



**FACILITY PERMIT TO OPERATE  
PHILLIPS 66 COMPANY/LOS ANGELES REFINERY**

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
<b>PROCESS 1 : CRUDE DISTILLATION</b>					P13.2
<b>SYSTEM 1 : CRUDE DISTILLATION UNIT</b>					S13.5, S15.1, S15.3, S15.4, S15.11, S31.4, S31.x
TANK, FLASH, DU-1, SPENT SODA, HEIGHT: 53 FT 6 IN;DIAMETER: 3 FT A/N: 572721	D1				
COLUMN, PRIMARY, DU-3, CRUDE OIL, HEIGHT: 112 FT;DIAMETER: 12 FT A/N: 572721	D2				
COLUMN, FIRST SIDE CUT STRIPPER, DU-4, HEIGHT: 47 FT;DIAMETER: 5 FT A/N: 572721	D3				
COLUMN, SECONDARY, DU-5, CRUDE OIL, HEIGHT: 174 FT 6 IN;DIAMETER: 16 FT A/N: 572721	D4				
COLUMN, 2ND & 3RD SIDE CUT STRIPPERS, DU-6, HEIGHT: 40 FT 6 IN;DIAMETER: 5 FT A/N: 572721	D5				
ACCUMULATOR, V-2142, PRIMARY COLUMN OVERHEAD, HEIGHT: 23 FT 10 IN;DIAMETER: 5 FT 6 IN A/N: 572721	D6				
VESSEL, TREATER, 1ST STAGE SODA, V-2147, PRIMARY COLUMN OVERHEAD, HEIGHT: 29 FT;DIAMETER: 6 FT A/N: 572721	D8				
ACCUMULATOR, V-3043, SECONDARY COLUMN OVERHEAD, HEIGHT: 30 FT;DIAMETER: 9 FT 6 IN A/N: 572721	D9				
VESSEL, SWEETNER, V-2197, PRIMARY COLUMN TOPS, HEIGHT: 19 FT;DIAMETER: 7 FT 6 IN A/N: 572721	D11				
VESSEL, SEPARATOR, SECONDARY COLUMN THIRD STAGE, V-3047, HEIGHT: 6 FT;DIAMETER: 4 FT A/N: 572721	D16				
VESSEL, SEPARATOR, SECONDARY COLUMN SECOND STAGE, V-3046B, HEIGHT: 7 FT;DIAMETER: 4 FT A/N: 572721	D953				
VESSEL, SEPARATOR, SECONDARY COLUMN FIRST STAGE, V-3045B, HEIGHT: 7 FT 9 IN;DIAMETER: 4 FT 6 IN A/N: 572721	D954				
VESSEL, SEPARATOR, SECONDARY COLUMN FIRST STAGE, V-3044B, HEIGHT: 7 FT 9 IN;DIAMETER: 4 FT 6 IN A/N: 572721	D955				

\* (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
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 572721	D832			HAP: (10) [40CFR 63 Subpart CC, #5A, 6-20-2013]	H23.22
<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, S31.x
TANK, SURGE, V-2250, SR RESIDUE, WITH NATURAL GAS BLANKETING, HEIGHT: 27 FT 6 IN; DIAMETER: 16 FT 3 IN A/N: 572722	D64				
ACCUMULATOR, V-2251, FLASHER OVERHEAD, HEIGHT: 20 FT; DIAMETER: 9 FT A/N: 572722	D65				H23.10
KNOCK OUT POT, STEAM AIR DECOKING QUENCH, V-2253, HEIGHT: 7 FT 8 IN; DIAMETER: 4 FT A/N: 572722	D66				
COLUMN, FLASHER, FR-1, HEIGHT: 127 FT; DIAMETER: 23 FT 6 IN A/N: 572722	D69				
SCRUBBER, DEA, FR-2, VENT GAS A/N: 572722	D70				
COMPRESSOR, FR-501, VENT GAS A/N: 572722	D77				
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 572722	D835			HAP: (10) [40CFR 63 Subpart CC, #5A, 6-20-2013]	H23.22
<b>PROCESS 2 : COKING AND RESIDUAL CONDITIONING</b>					P13.2
<b>SYSTEM 1 : DELAYED COKING UNIT</b>					S13.5, S15.3, S15.4, S15.11, S31.3, S31.x
FRACTIONATOR, MAIN, CK-1, HEIGHT: 149 FT; DIAMETER: 15 FT 6 IN A/N: 572723	D80				
COLUMN, STRIPPER, CK-2, EXTRA HEAVY GAS OIL, HEIGHT: 25 FT 6 IN; DIAMETER: 3 FT A/N: 572723	D81				
COLUMN, STRIPPER, CK-3, HEAVY GAS OIL, HEIGHT: 43 FT; DIAMETER: 5 FT A/N: 572723	D82				
COLUMN, STRIPPER, CK-4, LIGHT GAS OIL, HEIGHT: 43 FT; DIAMETER: 4 FT 6 IN A/N: 572723	D83				
ACCUMULATOR, V-2247, MAIN FRACTIONATOR OVERHEAD, HEIGHT: 22 FT; DIAMETER: 12 FT A/N: 572723	D84				
ACCUMULATOR, V-2248, MAIN FRACTIONATOR OVERHEAD, HEIGHT: 20 FT; DIAMETER: 9 FT A/N: 572723	D85				

\* (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
DRUM, COKE, V-2236, HEIGHT: 75 FT;DIAMETER: 26 FT A/N: 572723	D796			PM: (9) [RULE 405, 2-7-1986]	D323.2
DRUM, COKE, V-2237, HEIGHT: 75 FT;DIAMETER: 26 FT A/N: 572723	D797			PM: (9) [RULE 405, 2-7-1986]	D323.2
DRUM, COKE, V-2238, HEIGHT: 75 FT;DIAMETER: 26 FT A/N: 572723	D798			PM: (9) [RULE 405, 2-7-1986]	D323.2
DRUM, COKE, V-2239, HEIGHT: 75 FT;DIAMETER: 26 FT A/N: 572723	D799			PM: (9) [RULE 405, 2-7-1986]	D323.2
ABSORBER, RECTIFIED, CK-5, HEIGHT: 159 FT 6 IN;DIAMETER: 7 FT A/N: 572723	D95				
COLUMN, SPONGE, CK-6, HEIGHT: 42 FT 6 IN;DIAMETER: 3 FT 6 IN A/N: 572723	D96				
COLUMN, DEBUTANIZER, CK-7, HEIGHT: 136 FT 6 IN;DIAMETER: 8 FT A/N: 572723	D97				
SETTLING TANK, V-2245, DEBUTANIZER OVERHEAD, LENGTH: 7 FT;DIAMETER: 5 FT A/N: 572723	D99				
COMPRESSOR, CK-501, WET GAS A/N: 572723	D103				
KNOCK OUT POT, V-3122, HEIGHT: 8 FT 4 IN;DIAMETER: 3 FT A/N: 572723	D758				
KNOCK OUT POT, V-3172, WET GAS COMPRESSOR DISCHARGE, HEIGHT: 8 FT 6 IN;DIAMETER: 5 FT A/N: 572723	D943				
STORAGE TANK, FIXED ROOF, NO. 2230, AMMONIUM POLYSULFIDE, 20000 GALS;DIAMETER: 15 FT;HEIGHT: 18 FT A/N: 572723	D86				E134.1
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 572723	D838			HAP: (10) [40CFR 63 Subpart CC, #5A, 6-20-2013]	H23.36
<b>PROCESS 5 : GAS PRODUCTION</b>					P13.2
<b>SYSTEM 1 : DEBUTANIZER UNIT</b>					S13.5, S15.3, S15.11, S31.x
COLUMN, DEBUTANIZER, DU-2, HEIGHT: 81 FT;DIAMETER: 6 FT 6 IN A/N: 572724	D803				
ACCUMULATOR, V-2139, DEBUTANIZER OVERHEAD, HEIGHT: 23 FT;DIAMETER: 5 FT A/N: 572724	D211				
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 572724	D848			HAP: (10) [40CFR 63 Subpart CC, #5A, 6-20-2013]	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

\*\* Refer to Section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.



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<b>PROCESS 10 : STORAGE TANKS</b>					P13.2
<b>SYSTEM 3 : PRESSURIZED TANKS</b>					S13.2, S31.x
STORAGE TANK, PRESSURIZED, NO. 2222, WITH EMERGENCY PRV VENTED TO FLARE GAS RECOVERY SYSTEM, 8500 BBL;DIAMETER: 45 FT 4 IN A/N: 572719	D424	C465 C469 D938 D939			
STORAGE TANK, PRESSURIZED, NO. 2223, WITH EMERGENCY PRV VENTED TO FLARE GAS RECOVERY SYSTEM, 8500 BBL;DIAMETER: 45 FT 4 IN A/N: 572852	D425	C465 C469 D938 D939			
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 572852	D872			<b>HAP: (10) [40CFR 63 Subpart CC, #5A, 6-20-2013]</b>	H23.1
<b>PROCESS 10 : STORAGE TANKS</b>					P13.2
<b>SYSTEM 6 : PRESSURIZED STORAGE TANK, INORGANIC</b>					
STORAGE TANK, PRESSURIZED, NO. V-3154, AQUEOUS AMMONIA, 19%, WITH TWO PRV/RUPTURE DISKS VENTED TO FLARE GAS RECOVERY SYSTEM, WITH NITROGEN BLANKET, SUBMERGED FILLING, 11420 GALS;DIAMETER: 9 FT;LENGTH: 21 FT A/N: 572720	D917				E71.2, E144.1
<b>PROCESS 14 : AIR POLLUTION CONTROL</b>					P18.1
<b>SYSTEM 1 : EAST FLARE SYSTEM</b>					S31.3, S31.x
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: 572747	C465	D422 D423 D424 D425 D449 D466 D753			D12.3, D323.2, E193.4, E193.x, H23.29, H23.xx
VESSEL, WATER SEAL, V-3163, HEIGHT: 19 FT 6 IN;DIAMETER: 12 FT 6 IN A/N: 572747	D933				
TANK, HOLDING, V-3164, WATER SEAL OVERFLOW, LENGTH: 10 FT;DIAMETER: 4 FT 6 IN A/N: 572747	D937				
KNOCK OUT POT, V-2254A, LENGTH: 32 FT; DIAMETER: 14 FT A/N: 572747	Dxxx	C465 D938 D939			
KNOCK OUT POT, LOW POINT DRAIN, V-3203, LENGTH: 14 FT; DIAMETER: 5 FT A/N: 572747	Dyyy				
KNOCK OUT POT, V-3052 A/N: 572747	D467				
KNOCK OUT POT, V-3053 A/N: 572747	D468				

\* (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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KNOCK OUT POT, F-307, HEIGHT: 17 FT;DIAMETER: 6 FT 6 IN A/N: 572747	D753	C465 D938 D939			
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 572747	D876			<b>HAP: (10) [40CFR 63 Subpart CC, #5A, 6-20-2013]</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, HEIGHT: 175 FT;DIAMETER: 2 FT 6 IN A/N: 572718	C469	D422 D423 D424 D425 D449 D470 D754 D755 D756			D12.3, D323.2, E193.4, E193.x, H23.29, H23.xx
KNOCK OUT POT, V-2540 A/N: 572718	D470	C469			
KNOCK OUT POT, 120-V-22, HEIGHT: 20 FT;DIAMETER: 12 FT A/N: 572718	D754	C469 D938 D939			
VESSEL, WATER SEAL, 120-V-32, HEIGHT: 18 FT;DIAMETER: 11 FT 11 IN A/N: 572718	D755	C469			
TANK, HOLDING, 120-V-34, WATER SEAL OVERFLOW, 4800 GALS;DIAMETER: 4 FT 6 IN;LENGTH: 10 FT A/N: 572718	D756	C469			
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 572718	D877			<b>HAP: (10) [40CFR 63 Subpart CC, #5A, 6-20-2013]</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: 568560	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: 568560	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: 568560	D940				
KNOCK OUT POT, V-3168, SCRUBBER INLET, HEIGHT: 7 FT;DIAMETER: 2 FT A/N: 568560	D941				
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 568560	D942			<b>HAP: (10) [40CFR 63 Subpart CC, #5A, 6-20-2013]</b>	H23.36

\* (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) (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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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)
- Brine Flash Stripper (Benzene Stripper) (Process: 1, System: 7)
- Crude Unit Feed Desalter (Process: 1, System: 8)
- 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:

[**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**

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

Contaminant	Rule	Rule/Subpart
VOC	District Rule	463
VOC	District Rule	1149

[**RULE 1149, 5-2-2008**; **RULE 463, 11-4-2011**]

[Systems subject to this condition: Process 10, System 3]

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]

S15.1 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) located in the Vacuum Flash Unit (Process 1, System 4).

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

[**RULE 1303(a)(1)-BACT, 5-10-1996**; **RULE 1303(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 , 7 , 8]

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 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 D175, D176, D178, D179, D180, D186, D187, D188, D194, D201, D202, D479, D816, D896, and C989 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]**

[Systems subject to this condition : Process 1, System 1, 4, 7, 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, 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]



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

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 D176, D178, D179, D180, D201, and D896 that vent to atmosphere, D194 that vents to atmosphere or the off-site CO<sub>2</sub> plant, and D987 that vents to APC equipment. T

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 1, 3; Process 3, System 1, 3; Process 4, System 1; Process 5, System 1, 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]

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]

S31.3 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:

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



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

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.

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]



## FACILITY PERMIT TO OPERATE PHILLIPS 66 COMPANY/LOS ANGELES REFINERY

### SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

S31.x The following BACT requirements shall apply to VOC service fugitive components associated with the devices that are covered by application number(s) 572721, 572722, 572723, 572724, 572719, 572852, 572720, 568560:

The operator shall provide to the District, no later than 90 days after initial startup, a recalculation of the fugitive emissions based on the 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.

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.

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.



## FACILITY PERMIT TO OPERATE PHILLIPS 66 COMPANY/LOS ANGELES REFINERY

### SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

#### 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 a closed vent 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; Process 2, System 1; Process 5, System 1; Process 10, System 3; Process 14, System 1]

#### 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]

D323.2 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 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:



## FACILITY PERMIT TO OPERATE PHILLIPS 66 COMPANY/LOS ANGELES REFINERY

### SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

- 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 : C465, C469, D796, D798, D799]

E71.2 The operator shall not use this equipment to store aqueous ammonia unless the pressure relief valves are set at 50 psig or higher and the rupture disks are set at 45 psig or higher.

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

[Devices subject to this condition: D917]

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]

E134.1 The operator shall maintain a layer of diesel oil at least 12" high on top of the ammonium polysulfide in this equipment.

[**RULE 1301(b)(1), 12-7-1995**]

[Devices subject to this condition: D86]

E144.1 The operator shall vent this equipment, during filling, only to the vessel from which it is being filled.

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

[Devices subject to this condition: D917]

E193.4 The operator shall operate and maintain this equipment according to the following specifications:



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PHILLIPS 66 COMPANY/LOS ANGELES REFINERY**

**SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE**

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

The operator shall comply with all applicable requirements specified in Section 60.18 of the 40CFR60 Subpart A.

**[40CFR60 Subpart A, 9-13-2010]**

[Devices subject to this condition : C465, C469]

E193.x The operator shall operate and maintain this equipment as follows:

The operator shall implement mitigation measures identified in the document entitled “ConocoPhillips Los Angeles Refinery Carson Plant Flare Quantitative Risk Assessment (QRA) Report” dated October 2012, or subsequent revisions, for the purposes of keeping flow to the flare system within its design capacity. The mitigation measures shall include, but are not limited to:

The operator shall implement shut down of the fuel supply to the Crude Unit Heater (D59) when the pressure of the Secondary Column (DU-5, D4) exceeds 45 psig.

The operator shall implement shut off procedures for the heat source for the Debutanizer Column (D97) when the column pressure exceeds 185 psig.

**[RULE 1173, 02-06-2009]**

[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, 2-6-2009]**

[Devices subject to this condition : D841, D846, D849, D852, D854, D855, D856, D857, D858, D861, D862, D868, D869, D870, D871, D872, D875, D876, D877, D944, D945, D946, D947, D948]

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]**

[Devices subject to this condition: D65]



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PHILLIPS 66 COMPANY/LOS ANGELES REFINERY**

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:

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

**[RULE 1173, 2-6-2009; 40CFR 60 Subpart GGG, 6-2-2008]**

[Devices subject to this condition: D472, D738, D740, D748, D749, D832, D834, D835, D841, D842, D844, D848, D851, D852, D854, D855, D856, D857, D858, 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, 2-6-2009; 40CFR 60 Subpart GGGa, 6-2-2008]**

[Devices subject to this condition : D838, D938, D939, D939, D942]

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

Contaminant	Rule	Rule/Subpart
H2S	40CFR60, SUBPART	Ja

**[40CFR 60 Subpart Ja, 6-2-2008]**

[Devices subject to this condition : C465, C469]