



**FACILITY PERMIT TO OPERATE
BP WEST COAST PROD.LLC BP CARSON REF**

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions and Requirements	Conditions
Process 8: HYDROCRACKING					
System 1: HYDROCRACKER UNIT (REACTION SECTION)					S13.2, S31.9, S46.1, S46.2, S56.1
REACTOR, FIRST STAGE, RPV 3500, R-1 A/N 501042 502189	D576				E193.18
REACTOR, FIRST STAGE, RPV 3501, R-2 A/N 501042 502189	D577				E193.18
REACTOR, FIRST STAGE, RPV 3502, R-3 A/N 501042 502189	D578				
REACTOR, SECOND STAGE, RPV 3503, R-4 A/N 501042 502189	D579				
VESSEL, SEPARATOR, HIGH PRESSURE, RPV 3511 A/N 501042 502189	D581				
VESSEL, COALESCER, RPV 3512, HPS WATER COALESCER, INTERNALS REPLACEMENT A/N 501042 502189	D582				
VESSEL, SEPARATOR, LOW PRESSURE, RPV 3513, HEIGHT: 44 FT; DIAMETER: 10 FT A/N 501042 502189	D583				
TANK, SURGE, RPV-5631, FEED; HEIGHT: 40 FT; DIAMETER: 10 FT A/N 501042 502189	D584				
KNOCK OUT POT, EAST FUEL GAS, RPV 3211, HEIGHT: 7 FT 9 IN; DIAMETER: 5 FT A/N 501042 502189	D593				
KNOCK OUT POT, SEPARATOR, EAST, INSTRUMENT AIR, RPV 3636, HEIGHT: 1 FT 8 IN; DIAMETER: 1 FT 2 IN A/N 501042 502189	D594				



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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions and Requirements	Conditions
Process 8: HYDROCRACKING					
TANK, FLASH, RPV 5649, SOUR WATER, HEIGHT: 5 FT 9 IN; DIAMETER: 2 FT 6 IN A/N 501042 502189	D595				
FILTER, RPV 5752. FRACTIONATOR/JET FUEL, HEIGHT: 12 FT; DIAMETER: 24 FT A/N 501042 502189	D596				
FILTER, REACTOR HEATER FUEL GAS, RPV-5753, HEIGHT: 10 FT; DIAMETER: 2 FT A/N 501042 502189	D597				
DRUM, KNOCK OUT, MAKE UP COMPRESSOR, WITH NITROGEN BLANKET, HEIGHT: 6 FT; DIAMETER; 1 FT A/N 501042 502189	D598				
TANK, SURGE, NO. 913, RECYCLE SURGE, 3750 BBL; DIAMETER: 30 FT; HEIGHT: 30 FT A/N 501042 502189	D599			HAP: (10)[40 CFR 63 Subpart CC, #2, 6-23-2003]	
TANK, NORTH MAKE UP COMPRESSOR OIL RESERVOIR, WITH NITROGEN BLANKET, 60 GALS; DIAMETER: 1 FT 8 IN; HEIGHT: 4 FT A/N 501042 502189	D600				
TANK, SOUTH MAKE UP COMPRESSOR RESERVOIR, WITH NITROGEN BLANKET, 600 GALS; DIAMETER: 2 FT 6 IN; HEIGHT: 16 FT A/N 501042 502189	D601				
COMPRESSOR, RW 10 087.6 RECYCLE GAS, CENTRIFUGAL, CLARK MODEL 2 BA, HIGH EFFICIENCY ROTOR A/N 501042 502189	D602				
COMPRESSOR, RW 20 087.32, NO. 1, MAKE-UP GAS, RECIPROCATING TYPE, WORTHINGTON 4 STAGE NO. L-81794 B, MODEL BDO-4 A/N 501042 502189	D603				



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Process 8: HYDROCRACKING					
COMPRESSOR, RW 21 087.32, NO. 2, MAKE-UP GAS, RECIPROCATING TYPE, WORTHINGTON 4 STAGE NO. L-81794 B, MODEL BDO-4 A/N 501042 502189	D604				
VESSEL, COALESCER, RPV 5525, SOUTH FEED COALESCER, HEIGHT: 9 FT 6 IN; DIAMETER: 3 FT 6 IN A/N 501042 502189	D1470				
VESSEL, COALESCER, RPV 5526, NORTH FEED COALESCER, HEIGHT: 9 FT 6 IN; DIAMETER: 3 FT 6 IN A/N 501042 502189	D1471				
FILTER, RPV 5527, NORTH FEED, HEIGHT: 5 FT 11 IN; DIAMETER: 4 FT 6 IN A/N 501042 502189	DX1				
FILTER, RPV 5528, SOUTH FEED, HEIGHT: 5 FT 11 IN; DIAMETER: 4 FT 6 IN A/N 501042 502189	DX2				
FUGITIVE EMISSIONS, MISCELLANEOUS A/N 501042 502189	D2494			HAP: (10)[40 CFR 63 Subpart CC, #5A, 6-23-2003]	H23.3
System 2: HYDROCRACKER UNIT (FRACTIONATION SECTION)					S13.2, S15.6, S31.9, S46.1, S46.2, S56.1
COLUMN, STRIPPER, RPV 3600, HEAVY HYDROCRACKATE, HEIGHT: 60 FT 6 IN; DIAMETER: 6 FT A/N 433307 502190	D607				
COLUMN, FRACTIONATOR, RPV 3601, HEIGHT: 136 FT; DIAMETER: 13 FT A/N 433307 502190	D608	D706			E193.18
COLUMN, DEBUTANIZER TOWER, RPV 3603, HEIGHT: 91 FT; DIAMETER: 6 FT A/N 433307 502190	D610				E193.18

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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions and Requirements	Conditions
Process 8: HYDROCRACKING					
COLUMN, TREATER, RPV 3604, LIQUID AMINE, HEIGHT: 27 FT; DIAMETER: 7 FT A/N 433307 502190	D611				
SCRUBBER, RPV 3605, HEIGHT: 52 FT; DIAMETER: 3 FT A/N 433307 502190	D612				E193.18
SCRUBBER, RPV 3606, AMINE, HEIGHT: 66 FT 6 IN; DIAMETER: 3 FT A/N 433307 502190	D613				E193.18
ACCUMULATOR, RPV 3610, DEBUTANIZER OVERHEAD, LENGTH: 22 FT; DIAMETER: 6 FT A/N 433307 502190	D614				
ACCUMULATOR, RPV 3611, FRACTIONATOR OVERHEAD, LENGTH: 21 FT; DIAMETER: 7 FT A/N 433307 502190	D615				
ACCUMULATOR, RPV 3612, FRACTIONATOR HOT REFLUX, LENGTH: 32 FT; DIAMETER: 8 FT A/N 433307 502190	D616				
SETTLING TANK, RPV 3614, AMINE, LENGTH: 24 FT; DIAMETER: 6 FT 6 IN A/N 433307 502190	D617				
KNOCK OUT POT, RPV 3617, OVERHEAD GAS, HEIGHT: 10 FT 6 IN; DIAMETER: 3 FT A/N 433307 502190	D619				
COMPRESSOR, RW 22 087.32, NO. 3, FRACTIONATOR OVERHEAD GAS, UNIT L-83247 A/N 433307 502190	D622				
COMPRESSOR, RW 23 087.32, NO. 2, FRACTIONATOR OVERHEAD GAS, UNIT L-83248 A/N 433307 502190	D623				



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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions and Requirements	Conditions
Process 8: HYDROCRACKING					
COMPRESSOR, RW 24 087.32, NO. 1, FRACTIONATOR OVERHEAD GAS, UNIT L-83249 A/N 433307 502190	D624				
TOWER, STRIPPER, RPV 6233, DISTILLATE HYDROCRACKATE, HEIGHT: 52 FT 9 IN; DIAMETER: 7 FT A/N 433307 502190	D2070				
FUGITIVE EMISSIONS, MISCELLANEOUS A/N 433307 502190	D2495			HAP: (10)[40 CFR 63 Subpart CC, #5A, 6-23-2003]	H23.3
Process 21: AIR POLLUTION CONTROL PROCESS					
System 3: HYDROCRACKER FLARE SYSTEM					
FLARE, ELEVATED WITH STEAM INJECTION, WITH A LIGHT GAS SEAL & 33 STEAM JETS, NATURAL GAS, SERVING AS BACKUP FOR THE UNITS HANDLED BY THE FCCU FLARE, HEIGHT: 161 FT 3 IN; DIAMETER: 2 FT 6 IN WITH A/N 488607 502191 BURNER, JOH ZINK, MODEL STF-S-30	C1308			CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; PM: 0.1 GRIANS/SCF (5) [RULE 409, 8-7-1981]	D12.15, D323.1, E193.3, E193.25, H23.12, H23.29, I1.1
DRUM, FLARE KNOCKOUT, RPV 3212, LENGTH: 12 FT; DIAMETER: 10 FT A/N 488607 502191	D1309			BENZENE: (10) [40CFR 61 Subpart FF_02, 12-4-2003]; VOC: 500 PPMV (8) [40CFR 61 Subpart FF, 12-4-2003]	H23.12
DRUM, WATER SEAL, RW 7002, LENGTH: 40 FT; DIAMETER: 14 FT A/N 488607 502191	D2804				
VESSEL, AUTOPUMP, HCU FLARE, RW-6879-289.09, HEIGHT: 3 FT 11 IN; DIAMETER: 1 FT A/N 488607 502191	D2867				
VESSEL, AUTOPUMP, HCU FLARE, RW-6879-289.09, HEIGHT: 3 FT 11 IN; DIAMETER: 1 FT A/N 488607 502191	D2868				



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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions and Requirements	Conditions
Process 21: AIR POLLUTION CONTROL PROCESS					
MIST ELIMINATOR, RPV-3214, LENGTH: 28 FT 6 IN; DIAMETER: 12 FT A/N 488607 502191	D1310				
VESSEL, SEPARATOR, RPV 3213, STEAM, HEIGHT: 4 FT; DIAMETER: 2 FT A/N 488607 502191	D1311				
DRUM, RPV 3215, OIL ELIMINATOR, HEIGHT: 6 FT; DIAMETER: 5 FT A/N 488607 502191	D1312				
FUGITIVE EMISSIONS, MISCELLANEOUS A/N 488607 502191	D2544			HAP: (10)[40 CFR 63 Subpart CC, #5A, 6-23- 2003]	H23.3

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 8, System 1, 2]

S15.6 The vent gases from all affected devices of this process/system shall be vented as follows:

All sour gases shall be directed to amine contactor system located within this system.

This process/system shall not be operated unless the amine contactor 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 8, System 2]

S31.9 The following BACT requirements shall apply to VOC service fugitive components associated with the devices that are covered by application number(s) 450816, 450822, 450823, 450824, 450840, 450841, 502188 and 502190:



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

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

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

All new process drains installed as a result of this project shall be equipped with a water seal

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

All new valves in VOC service installed as a result of this project shall be of leakless type, except those specifically exempted by Rule 1173 or approved by the District in the following applications: heavy liquid service, control valves, instrument piping/tubing, applications requiring torsional valve stem motion, applications where failures could pose safety hazards (e.g. drain valves with valve stems in horizontal position), retrofits with space limitations, and valves not commercially available

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

All accessible pumps, compressors, and atmospheric PRDs shall be audio-visually inspected once per 8 hr shift. All accessible components in light liquid/gas/vapor and pumps in heavy liquid service shall be inspected quarterly, except for pumps in light liquid service and valves in gas/vapor or light liquid service which shall be inspected monthly when required per CFR60 Subpart GGG. All inaccessible or difficult to monitor components in light liquid/gas/vapor service shall be inspected annually

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



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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 (and quarterly where applicable), subsequent repair, and reinspection, in a manner approved by the District

The operator shall provide to the District, no later than 90 days after initial startup, a recalculation of the fugitive emissions based on actual components installed and removed from service. The operator shall also submit a complete, as built, piping and instrumentation diagram(s) and copies of requisition data sheets for all non-leakless type valves with a listing of tag numbers and reasons why leakless valves were not used

[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 8, System 1, 2]

S31.10 The following BACT requirements shall apply to VOC service fugitive components associated with the devices that are covered by application number(s) 454566, 454567, 454568, 458598, 458600, 458610, 459257, 459284 & 459286:

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, 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 bellow-sealed 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 with valve 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



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

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 five 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 or equipped with a rupture disc and telltale indicator

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

All compressors to have a seal system with a higher pressure barrier fluid.

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

[Systems subject to this condition: Process 21, System 3]

~~S46.1 The following conditions shall apply to VOC service fugitive components in this system:~~

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

~~For the purpose of this condition, existing component shall be defined as any component that was installed under a permit to construct/operate that was issued prior to June 1, 1993. New component~~



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

~~shall be defined as any component that was installed or modified under a permit to construct that was issued between June 1, 1993 and December 27, 2001.~~

~~All new valves in VOC service shall be of leakless type, except those specifically exempted by Rule 1173 or approved by the District in the following applications: heavy liquid service, control valves, instrument piping/tubing, applications requiring torsional valve stem motion, applications where failures could pose safety hazards (e.g. drain valves with valve stems in horizontal position), retrofits with space limitations, and valves not commercially available.~~

~~All new valves and new major components, as defined in Rule 1173, shall be physically identified in the field with special marking that distinguishes the components from existing. Additionally all new components shall be distinctly identified from existing 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 with a leak greater than 500 ppm but less than 1,000 ppm, as methane, measured above background using EPA Method 21, shall be repaired within 14 days of detection. A leak greater than 1,000 ppm shall be repaired according to Rule 1173.~~

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

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

~~All components are subject to 40CFR60, Subpart GGG.~~

[RULE 1173, 5-13-1994; RULE 1173, 2-6-2009; RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(b)(2)-Offset, 5-10-1996; 40 CFR 60 Subpart GGG, 6-2-2008]

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

~~S46.2 The following conditions shall apply to VOC service fugitive components in this system:~~

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

~~For the purpose of this condition, existing component shall be defined as any component that was installed under a permit to construct/operate that was issued prior to June 1, 1993. New component shall be defined as any component that was installed or modified under a permit to construct that was issued between June 1, 1993 and December 27, 2001.~~



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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 August 29, 2003, a complete, as built, process instrumentation diagram(s) with a listing showing by functional grouping, location, type, accessibility, and application of each new valve in VOC service. The operator shall provide copies of requisition data sheets for all non-leakless type valves with a listing of tag numbers and reasons why leakless valves were not used.~~

~~The operator shall provide to the District, no later than August 29, 2003, a list of the following components broken down into the categories contained in District Form E-18A entitled "Fugitive Component Count": existing components, new components proposed to be installed under applicable permit(s) to construct, and new components that were actually installed under applicable permit(s) to construct.~~

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

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

S56.1 Vent gases from all affected devices of this process/system shall be directed to a gas recovery system, except for venting from those equipment specifically indicated in a permit condition, and for the following vent gases which may be directed to a flare:

- 1) Vent gases during an emergency as defined in Rule 1118(b)(2) ;
- 2) Vent gases during startups or shutdowns as defined in Rule 1118(b)(21) and (b)(19), respectively, provided that all flares have been operated in accordance with flaring minimization procedures as described in Rule 1118(c)(4); and
- 3) Vent gas due to essential operating need, as defined in Rule 1118(b)(4)(a) that would result in a temporary fuel gas system imbalance, or as defined in Rule 1118(b)(4)(c) that would result in streams that cannot be recovered due to incompatibility with recovery system equipment or with refinery fuel gas systems, provided that all flares have been operated in accordance with flaring minimization procedures as described in Rule 1118(c)(4).

The flaring minimization procedures and any subsequent changes shall be submitted to the district as described in Rule 1118(c)(3).

This process/system shall not be operated unless its designated flare(s) and the gas recovery system are both in full use and have valid permits to receive vent gases from this system.

Vent gases shall not be released to the atmosphere except from the existing safety devices or relief valves on the following equipment:

Process 1, System 2: 10, 12, 14
Process 1, System 3: 19, 20, 24 to 26



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- Process 1, System 5: 35, 39, 41, 42, 2726
- Process 1, System 6: 43, 49, 57, 58
- Process 1, System 7: 59, 60, 61, 62
- Process 2, System 1: 74, 77, 2388
- Process 2, System 2: 82, 89, 90, 92, 2389
- Process 2, System 3: 94, 95
- Process 2, System 5: 98, 101, 102
- Process 2, System 6: 111, 112, 113
- Process 2, System 11: 159, 160
- Process 3, System 1: 164 to 167, 170, 172 to 181, 184, 1336 to 1349, 2382, 2387
- Process 3, System 2: 186, 188, 189, 191, 196, 199, 201, 204, 1352 to 1355
- Process 3, System 4: 241
- Process 3, System 6: 242, 245 to 247, 249
- Process 3, System 7: 1363
- Process 4, System 1: 253 to 256, 258, 262, 265, 268, 270, 272, 277, 278, 282, 283, 287, 1364, 1366, 1367, 1372, 1374 to 1376, 1378 to 1381
- Process 4, System 2: 291, 1400 to 1403
- Process 4, System 3: 292, 293, 297, 299
- Process 4, System 4: 302, 304
- Process 4, System 5: 308, 310, 311
- Process 4, System 7: 1975 to 1977, 1980, 1981, 1986
- Process 5, System 1: 314 to 317, 319, 320, 323 to 332
- Process 5, System 2: 335 to 338, 340, 343, 348 to 353
- Process 5, System 3: 356, 360, 1413
- Process 5, System 4: 401, 406, 407, 412, 414
- Process 6, System 1: 426, 427, 429, 431, 434 to 437, 440, 444, 445, 451, 454 to 456, 458, 460
- Process 6, System 2: 462, 469, 474 to 481, 483, 486
- Process 6, System 3: 490, 494, 495, 498, 501, 503, 506, 507, 509, 510, 512, 513, 518, 520, 521, 525 to 528
- Process 7, System 1: 542 to 548, 550, 552 to 558, 560, 562 to 569
- Process 7, System 2: 2892, 2893
- Process 8, System 1: 583, 584, 593 to 597
- Process 8, System 2: 608, 610, 612 to 614, 622, 624
- Process 9, System 1: 631, 632, 638 to 652, 659 to 663, 666 to 668, 1482, 1483, 1486 to 1488, 1491, 1493 to 1495, 1497 to 1502, 1528, 1533 to 1536, 2019
- Process 9, System 2: 672 to 681, 685
- Process 9, System 9: 637, 653, 656, 658, 664
- Process 10, System 1: 706
- Process 10, System 2: 709, 711 to 715, 720, 721
- Process 10, System 3: 725
- Process 11, System 1: 730



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

- Process 12, System 1: 756, 759
- Process 12, System 2: 760 to 762, 764
- Process 12, System 3: 765 to 770
- Process 12, System 4: 771, 772, 774
- Process 12, System 8: 785, 790, 2365, 2366
- Process 12, System 9: 794, 797 to 799
- Process 12, System 10: 806
- Process 12, System 12: 815, 818
- Process 12, System 13: 823, 826, 828
- Process 12, System 22: 853, 854
- Process 12, System 24: 860, 861, 863, 864, 865
- Process 12, System 25: 866, 867, 869, 870, 871, 2003
- Process 12, System 27: 873 to 875
- Process 15, System 7: 1644 to 1646, 1648, 1649
- Process 16, System 3: 2115 to 2120, 2353, 2394
- Process 24, System 1: 1304
- Process 24, System 2: 1307
- Process 24, System 4: 1315, 1316, 1319, 1323 to 1325, 1659

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(b)(2)-Offset, 5-10-1996]
[Systems subject to this condition: Process 8, System 1, 2]

S58.4 Hydrocracker Flare System shall only be used to receive and handle vent gases from the following Process(es) and System(s):

- Light Ends Depropanizer (Process: 4, System: 3)
- Jet Fuel Hydrotreating Unit (Process: 5, System: 1)
- Mid-Barrel Desulfurizer Unit (Process: 5, System: 2)
- Light Gasoline Hydrogenation Unit (Process: 5, System: 4)
- Catalytic Reformer Units (Process: 6, System: 1, 2, & 3)
- Hydrogen Plant (Process: 7, System 1)
- Hydrocracking Units (Process: 8, System: 1 & 2)
- LPG Recovery System (Process: 10, System: 2)
- Liquid Petroleum Gas Drying Facilities (Process: 10, System: 3)
- MDEA Regeneration Systems (Process: 12, System: 9 & 10)
- If HC Flare is being utilized to backup the FCCU Flare, FCCU, FCCU Gas Plant & FCCU Gas Compression Unit (Process: 3, System: 1, 2 & 3)
- If HC Flare is being utilized to backup the FCCU Flare, Propylene Tetramer Unit (Process: 3, System: 6)
- If HC Flare is being utilized to backup the FCCU Flare, Liquids Recovery Unit (Process: 4, System: 8)



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

If HC Flare is being utilized to backup the FCCU Flare, Catalytic Polymerization Unit
(Process: 9, System: 2)

If HC Flare is being utilized to backup the FCCU Flare, Fuel Gas Mix System (Process: 10,
System: 1)

If HC Flare is being utilized to backup the FCCU Flare, North Sour Water Treatment Unit
(Process: 12, System: 14)

The flare gas recovery system shall be operated in full use when any of the above Process(es)
and System(s) is in operation. Full use means one of two compressor trains (Process 21,
System 10 and Process 21, System 11) is online at any given time, except during planned
startups or shutdowns when both compressors trains shall be online.

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

[Systems subject to this condition: Process 21, System 3]

D12.15 The operator shall install and maintain a(n) infrared/ultraviolet detector or a thermocouple to
accurately indicate the presence of a flame at the pilot light.

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

[RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997; 40CFR 60 Subpart A, 6-13-2007]

[Devices subject to this condition: C1308]

D323.1 The operator shall conduct an inspection for visible emissions from all stacks and other emission
points of this equipment whenever there is a public complaint of visible emissions, whenever
visible emissions are observed, and on a bi-weekly basis, at least, unless the equipment did not
operate during the entire bi-weekly period. The routine bi-weekly inspection shall be conducted
while the equipment is in operation and during daylight hours.

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

1). Take corrective action(s) that eliminates the visible emissions within 24 hours and report the
visible emissions as a potential deviation in accordance with the reporting requirements in Section
K of this permit; or



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

- 2). Have a CARB-certified smoke reader determine compliance with the opacity standard, using EPA Method 9 or the procedures in the CARB manual "Visible Emission Evaluation", within three business days and report any deviations to AQMD.

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

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

[RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997; RULE 401, 3-2-1984; RULE 401, 11-9-2001]
[Devices subject to this condition: C1308]

E193.3 The operator shall operate and maintain this equipment according to the following specifications:

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

[40CFR 60 Subpart A, 6-13-2007]
[Devices subject to this condition: C1308]

E193.18 The operator shall construct, operate, and maintain this equipment according to the following specifications:

The operator shall comply with all mitigation measures stipulated by the AQMD Certified EIR SCH # 2005111057 dated 9/15/06

[CA PRC CEQA, 11-23-1970]
[Devices subject to this condition: D576, D577, D608, D610, D612, D613]

E193.25 The operator shall restrict the operation of this equipment as follows:

The flare may serve to backup the FCCU Flare only when the FCCU Flare is taken out of service during the planned shutdown periods, and all of the following criteria are met:

The following units shall not be in operation: Hydrocracker Units (Process 8, System 1 & 2), Hydrogen Plant (Process 7, System 1).



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

When the HC Flare is serving as backup to the FCC Flare, only the following units shall relief to the flare:

Jet Fuel Hydrotreating Unit (Process 5, System 1), Mid-Barrel Desulfurizer Unit (Process 5, System 2), Light Gasoline Hydrogenation Unit (Process 5, System 4), LPG Recovery System (Process 10, System 2), LPG Drying Facilities (Process 10, System 3), Catalytic Reforming Units (Process 6, Systems 1, 2 & 3), MDEA Regeneration Systems No 1 & 2 (Process 12, Systems 9 & 10),

FCCU, FCCU Gas Plant & FCCU Gas Compression Unit (Process 3, Systems 1, 2 & 3), Propylene Tetramer Unit (Process 3, System 6), Liquid Recovery Unit (Process 4, System 8), Catalytic Polymerization Unit (Process 9, System 2), Fuel Gas Mix Drum System (Process 10, System 1), North Sour Water Treatment Unit (Process 12, System 14).

For No. 9 Cooling Tower failure scenario, the relief loads shall not exceed the hydraulic capacity of the flare. If requested by District personnel, the operator shall provide analysis, or, if one is not available, perform hydraulic modeling analysis of the relief event to demonstrate compliance with this condition.

In No. 9 Cooling Tower failure scenario, only the following units shall relief to the flare: FCCU, FCCU Gas Plant & FCCU Gas Compression (Process 3, Systems 1, 2 & 3) and MDEA Regeneration Systems No. 1 & 2 (Process 12, System 9 & 10).

All other relief events to the flare shall not exceed the smokeless capacity of a flare designed for 417,000 lb/hr for a total of five minutes during two consecutive hours except during periods of startup, shutdown, or malfunction. If requested by District personnel, the operator shall provide analysis, or, if one is not available, perform hydraulic modeling analysis of the relief event to demonstrate compliance with this condition.

The operator shall not utilize the HC Flare to backup the FCCU Flare for a period greater than 30 days, unless otherwise approved in writing by the Executive Officer.

The operator shall notify the District a minimum of 10 days before the start of the planned shutdown of the FCCU Flare. This notification shall indicate the estimated duration of the shutdown.



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

H23.3 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: D2494, D2495, D2544]

H23.12 This equipment is 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]

[Devices subject to this condition: C1308, D1309]

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: C1308]

11.1 The operator shall comply with all the requirements of the conditions and compliance schedule as specified in the variance dated July 15, 2008, Case no. 5357-36, in accordance with the Findings and Decisions of the hearing board or as subsequently modified by the Hearing Board. The operator shall submit progress reports at least semi-annually, or more frequently if specified in the Findings and Decisions. The progress reports shall contain dates for achieving activities, milestones or compliance required in the schedule of compliance and dates when such activities, milestones or compliance were achieved; and an explanation of why any dates in the schedule of compliance were not, or will not be met, and any preventative or corrective measures adopted.

The variance (or Order for Abatement) referenced in this condition does not affect federal or citizen enforceability of the underlying SIP approved rules for which the applicant is receiving the variance (or Order for Abatement).

[RULE 3004(a)(10)(C), 12-12-1997]

[Devices subject to this condition: C1308]