E128.1, E153.2

\* (1) Denotes RECLAIM emission factor (2) Denotes RECLAIM emission rate  
 (3) Denotes RECLAIM concentration limit (4) Denotes BACT emission limit  
 (5)(5A)(5B) Denotes command and control emission limit (6) Denotes air toxic control rule limit  
 (7) Denotes NSR applicability limit (8)(8A)(8B) Denotes 40 CFR limits (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



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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**

P13.2 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**

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	1176

[RULE 1176, 9-13-1996]

[Systems subject to this condition : Process 9, System 1, 3, 4, 5]

**DEVICE CONDITIONS**

C8.6 The operator shall use this equipment in such a manner that the flow rate being monitored, as indicated below, is not less than 2 gpm.

To comply with this condition, the operator shall install and maintain a(n) flow meter to accurately indicate the flow rate being supplied to the scrubber.

The operator shall determine and record the parameter being monitored once every 24 hours.

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

[Devices subject to this condition : C719, C720]



## 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:

- D90.1 The operator shall periodically monitor the hydrocarbon concentration at the outlet of the carbon canister according to the following specifications:

The operator shall monitor once every day.

The operator shall use a diffusion sensor, or flame-ionization system, or an infra-red ionization system, or ultra-violet ionization system, or a District approved OVA, to monitor the parameter.

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

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

[Devices subject to this condition : C517]

- D90.3 The operator shall periodically monitor the hydrocarbon concentration at the outlet of the carbon canister according to the following specifications:

The operator shall monitor once every day.

The operator shall use a diffusion sensor, or flame-ionization system, or an infra-red ionization system, or ultra-violet ionization system, or a District approved OVA, to monitor the parameter.

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

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

[Devices subject to this condition : C519, C520, C521, C830]

- D94.1 The operator shall install, maintain and operate a sampling line at the inlet and outlet of the carbon canisters to allow measurement of hydrocarbon concentration

**[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 : C521]

- 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; RULE 1303(a)(1)-BACT, 12-6-2002]**

[Devices subject to this condition : C517, C519, C520, C521, C728, C830]



**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:

E153.2 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 1176, 9-13-1996; 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 : C517, C519, C520, C521,C728, C830]

H23.1 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 : D876, D877, D945]

H23.13 This equipment is 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]**

[Devices subject to this condition : D336, D337]