



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

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

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

PROCESS 16		SYSTEM 1	
PETROLEUM STORAGE TANK		FIXED ROOF TANKS	
[EXISTING EQUIPMENT]		Same System Conditions: none	
DESCRIPTION	DEVICE ID NO.	EMISSIONS And REQUIREMENTS	CONDITIONS
STORAGE TANK NO. 619, SULFUR, 50'-0" DIA. X 36'-0" H., FIXED ROOF, STEAM HEATED, 12,500 BARREL CAPACITY A/N <del>395613</del> 419002	D1137	SOX: 500 PPMV (5) [RULE 407, 4-2-1982]	E336.3
STORAGE TANK NO. 620, SULFUR, 50'-0" DIA. X 36'-0" H., FIXED ROOF, STEAM HEATED, 12,500 BARREL CAPACITY A/N <del>395614</del> 419003	D1138	SOX: 500 PPMV (5) [RULE 407, 4-2-1982]	E336.3

**E336.3** The operator shall vent the vent gases from this equipment as follows:

All sour gases under normal operating conditions shall be directed to a sour water system via an educator. **When the tank pressure exceeds 2.5-inch water column, the tank may release excess pressure into the atmosphere via a pressure-controlled valve.**

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



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SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE  
The operator shall comply with the terms and conditions set forth below:

<b>PROCESS 7: HYDROGEN PRODUCTION</b>				
<b>SYSTEM 2: HYDROGEN PRODUCTION NO. 2 PLANT (KT1 SYSTEM)</b>			<b>S2.1, S13.2, S13.4, S56.1, -, S46.1, S46.2</b>	
COMPRESSOR RW 0052, FEED GAS, MECHANICAL SEAL, OIL FILLED, W/BUFFER GAS A/N: -395977 497869	D1443			
TANK, SURGE, RW 6123, PENTANE, LENGTH: 14 FT; DIAMETER: 4 FT A/N: -395977 497869	D1444			
REACTOR COMO, RW 6158, LENGTH: 14 FT; DIAMETER: 5 FT A/N: -395977 497869	D1446			
REACTOR CHLORIDE/SULFUR GUARD, RW 6159, LENGTH: 28 FT, DIAMETER: 8 FT A/N: -395977 497869	D1447			
REACTOR CHLORIDE/SULFUR GUARD, RW 6160, LENGTH: 28 FT, DIAMETER: 8 FT A/N: -395977 497869	D1448			
REACTOR, HIGH TEMPERATURE SHIFT, RW 6161, LENGTH: 14 FT, DIAMETER: 9 FT A/N: -395977 497869	D1449			
KNOCK OUT POT, RW 6114, HOT CONDENSATE, LENGTH: 9 FT 6 IN; DIAMETER: 5 FT A/N: -395977 497869	D1450			
KNOCK OUT POT, RW 6115, COLD CONDENSATE, LENGTH: 12 FT; DIAMETER: 4 FT A/N: -395977 497869	D1451			
<del>VESSEL, DEAERATOR, RW 6122, PROCESS CONDENSATE, LENGTH: 7 FT 4 IN, DIAMETER: 8 FT A/N: -395977</del>	<del>D1452</del>			
VESSEL, DEAERATOR, RW 7109 289.02, VERTICAL SECTION, HEIGHT: 21 FT; DIAMETER: 7 FT A/N: -395977 497869	D2892			
VESSEL, DEAERATOR, RW 6227, HORIZONTAL SECTION, LENGTH: 22 FT; DIAMETER: 9 FT A/N: -395977 497869	D2893			
DRUM, RW 6119, FLARE CONDENSATE, LENGTH: 9 FT; DIAMETER: 3 FT 6 IN A/N: -395977 497869	D1453			
ADSORBER PRESSURE SWING, RW 6145, HEIGHT: 21 FT; DIAMETER: 8 FT 6 IN A/N: -395977 497869	D1455			
ADSORBER PRESSURE SWING, RW 6146, HEIGHT: 21 FT; DIAMETER: 8 FT 6 IN A/N: -395977 497869	D1456			
ADSORBER PRESSURE SWING, RW 6147, HEIGHT: 21 FT; DIAMETER: 8 FT 6 IN A/N: -395977 497869	D1457			
ADSORBER PRESSURE SWING, RW 6148, HEIGHT: 21 FT; DIAMETER: 8 FT 6 IN A/N: -395977 497869	D1458			



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ADSORBER PRESSURE SWING, RW 6149, HEIGHT: 21 FT; DIAMETER: 8 FT 6 IN A/N: <del>395977</del> 497869	D1459			
ADSORBER PRESSURE SWING, RW 6150, HEIGHT: 21 FT; DIAMETER: 8 FT 6 IN A/N: <del>395977</del> 497869	D1460			
ADSORBER PRESSURE SWING, RW 6151, HEIGHT: 21 FT; DIAMETER: 8 FT 6 IN A/N: <del>395977</del> 497869	D1461			
ADSORBER PRESSURE SWING, RW 6152, HEIGHT: 21 FT; DIAMETER: 8 FT 6 IN A/N: <del>395977</del> 497869	D1462			
DRUM, RW 6118, PSA TAIL GAS, LENGTH: 80 FT; DIAMETER: 12 FT A/N: <del>395977</del> 497869	D1463			
FILTER, RW 6153, FUEL GAS, BASKET TYPE A/N: <del>395977</del> 497869	D1464			
FILTER, RW 6245, PRODUCT HYDROGEN, BASKET TYPE A/N: <del>395977</del> 497869	D2049			
DRUM, SILENCER, RW 0006, PSA PURGE GAS, LENGTH: 5 FT; DIAMETER: 5 FT 6 IN A/N: <del>395977</del> 497869	D2055			
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: <del>395977</del> 497869	D2493	HAP: (10) [40CFR 63 Subpart CC, #5A,6-23-2003]	H23. 3	

Process 4: FRACTIONATION				
SYSTEM 1: SUPERFRACTIONATION UNIT				S4.3, S4.4, S13.2, S56.1
Equipment	ID No.	Connected to	Emissions and Requirements	Conditions
COLUMN, STABILIZER, NO. 1, DEBUTANIZER, RPV-1035, HEIGHT: 77 FT; DIAMETER: 6 FT 6 IN A/N <del>478483</del> 499006	D253			
COLUMN, STABILIZER, NO. 2, DEBUTANIZER, RPV-1040, HEIGHT: 117 FT 9 IN; DIAMETER: 6 FT 6 IN A/N <del>478483</del> 499006	D254			
COLUMN, SOUTH AREA DISOBUTANIZER, RPV-1101, HEIGHT: 127 FT; DIAMETER: 8 FT 6 IN A/N <del>478483</del> 499006	D255			
COLUMN, STABILIZER, NO. 4, RPV-1117, WITH 40 TRAYS, HEIGHT: 84 FT; DIAMETER: 8 FT A/N <del>478483</del> 499006	D256			
COLUMN, STABILIZER, NO. 7, RPV-1118, HEIGHT: 62 FT; DIAMETER: 3 FT 6 IN A/N <del>478483</del> 499006	D257			
COLUMN, NO. 1 NAPHTHA SPLITTLE, RPV-1133, WITH 58 TRAYS, HEIGHT: 112 FT; DIAMETER: 11 FT A/N <del>478483</del> 499006	D258			



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COLUMN, STABILIZER, NO. 9, RPV-1183, HEIGHT: 136 FT; DIAMETER: 12 FT 6 IN A/N 478483 499006	D259			
COLUMN, STABILIZER, NO. 10, RPV-1190, HEIGHT: 110 FT; DIAMETER: 7 FT A/N 478483 499006	D260			
COLUMN, STABILIZER, NO. 11, RPV-1199, HEIGHT: 134 FT; DIAMETER: 8 FT A/N 478483 499006	D261			
COLUMN, NO. 3 DEBUTANIZER, RPV-1208, HEIGHT: 110 FT; DIAMETER: 6 FT A/N 478483 499006	D262			
ACCUMULATOR, NO.1 DEBUTANIZER, RPV- 5574, STABILIZER OVERHEAD; LENGTH: 20 FT; DIAMETER: 5 FT A/N 478483 499006	D263			
TANK, SURGE, NO. 1, DEBUTANIZER FEED, RPV 5573, LENGTH: 40 FT; DIAMETER: 8 FT A/N 478483 499006	D264			
ACCUMULATOR, NO.2 DEBUTANIZER OVERHEAD, RPV-1041, HEIGHT: 18 FT 9.5 IN; DIAMETER: 6 FT A/N 478483 499006	D265		BENZENE: (10) [40CFR 61 Subpart FF_02, 12-4-2003];	H23.12
ACCUMULATOR, RPV-5474, SOUTH AREA DIB OVERHEAD, HEIGHT: 18 FT; DIAMETER: 6 FT A/N 478483 499006	D267			
TANK, SURGE, SOUTH AREA DIB FEED, #5 STABILIZER, RPV-1226, HEIGHT: 30 FT 8 IN; DIAMETER: 10 FT A/N 478483 499006	D268			
ACCUMULATOR, NO. 4 DEBUTANIZER OVERHEAD, RPV-5575, VENTED TO VAPOR RECOVERY SYSTEM, HEIGHT: 20 FT; DIAMETER: 5 FT A/N 478483 499006	D269			
ACCUMULATOR, RPV-1120, LPG VAPORIZER OVERHEAD; LENGTH: 16 FT; DIAMETER: 3 FT A/N 478483 499006	D271			
TANK, FEED SURGE, NO. 258, RPV-1073, NO. 4 DEBUTANIZER FEED, HEIGHT: 32 FT 6 IN; DIAMETER: 10 FT A/N 478483 499006	D270			
TANK, SURGE, RPV 1181, NO. 3 DEBUTANIZER FEED, HEIGHT: 32 FT; DIAMETER: 9 FT A/N 478483 499006	D272			
ACCUMULATOR, NO.9, RPV-1185, STABILIZER REFLUX, LENGTH: 16 FT, DIAMETER: 6 FT A/N 459256 478483	D274			
DRUM, KNOCK OUT, WEST, RPV 1185, SOUTH AREA FLARE, LENGTH: 15 FT 8 IN; DIAMETER: 6 FT A/N 478483 499006	D274			
ACCUMULATOR, NO.10, RPV-1189, STABILIZER OVERHEAD, LENGTH: 7 FT 11.5 IN; DIAMETER: 6 FT A/N 459256 478483	D275			
ACCUMULATOR, NO.9, RPV-1189A, STABILIZER OVERHEAD, LENGTH: 15 FT 8 IN; DIAMETER: 6 FT A/N 459256 478483	D276			



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DRUM, KNOCK OUT, EAST, RPV 1189, SOUTH AREA FLARE, LENGTH: 15 FT 8 IN; DIAMETER: 6 FT A/N 478483 499006	D275		
ACCUMULATOR, RPV-1639, DEBUTANIZER OVERHEAD; LENGTH: 12 FT; DIAMETER: 6 FT A/N 478483 499006	D277	BENZENE: (10) [40CFR 61 Subpart FF_02, 12-4-2003]; VOC:500 PPMV (8) [40CFR 61 Subpart FF, 12-4-2003]	H23.12
TANK, SURGE, RPV 1182, #10 STABILIZER FEED, LENGTH: 32 FT; DIAMETER: 9 FT A/N 478483 499006	D278		
TANK, SURGE, RPV 1180, #11 STABILIZER FEED, HEIGHT: 32 FT; DIAMETER: 9 FT A/N 478483 499006	D280		
ACCUMULATOR, RPV-1205, NO. 11 STABILIZER OVERHEAD,; LENGTH: 16 FT; DIAMETER: 6 FT A/N 478483 499006	D281		
ACCUMULATOR, RPV-1213, NO.3 DEBUTANIZER OVERHEAD; LENGTH: 16 FT; DIAMETER: 6 FT A/N 478483 499006	D282		
POT, RPV 2092, LPG VAPORIZER CONDENSATE, HEIGHT: 4 FT; DIAMETER: 2 FT A/N 478483 499006	D283		
TOWER, DEBUTANIZER, (RPV-1638), HEIGHT: 76 FT 8 IN; DIAMETER: 7 FT A/N 478483 499006	D284		
KNOCK OUT POT, RW 5511, NO. 3 DEBUTANIZER OVERHEAD ACCUMULATOR, HEIGHT: 3 FT; DIAMETER: 1 FT 11 IN A/N 478483 499006	D2894	BENZENE: (10) [40CFR 61 Subpart FF_02, 12-4-2003]; VOC:500 PPMV (8) [40CFR 61 Subpart FF, 12-4-2003]	H23.12
KNOCK OUT POT, RW 5512, NO. 3 DEBUTANIZER FEED SURGE DRUM, HEIGHT: 3 FT; DIAMETER: 1 FT 11 IN A/N 478483 499006	D2895	BENZENE: (10) [40CFR 61 Subpart FF_02, 12-4-2003]; VOC:500 PPMV (8) [40CFR 61 Subpart FF, 12-4-2003]	H23.12
KNOCK OUT POT, RW 5513, NO. 1 DEBUTANIZER ACCUMULATOR, HEIGHT: 3 FT; DIAMETER: 1 FT 11 IN A/N 478483 499006	D2896	BENZENE: (10) [40CFR 61 Subpart FF_02, 12-4-2003]; VOC:500 PPMV (8) [40CFR 61 Subpart FF, 12-4-2003]	H23.12
KNOCK OUT POT, RW 5514, NO.2 DEBUTANIZER ACCUMULATOR, HEIGHT: 3 FT; DIAMETER: 1 FT 11 IN A/N 478483 499006	D2897	BENZENE: (10) [40CFR 61 Subpart FF_02, 12-4-2003]; VOC:500 PPMV (8) [40CFR 61 Subpart FF, 12-4-2003]	H23.12
KNOCK OUT POT, RW 6336, DIB FEED SURGE DRUM, HEIGHT: 2 FT; DIAMETER: 1 FT A/N 478483 499006	D2898		
KNOCK OUT POT, RPV 4342, HEIGHT: 3 FT 6 IN; DIAMETER: 1 FT A/N 478483 499006	D2628	BENZENE: (10) [40CFR 61 Subpart FF_02, 12-4-2003]; VOC:500 PPMV (8) [40CFR 61 Subpart FF, 12-4-2003]	H23.12
TOWER, DEHEXANIZER NO.1, RPV-5665, STRAIGHT RUN NAPHTHA, HEIGHT: 144 FT 11 IN; DIAMETER: 13 FT 3 IN A/N 478483 499006	D1364		



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ACCUMULATOR, RPV-5666, NO.1 DEHEXANIZER OVERHEAD; LENGTH: 30 FT; DIAMETER: 9 FT A/N -478483 499006	D1365		
KNOCK OUT POT, RPV 5667, NO. 1 DEHEXANIZER REBOILER CONDENSATE, LENGTH: 3 FT; DIAMETER: 2 FT 6 IN A/N -478483 499006	D1366		
TOWER, DEHEXANIZER NO.2, RPV-5678, STRAIGHT RUN NAPHTHA, HEIGHT: 144 FT 11 IN; DIAMETER: 13 FT 3 IN A/N -478483 499006	D1367		
ACCUMULATOR, RPV-5679, NO.2 DEHEXANIZER OVERHEAD; LENGTH: 30 FT; DIAMETER: 9 FT A/N -478483 499006	D1368		
KNOCK OUT POT, RPV 5680, NO. 2 DEHEXANIZER REBOILER CONDENSATE, LENGTH: 3 FT; DIAMETER: 2 FT 6 IN A/N -478483 499006	D1369		
KNOCK OUT POT, RPV 5708, NO. 1 NAPHTHA SPLITTER REBOILER CONDENSATE, LENGTH: 3 FT; DIAMETER: 2 FT 5 IN A/N -478483 499006	D1372		
KNOCK OUT POT, RPV 5712, NO. 2 DEBUTANIZER REBOILER CONDENSATE, LENGTH: 1 FT 9 IN; DIAMETER: 1 FT 6 IN A/N -478483 499006	D1373		
TANK, FLASH, RPV 5713, NO. 1 DEHEXANIZER REBOILER, LENGTH: 16 FT 6 IN; DIAMETER: 6 FT A/N -478483 499006	D1374		
TANK, FLASH, RPV 5714, NO. 2 DEHEXANIZER REBOILER, LENGTH: 16 FT 6 IN; DIAMETER: 6 FT A/N -478483 499006	D1375		
TANK, FLASH, RPV 5715, DEHEXANIZER, LENGTH: 21 FT; DIAMETER: 6 FT A/N -478483 499006	D1376		
KNOCK OUT POT, RPV 5716, NO. 2 DEHEXANIZER REBOILER CONDENSATE, LENGTH: 3 FT; DIAMETER: 2 FT 6 IN A/N -478483 499006	D1377		
KNOCK OUT POT, RPV 5717, NO. 1 DEHEXANIZER REBOILER CONDENSATE, LENGTH: 3 FT; DIAMETER: 2 FT 6 IN A/N -478483 499006	D1378		
TANK, FLASH, RPV 5718, 150 LB STEAM, LENGTH: 13; DIAMETER: 5 FT A/N -478483 499006	D1379		
TANK, FLASH, RPV 5719, NAPHTHA SPLITTER REBOILER CONDENSATE, LENGTH: 3 FT; DIAMETER: 2 FT 6 IN A/N -478483 499006	D1380		
TANK, FLASH, RPV 5733, 25 LB STEAM, LENGTH: 19 FT 6 IN; DIAMETER: 6 FT A/N -478483 499006	D1381		



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VESSEL, SEPARATE, RPV 5734, HC CONDENSATE, LENGTH: 6 FT; DIAMETER: 6 FT A/N 478483 499006	D1382			
VESSEL, SEPARATOR, RW-6191, COALESCING OIL, HEIGHT: 5 FT; DIAMETER: 5 FT 3 IN A/N 478483 499006	D2899			
VESSEL, SEPARATOR, RW-6192, BULK OIL, HEIGHT: 10 FT; DIAMETER: 6 FT A/N 478483 499006	D2900			
KNOCK OUT POT, RPV 5735, COKER GAS FRACTIONATION DEHEXANIZER REBOILER CONDENSATE, LENGTH: 2 FT; DIAMETER: 1 FT 6 IN A/N 478483 499006	D1383			
KNOCK OUT POT, RPV 5736, COKER GAS FRACTIONATION SWING REBOILER CONDENSATE, LENGTH: 2 FT; DIAMETER: 1 FT 6 IN A/N 478483 499006	D1384			
KNOCK OUT POT, RPV 5780, DEHEXANIZER FLARE, LENGTH: 10 FT; DIAMETER: 5 FT A/N 478483 499006	D1385		BENZENE: (10) [40CFR 61 Subpart FF_02, 12-4-2003]; VOC:500 PPMV (8) [40CFR 61 Subpart FF, 12-4-2003]	H23.12
SCRUBBER, RPV 1293, SFIA FUEL GAS, HEIGHT: 30 FT; DIAMETER: 3 FT 4 A/N 478483 499006	D287			
VESSEL, EAST VAPOR RECOVERY BLOWCASE, RW-713, HEIGHT: 4 FT 4 IN; DIAMETER: 2 FT A/N 478483 499006	D2901			
FUGITIVE EMISSIONS, MISCELLANEOUS A/N 478483 499006	D2476		HAP: (10) [40CFR 63 Subpart CC, #5A, 6-23-2003]	H23.3
<b>SYSTEM 2: NAPHTHA SPLITTER UNIT</b>				S46.1, S46.2, S13.2, S56.1
<b>Equipment</b>	<b>ID No.</b>	<b>Connected to</b>	<b>Emissions and Requirements</b>	<b>Conditions</b>
TANK, SURGE, RPV 1241, NAPHTHA SPLITTER FEED, HEIGHT: 26 FT 6 IN; DIAMETER: 7 FT 6 IN A/N 395646 501926	D290			
ACCUMULATOR, RPV-1238, NO. 2 NAPHTHA SPLITTER OVERHEAD; HEIGHT: 20 FT; DIAMETER: 7 FT 6 IN A/N 395646 501926	D291			
TOWER, RPV-1234, NO. 2, NAPHTHA SPLITTER, HEIGHT: 72 FT 8 IN; DIAMETER: 10 FT A/N 395646 501926	D1400			
KNOCK OUT POT, RPV 5517, NO. 2 NAPHTHA SPLITTER FEED SURGE WATER, HEIGHT: 2 FT 8 IN; DIAMETER: 1 FT 2 IN A/N 395646 501926	D1401			
KNOCK OUT POT, RPV-5516, NO. 2 NAPHTHA SPLITTER OVERHEAD ACCUMULATOR WATER, LENGTH: 2 FT 11 IN; DIAMETER: 1 FT 2 IN A/N 395646 501926	D1402		BENZENE: (10) [40CFR 61 Subpart FF_02, 12-4-2003]; VOC:500 PPMV (8) [40CFR 61 Subpart FF, 12-4-2003]	H23.12



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KNOCK OUT POT, RPV 5719, NO. 2 NAPHTHA SPLITTER REBOILER CONDENSATE WATER, LENGTH: 3 FT; DIAMETER: 2 FT 6 IN A/N -395646 501926	D1403			
FUGITIVE EMISSIONS, MISCELLANEOUS A/N -395646 501926	D2474		HAP: (10) [40CFR 63 Subpart CC, #5A, 6-23-2003]	H23.3
<b>Process 21: AIR POLLUTION CONTROL PROCESS</b>				
<b>SYSTEM 1: SOUTH AREA FLARE SYSTEM</b>				S56.1, S58.2, S31.10
FLARE, ELEVATED WITH STEAM INJECTION, NATURAL GAS, WITH 3 PILOT ASSEMBLIES, TIE-IN LINE TO FCCU FLARE FROM THE SOUTH UNITS, DIA: 3 FT, HEIGHT: 203 FT 6 IN A/N: 484937 499007 BURNER, JOHN ZINK, MODEL STF-S-24	C1302	D809, D815	CO: 2000 PPMV (5) [RULE 407, 04/02/82]; PM: 0.10 GRAINS/SCF (5) [RULE 409, 08/07/81]	D12.15, D323.1, E193.3, H23.12, H23.29
KNOCK OUT POT, RPV-0417, DIA: 5 FT, HEIGHT: 7 FT A/N: 484937 499007	D2795			
KNOCK OUT POT, FLARE STACK, DIA: 108 IN, HEIGHT: 258 IN A/N: 484937 499007	D1303			
KNOCK OUT POT, RPV-303, SOUTH AREA FLARE PRIMARY, DIA: 10 FT, LENGTH: 40 FT A/N: 484937 499007	D1304			
DRUM, WATER SEAL, RW 6989, LENGTH: 25 FT, DIAMETER: 13 FT A/N: 484937 499007	D2796			
KNOCK OUT POT, SOUTH FLARE LINE, RPV-1994, DIA: 1 FT 4 IN, HEIGHT: 5 FT 9 IN A/N: 484937 499007	D2809			
KNOCK OUT POT, NORTH FLARE LINE, RPV-1993, DIA: 1 FT 4 IN, HEIGHT: 5 FT 9 IN A/N: 484937 499007	D2810			
AUTOPUMP, SOUTH AREA FLARE, RW 6876-289.09, DIA: 1 FT, HEIGHT: 3 FT 11 IN A/N: 484937 499007	D2863			
AUTOPUMP, SOUTH AREA FLARE, RW 6877-289.09, DIA: 1 FT, HEIGHT: 3 FT 11 IN A/N: 484937 499007	D2864			
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 484937 499007	D2542		HAP: (10) [RULE 63SUBPART CC, #5A, 6-23-2003]	H23.3



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Process 15: OIL WATER SEPARATION					
System 12: SUMPS, OTHER					
Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions and Requirements	Conditions
SUMP, FIRE TRAINING SUMP, 216 CUBIC FEET CAPACITY; LENGTH: 6 FT; WIDTH: 6 FT; DEPTH: 6 FT  A/N 497452	DX				B59.2, D90.9, H23.22

**Conditions:**

**A. Hydrogen Production Plant No. 2: S2.1, S13.2, S13.4, S46.1, S46.2, S56.1, H23.2**

**S2.1 THE OPERATOR SHALL LIMIT EMISSIONS FROM THIS SYSTEM AS FOLLOWS**

CONTAMINANT | EMISSIONS LIMIT

VOC | LESS THAN 2.5 LBS/MMSCF OF HYDROGEN PRODUCED  
[RULE 1189, 1-21-2000]

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

CONTAMINANT | RULE | RULE/SUBPART

VOC | DISTRICT RULE | 1123  
[RULE 1123, 12-7-1990]

**S13.4 ALL DEVICES UNDER THIS SYSTEM ARE SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES OR REGULATIONS:**

CONTAMINANT | RULE | RULE/SUBPART

VOC | DISTRICT RULE | 1189  
[RULE 1189, 1-21-2000]



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

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

**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.



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

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.

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]**

**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:



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

- Process 1, System 2: 10, 12, 14
- Process 1, System 3: 19, 20, 24 to 26
- 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, 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
- Process 12, System 1: 756, 759



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

- 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 21, System 1: 1304
- Process 21, System 2: 1307
- Process 21, 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**

**H23.3** This equipment is subject to the applicable requirements of the following rules and 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]**

- B. Superfractionation Unit: S4.3, S4.4, S13.2, S56.1, H23.3, H23.12.**
- Naphtha Splitter Unit: S13.2, S46.1, S46.2, S56.1, H23.3, H23.12**
- South Area Flare: S31.10, S56.1, S58.2, D12.15, D323.1, E193.3, H23.3, H23.12, H23.29.**

**S4.3** THE FOLLOWING CONDITION(S) SHALL APPLY TO ALL AFFECTED DEVICES LISTED UNDER SECTION H OF THIS SYSTEM FOR FUGITIVE EMISSIONS OF VOLATILE ORGANIC COMPOUNDS (VOC):

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



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

All process drains shall be equipped with water seal, or a closed vent system and control device complying with the requirements of 40CFR60 Subpart QQQ section 60.692-5.  
[RULE 1173, 5-13-1994; RULE 1173, 2-6-2009; 40CFR 60 Subpart QQQ, 10-17-2000]

**S4.4 THE FOLLOWING CONDITION(S) SHALL APPLY TO ALL AFFECTED DEVICES LISTED UNDER SECTION H OF THIS SYSTEM FOR FUGITIVE EMISSIONS OF VOLATILE ORGANIC COMPOUNDS (VOC):**

- 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 in VOC service shall be of leakless type, except those specifically exempted by Rule 1173 or approved by the District in writing 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.
- If 98.0 percent or greater of the new valve and the new flange population inspected is found to leak gaseous or liquid volatile organic compounds at a rate less than 500 ppm for two consecutive months, then the operator may revert to a quarterly inspection program with the approval of the executive officer. This condition shall not apply to leakless valves.
- All new components in VOC service, a leak greater than 500 ppm but less than 1,000 ppm measured as methane above background as measured using EPA Method 21, shall be repaired within 14 days of detection. Components shall be defined as any valve, fitting, pump, compressor, pressure relief device, diaphragm, hatch, sight-glass, and meter, which are not exempted by Rule 1173.
- 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 sheet for all non-leakless type valves with a listing of tag numbers and reasons why leakless valves were not used.  
[RULE 1173, 5-13-1994; RULE 1173, 2-6-2009; RULE 1303(A)(1)-BACT, 5-10-1996; 40CFR 60 Subpart GGG, 6-2-2008]

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

CONTAMINANT	RULE	RULE/SUBPART
VOC	DISTRICT RULE	1123
[RULE 1123, 12-7-1990]		



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

**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 bellows seal valves, except as approved by the District, in the following applications: heavy liquid service, control valve, instrument piping/tubing, applications requiring torsional valve stem motion, applications where valve failure could pose safety hazard (e.g., drain valves 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

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 re-inspection, 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]**

**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:**



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

- 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
- 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, 262, 265, 268, 270, 272, ~~275 to 277~~, 278, 282, 283, 287, 1364, 1366, 1367, 1372, 1374 to 1376, 1378 to 1381
- Process 4, System 2: 290, 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



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

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  
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.]**

**S58.2 SOUTH AREA FLARE SYSTEM SHALL ONLY BE USED TO RECEIVE AND HANDLE VENT GASES FROM THE FOLLOWING PROCESS(ES) AND SYSTEM(S):**

- 1) COKING UNITS (PROCESS: 2, SYSTEM: 1 & 2)
- 2) COKER BLOWDOWN FACILITY (PROCESS: 2, SYSTEM: 3)
- 3) COKER GAS COMPRESSION & ABSORPTION UNIT (PROCESS: 2, SYSTEM: 5)
- 4) BLOWDOWN GAS COMPRESSION SYSTEM (PROCESS: 2, SYSTEM: 6)
- 5) COKER GAS TREATING/H<sub>2</sub>S ABSORPTION UNIT (PROCESS: 2, SYSTEM: 11)
- 6) FLUID CATALYTIC CRACKING UNITS (PROCESS: 3, SYSTEM: 1, 2 & 3)
- 7) PROPYLENE TETRAMER UNIT (PROCESS: 3, SYSTEM: 6)
- 8) SUPERFRACTIONATION UNIT (PROCESS: 4, SYSTEM 1)
- 9) NAPHTHA SPLITTER UNIT (PROCESS: 4, SYSTEM: 2)
- 10) LIGHT ENDS DEPROPANIZER UNIT (PROCESS: 4, SYSTEM: 3)
- 11) STRAIGHT RUN LIGHT ENDS DEPROPANIZER UNIT (PROCESS: 4, SYSTEM: 4)
- 12) NORTH AREA DEISOBUTANIZER UNIT (PROCESS: 4, SYSTEM: 5)
- 13) COKER GASOLINE FRACTIONATION UNIT (PROCESS: 4, SYSTEM: 7)
- 14) LIQUID RECOVERY UNIT (PROCESS: 4, SYSTEM: 8)
- 15) LIGHT GASOLINE HYDROGENATION UNIT (PROCESS: 5, SYSTEM: 4)
- 16) CATALYTIC REFORMER UNITS (PROCESS: 6, SYSTEM: 1, 2, & 3)
- 17) ALKYLATION UNIT (PROCESS: 9, SYSTEM: 1)
- 18) LINDE ISO-SIV UNIT (PROCESS: 9, SYSTEM: 4)
- 19) ISO-OCTENE UNIT (PROCESS: 9, SYSTEM: 9)
- 20) MDEA REGENERATION UNITS (PROCESS: 12, SYSTEM: 9, 10, 11, 12, & 13)
- 21) NORTH & SOUTH SOUR WATER TREATMENT SYSTEMS (PROCESS: 12, SYSTEM: 14 & 15)
- 22) SULFUR RECOVERY UNITS (PROCESS: 13, SYSTEM: 1, 2, 3, & 4)
- 23) CLAUS TAIL GAS TREATING UNITS (PROCESS: 13, SYSTEM: 5 & 7)
- 24) MIXED LIGHT ENDS TANK CAR LOADING/UNLOADING (PROCESS: 14, SYSTEM: 2)
- 25) REFINERY VAPOR RECOVERY SYSTEM (PROCESS: 21, SYSTEM: 4)
- 26) SOUTH AREA FLARE GAS RECOVERY SYSTEM (PROCESS: 21, SYSTEM: 10)
- 27) NORTH AREA FLARE GAS RECOVERY SYSTEM (PROCESS: 21, SYSTEM: 11)



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

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]

**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]

**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
- 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.

This condition shall become effective when the initial Title V permit is issued to the facility.  
[RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997; RULE 401, 3-2-1984; RULE 401, 11-9-2001]

**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 the 40CFR60



**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:

**[40 CFR 60 Subpart A, 6-13-2007]**

**H23.3** This equipment is subject to the applicable requirements of the following rules and regulations:

CONTAMINANT	RULE	RULE/SUBPART
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VOC	DISTRICT RULE	1173
VOC	40CFR60, SUBPART	GGG

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

**H23.12** THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES OR REGULATIONS:

CONTAMINANT	RULE	RULE/SUBPART
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BENZENE	40CFR61, SUBPART	FF
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**[40 CFR 61 Subpart FF, 12-4-2003]**

**H23.29** THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES OR REGULATIONS:

CONTAMINANT	RULE	RULE/SUBPART
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SOX	DISTRICT RULE	1118
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**[RULE 1118, 11-4-2005]**

**C. Storm water handling and treating system: S13.6, B59.2, D90.9**

**B59.2** The operator shall only use the following materials in this device:

wastewater with a VOC content of 5 mg per liter or less.

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

**D90.9** The operator shall sample and analyze the VOC content in each inlet fluid to the sump according to the following specifications:

The operator shall analyze once per year according to EPA Test Method 8240, or equivalent test method.

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



**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:

**H23.22** This equipment is subject to the applicable requirements of the following rules or regulations:

<u>Contaminant</u>	<u>Rule</u>	<u>Rule/Subpart</u>
VOC	District Rule	1176

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

**DRAFT**