

## FACILITY PERMIT TO OPERATE

**PHILLIPS 66 CO/LA REFINERY WILMINGTON PL  
1660 W ANAHEIM ST  
WILMINGTON, CA 90744**

### NOTICE

IN ACCORDANCE WITH RULE 206, THIS PERMIT TO OPERATE OR A COPY THEREOF MUST BE KEPT AT THE LOCATION FOR WHICH IT IS ISSUED.

THIS PERMIT DOES NOT AUTHORIZE THE EMISSION OF AIR CONTAMINANTS IN EXCESS OF THOSE ALLOWED BY DIVISION 26 OF THE HEALTH AND SAFETY CODE OF THE STATE OF CALIFORNIA OR THE RULES OF THE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT. THIS PERMIT SHALL NOT BE CONSTRUED AS PERMISSION TO VIOLATE EXISTING LAWS, ORDINANCES, REGULATIONS OR STATUTES OF ANY OTHER FEDERAL, STATE OR LOCAL GOVERNMENTAL AGENCIES.

Barry R. Wallerstein, D. Env.  
EXECUTIVE OFFICER

By \_\_\_\_\_  
Mohsen Nazemi, P.E.  
Deputy Executive Officer  
Engineering & Compliance

## FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL

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## FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL

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

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
<b>Process 1: FLUID CATALYTIC CRACKING</b>					P13.2
<b>System 1: FCCU Unit 152</b>					S15.2, S15.3

\* (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 limit (e.g. NSPS, NESHAPS, etc.)  
 (9) See App B for Emission Limits  
 (10) See section J for NESHAP/MACT requirements

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<b>Process 1: FLUID CATALYTIC CRACKING</b>					P13.2
REGENERATOR, BB-601, HEIGHT: 81 FT ; DIAMETER: 34 FT 9 IN A/N:	D1	D44	NOX: MAJOR SOURCE**; SOX: MAJOR SOURCE**	CO: 500 PPMV (5A) [ CONSENT DECREE CIVIL NO. H-05-0258, 8-11-2008]; CO: 500 PPMV (8) [40CFR 60 Subpart J, 6-24-2008; CONSENT DECREE CIVIL NO. H-05-0258, 8-11-2008]; CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; HAP: (10) [40CFR 63 Subpart UUU, #2, 4-20-2006]; NOX: 20 PPMV (5A) [ CONSENT DECREE CIVIL NO. H-05-0258, 8-11-2008]; NOX: 40 PPMV (5B) [ CONSENT DECREE CIVIL NO. H-05-0258, 8-11-2008]; PM: (9) [RULE 404, 2-7-1986; RULE 405, 2-7-1986]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]; PM: 0.5 LB(S)/1000 LBS COKE BURNOFF (5A) [ CONSENT DECREE CIVIL NO. H-05-0258, 8-11-2008]; PM: 1 LB(S)/1000 LBS COKE BURNOFF (8) [40CFR 60 Subpart J, 6-24-2008; CONSENT DECREE CIVIL NO. H-05-0258, 8-11-2008]; PM: 30 PERCENT OPACITY (8) [40CFR 60 Subpart J, 6-24-2008; CONSENT DECREE CIVIL NO. H-05-0258, 8-11-2008]; SO2: 9.8 LB(S)/1000 LBS COKE BURNOFF (8) [40CFR 60 Subpart J, 6-24-2008; CONSENT DECREE CIVIL NO. H-05-0258, 8-11-2008]; SO2: 25	A195.7, A195.8, A195.9, A195.10, A195.11, A195.12, A195.13, A229.1, D28.12, D29.1, D82.5, D323.6, D328.1, H23.1, H23.23, H23.25, K40.3

\* (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 limit (e.g. NSPS, NESHAPS, etc.)  
 (9) See App B for Emission Limits (10) See section J for NESHAP/MACT requirements

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<b>Process 1: FLUID CATALYTIC CRACKING</b>					P13.2
				PPMV (5A) [ CONSENT DECREE CIVIL NO. H-05-0258, 8-11-2008]; SO2: 50 PPMV (5B) [ CONSENT DECREE CIVIL NO. H-05-0258, 8-11-2008]	
COLUMN, WEST MAIN, D-2, GAS OIL, HEIGHT: 90 FT ; DIAMETER: 16 FT A/N:	D2				
COLUMN, STRIPPER, D-3, CYCLE OIL, HEIGHT: 23 FT 11 IN; DIAMETER: 4 FT 1 IN A/N:	D3				
COLUMN, EAST MAIN, D-102, GAS OIL, HEIGHT: 89 FT 8 IN; DIAMETER: 14 FT 6 IN A/N:	D4				
COLUMN, STRIPPER, D-103, LT. CYCLE OIL, HEIGHT: 23 FT 11 IN; DIAMETER: 4 FT 1 IN A/N:	D5				
COLUMN, AUXILIARY, D-601, HEIGHT: 54 FT 3 IN; DIAMETER: 19 FT 2 IN A/N:	D6				
REACTOR, DD-601, HEIGHT: 142 FT ; DIAMETER: 26 FT A/N:	D7				C1.80
ACCUMULATOR, F-1, LENGTH: 25 FT ; DIAMETER: 8 FT A/N:	D8				

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|---|---|
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<b>Process 1: FLUID CATALYTIC CRACKING</b>					P13.2
SETTLING TANK, F-606, HEIGHT: 34 FT 3 IN; DIAMETER: 12 FT A/N:	D11				
HOPPER, FF-601, CATALYST A/N:	D12			PM: (9) [RULE 405, 2-7-1986]	D323.1
HOPPER, FF-602, CATALYST A/N:	D13			PM: (9) [RULE 405, 2-7-1986]	D323.1
HOPPER, FF-603, CATALYST A/N:	D14			PM: (9) [RULE 405, 2-7-1986]	D323.1
HOPPER, F-401, CATALYST FINES STORAGE A/N:	D1717			PM: (9) [RULE 405, 2-7-1986]	D323.1
COMPRESSOR, GG-601, MAIN BLOWER, 140,000 SCFM A/N:	D15				
GENERATOR, GG-602, HOT GAS, 12 KW ELECTRIC A/N:	D1502				
POT, CATALYST, WITH A VENT POT, HEIGHT: 3 FT 8 IN; DIAMETER: 2 FT 1 IN A/N:	D1674			PM: (9) [RULE 404, 2-7-1986; RULE 405, 2-7-1986]	D323.4, E71.17
ACCUMULATOR, F-101, LENGTH: 20 FT ; DIAMETER: 8 FT A/N:	D1691				
FUGITIVE EMISSIONS, MISCELLANEOUS A/N:	D1565			HAP: (10) [40CFR 63 Subpart CC, #5A, 6-23-2003]	H23.2
<b>System 2: FRACTIONATION SECTION, FCCU 152</b>					S4.2, S4.3, S13.6, S13.12, S15.2, S15.3

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 (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)  
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<b>Process 1: FLUID CATALYTIC CRACKING</b>					P13.2
COLUMN, DEETHANIZER, STRIPPER SECTION, D-650, WITH 28 TRAYS, HEIGHT: 74 FT ; DIAMETER: 10 FT A/N: 535162	D1671				
COLUMN, DEETHANIZER, ABSORBER SECTION, D-651B, WITH 32 TRAYS, HEIGHT: 71 FT ; DIAMETER: 6 FT 6 IN A/N: 535162	D1672				
COLUMN, DEPENTANIZER, D-201, HEIGHT: 74 FT 11 IN; DIAMETER: 9 FT 6 IN A/N: 535162	D16				
COLUMN, DEPROPANIZER, D-203, HEIGHT: 82 FT 4 IN; DIAMETER: 6 FT 11 IN A/N: 535162	D17				
COLUMN, DEPENTANIZER, D-204, HEIGHT: 82 FT 1 IN; DIAMETER: 6 FT A/N: 535162	D18				
COLUMN, DEBUTANIZER, D-205, HEIGHT: 82 FT 5 IN; DIAMETER: 7 FT 6 IN A/N: 535162	D19				
VESSEL, D-206, POLYSULFIDE, HEIGHT: 67 FT 4 IN; DIAMETER: 10 FT A/N: 535162	D20				
ABSORBER, D-207, P.P. H2S, HEIGHT: 56 FT 3 IN; DIAMETER: 4 FT A/N: 535162	D21				

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<b>Process 1: FLUID CATALYTIC CRACKING</b>					P13.2
COLUMN, DEETHANIZER, STRIPPER SECTION, D-651A, WITH 15 TRAYS, IDLED, HEIGHT: 49 FT ; DIAMETER: 11 FT 6 IN A/N: 535162	D22				
COMPRESSOR, GG-703, HOT GAS A/N: 535162	D1503				
KNOCK OUT POT, F-12, HEIGHT: 16 FT ; DIAMETER: 9 FT 6 IN A/N: 535162	D25				
VESSEL, RECEIVER, F-14, HEIGHT: 16 FT ; DIAMETER: 7 FT A/N: 535162	D26				
VESSEL, RECEIVER, F-203, LENGTH: 22 FT ; DIAMETER: 9 FT A/N: 535162	D27				
ACCUMULATOR, RECEIVER, F-204, DEPROPANIZER OVERHEAD, LENGTH: 21 FT 1 IN; DIAMETER: 6 FT 10 IN A/N: 535162	D28				
DRUM, HOLDING, F-711, AO 37 INHIBITOR, HEIGHT: 8 FT ; DIAMETER: 2 FT 6 IN A/N: 535162	D1824				
ACCUMULATOR, F-206, DEPENTANIZER OVERHEAD, LENGTH: 21 FT 1 IN; DIAMETER: 6 FT 10 IN A/N: 535162	D29				

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- (7) Denotes NSR applicability limit
- (9) See App B for Emission Limits
- (2) (2A) (2B) Denotes RECLAIM emission rate
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<b>Process 1: FLUID CATALYTIC CRACKING</b>					P13.2
TANK, HOLDING, F-213, AO 37 INHIBITOR, LENGTH: 30 FT ; DIAMETER: 3 FT A/N: 535162	D30				
VESSEL, PP/MEA SEPARATOR, F-219, LENGTH: 15 FT 1 IN; DIAMETER: 4 FT 2 IN A/N: 535162	D32				
TANK, HOLDING, F-653, DEETHANIZER FEED, LENGTH: 30 FT ; DIAMETER: 12 FT A/N: 535162	D33				
TANK, SURGE, F-702, WASTE WATER, LENGTH: 11 FT 9 IN; DIAMETER: 6 FT 6 IN A/N: 535162	D34				
VESSEL, COALESCER, F-455, LENGTH: 16 FT 4 IN; DIAMETER: 5 FT A/N: 535162	D750				
ACCUMULATOR, RECEIVER, F-205, DEBUTANIZER OVERHEAD, LENGTH: 16 FT 7 IN; DIAMETER: 5 FT A/N: 535162	D35				
FUGITIVE EMISSIONS, MISCELLANEOUS, TRAP, SUCTION LIFT, F-651, HEIGHT: 2 FT; DIAMETER: 1 FT 2 IN A/N: 535162	D1825				
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 535162	D1566			<b>HAP: (10) [40CFR 63 Subpart CC, #5A, 6-23-2003]</b>	H23.3

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<b>Process 1: FLUID CATALYTIC CRACKING</b>					P13.2
<b>System 4: HEATER</b>					
HEATER, STEAM, 152-B-602, REFINERY/NATURAL GAS, WITH LOW NOX BURNER, 29 MMBTU/HR WITH A/N: 535166  BURNER, 4 BURNERS, REFINERY/NATURAL GAS, JOHN ZINK, MODEL PNDR-16, WITH LOW NOX BURNER, 29 MMBTU/HR	D39		NOX: LARGE SOURCE**, SOX: MAJOR SOURCE**	CO: 400 PPMV (5A) [RULE 1146, 11-17-2000; RULE 1146, 9-5-2008]; CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; NOX: 37 PPMV REFINERY/NATURAL GAS (3) [RULE 2012, 5-6-2005]; PM: (9) [RULE 404, 2-7-1986]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]	B61.4, C1.20, D232.1, D328.1, H23.1
HEATER, STEAM, 152-B-703, NATURAL GAS, WITH LOW NOX BURNER, 10 MMBTU/HR WITH A/N: 535167  BURNER, 3 BURNERS, NATURAL GAS, JOHN ZINK, MODEL PNDR-16, WITH LOW NOX BURNER, 10 MMBTU/HR	D40		NOX: LARGE SOURCE**	CO: 400 PPMV (5A) [RULE 1146, 11-17-2000; RULE 1146, 9-5-2008]; CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; NOX: 37 PPMV NATURAL GAS (3) [RULE 2012, 5-6-2005]; PM: (9) [RULE 404, 2-7-1986]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]	C1.19, D328.1

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 (7) Denotes NSR applicability limit  
 (9) See App B for Emission Limits  
 (2) (2A) (2B) Denotes RECLAIM emission rate  
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HEATER, FCC DEPENTANIZER REBOILER, 152-B-201, REFINERY/NATURAL GAS, WITH FOUR (4) COPPUS FANMIX DA-13 GAS BURNERS, 51 MMBTU/HR A/N: 535168	D41	S43	NOX: MAJOR SOURCE**; SOX: MAJOR SOURCE**	CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; PM: (9) [RULE 404, 2-7-1986]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]	B61.4, D232.1, D328.2, H23.1
HEATER, RERUN COLUMN REBOILER, 152-B-202, REFINERY/NATURAL GAS, WITH TWO (2) COPPUS FANMIX DA-18 GAS BURNERS, 39 MMBTU/HR A/N: 535169	D42	S43	NOX: MAJOR SOURCE**; SOX: MAJOR SOURCE**	CO: 400 PPMV (5A) [RULE 1146, 11-17-2000; RULE 1146, 9-5-2008]; CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; PM: (9) [RULE 404, 2-7-1986]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]	B61.4, D232.1, D328.1, H23.1
STACK, COMMON TO HEATERS 152-B-201 AND 152-B-202, HEIGHT: 125 FT ; DIAMETER: 9 FT 4 IN A/N: 535169	S43	D41 D42			
HEATER, FCCU STARTUP, BC-601, FUEL OIL, 87 MMBTU/HR A/N: 535170	D44	D1	NOX: MAJOR SOURCE**; SOX: MAJOR SOURCE**	CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; NOX: 20 LBS/1000 GAL FUEL OIL 2 (1) [RULE 2012, 5-6-2005]; PM: (9) [RULE 404, 2-7-1986]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]; SOX: 7.06 LBS/1000 GAL FUEL OIL 2 (1) [RULE 2011, 5-6-2005]	D323.7, D328.1, E71.1
<b>System 6: FCCU Catalyst Additives Handling</b>					S42.2

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<b>Process 1: FLUID CATALYTIC CRACKING</b>					P13.2
STORAGE SILO, FF-604, 200 CUBIC FEET, 5 TON CAPACITY, WITH MANUAL INJECTION VACUUM SYSTEM, CATALYST ADDITIVE, INTERCAT, MODEL 200 STYLE 4A US, WITH CYCLONE, HEIGHT: 10 FT ; DIAMETER: 5 FT A/N: 535172	D1695			PM: (9) [RULE 404, 2-7-1986; RULE 405, 2-7-1986]	C1.66, D182.4
FILTER, S-604B, CARTRIDGE TYPE, WITH ONE FILTER CATRIDGE, 53 SQ. FT.ACTUAL FILTER AREA, U.S. FILTER/SCHMIDT, MODEL 200 STYLE IV(A), WITH PULSE JET CLEANING, OUTER DIA.: 7.9 IN; INNER DIA.: 3.6 IN, LENGTH: 1 FT 4 IN A/N: 535172	C1696				D322.3
UNLOADING STATION, BIN, WITH ONE PNEUMATIC FILL TUBE A/N: 535172	D1733				
STORAGE SILO, FF-605, 200 CUBIC FEET, 5 TON CAPACITY,, CATALYST ADDITIVE, INTERCAT, MODEL 200 STYLE 4A US, WITH CYCLONE, HEIGHT: 10 FT ; DIAMETER: 5 FT A/N: 535174	D1697			PM: (9) [RULE 404, 2-7-1986; RULE 405, 2-7-1986]	C1.66, D182.4

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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
<b>Process 1: FLUID CATALYTIC CRACKING</b>					P13.2
FILTER, S-605B, CARTRIDGE TYPE, WITH ONE FILTER CATRIDGE, 53 SQ. FT.ACTUAL FILTER AREA, U.S. FILTER/SCHMIDT, MODEL 200 STYLE IV(A), WITH PULSE JET CLEANING, OUTER DIA.: 7.9 IN; INNER DIA.: 3.6 IN, LENGTH: 1 FT 4 IN A/N: 535174	C1698				D322.3
UNLOADING STATION, BIN, WITH ONE PNEUMATIC FILL TUBE A/N: 535174	D1734				
<b>Process 2: HYDROTREATING</b>					P13.2
<b>System 1: HCAT HYDROTREATER UNIT 59 (UNIFINING UNIT 59)</b>					S13.6, S15.2, S15.3, S31.2
COLUMN, ABSORBER-STRIPPER, D-205, HEIGHT: 97 FT ; DIAMETER: 9 FT 6 IN A/N: 535175	D46				
KNOCK OUT POT, ABSORBER-STRIPPER, F-205, HEIGHT: 6 FT ; DIAMETER: 3 FT A/N: 535175	D48				
VESSEL, SEPARATOR, UNIFINER FLASH, F-204, LENGTH: 27 FT ; DIAMETER: 5 FT A/N: 535175	D49				
KNOCK OUT POT, F-208, ABSORBER-STRIPPER INTERCOOLER WATER, HEIGHT: 6 FT ; DIAMETER: 2 FT A/N: 535175	D50				

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| <ul style="list-style-type: none"> <li>* (1) (1A) (1B) Denotes RECLAIM emission factor</li> <li>(3) Denotes RECLAIM concentration limit</li> <li>(5) (5A) (5B) Denotes command and control emission limit</li> <li>(7) Denotes NSR applicability limit</li> <li>(9) See App B for Emission Limits</li> </ul> | <ul style="list-style-type: none"> <li>(2) (2A) (2B) Denotes RECLAIM emission rate</li> <li>(4) Denotes BACT emission limit</li> <li>(6) Denotes air toxic control rule limit</li> <li>(8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)</li> <li>(10) See section J for NESHAP/MACT requirements</li> </ul> |
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\*\* Refer to section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.

## FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL

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

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
<b>Process 2: HYDROTREATING</b>					P13.2
KNOCK OUT POT, F-209, STRIPPER WATER, HEIGHT: 6 FT ; DIAMETER: 2 FT A/N: 535175	D51				
ACCUMULATOR, F-221, FRACTIONATOR OVERHEAD, LENGTH: 20 FT ; DIAMETER: 6 FT A/N: 535175	D53				
COMPRESSOR, GB-201 A, UNIFINER RECYCLE GAS A/N: 535175	D55				
COMPRESSOR, GB-201 B, UNIFINER RECYCLE GAS A/N: 535175	D56				
REACTOR, RADIAL, D-203, HEIGHT: 28 FT ; DIAMETER: 7 FT 6 IN A/N: 535175	D57				
REACTOR, DOWN FLOW, D-204, HEIGHT: 28 FT ; DIAMETER: 7 FT 6 IN A/N: 535175	D58				
TANK, SURGE, 59-F-106, FUEL GAS A/N: 535175	D185				
VESSEL, 60-F-210, PROCESS WATER DEGASSING, HEIGHT: 10 FT ; DIAMETER: 4 FT 6 IN A/N: 535175	D844				
FRACTIONATOR, D-101, HEIGHT: 51 FT ; DIAMETER: 10 FT 6 IN A/N: 535175	D1345				

\* (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 limit (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.

## FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL

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

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
<b>Process 2: HYDROTREATING</b>					P13.2
ACCUMULATOR, F-101, FRACTIONATOR OVERHEAD, LENGTH: 16 FT ; DIAMETER: 7 FT A/N: 535175	D1346				
FILTER, F-150 A, REFLUX A/N: 535175	D1347				
FILTER, F-150 B, REFLUX A/N: 535175	D1348				
KNOCK OUT POT, BLOWDOWN DRAIN POT, F-220, LENGTH: 6 FT 1 IN; DIAMETER: 2 FT A/N: 535175	D1823				
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 535175	D1569			<b>HAP: (10) [40CFR 63 Subpart CC, #5A, 10-28-2009]</b>	H23.3
<b>System 2: NAPHTHA HYDROTREATER UNIT 80 (UNIFINING UNIT 80)</b>					S13.6, S15.2, S15.9
REACTOR, NO. 1, 80D-203, HEIGHT: 19 FT 9 IN; DIAMETER: 4 FT 6 IN A/N: 535176	D59				
REACTOR, NO. 2, 80D-204, HEIGHT: 27 FT ; DIAMETER: 7 FT 6 IN A/N: 535176	D60				
FRACTIONATOR, 80D-205, HEIGHT: 56 FT 6 IN; DIAMETER: 8 FT 6 IN A/N: 535176	D61				
COLUMN, 80D-206, HYDROGEN SULFIDE STRIPPER, HEIGHT: 104 FT 6 IN; DIAMETER: 10 FT A/N: 535176	D62				

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

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

## FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL

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

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
<b>Process 2: HYDROTREATING</b>					P13.2
KNOCK OUT POT, 80-F-203, STRIPPER WATER, TRAY 16 OF H2S STRIPPER, LENGTH: 6 FT ; DIAMETER: 2 FT A/N: 535176	D1699				
KNOCK OUT POT, 80-F-208, STRIPPER WATER, TRAY 28 OF H2S STRIPPER, LENGTH: 10 FT ; DIAMETER: 2 FT A/N: 535176	D1700				
COLUMN, DE-ETHANIZER, 80D-207, HEIGHT: 112 FT 6 IN; DIAMETER: 8 FT 6 IN A/N: 535176	D63				
ACCUMULATOR, 80F-201, FRACTIONATOR OVERHEAD, LENGTH: 20 FT ; DIAMETER: 7 FT A/N: 535176	D64			<b>HAP: (10) [40CFR 63 Subpart CC, #2, 6-23-2003]</b>	
VESSEL, SEPARATOR, 80F-202, LENGTH: 28 FT ; DIAMETER: 6 FT A/N: 535176	D65				
ACCUMULATOR, 80F-204, DEHEXANIZER OVERHEAD, HEIGHT: 15 FT ; DIAMETER: 4 FT 6 IN A/N: 535176	D66				
TANK, FLASH, 80F-205, FOUL WATER, HEIGHT: 6 FT ; DIAMETER: 3 FT A/N: 535176	D67			<b>HAP: (10) [40CFR 63 Subpart CC, #2, 6-23-2003]</b>	

- \* (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 limit (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.

## FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL

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

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
<b>Process 2: HYDROTREATING</b>					P13.2
VESSEL, TREATER, CAUSTIC, 80F-209, HEIGHT: 20 FT ; DIAMETER: 6 FT 6 IN A/N: 535176	D68				
KNOCK OUT POT, 80-F-212, SOUR GAS, LENGTH: 6 FT ; DIAMETER: 2 FT A/N: 535176	D1505				
COMPRESSOR, BOOSTER AND RECYCLE, 80-GB-201A, RECIPROCATING A/N: 535176	D1426			HAP: (10) [40CFR 63 Subpart CC, #2, 6-23-2003]	
COMPRESSOR, BOOSTER AND RECYCLE, 80-GB-201B, RECIPROCATING A/N: 535176	D1427			HAP: (10) [40CFR 63 Subpart CC, #2, 6-23-2003]	
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 535176	D1571			HAP: (10) [40CFR 63 Subpart CC, #5A, 6-23-2003]	H23.3
<b>System 3: MID-BARREL HYDROTREATER UNIT 89 (UNIFINING UNIT 89)</b>					S13.6, S15.2, S15.8, S31.2
COLUMN, STRIPPER, D-102, HEIGHT: 62 FT 3 IN; DIAMETER: 5 FT A/N: 535178	D69				
COLUMN, SPLITTER, D-103, HEIGHT: 60 FT ; DIAMETER: 5 FT 6 IN A/N: 535178	D70				
VESSEL, DRYER, D-104, TURBINE FUEL, HEIGHT: 56 FT ; DIAMETER: 7 FT A/N: 535178	D71				

\* (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 limit (e.g. NSPS, NESHAPS, etc.)  
 (9) See App B for Emission Limits  
 (10) See section J for NESHAP/MACT requirements

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## FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL

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

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
<b>Process 2: HYDROTREATING</b>					P13.2
VESSEL, SEPARATOR, F-100, HOT, LENGTH: 18 FT ; DIAMETER: 6 FT A/N: 535178	D72				
VESSEL, SEPARATOR, F-101, COLD, LENGTH: 21 FT ; DIAMETER: 5 FT A/N: 535178	D73				
VESSEL, F-102, HYDROGEN SULFIDE SPLITTER OVERHEAD, LENGTH: 4 FT 6 IN; DIAMETER: 3 FT A/N: 535178	D74				
VESSEL, F-103, HYDROGEN SULFIDE STRIPPER OVERHEAD, LENGTH: 3 FT 6 IN; DIAMETER: 3 FT A/N: 535178	D75				
ACCUMULATOR, F-104, SPLITTER OVERHEAD, LENGTH: 10 FT ; DIAMETER: 5 FT A/N: 535178	D76				
TANK, FLASH, F-107, PROCESS WASTEWATER, HEIGHT: 10 FT ; DIAMETER: 4 FT A/N: 535178	D78				
ACCUMULATOR, F-109, TURBINE FUEL DRYER OVERHEAD, LENGTH: 15 FT ; DIAMETER: 5 FT A/N: 535178	D79				E336.3
REACTOR, D-101, HEIGHT: 21 FT ; DIAMETER: 5 FT A/N: 535178	D80				
FILTER, F-116, CLAY, HEIGHT: 4 FT 6 IN; DIAMETER: 4 FT A/N: 535178	D1508				

- \* (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 limit (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.

## FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL

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

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
<b>Process 2: HYDROTREATING</b>					P13.2
FILTER, (COALESCER), F-117, HEIGHT: 4 FT 3 IN; DIAMETER: 3 FT A/N: 535178	D1509				
COMPRESSOR, GB-101, RECYCLE GAS, RECIPROCATING A/N: 535178	D1510				
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 535178	D1573			<b>HAP: (10) [40CFR 63 Subpart CC, #5A, 6-23-2003]</b>	H23.3
<b>System 4: DIESEL HYDROTREATER UNIT 90 (UNIFINING UNIT 90)</b>					S13.6, S13.10, S15.2, S15.10, S31.1
TANK, SURGE, F-205, FEED, WITH VENT CONNECTION TO VAPOR RECOVERY/FLARE SYSTEM, LENGTH: 24 FT ; DIAMETER: 12 FT A/N: 535179	D86				E57.5
REACTOR, D-401A, HEIGHT: 69 FT 9 IN; DIAMETER: 13 FT 6 IN A/N: 535179	D1701				
SCRUBBER, D-302, RECYCLE GAS, HEIGHT: 46 FT 6 IN; DIAMETER: 3 FT 6 IN A/N: 535179	D82				
REACTOR, D-401B, HEIGHT: 69 FT 9 IN; DIAMETER: 13 FT 6 IN A/N: 535179	D1702				
COLUMN, TURBINE STOCK STRIPPER, D-205, HEIGHT: 56 FT ; DIAMETER: 5 FT A/N: 535179	D83				

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|---|---|
| <p>* (1) (1A) (1B) Denotes RECLAIM emission factor<br/>         (3) Denotes RECLAIM concentration limit<br/>         (5) (5A) (5B) Denotes command and control emission limit<br/>         (7) Denotes NSR applicability limit<br/>         (9) See App B for Emission Limits</p> | <p>(2) (2A) (2B) Denotes RECLAIM emission rate<br/>         (4) Denotes BACT emission limit<br/>         (6) Denotes air toxic control rule limit<br/>         (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)<br/>         (10) See section J for NESHAP/MACT requirements</p> |
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\*\* Refer to section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.

## FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL

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

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
<b>Process 2: HYDROTREATING</b>					P13.2
VESSEL, HOT SEPARATOR, F-401, HEIGHT: 24 FT ; DIAMETER: 8 FT A/N: 535179	D1703				
VESSEL, COLD SEPARATOR, F-402, WITH BYPASS CONNECTION TO VAPOR RECOVERY/FLARE SYSTEM, HEIGHT: 22 FT ; DIAMETER: 7 FT A/N: 535179	D1704				E448.2
COLUMN, H2S STRIPPER, D-202, HEIGHT: 58 FT ; DIAMETER: 8 FT A/N: 535179	D81				
ACCUMULATOR, F-206, RERUN COLUMN OVERHEAD, LENGTH: 24 FT ; DIAMETER: 8 FT A/N: 535179	D87				
ACCUMULATOR, F-207, TURBINE STOCK STRIPPER, LENGTH: 12 FT ; DIAMETER: 2 FT A/N: 535179	D88				E336.3
TANK, FLASH, F-301, RICH MEA, WITH BYPASS CONNECTION TO VAPOR RECOVERY/FLARE SYSTEM, HEIGHT: 12 FT ; DIAMETER: 4 FT 6 IN A/N: 535179	D92				E57.6, E71.6
COMPRESSOR, GB-301, RECYCLE GAS, CENTRIFUGAL, CAPACITY 68.8 MMSCFD A/N: 535179	D94				E193.5, H23.22
COLUMN, RERUN, D-203, HEIGHT: 79 FT 6 IN; DIAMETER: 13 FT A/N: 535179	D96				

- \* (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 limit (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.

## FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL

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

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
<b>Process 2: HYDROTREATING</b>					P13.2
COLUMN, SIDESTREAM STRIPPER, D-204, HEIGHT: 32 FT ; DIAMETER: 6 FT 6 IN A/N: 535179	D97				
ACCUMULATOR, F-203, PRIMARY STRIPPER OVERHEAD, LENGTH: 6 FT ; DIAMETER: 3 FT A/N: 535179	D98				
ACCUMULATOR, F-204, FINAL STRIPPER OVERHEAD, WITH BYPASS CONNECTION TO VAPOR RECOVERY/FLARE SYSTEM, LENGTH: 4 FT ; DIAMETER: 3 FT A/N: 535179	D99				E57.6, E71.6
FILTER, F-216, CLAY, HEIGHT: 4 FT 6 IN; DIAMETER: 4 FT A/N: 535179	D1511				
FILTER, F-214, SEPARATOR, HEIGHT: 7 FT 7 IN; DIAMETER: 3 FT A/N: 535179	D1828				
TANK, FLASH, F-407, PROCESS WASTEWATER, HEIGHT: 12 FT ; DIAMETER: 4 FT A/N: 535179	D1829				
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 535179	D1575			<b>HAP: (10) [40CFR 63 Subpart CC, #5A, 6-23-2003]</b>	H23.22
<b>System 5: NAPHTHA HYDROTREATER UNIT 100 (UNIFINING UNIT 100)</b>					S13.6, S15.2, S15.3
VESSEL, SEPARATOR, V-100-1, HEIGHT: 30 FT ; DIAMETER: 12 FT A/N: 535180	D100				

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| <ul style="list-style-type: none"> <li>* (1) (1A) (1B) Denotes RECLAIM emission factor</li> <li>(3) Denotes RECLAIM concentration limit</li> <li>(5) (5A) (5B) Denotes command and control emission limit</li> <li>(7) Denotes NSR applicability limit</li> <li>(9) See App B for Emission Limits</li> </ul> | <ul style="list-style-type: none"> <li>(2) (2A) (2B) Denotes RECLAIM emission rate</li> <li>(4) Denotes BACT emission limit</li> <li>(6) Denotes air toxic control rule limit</li> <li>(8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)</li> <li>(10) See section J for NESHAP/MACT requirements</li> </ul> |
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\*\* Refer to section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.

## FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL

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

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
<b>Process 2: HYDROTREATING</b>					P13.2
COLUMN, UNIONFINER STRIPPER, V-100-2, HEIGHT: 75 FT 9 IN; DIAMETER: 7 FT A/N: 535180	D101				
VESSEL, SEPARATOR, V-100-3, LENGTH: 8 FT ; DIAMETER: 4 FT A/N: 535180	D124				
TANK, FLASH, V-100-4, WASTEWATER, LENGTH: 6 FT ; DIAMETER: 2 FT A/N: 535180	D102				
TANK, SURGE, V-100-5, FEED, HEIGHT: 16 FT ; DIAMETER: 6 FT A/N: 535180	D103			<b>HAP: (10) [40CFR 63 Subpart CC, #2, 6-23-2003]</b>	
COMPRESSOR, C-100-1A, RECYCLE & MAKEUP HYDROGEN GAS, RECIPROCATING A/N: 535180	D104				
COMPRESSOR, C-100-1B, RECYCLE & MAKEUP HYDROGEN GAS, RECIPROCATING A/N: 535180	D105				
REACTOR, R-1, HEIGHT: 40 FT 2 IN; DIAMETER: 7 FT 6 IN A/N: 535180	D1512				
KNOCK OUT POT, V-100-6, HEIGHT: 6 FT ; DIAMETER: 2 FT A/N: 535180	D1513				
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 535180	D1577			<b>HAP: (10) [40CFR 63 Subpart CC, #5A, 6-23-2003]</b>	H23.2
<b>System 6: HYDROTREATING UNIT 59 HEATERS</b>					

\* (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 limit (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.

## FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL

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

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
<b>Process 2: HYDROTREATING</b>					P13.2
HEATER, UNIFINER CHARGE, 59-B-201, REFINERY/NATURAL GAS, (RENAME FROM 60-B-201), WITH LOW NOX BURNER, 27 MMBTU/HR WITH  A/N: 535181          BURNER, 59-B-201, REFINERY/NATURAL GAS, JOHN ZINK, MODEL PNDR-18M, 4 BURNERS, WITH LOW NOX BURNER, 27 MMBTU/HR	D129		NOX: LARGE SOURCE**; SOX: MAJOR SOURCE**	CO: 400 PPMV (5A) [RULE 1146, 11-17-2000; RULE 1146, 9-5-2008]; CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; NOX: 37 PPMV REFINERY/NATURAL GAS (3) [RULE 2012, 5-6-2005]; PM: (9) [RULE 404, 2-7-1986]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]	B61.4, C1.21, D232.1, D328.1, H23.1
HEATER, REBOILER, 59-B-101, 8 BURNERS, REFINERY/NATURAL GAS, (RENAMED FROM 60-B-101), 60.2 MMBTU/HR  A/N: 535182	D194		NOX: MAJOR SOURCE**; SOX: MAJOR SOURCE**	CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; PM: (9) [RULE 404, 2-7-1986]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]	B61.4, C8.1, D12.2, D28.1, D232.1, D328.1, H23.1, K40.1
<b>System 7: HYDROTREATING UNIT 80 HEATERS</b>					

\* (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 limit (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.

## FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL

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

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
<b>Process 2: HYDROTREATING</b>					P13.2
HEATER, UNIFINER CHARGE, 79-B-201, REFINERY/NATURAL GAS, WITH LOW NOX BURNER, 35 MMBTU/HR WITH A/N: 535183  BURNER, FOUR (4) BURNERS, REFINERY/NATURAL GAS, JOHN ZINK, MODEL PNDR-20M, WITH LOW NOX BURNER, 35 MMBTU/HR	D133		NOX: LARGE SOURCE**; SOX: MAJOR SOURCE**	CO: 400 PPMV (5A) [RULE 1146, 11-17-2000; RULE 1146, 9-5-2008]; CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; NOX: 37 PPMV REFINERY/NATURAL GAS (3) [RULE 2012, 5-6-2005]; PM: (9) [RULE 404, 2-7-1986]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]	B61.4, C1.23, D232.1, D328.1, H23.1
<b>System 8: HYDROTREATING UNIT 89 HEATERS</b>					
HEATER, 89-B-101, REFINERY/NATURAL GAS, WITH LOW NOX BURNER, 17 MMBTU/HR WITH A/N: 535184  BURNER, THREE (3) BURNERS, REFINERY/NATURAL GAS, JOHN ZINK, MODEL PNDR-18M, WITH LOW NOX BURNER, 17 MMBTU/HR	D142		NOX: LARGE SOURCE**; SOX: MAJOR SOURCE**	CO: 400 PPMV (5A) [RULE 1146, 11-17-2000; RULE 1146, 9-5-2008]; CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; NOX: 37 PPMV REFINERY/NATURAL GAS (3) [RULE 2012, 5-6-2005]; PM: (9) [RULE 404, 2-7-1986]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]	B61.4, C1.24, D232.1, D328.1, H23.1
<b>System 9: HYDROTREATING UNIT 90 HEATERS</b>					

\* (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 limit (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.

## FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL

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

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
<b>Process 2: HYDROTREATING</b>					P13.2
HEATER, RERUN FEED, 90-B-202, REFINERY/NATURAL GAS, 76 MMBTU/HR WITH A/N: 535186  BURNER, REFINERY/NATURAL GAS, JOHN ZINK, MODEL PSMR-17RM-SPL, 9.50 MMBTU/HR EACH, 8 TOTAL	D146		NOX: MAJOR SOURCE**; SOX: MAJOR SOURCE**	CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; PM: (9) [RULE 404, 2-7-1986]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]	B61.4, C1.46, D28.5, D232.1, D328.1, H23.1
HEATER, 90-B-203, REFINERY/NATURAL GAS, WITH LOW NOX BURNER, 27 MMBTU/HR WITH A/N: 535187  BURNER, THREE (3) BURNERS, REFINERY/NATURAL GAS, JOHN ZINK, MODEL PNDR-20M, WITH LOW NOX BURNER, 27 MMBTU/HR	D148		NOX: LARGE SOURCE**; SOX: MAJOR SOURCE**	CO: 400 PPMV (5A) [RULE 1146, 11-17-2000; RULE 1146, 9-5-2008]; CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; NOX: 37 PPMV REFINERY/NATURAL GAS (3) [RULE 2012, 5-6-2005]; PM: (9) [RULE 404, 2-7-1986]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]	B61.4, C1.22, D232.1, D328.1, H23.1
<b>System 10: HYDROTREATING UNIT 100 HEATERS</b>					

\* (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 limit (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.

## FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL

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

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
<b>Process 2: HYDROTREATING</b>					P13.2
HEATER, HYDROTREATING FEED, 100-H-1, REFINERY/NATURAL GAS, WITH LOW NOX BURNER, STEAM OR WATER INJECTION, 38 MMBTU/HR WITH A/N: 535189  BURNER, FOUR (4) BURNERS, REFINERY/NATURAL GAS, JOHN ZINK, MODEL PNDR-20M, WITH LOW NOX BURNER, STEAM OR WATER INJECTION, 38 MMBTU/HR	D150		NOX: LARGE SOURCE**; SOX: MAJOR SOURCE**	CO: 400 PPMV (5A) [RULE 1146, 11-17-2000; RULE 1146, 9-5-2008]; CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; NOX: 37 PPMV REFINERY/NATURAL GAS (3) [RULE 2012, 5-6-2005]; PM: (9) [RULE 404, 2-7-1986]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]	B61.4, C1.27, D232.1, D328.1, H23.1
HEATER, STRIPPER COLUMN REBOILER, 100-H-2, REFINERY/NATURAL GAS, WITH LOW NOX BURNER, 30 MMBTU/HR WITH A/N: 535190  BURNER, FOUR (4) BURNERS, REFINERY/NATURAL GAS, JOHN ZINK, MODEL PNDR-18M, WITH LOW NOX BURNER, 30 MMBTU/HR	D152		NOX: LARGE SOURCE**; SOX: MAJOR SOURCE**	CO: 400 PPMV (5A) [RULE 1146, 11-17-2000; RULE 1146, 9-5-2008]; CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; NOX: 37 PPMV REFINERY/NATURAL GAS (3) [RULE 2012, 5-6-2005]; PM: (9) [RULE 404, 2-7-1986]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]	B61.4, C1.28, D232.1, D328.1, H23.1
<b>Process 3: CATALYTIC REFORMING</b>					P13.2
<b>System 1: CATALYTIC REFORMING UNIT 80</b>					S13.6, S15.2, S15.3, S31.2

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| <p>* (1) (1A) (1B) Denotes RECLAIM emission factor<br/>         (3) Denotes RECLAIM concentration limit<br/>         (5) (5A) (5B) Denotes command and control emission limit<br/>         (7) Denotes NSR applicability limit<br/>         (9) See App B for Emission Limits</p> | <p>(2) (2A) (2B) Denotes RECLAIM emission rate<br/>         (4) Denotes BACT emission limit<br/>         (6) Denotes air toxic control rule limit<br/>         (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)<br/>         (10) See section J for NESHAP/MACT requirements</p> |
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\*\* Refer to section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.

## FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL

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

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
<b>Process 3: CATALYTIC REFORMING</b>					P13.2
REACTOR, NO. 1, 80D-101, (SPHERICAL TYPE), DIAMETER: 12 FT A/N: 535191	D165			HAP: (10) [40CFR 63 Subpart UUU, #1, 4-20-2006]	
REACTOR, NO. 2, 80D-102, SPHERICAL TYPE, DIAMETER: 14 FT A/N: 535191	D166			HAP: (10) [40CFR 63 Subpart UUU, #1, 4-20-2006]	
REACTOR, NO. 3, 80D-103, SPHERICAL TYPE, DIAMETER: 18 FT A/N: 535191	D167			HAP: (10) [40CFR 63 Subpart UUU, #1, 4-20-2006]	
REACTOR, NO. 4, 80D-104, SPHERICAL TYPE, DIAMETER: 18 FT A/N: 535191	D168			HAP: (10) [40CFR 63 Subpart UUU, #1, 4-20-2006]	
COLUMN, STABILIZER, 80D-105, HEIGHT: 100 FT 6 IN; DIAMETER: 6 FT A/N: 535191	D169			HAP: (10) [40CFR 63 Subpart UUU, #1, 4-20-2006]	
ACCUMULATOR, 80-F-102, LENGTH: 20 FT ; DIAMETER: 5 FT A/N: 535191	D170			HAP: (10) [40CFR 63 Subpart UUU, #1, 4-20-2006]	
TANK, SURGE, 80-F-103, LENGTH: 20 FT ; DIAMETER: 12 FT A/N: 535191	D171			HAP: (10) [40CFR 63 Subpart UUU, #1, 4-20-2006]	
COMPRESSOR, 80GB-101, REFORMER RECYCLE GAS A/N: 535191	D174				
FRACTIONATOR, 80-D-300, REFORMATE, HEIGHT: 70 FT ; DIAMETER: 7 FT 6 IN A/N: 535191	D1373			HAP: (10) [40CFR 63 Subpart UUU, #1, 4-20-2006]	

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| <ul style="list-style-type: none"> <li>* (1) (1A) (1B) Denotes RECLAIM emission factor</li> <li>(3) Denotes RECLAIM concentration limit</li> <li>(5) (5A) (5B) Denotes command and control emission limit</li> <li>(7) Denotes NSR applicability limit</li> <li>(9) See App B for Emission Limits</li> </ul> | <ul style="list-style-type: none"> <li>(2) (2A) (2B) Denotes RECLAIM emission rate</li> <li>(4) Denotes BACT emission limit</li> <li>(6) Denotes air toxic control rule limit</li> <li>(8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)</li> <li>(10) See section J for NESHAP/MACT requirements</li> </ul> |
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\*\* Refer to section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.

## FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL

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

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
<b>Process 3: CATALYTIC REFORMING</b>					P13.2
ACCUMULATOR, 80-F-300, REFORMATE FRACTIONATOR OVERHEAD, LENGTH: 18 FT ; DIAMETER: 5 FT 6 IN A/N: 535191	D1374			HAP: (10) [40CFR 63 Subpart UUU, #1, 4-20-2006]	
TANK, 80-F-301, REFORMATE CONDENSATE, HEIGHT: 9 FT 6 IN; DIAMETER: 2 FT 6 IN A/N: 535191	D1375			HAP: (10) [40CFR 63 Subpart UUU, #1, 4-20-2006]	
VESSEL, SEPARATOR, 80F-101, REFORMATE, LENGTH: 20 FT ; DIAMETER: 8 FT A/N: 535191	D1515			HAP: (10) [40CFR 63 Subpart UUU, #1, 4-20-2006]	
TANK, 80F-151, PERCHLOROETHYLENE, HEIGHT: 5 FT ; DIAMETER: 2 FT A/N: 535191	D1516			HAP: (10) [40CFR 63 Subpart UUU, #1, 4-20-2006]	
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 535191	D1579			HAP: (10) [40CFR 63 Subpart CC, #5A, 6-23-2003]	H23.2
<b>System 3: CATALYTIC REFORMING UNIT 100</b>					S13.6, S15.2, S15.3, S31.2
COLUMN, 100-V-125, REFORMATE SPLITTER A/N: 535193	D754			HAP: (10) [40CFR 63 Subpart UUU, #1, 4-20-2006]	
VESSEL, SEPARATOR, V-100-100, REACTOR PRODUCT, HEIGHT: 20 FT ; DIAMETER: 10 FT 6 IN A/N: 535193	D106			HAP: (10) [40CFR 63 Subpart UUU, #1, 4-20-2006]	
COLUMN, DEBUTANIZER, V-100-101, HEIGHT: 80 FT ; DIAMETER: 8 FT A/N: 535193	D107			HAP: (10) [40CFR 63 Subpart UUU, #1, 4-20-2006]	

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| <ul style="list-style-type: none"> <li>* (1) (1A) (1B) Denotes RECLAIM emission factor</li> <li>(3) Denotes RECLAIM concentration limit</li> <li>(5) (5A) (5B) Denotes command and control emission limit</li> <li>(7) Denotes NSR applicability limit</li> <li>(9) See App B for Emission Limits</li> </ul> | <ul style="list-style-type: none"> <li>(2) (2A) (2B) Denotes RECLAIM emission rate</li> <li>(4) Denotes BACT emission limit</li> <li>(6) Denotes air toxic control rule limit</li> <li>(8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)</li> <li>(10) See section J for NESHAP/MACT requirements</li> </ul> |
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\*\* Refer to section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.

## FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL

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

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
<b>Process 3: CATALYTIC REFORMING</b>					P13.2
COLUMN, DEPROPANIZER, V-100-106, HEIGHT: 66 FT ; DIAMETER: 2 FT 6 IN A/N: 535193	D108			HAP: (10) [40CFR 63 Subpart UUU, #1, 4-20-2006]	
ACCUMULATOR, V-100-107, DEPROPANIZER OVERHEAD, LENGTH: 8 FT ; DIAMETER: 4 FT A/N: 535193	D109			HAP: (10) [40CFR 63 Subpart UUU, #1, 4-20-2006]	
TANK, V-100-103, CHLORIDE INJECTION, HEIGHT: 5 FT ; DIAMETER: 1 FT 6 IN A/N: 535193	D1514			HAP: (10) [40CFR 63 Subpart UUU, #1, 4-20-2006]	
COLUMN, DEHEXANIZER, V-100-108, HEIGHT: 146 FT ; DIAMETER: 11 FT A/N: 535193	D110			HAP: (10) [40CFR 63 Subpart UUU, #1, 4-20-2006]	
TANK, WASH, V-100-113, CAUSTIC, HEIGHT: 26 FT ; DIAMETER: 9 FT A/N: 535193	D111			HAP: (10) [40CFR 63 Subpart UUU, #1, 4-20-2006]	
VESSEL, RECEIVER, V-100-116, LENGTH: 22 FT ; DIAMETER: 2 FT 6 IN A/N: 535193	D114			HAP: (10) [40CFR 63 Subpart UUU, #1, 4-20-2006]	
REACTOR, NO. 1, REFORMER, R-100-100, HEIGHT: 19 FT ; DIAMETER: 5 FT 6 IN A/N: 535193	D116			HAP: (10) [40CFR 63 Subpart UUU, #1, 4-20-2006]	
REACTOR, NO. 2, REFORMER, R-100-101, HEIGHT: 22 FT 4 IN; DIAMETER: 6 FT 6 IN A/N: 535193	D117			HAP: (10) [40CFR 63 Subpart UUU, #1, 4-20-2006]	

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|---|---|
| <p>* (1) (1A) (1B) Denotes RECLAIM emission factor<br/>         (3) Denotes RECLAIM concentration limit<br/>         (5) (5A) (5B) Denotes command and control emission limit<br/>         (7) Denotes NSR applicability limit<br/>         (9) See App B for Emission Limits</p> | <p>(2) (2A) (2B) Denotes RECLAIM emission rate<br/>         (4) Denotes BACT emission limit<br/>         (6) Denotes air toxic control rule limit<br/>         (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)<br/>         (10) See section J for NESHAP/MACT requirements</p> |
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\*\* Refer to section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.

## FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL

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

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
<b>Process 3: CATALYTIC REFORMING</b>					P13.2
REACTOR, NO. 3, REFORMER, R-100-102, HEIGHT: 23 FT ; DIAMETER: 7 FT 6 IN A/N: 535193	D118			HAP: (10) [40CFR 63 Subpart UUU, #1, 4-20-2006]	
REACTOR, NO. 4, REFORMER, R-100-103, DIAMETER: 16 FT 6 IN A/N: 535193	D119			HAP: (10) [40CFR 63 Subpart UUU, #1, 4-20-2006]	
REACTOR, NO. 5, REFORMER, R-100-104, DIAMETER: 19 FT 6 IN A/N: 535193	D120			HAP: (10) [40CFR 63 Subpart UUU, #1, 4-20-2006]	
COMPRESSOR, C-100-100, RECYCLE GAS, CENTRIFUGAL A/N: 535193	D122				
COMPRESSOR, C-100-101, REFRIGERATION, CENTRIFUGAL A/N: 535193	D123				
ACCUMULATOR, V-100-102, DEBUTANIZER OVERHEAD, LENGTH: 20 FT ; DIAMETER: 5 FT 6 IN A/N: 535193	D125			HAP: (10) [40CFR 63 Subpart UUU, #1, 4-20-2006]	
KNOCK OUT POT, V-100-105, HEIGHT: 8 FT ; DIAMETER: 3 FT A/N: 535193	D126			HAP: (10) [40CFR 63 Subpart UUU, #1, 4-20-2006]	
ACCUMULATOR, V-100-109, DEHEXANIZER OVERHEAD, LENGTH: 13 FT ; DIAMETER: 6 FT A/N: 535193	D127			HAP: (10) [40CFR 63 Subpart UUU, #1, 4-20-2006]	
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 535193	D1581			HAP: (10) [40CFR 63 Subpart CC, #5A, 6-23-2003]	H23.2
<b>System 4: REFORMING UNIT 80 HEATERS</b>					

\* (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 limit (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.

## FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL

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

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
<b>Process 3: CATALYTIC REFORMING</b>					P13.2
HEATER, REFORMER, 80B-101, REFINERY/NATURAL GAS, WITH LOW NOX BURNER, 116 MMBTU/HR WITH A/N: 535194  BURNER, REFINERY/NATURAL GAS, JOHN ZINK, MODEL PSMR-12, 3.23 MMBTU/HR EACH, 10 BURNERS,  BURNER, REFINERY/NATURAL GAS, JOHN ZINK, MODEL PSMR-15, 4.66 MMBTU/HR EACH, 18 BURNERS,	D135	S140 S141	NOX: MAJOR SOURCE**; SOX: MAJOR SOURCE**	CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; PM: (9) [RULE 404, 2-7-1986]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]	B61.4, C1.41, D12.9, D28.4, D232.1, D328.1, H23.1
HEATER, REFORMER, 80B-102, REFINERY/NATURAL GAS, WITH LOW NOX BURNER, 68 MMBTU/HR WITH A/N: 535195  BURNER, REFINERY/NATURAL GAS, JOHN ZINK, MODEL PSMR-12, 2.4 MMBTU/HR EACH, 10 BURNERS,  BURNER, REFINERY/NATURAL GAS, JOHN ZINK, MODEL PSMR-15, 3.66 MMBTU/HR EACH, 12 BURNERS,	D136	S140 S141	NOX: MAJOR SOURCE**; SOX: MAJOR SOURCE**	CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; PM: (9) [RULE 404, 2-7-1986]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]	B61.4, C1.42, D12.9, D28.4, D232.1, D328.1, H23.1

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| <ul style="list-style-type: none"> <li>* (1) (1A) (1B) Denotes RECLAIM emission factor</li> <li>(3) Denotes RECLAIM concentration limit</li> <li>(5) (5A) (5B) Denotes command and control emission limit</li> <li>(7) Denotes NSR applicability limit</li> <li>(9) See App B for Emission Limits</li> </ul> | <ul style="list-style-type: none"> <li>(2) (2A) (2B) Denotes RECLAIM emission rate</li> <li>(4) Denotes BACT emission limit</li> <li>(6) Denotes air toxic control rule limit</li> <li>(8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)</li> <li>(10) See section J for NESHAP/MACT requirements</li> </ul> |
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\*\* Refer to section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.

## FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL

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

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
<b>Process 3: CATALYTIC REFORMING</b>					P13.2
HEATER, REFORMER, 80B-103, REFINERY/NATURAL GAS, 71 MMBTU/HR WITH A/N: 535196  BURNER, REFINERY/NATURAL GAS, JOHN ZINK, MODEL PSMR-15, 3.9 MMBTU/HR EACH, 10 BURNERS,  BURNER, REFINERY/NATURAL GAS, JOHN ZINK, MODEL PSMR-15, 5.2 MMBTU/HR EACH, 6 BURNERS,	D137	S140 S141	NOX: MAJOR SOURCE**; SOX: MAJOR SOURCE**	CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; PM: (9) [RULE 404, 2-7-1986]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]	B61.4, C1.43, D12.9, D28.4, D232.1, D328.1, H23.1
HEATER, REFORMER, 80B-104, REFINERY/NATURAL GAS, WITH LOW NOX BURNER, 56 MMBTU/HR WITH A/N: 535197  BURNER, REFINERY/NATURAL GAS, JOHN ZINK, MODEL PSMR-15, 5.6 MMBTU/HR EACH, 10 BURNERS,	D138	S140 S141	NOX: MAJOR SOURCE**; SOX: MAJOR SOURCE**	CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; PM: (9) [RULE 404, 2-7-1986]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]	B61.4, C1.44, D12.9, D28.4, D232.1, D328.1, H23.1

\* (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 limit (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.

## FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL

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

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
<b>Process 3: CATALYTIC REFORMING</b>					P13.2
HEATER, REFORMER, 80B-105, REFINERY/NATURAL GAS, 19 MMBTU/HR WITH A/N: 535198  BURNER, REFINERY/NATURAL GAS, JOHN ZINK, MODEL PNDR-12, 1.9 MMBTU/HR EACH, 10 BURNERS	D139	S140 S141	NOX: MAJOR SOURCE**; SOX: MAJOR SOURCE**	CO: 400 PPMV (5A) [RULE 1146, 11-17-2000; RULE 1146, 9-5-2008]; CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; PM: (9) [RULE 404, 2-7-1986]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]	B61.4, C1.45, D12.9, D28.4, D232.1, D328.1, H23.1
STACK, SERVING REFORMER HEATERS 80B-101, 102, 103, 104, &105, HEIGHT: 125 FT ; DIAMETER: 6 FT 9 IN A/N: 535198	S140	D135 D136 D137 D138 D139			
STACK, SERVING REFORMER HEATERS 80B-101, 102, 103, 104, & 105, HEIGHT: 125 FT ; DIAMETER: 6 FT 9 IN A/N: 535198	S141	D135 D136 D137 D138 D139			
<b>System 5: REFORMING UNIT 100 HEATERS</b>					

\* (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 limit (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.

## FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL

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

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
<b>Process 3: CATALYTIC REFORMING</b>					P13.2
HEATER, REFORMER CHARGE, 100H-100, REFINERY/NATURAL GAS, WITH OPTIONAL STEAM INJECTION, WITH LOW NOX BURNER, 110 MMBTU/HR WITH A/N: 535200  BURNER, FOURTEEN (14) BURNERS, REFINERY/NATURAL GAS, JOHN ZINK, MODEL NDR-PC-CR-18, 7.86 MMBTU/HR EACH, WITH LOW NOX BURNER	D154	S159 S160	NOX: MAJOR SOURCE**; SOX: MAJOR SOURCE**	CO: 2.89 LBS/HR (7) [RULE 1303(b)(2)-Offset, 5-10-1996]; CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; PM: (9) [RULE 404, 2-7-1986]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]; ROG: 0.58 LBS/HR (7) [RULE 1303(b)(2)-Offset, 5-10-1996]	A305.1, B61.4, C1.57, D12.14, D28.13, D29.2, D232.1, D328.2, H23.1
HEATER, REFORMER INTERMEDIATE, 100H-101, REFINERY/NATURAL GAS, WITH OPTIONAL STEAM INJECTION, WITH LOW NOX BURNER, 100 MMBTU/HR WITH A/N: 535201  BURNER, FOURTEEN (14) BURNERS, REFINERY/NATURAL GAS, JOHN ZINK, MODEL NDR-PC-CR-18, 7.14 MMBTU/HR EACH, WITH LOW NOX BURNER	D155	S159 S160	NOX: MAJOR SOURCE**; SOX: MAJOR SOURCE**	CO: 2.63 LBS/HR (7) [RULE 1303(b)(2)-Offset, 5-10-1996]; CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; PM: (9) [RULE 404, 2-7-1986]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]; ROG: 0.53 LBS/HR (7) [RULE 1303(b)(2)-Offset, 5-10-1996]	A305.1, B61.4, C1.58, D12.14, D28.13, D29.2, D232.1, D328.2, H23.1

\* (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 limit (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.

## FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL

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

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
<b>Process 3: CATALYTIC REFORMING</b>					P13.2
HEATER, REFORMER INTERMEDIATE, 100H-102, REFINERY/NATURAL GAS, WITH OPTIONAL STEAM INJECTION, WITH LOW NOX BURNER, 70 MMBTU/HR WITH A/N: 535202  BURNER, NINE (9) BURNERS, REFINERY/NATURAL GAS, JOHN ZINK, MODEL NDR-PC-CR-18, 7.78 MMBTU/HR EACH, WITH LOW NOX BURNER	D156	S159 S160	NOX: MAJOR SOURCE**; SOX: MAJOR SOURCE**	CO: 1.84 LBS/HR (7) [RULE 1303(b)(2)-Offset, 5-10-1996]; CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; PM: (9) [RULE 404, 2-7-1986]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]; ROG: 0.37 LBS/HR (7) [RULE 1303(b)(2)-Offset, 5-10-1996]	A305.1, B61.4, C1.59, D12.14, D28.13, D29.2, D232.1, D328.2, H23.1
HEATER, REFORMER INTERMEDIATE, 100H-103, REFINERY/NATURAL GAS, WITH OPTIONAL STEAM INJECTION, WITH LOW NOX BURNER, 42 MMBTU/HR WITH A/N: 535203  BURNER, FIVE (5) BURNERS, REFINERY/NATURAL GAS, JOHN ZINK, MODEL NDR-PC-CR-18, 8.40 MMBTU/HR EACH, WITH LOW NOX BURNER	D157	S159 S160	NOX: MAJOR SOURCE**; SOX: MAJOR SOURCE**	CO: 1.11 LBS/HR (7) [RULE 1303(b)(2)-Offset, 5-10-1996]; CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; PM: (9) [RULE 404, 2-7-1986]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]; ROG: 0.22 LBS/HR (7) [RULE 1303(b)(2)-Offset, 5-10-1996]	A305.1, B61.4, C1.60, D12.14, D28.13, D232.1, D328.2, H23.1

\* (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 limit (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.

## FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL

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

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
<b>Process 3: CATALYTIC REFORMING</b>					P13.2
HEATER, REFORMER INTERMEDIATE, 100H-104, REFINERY/NATURAL GAS, WITH OPTIONAL STEAM INJECTION, WITH LOW NOX BURNER, 24 MMBTU/HR WITH A/N: 535204  BURNER, THREE (3) BURNERS, REFINERY/NATURAL GAS, JOHN ZINK, MODEL NDR-PC-CR-18, 8.00 MMBTU/HR EACH, WITH LOW NOX BURNER	D158	S159 S160	NOX: MAJOR SOURCE**; SOX: MAJOR SOURCE**	CO: 0.63 LBS/HR (7) [RULE 1303(b)(2)-Offset, 5-10-1996]; CO: 400 PPMV (5A) [RULE 1146, 11-17-2000; RULE 1146, 9-5-2008]; CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; PM: (9) [RULE 404, 2-7-1986]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]; ROG: 0.13 LBS/HR (7) [RULE 1303(b)(2)-Offset, 5-10-1996]	A305.1, B61.4, C1.61, D12.14, D28.13, D232.1, D328.1, H23.1
STACK, COMMON TO HEATERS H-100, H-101, H-102, H-103, & H-104, HEIGHT: 153 FT ; DIAMETER: 8 FT 3 IN A/N: 535210	S159	D154 D155 D156 D157 D158			
STACK, COMMON TO HEATERS H-100, H-101, H-102, H-103, & H-104, HEIGHT: 153 FT ; DIAMETER: 8 FT 3 IN A/N: 535210	S160	D154 D155 D156 D157 D158			

\* (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 limit (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.

## FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL

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

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
<b>Process 3: CATALYTIC REFORMING</b>					P13.2
HEATER, DEBUTANIZER REBOILER, 100-H-105, REFINERY/NATURAL GAS, WITH LOW NOX BURNER, 31 MMBTU/HR WITH A/N: 535206  BURNER, FOUR (4) BURNERS, REFINERY/NATURAL GAS, JOHN ZINK, MODEL PNDR-20M, WITH LOW NOX BURNER, 31 MMBTU/HR	D161		NOX: LARGE SOURCE**, SOX: MAJOR SOURCE**	CO: 400 PPMV (5A) [RULE 1146, 11-17-2000; RULE 1146, 9-5-2008]; CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; NOX: 37 PPMV REFINERY/NATURAL GAS (3) [RULE 2012, 5-6-2005]; PM: (9) [RULE 404, 2-7-1986]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]	B61.4, C1.33, D232.1, D328.1, H23.1
HEATER, 100-H-107, STEAM SUPERHEATER, REFINERY/NATURAL GAS, WITH LOW NOX BURNER, 14 MMBTU/HR WITH A/N: 535209  BURNER, THREE (3), REFINERY/NATURAL GAS, JOHN ZINK, MODEL PNDR-18M, WITH LOW NOX BURNER, 14 MMBTU/HR	D163		NOX: LARGE SOURCE**, SOX: MAJOR SOURCE**	CO: 400 PPMV (5A) [RULE 1146, 11-17-2000; RULE 1146, 9-5-2008]; CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; NOX: 37 PPMV REFINERY/NATURAL GAS (3) [RULE 2012, 5-6-2005]; PM: (9) [RULE 404, 2-7-1986]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]	B61.4, C1.34, D232.1, D328.1, H23.1
<b>Process 4: HYDROGEN PRODUCTION</b>					P13.2
<b>System 1: HYDROGEN GENERATION UNIT 120</b>					S2.1, S13.5, S13.6, S15.2, S15.3

- |  |   |
|--|---|
| * (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 limit (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.

## FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL

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

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
<b>Process 4: HYDROGEN PRODUCTION</b>					P13.2
ABSORBER, D-101, HYDROGEN SULFIDE, HEIGHT: 51 FT 4 IN; DIAMETER: 3 FT 6 IN A/N: 535212	D198				
SCRUBBER, CAUSTIC, D-102, HEIGHT: 73 FT 6 IN; DIAMETER: 3 FT 6 IN A/N: 535212	D199	C748			
VESSEL, HYDROGENATOR, D-103, HEIGHT: 16 FT 6 IN; DIAMETER: 9 FT A/N: 535212	D200	C748			
VESSEL, TREATER, ZNO, D-104, HEIGHT: 19 FT 6 IN; DIAMETER: 9 FT A/N: 535212	D201				
VESSEL, FIRST STAGE SHIFT CONVERTER, D-105A, HEIGHT: 13 FT ; DIAMETER: 12 FT A/N: 535212	D202				
VESSEL, SECOND STAGE SHIFT CONVERTER, D-105B1, SECTION 1, HEIGHT: 17 FT 6 IN; DIAMETER: 12 FT A/N: 535212	D203				
VESSEL, SECOND STAGE SHIFT CONVERTER, D-105B2, SECTION 2, HEIGHT: 14 FT 7 IN; DIAMETER: 12 FT A/N: 535212	D204				

\* (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 limit (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.

## FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL

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

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
<b>Process 4: HYDROGEN PRODUCTION</b>					P13.2
ABSORBER, CARBON DIOXIDE, D-106, HEIGHT: 65 FT ; DIAMETER: 10 FT A/N: 535212	D205				
COLUMN, CARBON DIOXIDE STRIPPER, D-107, HEIGHT: 53 FT ; DIAMETER: 14 FT 1 IN A/N: 535212	D206				
COLUMN, METHANATOR, D-108, HEIGHT: 14 FT ; DIAMETER: 8 FT A/N: 535212	D207				
VESSEL, SEPARATOR, HIGH TEMPERATURE, F-102, HEIGHT: 14 FT 1 IN; DIAMETER: 4 FT 6 IN A/N: 535212	D208				
VESSEL, SEPARATOR, LOW TEMPERATURE, F-103, HEIGHT: 9 FT ; DIAMETER: 4 FT 6 IN A/N: 535212	D209				
VESSEL, DEAERATOR, F-106, LENGTH: 20 FT ; DIAMETER: 9 FT A/N: 535212	D210				
FILTER, F-107, HEIGHT: 6 FT 6 IN; DIAMETER: 5 FT A/N: 535212	D211				
POT, MEA DRIPS, F-110, LENGTH: 8 FT ; DIAMETER: 2 FT A/N: 535212	D213				
VESSEL, DEGASIFIER, F-111, HEIGHT: 10 FT ; DIAMETER: 6 FT A/N: 535212	D214			<b>HAP: (10) [40CFR 63 Subpart CC, #2, 6-23-2003]</b>	

\* (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 limit (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.

## FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL

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

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
<b>Process 4: HYDROGEN PRODUCTION</b>					P13.2
TANK, F-113, HEIGHT: 16 FT ; DIAMETER: 15 FT A/N: 535212	D215				
KNOCK OUT POT, F-114, SOUR GAS, HEIGHT: 6 FT ; DIAMETER: 2 FT 6 IN A/N: 535212	D216				
TANK, FLASH, F-117, CAUSTIC, HEIGHT: 6 FT ; DIAMETER: 1 FT A/N: 535212	D217			<b>HAP: (10) [40CFR 63 Subpart CC, #2, 6-23-2003]</b>	
ACCUMULATOR, RECEIVER, F-105, STRIPPER REFLUX, HEIGHT: 12 FT ; DIAMETER: 4 FT 6 IN A/N: 535212	D219				
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 535212	D1583				H23.2
VESSEL, SEPARATOR, 120-F-120, E-114 OVERHEAD A/N: 535212	D1517				
KNOCK OUT POT, 120-F-121 A/N: 535212	D1518				
<b>System 2: HYDROGEN GENERATION UNIT 118</b>					S2.1, S13.5, S13.6, S15.2, S15.3, S31.2
KNOCK OUT POT, 118-V-401, HEIGHT: 10 FT ; DIAMETER: 5 FT A/N: 535213	D755			<b>HAP: (10) [40CFR 63 Subpart CC, #2, 6-23-2003]</b>	
REACTOR, DESULFURIZERS, 118-R-402A A/N: 535213	D756				

\* (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 limit (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.

## FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL

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

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
<b>Process 4: HYDROGEN PRODUCTION</b>					P13.2
REACTOR, DESULFURIZERS, 118-R-402B, HEIGHT: 22 FT ; DIAMETER: 9 FT 6 IN A/N: 535213	D757				
KNOCK OUT POT, 118-V-404, HEIGHT: 8 FT ; DIAMETER: 4 FT A/N: 535213	D758				
COMPRESSOR, 118-C-401A, RECIPROCATING TYPE, 4250 H.P. A/N: 535213	D759				
COMPRESSOR, 118-C-401B, RECIPROCATING TYPE, 4250 H.P. A/N: 535213	D760				
VESSEL, COALESCER, 118-ME-406, LUBE OIL, HEIGHT: 6 FT 4 IN; DIAMETER: 1 FT 4 IN A/N: 535213	D761				
REACTOR, DESULFURIZER, 118-R-404A, HEIGHT: 20 FT ; DIAMETER: 10 FT A/N: 535213	D764				
REACTOR, DESULFURIZER, 118-R-404B, HEIGHT: 20 FT ; DIAMETER: 10 FT A/N: 535213	D765				
REACTOR, 118-H-401, REFORMING, TUBULAR TYPE A/N: 535213	D766				
DRUM, BLOWDOWN, 118-V-408, HEIGHT: 10 FT ; DIAMETER: 3 FT A/N: 535213	D768				

- \* (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 limit (e.g. NSPS, NESHAPS, etc.)
- (10) See section J for NESHAP/MACT requirements

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## FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL

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

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
<b>Process 4: HYDROGEN PRODUCTION</b>					P13.2
REACTOR, 118-R-405, SHIFT REACTOR, HEIGHT: 14 FT ; DIAMETER: 9 FT A/N: 535213	D769				
VESSEL, DEAERATOR, 118-V-406, LENGTH: 24 FT ; DIAMETER: 9 FT A/N: 535213	D772	D1349			E73.3, K67.12
VESSEL, SEPARATOR, 118-V-403, HEIGHT: 10 FT ; DIAMETER: 4 FT 6 IN A/N: 535213	D773				
ABSORBER, 118-V-420A, PSA ABSORPTION, HEIGHT: 21 FT 8 IN; DIAMETER: 8 FT 6 IN A/N: 535213	D775	D786			
ABSORBER, 118-V-420B, PSA ABSORPTION, HEIGHT: 21 FT 8 IN; DIAMETER: 8 FT 6 IN A/N: 535213	D776	D786			
ABSORBER, 118-V-420C, PSA ABSORPTION, HEIGHT: 21 FT 8 IN; DIAMETER: 8 FT 6 IN A/N: 535213	D777	D786			
ABSORBER, 118V-420D, PSA ABSORPTION, HEIGHT: 21 FT 8 IN; DIAMETER: 8 FT 6 IN A/N: 535213	D778	D786			
ABSORBER, 118-V-420E, PSA ABSORPTION, HEIGHT: 21 FT 8 IN; DIAMETER: 8 FT 6 IN A/N: 535213	D779	D786			

- \* (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 limit (e.g. NSPS, NESHAPS, etc.)
- (10) See section J for NESHAP/MACT requirements

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## FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL

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

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
<b>Process 4: HYDROGEN PRODUCTION</b>					P13.2
ABSORBER, 118-V-420F, PSA ABSORPTION, HEIGHT: 21 FT 8 IN; DIAMETER: 8 FT 6 IN A/N: 535213	D780	D786			
ABSORBER, 118-V-420G, PSA ABSORPTION, HEIGHT: 21 FT 8 IN; DIAMETER: 8 FT 6 IN A/N: 535213	D781	D786			
ABSORBER, 118-V-420H, PSA ABSORPTION, HEIGHT: 21 FT 8 IN; DIAMETER: 8 FT 6 IN A/N: 535213	D782	D786			
ABSORBER, 118-V-420I, PSA ABSORPTION, HEIGHT: 21 FT 8 IN; DIAMETER: 8 FT 6 IN A/N: 535213	D783	D786			
ABSORBER, 118-V-420J, PSA ABSORPTION, HEIGHT: 21 FT 8 IN; DIAMETER: 8 FT 6 IN A/N: 535213	D784	D786			
FILTER, 118-F-420, HEIGHT: 6 FT 2 IN; DIAMETER: 8 FT 6 IN A/N: 535213	D785				
TANK, HOLDING, 118-V-421, PSA OFFGAS, HEIGHT: 68 FT 6 IN; DIAMETER: 12 FT 6 IN A/N: 535213	D786	D775 D776 D777 D778 D779 D780 D781 D782 D783 D784 D1349			E73.6
VESSEL, COALESCER, 118-ME-407, HEIGHT: 6 FT 4 IN; DIAMETER: 1 FT 8 IN A/N: 535213	D787				

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| <p>* (1) (1A) (1B) Denotes RECLAIM emission factor<br/>         (3) Denotes RECLAIM concentration limit<br/>         (5) (5A) (5B) Denotes command and control emission limit<br/>         (7) Denotes NSR applicability limit<br/>         (9) See App B for Emission Limits</p> | <p>(2) (2A) (2B) Denotes RECLAIM emission rate<br/>         (4) Denotes BACT emission limit<br/>         (6) Denotes air toxic control rule limit<br/>         (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)<br/>         (10) See section J for NESHAP/MACT requirements</p> |
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\*\* Refer to section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.

## FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL

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

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
<b>Process 4: HYDROGEN PRODUCTION</b>					P13.2
VESSEL, 118-V-412, HOT PROCESS CONDENSATE SEPARATOR A/N: 535213	D1725				
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 535213	D1585				
<b>System 3: HYDROGEN GENERATION UNIT 120 HEATERS</b>					
HEATER, REFORMING, 119-B-101, REFINERY/NATURAL GAS, WITH 608 SELAS K948 RADIANT CUP GAS BURNERS, 350 MMBTU/HR A/N: 535302	D220	C221	NOX: MAJOR SOURCE**; SOX: MAJOR SOURCE**	CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; PM: (9) [RULE 404, 2-7-1986]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]	B61.4, C1.35, D28.11, D232.1, D328.2, E54.2, H23.1
SELECTIVE CATALYTIC REDUCTION, ISHIKAWAJIMA-HARIMA INDUSTRIES, HONEYCOMB TYPE, 280 CUBIC FEET WITH AMMONIA INJECTION	C221	D220		NH3: 20 PPMV (4) [RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997]	D28.17
<b>System 4: HYDROGEN GENERATION UNIT 118 HEATERS</b>					

\* (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 limit (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.

## FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL

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

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
<b>Process 4: HYDROGEN PRODUCTION</b>					P13.2
HEATER, HYDROGEN REFORMING, 118-H-401, NATURAL GAS, PSA GAS, REFINERY/NATURAL GAS, HOWE BAKER ENGINEERS, WITH LOW NOX BURNER, 460 MMBTU/HR WITH A/N: 535303  BURNER, 72 BURNERS, NATURAL GAS, PSA GAS, REFINERY/NATURAL GAS, CALLIDUS, MODEL LE-CRG, WITH LOW NOX BURNER, 460 MMBTU/HR	D1349	D772 D786 C1352	NOX: MAJOR SOURCE**; SOX: MAJOR SOURCE**	CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; NOX: 4.8 LBS/HR (7) [RULE 2005, 5-6-2005]; NOX: 7 PPMV (7) [RULE 2005, 5-6-2005]; PM: (9) [RULE 404, 2-7-1986]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]; SO2: 20 PPMV (8) [40CFR 60 Subpart J, 6-24-2008]; SOX: 11.1 LBS/HR (7) [RULE 2005, 5-6-2005]	A63.1, A195.1, B61.1, D29.12, D82.6, D328.1, E54.3, H23.34, K67.1, K67.4
<b>System 5: H2 GENERATION U118 SCR SYSTEM SERVING HEATER 118-H-401</b>					S11.1
SELECTIVE CATALYTIC REDUCTION, 357 CU.FT. WITH A/N: 535304  AMMONIA INJECTION, AQUEOUS AMMONIA, WITH A STANDBY ANHYDROUS AMMONIA UNIT	C1352	D1349		NH3: 20 PPMV (4) [RULE 1303(a)(1)-BACT, 5-10-1996]	D12.1, D29.13, E71.2
<b>Process 5: HYDROCRACKING</b>					P13.2
<b>System 1: HYDROCRACKING UNIT 120</b>					S13.6, S15.2, S15.9, S31.2

\* (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 limit (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.

## FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL

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

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
<b>Process 5: HYDROCRACKING</b>					P13.2
KNOCK OUT POT, 120-F-223, LOW PRESSURE SOUR GAS, HEIGHT: 14 FT ; DIAMETER: 2 FT A/N: 535305	D247				
ABSORBER, 120-F-225, CHLORIDE, HEIGHT: 27 FT 3 IN; DIAMETER: 7 FT 6 IN A/N: 535305	D1521				
KNOCK OUT POT, 120-F-222, MAKE-UP HYDROGEN, HEIGHT: 14 FT ; DIAMETER: 2 FT A/N: 535305	D246				
COMPRESSOR, 120-GB-203A, H2 MAKE-UP/H2 PLANT FEED GAS, 4000 HP, 3 STAGES A/N: 535305	D250				
COMPRESSOR, 120-GB-203B, H2 MAKE-UP/H2 PLANT FEED GAS, 4000 HP, 3 STAGES A/N: 535305	D251				
COMPRESSOR, 120-GB-203C, HYDROGEN MAKEUP GAS, RECIPROCATING, 3000 HP A/N: 535305	D252				
COMPRESSOR, 120-GB-201, RECYCLE GAS, CENTRIFUGAL, 4500 HP A/N: 535305	D249				
FILTER, 120-F-203-A, LCCO FEED, HEIGHT: 7 FT ; DIAMETER: 3 FT A/N: 535305	D1519				
VESSEL, COALESCER, 120-F-213A, HEIGHT: 7 FT ; DIAMETER: 3 FT A/N: 535305	D254				

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| <ul style="list-style-type: none"> <li>* (1) (1A) (1B) Denotes RECLAIM emission factor</li> <li>(3) Denotes RECLAIM concentration limit</li> <li>(5) (5A) (5B) Denotes command and control emission limit</li> <li>(7) Denotes NSR applicability limit</li> <li>(9) See App B for Emission Limits</li> </ul> | <ul style="list-style-type: none"> <li>(2) (2A) (2B) Denotes RECLAIM emission rate</li> <li>(4) Denotes BACT emission limit</li> <li>(6) Denotes air toxic control rule limit</li> <li>(8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)</li> <li>(10) See section J for NESHAP/MACT requirements</li> </ul> |
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## FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL

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

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
<b>Process 5: HYDROCRACKING</b>					P13.2
FILTER, 120-F-203-B, GAS OIL FEED, HEIGHT: 7 FT ; DIAMETER: 3 FT A/N: 535305	D1520				
VESSEL, COALESCER, 120-F-213B, HEIGHT: 7 FT ; DIAMETER: 3 FT A/N: 535305	D255				
TANK, 120-F-201, FRESH FEED, HEIGHT: 40 FT ; DIAMETER: 15 FT A/N: 535305	D233				
REACTOR, PRETREATING, 120-D-201, HEIGHT: 101 FT 4 IN; DIAMETER: 12 FT A/N: 535305	D222				
REACTOR, FIRST STAGE, 120-D-202, HEIGHT: 78 FT 2 IN; DIAMETER: 11 FT 5 IN A/N: 535305	D223				
REACTOR, SECOND STAGE, 120-D-203, HEIGHT: 88 FT 7 IN; DIAMETER: 10 FT 7 IN A/N: 535305	D224				
VESSEL, SEPARATOR, 120-F-268, HYDROTREATER SAMPLE, HEIGHT: 1 FT 6 IN; DIAMETER: 4.5 IN A/N: 535305	D256				
COLUMN, RECYCLE GAS SCRUBBER, 120-D-205, HEIGHT: 34 FT ; DIAMETER: 8 FT 6 IN A/N: 535305	D226			<b>HAP: (10) [40CFR 63 Subpart CC, #2, 6-23-2003]</b>	
VESSEL, SEPARATOR, HIGH PRESSURE, 120-F-202, LENGTH: 16 FT ; DIAMETER: 5 FT A/N: 535305	D234				

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| <ul style="list-style-type: none"> <li>* (1) (1A) (1B) Denotes RECLAIM emission factor</li> <li>(3) Denotes RECLAIM concentration limit</li> <li>(5) (5A) (5B) Denotes command and control emission limit</li> <li>(7) Denotes NSR applicability limit</li> <li>(9) See App B for Emission Limits</li> </ul> | <ul style="list-style-type: none"> <li>(2) (2A) (2B) Denotes RECLAIM emission rate</li> <li>(4) Denotes BACT emission limit</li> <li>(6) Denotes air toxic control rule limit</li> <li>(8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)</li> <li>(10) See section J for NESHAP/MACT requirements</li> </ul> |
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## FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL

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

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
<b>Process 5: HYDROCRACKING</b>					P13.2
KNOCK OUT POT, RECYCLE GAS, 120-D-204, HEIGHT: 30 FT ; DIAMETER: 7 FT A/N: 535305	D225				
TANK, FLASH, LOW PRESSURE, 120-F-204, LENGTH: 26 FT ; DIAMETER: 6 FT A/N: 535305	D235				
FRACTIONATOR, 120-D-206, HEIGHT: 130 FT ; DIAMETER: 12 FT A/N: 535305	D227				
ACCUMULATOR, 120-F-207, FRACTIONATOR REFLUX, LENGTH: 24 FT ; DIAMETER: 7 FT A/N: 535305	D236				
ACCUMULATOR, 120-F-208, FRACTIONATOR OVERHEAD, LENGTH: 24 FT ; DIAMETER: 7 FT A/N: 535305	D237				
COMPRESSOR, 120-GB-204A, D-206 OVERHEAD GAS TO F-209, 450 HP A/N: 535305	D1522				
ABSORBER, 120-F-209, LENGTH: 15 FT ; DIAMETER: 5 FT A/N: 535305	D238				
ABSORBER, PENTANE, 120-D-209, HEIGHT: 50 FT ; DIAMETER: 3 FT 6 IN A/N: 535305	D230				
VESSEL, 120-F-210, LEAN OIL, HEIGHT: 20 FT ; DIAMETER: 3 FT A/N: 535305	D239				

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| <ul style="list-style-type: none"> <li>* (1) (1A) (1B) Denotes RECLAIM emission factor</li> <li>(3) Denotes RECLAIM concentration limit</li> <li>(5) (5A) (5B) Denotes command and control emission limit</li> <li>(7) Denotes NSR applicability limit</li> <li>(9) See App B for Emission Limits</li> </ul> | <ul style="list-style-type: none"> <li>(2) (2A) (2B) Denotes RECLAIM emission rate</li> <li>(4) Denotes BACT emission limit</li> <li>(6) Denotes air toxic control rule limit</li> <li>(8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)</li> <li>(10) See section J for NESHAP/MACT requirements</li> </ul> |
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## FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL

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

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
<b>Process 5: HYDROCRACKING</b>					P13.2
COLUMN, DEBUTANIZER, 120-D-210, HEIGHT: 103 FT ; DIAMETER: 9 FT A/N: 535305	D231				
ACCUMULATOR, 120-F-211, DEBUTANIZER OVERHEAD, LENGTH: 24 FT ; DIAMETER: 6 FT A/N: 535305	D240				
COMPRESSOR, 120-GB-204C, RECIPROCATING, 1750 HP A/N: 535305	D253				H23.3
COLUMN, DEPROPANIZER, 120-D-211, HEIGHT: 106 FT ; DIAMETER: 7 FT 6 IN A/N: 535305	D232				
ACCUMULATOR, 120-F-212, DEPROPANIZER OVERHEAD, LENGTH: 18 FT ; DIAMETER: 5 FT 6 IN A/N: 535305	D241				
COLUMN, MUK SPLITTER, 120-D-207, HEIGHT: 40 FT ; DIAMETER: 7 FT A/N: 535305	D228				
FRACTIONATOR, 120-D-215, MEDIUM UNICRACKATE, HEIGHT: 80 FT 6 IN; DIAMETER: 6 FT A/N: 535305	D1361				
ACCUMULATOR, 120-F-305, FRACTIONATOR OVERHEAD, LENGTH: 20 FT ; DIAMETER: 4 FT A/N: 535305	D1362				

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| <ul style="list-style-type: none"> <li>* (1) (1A) (1B) Denotes RECLAIM emission factor</li> <li>(3) Denotes RECLAIM concentration limit</li> <li>(5) (5A) (5B) Denotes command and control emission limit</li> <li>(7) Denotes NSR applicability limit</li> <li>(9) See App B for Emission Limits</li> </ul> | <ul style="list-style-type: none"> <li>(2) (2A) (2B) Denotes RECLAIM emission rate</li> <li>(4) Denotes BACT emission limit</li> <li>(6) Denotes air toxic control rule limit</li> <li>(8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)</li> <li>(10) See section J for NESHAP/MACT requirements</li> </ul> |
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## FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL

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

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
<b>Process 5: HYDROCRACKING</b>					P13.2
COLUMN, HUK SPLITTER, 120-D-208, HEIGHT: 30 FT ; DIAMETER: 7 FT A/N: 535305	D229				
TANK, SURGE, 120-F-219, OIL, HEIGHT: 40 FT ; DIAMETER: 15 FT A/N: 535305	D245				
TANK, FLASH, 120-F-215, FOUL WATER, LENGTH: 15 FT ; DIAMETER: 4 FT 6 IN A/N: 535305	D242			<b>HAP: (10) [40CFR 63 Subpart CC, #2, 6-23-2003]</b>	
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 535305	D1587			<b>HAP: (10) [40CFR 63 Subpart CC, #5A, 6-23-2003]</b>	H23.3
<b>System 2: HYDROCRACKING UNIT 120 HEATERS</b>					
HEATER, HYDROCRACKING RECYCLE GAS, 120-B-201, REFINERY/NATURAL GAS, WITH LOW NOX BURNER, 39 MMBTU/HR WITH A/N: 535306  BURNER, FOUR (4) BURNERS, REFINERY/NATURAL GAS, JOHN ZINK, MODEL PNDR-16M, WITH LOW NOX BURNER, 39 MMBTU/HR	D259	S261	NOX: LARGE SOURCE**; SOX: MAJOR SOURCE**	<b>CO: 400 PPMV (5A) [RULE 1146, 11-17-2000; RULE 1146, 9-5-2008]; CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; NOX: 37 PPMV REFINERY/NATURAL GAS (3) [RULE 2012, 5-6-2005]; PM: (9) [RULE 404, 2-7-1986]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]</b>	B61.4, C1.36, D232.1, D328.1, H23.1

- \* (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 limit (e.g. NSPS, NESHAPS, etc.)
- (10) See section J for NESHAP/MACT requirements

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## FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL

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

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
<b>Process 5: HYDROCRACKING</b>					P13.2
HEATER, HYDROCRACKING RECYCLE GAS, 120-B-202, REFINERY/NATURAL GAS, WITH LOW NOX BURNER, 17 MMBTU/HR WITH A/N: 535307  BURNER, FOUR (4) BURNERS, REFINERY/NATURAL GAS, JOHN ZINK, MODEL PNDR-16, WITH LOW NOX BURNER, 17 MMBTU/HR	D260	S261	NOX: LARGE SOURCE**, SOX: MAJOR SOURCE**	CO: 400 PPMV (5A) [RULE 1146, 11-17-2000; RULE 1146, 9-5-2008]; CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; NOX: 37 PPMV REFINERY/NATURAL GAS (3) [RULE 2012, 5-6-2005]; PM: (9) [RULE 404, 2-7-1986]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]	B61.4, C1.25, D232.1, D328.1, H23.1
STACK, COMMON TO HEATERS B-201 AND B-202, HEIGHT: 130 FT ; DIAMETER: 3 FT 11 IN A/N: 535307	S261	D259 D260			
HEATER, HYDROCRACKING RECYCLE GAS, 120-B-203, REFINERY/NATURAL GAS, WITH LOW NOX BURNER, 37 MMBTU/HR WITH A/N: 535308  BURNER, FOUR (4) BURNERS, REFINERY/NATURAL GAS, JOHN ZINK, MODEL PNDR-16, WITH LOW NOX BURNER, 37 MMBTU/HR	D262		NOX: LARGE SOURCE**, SOX: MAJOR SOURCE**	CO: 400 PPMV (5A) [RULE 1146, 11-17-2000; RULE 1146, 9-5-2008]; CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; NOX: 37 PPMV REFINERY/NATURAL GAS (3) [RULE 2012, 5-6-2005]; PM: (9) [RULE 404, 2-7-1986]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]	B61.4, C1.37, D232.1, D328.1, H23.1

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| <p>* (1) (1A) (1B) Denotes RECLAIM emission factor<br/>         (3) Denotes RECLAIM concentration limit<br/>         (5) (5A) (5B) Denotes command and control emission limit<br/>         (7) Denotes NSR applicability limit<br/>         (9) See App B for Emission Limits</p> | <p>(2) (2A) (2B) Denotes RECLAIM emission rate<br/>         (4) Denotes BACT emission limit<br/>         (6) Denotes air toxic control rule limit<br/>         (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)<br/>         (10) See section J for NESHAP/MACT requirements</p> |
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## FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL

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

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
<b>Process 5: HYDROCRACKING</b>					P13.2
HEATER, 120-B-204, REBOILER, REFINERY/NATURAL GAS, WITH LOW NOX BURNER, 135 MMBTU/HR WITH A/N: 535309  BURNER, 10 BURNERS, NATURAL GAS, REFINERY GAS, CALLIDUS TECHNOLOGIES, MODEL LE-CSG-10W, WITH LOW NOX BURNER	D264		NOX: MAJOR SOURCE**; SOX: MAJOR SOURCE**	CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; PM: (9) [RULE 404, 2-7-1986]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]	B61.4, C1.40, D232.1, D328.2, H23.1
<b>Process 6: ALKYLATION AND POLYMERIZATION</b>					P13.2
<b>System 1: ALKYLATION UNIT 110</b>					S13.6, S13.10, S15.2, S15.3, S31.1
TANK, WASH, P-P/B-B CAUSTIC PREWASH, F-8, LENGTH: 19 FT ; DIAMETER: 5 FT A/N: 535310	D288				
VESSEL, MERCAPTAN SCRUBBER, D-6, HEIGHT: 47 FT ; DIAMETER: 4 FT 6 IN A/N: 535310	D272				
TANK, WASH, P-P/B-B WATER, F-9, LENGTH: 26 FT ; DIAMETER: 5 FT A/N: 535310	D289				
DRUM, KNOCKOUT, BUTANE, F-12, LENGTH: 8 FT ; DIAMETER: 4 FT A/N: 535310	D292				
TANK, SURGE, B-B FEED, F-101, LENGTH: 60 FT ; DIAMETER: 12 FT A/N: 535310	D303				

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

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## FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL

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

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
<b>Process 6: ALKYLATION AND POLYMERIZATION</b>					P13.2
VESSEL, VAPORIZER, C3/C4, F-103A, LENGTH: 27 FT 8 IN; DIAMETER: 4 FT 6 IN A/N: 535310	D304				
TANK, WASH, B-B PREWASH, F-200, LENGTH: 20 FT ; DIAMETER: 6 FT A/N: 535310	D306				
COLUMN, B-B EXTRACTOR, D-201, HEIGHT: 49 FT 2 IN; DIAMETER: 4 FT 6 IN A/N: 535310	D273				
SETTLING TANK, B-B, F-201, LENGTH: 20 FT ; DIAMETER: 5 FT A/N: 535310	D307				
POT, CATALYST ADDITION, F-204, LENGTH: 3 FT ; DIAMETER: 2 FT A/N: 535310	D309				
COLUMN, OXIDIZER, CAUSTIC, D-203, HEIGHT: 32 FT 9 IN; DIAMETER: 3 FT 6 IN A/N: 535310	D274				
VESSEL, SEPARATOR, DISULFIDE, F-203, LENGTH: 26 FT ; DIAMETER: 5 FT A/N: 535310	D308	D329		<b>HAP: (10) [40CFR 63 Subpart CC, #1, 6-23-2003]</b>	E57.2
DRUM, BLOWDOWN, CAUSTIC, F-29, LENGTH: 24 FT ; DIAMETER: 6 FT A/N: 535310	D298				

\* (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 limit (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.

## FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL

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

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
<b>Process 6: ALKYLATION AND POLYMERIZATION</b>					P13.2
DRUM, HOLDING, SPENT WATER BLOWDOWN, F-31, LENGTH: 25 FT 1 IN; DIAMETER: 6 FT A/N: 535310	D300				
DRYER, F-32A, DIAMETER: 3 FT; LENGTH: 20 FT A/N: 535310	D301				
DRYER, F-32B, DIAMETER: 3 FT; LENGTH: 20 FT A/N: 535310	D302				
DRYER, CONTACTOR FEED, F-211 A/N: 535310	D310				
VESSEL, CONTACTOR, ED-211E, LENGTH: 45 FT 6 IN; DIAMETER: 7 FT 8 IN A/N: 535310	D280				
VESSEL, CONTACTOR, ED-211F, LENGTH: 45 FT 6 IN; DIAMETER: 7 FT 8 IN A/N: 535310	D281				
VESSEL, CONTACTOR, ED-211A, LENGTH: 35 FT 6 IN; DIAMETER: 8 FT A/N: 535310	D276				
VESSEL, CONTACTOR, ED-211B, LENGTH: 35 FT 6 IN; DIAMETER: 8 FT A/N: 535310	D277				
VESSEL, CONTACTOR, ED-211C, LENGTH: 35 FT 6 IN; DIAMETER: 8 FT A/N: 535310	D278				

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| <ul style="list-style-type: none"> <li>* (1) (1A) (1B) Denotes RECLAIM emission factor</li> <li>(3) Denotes RECLAIM concentration limit</li> <li>(5) (5A) (5B) Denotes command and control emission limit</li> <li>(7) Denotes NSR applicability limit</li> <li>(9) See App B for Emission Limits</li> </ul> | <ul style="list-style-type: none"> <li>(2) (2A) (2B) Denotes RECLAIM emission rate</li> <li>(4) Denotes BACT emission limit</li> <li>(6) Denotes air toxic control rule limit</li> <li>(8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)</li> <li>(10) See section J for NESHAP/MACT requirements</li> </ul> |
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## FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL

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

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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
<b>Process 6: ALKYLATION AND POLYMERIZATION</b>					P13.2
VESSEL, CONTACTOR, ED-211D, LENGTH: 35 FT 6 IN; DIAMETER: 8 FT A/N: 535310	D279				
SETTLING TANK, ACID, F-212C, LENGTH: 70 FT ; DIAMETER: 15 FT A/N: 535310	D313				
SETTLING TANK, ACID, F-212A, LENGTH: 70 FT ; DIAMETER: 15 FT A/N: 535310	D311				
SETTLING TANK, ACID, F-212B, LENGTH: 70 FT ; DIAMETER: 15 FT A/N: 535310	D312				
DRUM, SYSTEM TRAP AND SUCTION, F-213, LENGTH: 33 FT ; DIAMETER: 13 FT A/N: 535310	D314				
POT, DRAIN, ACID, F-216, LENGTH: 2 FT ; DIAMETER: 2 FT A/N: 535310	D317				
TANK, SURGE, SPENT ACID, F-6, LENGTH: 66 FT ; DIAMETER: 12 FT A/N: 535310	D287				
TANK, WASH, ACID, F-15, LENGTH: 66 FT 6 IN; DIAMETER: 12 FT A/N: 535310	D293				
TANK, WASH, ALKALINE WATER, F-17, LENGTH: 52 FT ; DIAMETER: 12 FT A/N: 535310	D295				

\* (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 limit (e.g. NSPS, NESHAPS, etc.)  
 (9) See App B for Emission Limits  
 (10) See section J for NESHAP/MACT requirements

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## FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL

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

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
<b>Process 6: ALKYLATION AND POLYMERIZATION</b>					P13.2
VESSEL, COALESCER, WATER, F-18, LENGTH: 22 FT ; DIAMETER: 6 FT 6 IN A/N: 535310	D1660				
DRUM, BLOWDOWN, ACID, F-11, LENGTH: 60 FT ; DIAMETER: 12 FT A/N: 535310	D291				
DRUM, BLOWDOWN, ACID, F-19, LENGTH: 45 FT 2 IN; DIAMETER: 10 FT A/N: 535310	D296				
TANK, BLOWDOWN, SOUR GAS, F-16, LENGTH: 34 FT 2 IN; DIAMETER: 8 FT A/N: 535310	D294				
TANK, WASH, PROPANE CAUSTIC, F-220, LENGTH: 24 FT ; DIAMETER: 2 FT A/N: 535310	D322				
COMPRESSOR, REFRIGERANT, GB-213 A/N: 535310	D324				
DRUM, FIRST STAGE ECONOMIZER, F-214, LENGTH: 13 FT 8 IN; DIAMETER: 5 FT 6 IN A/N: 535310	D315				
VESSEL, SECOND STAGE ECONOMIZER, F-215, LENGTH: 13 FT 8 IN; DIAMETER: 6 FT A/N: 535310	D316				

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| <ul style="list-style-type: none"> <li>* (1) (1A) (1B) Denotes RECLAIM emission factor</li> <li>(3) Denotes RECLAIM concentration limit</li> <li>(5) (5A) (5B) Denotes command and control emission limit</li> <li>(7) Denotes NSR applicability limit</li> <li>(9) See App B for Emission Limits</li> </ul> | <ul style="list-style-type: none"> <li>(2) (2A) (2B) Denotes RECLAIM emission rate</li> <li>(4) Denotes BACT emission limit</li> <li>(6) Denotes air toxic control rule limit</li> <li>(8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)</li> <li>(10) See section J for NESHAP/MACT requirements</li> </ul> |
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## FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL

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

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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
<b>Process 6: ALKYLATION AND POLYMERIZATION</b>					P13.2
DRUM, REFRIGERANT SEPARATOR, F-217, LENGTH: 11 FT ; DIAMETER: 6 FT A/N: 535310	D318				
TANK, HOLDING, INTERNAL DEPROPANIZER FEED, F-218, LENGTH: 15 FT ; DIAMETER: 7 FT A/N: 535310	D319				
DRUM, CAUSTIC WASH, F-223, LENGTH: 14 FT 6 IN; DIAMETER: 8 FT 3 IN A/N: 535310	D1661				
VESSEL, COALESCER, F-224, LENGTH: 20 FT ; DIAMETER: 3 FT A/N: 535310	D321				
COLUMN, INTERNAL DEPROPANIZER, D-212, HEIGHT: 108 FT 4 IN; DIAMETER: 5 FT 6 IN A/N: 535310	D275				
ACCUMULATOR, INTERNAL DEPROPANIZER REFLUX, F-219, LENGTH: 14 FT ; DIAMETER: 5 FT A/N: 535310	D320				
COMPRESSOR, REFRIGERANT, GB-313, 2650 BHP, VENTED TO VAPOR RECOVERY SYSTEM, 15621 CU.FT./MIN A/N: 535310	D1667				E71.6, H23.3
CONDENSER, SHELL AND TUBE, REFRIGERANT, E-312A/B, VENTED TO VAPOR RECOVERY SYSTEM A/N: 535310	D1668				E71.6

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| <ul style="list-style-type: none"> <li>* (1) (1A) (1B) Denotes RECLAIM emission factor</li> <li>(3) Denotes RECLAIM concentration limit</li> <li>(5) (5A) (5B) Denotes command and control emission limit</li> <li>(7) Denotes NSR applicability limit</li> <li>(9) See App B for Emission Limits</li> </ul> | <ul style="list-style-type: none"> <li>(2) (2A) (2B) Denotes RECLAIM emission rate</li> <li>(4) Denotes BACT emission limit</li> <li>(6) Denotes air toxic control rule limit</li> <li>(8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)</li> <li>(10) See section J for NESHAP/MACT requirements</li> </ul> |
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## FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL

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

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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
<b>Process 6: ALKYLATION AND POLYMERIZATION</b>					P13.2
DRUM, INTERNAL DEPROPANIZER FEED, F-318, LENGTH: 20 FT ; DIAMETER: 7 FT A/N: 535310	D1663				
DRUM, ECONOMIZER, F-314, HEIGHT: 16 FT ; DIAMETER: 6 FT 6 IN A/N: 535310	D1662				
DRUM, CAUSTIC WASH, F-323, LENGTH: 22 FT 6 IN; DIAMETER: 7 FT 6 IN A/N: 535310	D1664				
VESSEL, COALESCER, F-324, LENGTH: 20 FT ; DIAMETER: 3 FT A/N: 535310	D1665				
COLUMN, DEPROPANIZER, D-2, HEIGHT: 71 FT ; DIAMETER: 5 FT 6 IN A/N: 535310	D268				
ACCUMULATOR, EXTERNAL DEPROPANIZER REFLUX, F-2, LENGTH: 16 FT ; DIAMETER: 4 FT 6 IN A/N: 535310	D283				
TANK, MIXED C4 FEED, F-10, LENGTH: 66 FT ; DIAMETER: 12 FT A/N: 535310	D290				
COLUMN, DEISOBUTANIZER, D-351, HEIGHT: 197 FT ; DIAMETER: 14 FT A/N: 535310	D1659				

\* (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 limit (e.g. NSPS, NESHAPS, etc.)  
 (9) See App B for Emission Limits  
 (10) See section J for NESHAP/MACT requirements

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## FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL

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

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
<b>Process 6: ALKYLATION AND POLYMERIZATION</b>					P13.2
CONDENSER, SHELL AND TUBE, DEISOBUTANIZER, E-351A/B/C/D, VENTED TO VAPOR RECOVERY SYSTEM A/N: 535310	D1669				E71.6
DRUM, DEISOBUTANIZER REFLUX, F-351, LENGTH: 37 FT ; DIAMETER: 13 FT A/N: 535310	D1666				
CONDENSER, SHELL AND TUBE, BUTANE, E-353, VENTED TO VAPOR RECOVERY SYSTEM A/N: 535310	D1670				E71.6
COLUMN, DEBUTANIZER, D-3, HEIGHT: 71 FT 6 IN; DIAMETER: 8 FT 6 IN A/N: 535310	D269				
ACCUMULATOR, DEBUTANIZER REFLUX, F-3, LENGTH: 20 FT ; DIAMETER: 8 FT A/N: 535310	D284				
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 535310	D1589				H23.3
<b>System 2: ALKYLATION UNIT 110 HEATER</b>					

\* (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 limit (e.g. NSPS, NESHAPS, etc.)  
 (9) See App B for Emission Limits  
 (10) See section J for NESHAP/MACT requirements

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## FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL

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

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
<b>Process 6: ALKYLATION AND POLYMERIZATION</b>					P13.2
HEATER, STEAM, B-211, C3/C4 MEROX OFF GAS, PROCESS GAS, REFINERY/NATURAL GAS, WITH LOW NOX BURNER, 28.5 MMBTU/HR WITH A/N: 535311  BURNER, THREE (3) BURNERS, C3/C4 MEROX OFF GAS, REFINERY/NATURAL GAS, JOHN ZINK, MODEL PSFR-16M, WITH LOW NOX BURNER, 25 MMBTU/HR	D329	D308	NOX: LARGE SOURCE**; SOX: MAJOR SOURCE**	CO: 400 PPMV (5A) [RULE 1146, 11-17-2000; RULE 1146, 9-5-2008]; CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; NOX: 37 PPMV REFINERY/NATURAL GAS (3) [RULE 2012, 5-6-2005]; PM: (9) [RULE 404, 2-7-1986]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]	B61.4, D28.11, D232.2, D328.1, H23.1
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 535311	D1590			HAP: (10) [40CFR 63 Subpart CC, #5A, 6-23-2003]	H23.2
<b>Process 7: SULFURIC ACID PRODUCTION</b>					P13.2
<b>System 1: CONTACT SULFURIC ACID PRODUCTION PLANT UNIT 141</b>					S1.1, S15.14, S18.6
INJECTOR, COMBUSTION CHAMBER, ME-104A, ACID A/N: 535312	D1406				
INJECTOR, COMBUSTION CHAMBER, ME-104B, ACID A/N: 535312	D1407				
INJECTOR, COMBUSTION CHAMBER, ME-105A, SULFUR A/N: 535312	D1402				

\* (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 limit (e.g. NSPS, NESHAPS, etc.)  
 (9) See App B for Emission Limits  
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## FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL

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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
<b>Process 7: SULFURIC ACID PRODUCTION</b>					P13.2
INJECTOR, COMBUSTION CHAMBER, ME-105B, SULFUR A/N: 535312	D1403				
REACTOR, COMBUSTION CHAMBER, B-104, HYDROGEN SULFIDE, PROCESS GAS, REFINERY/NATURAL GAS, SPENT ALKYLATION ACID, LIQUID SULFUR, ACID, ACID GAS, WITH TWO BURNERS ME-101A & 101B, 36.8 MMBTU/HR EACH, LENGTH: 50 FT ; DIAMETER: 15 FT A/N: 535312	D333	D1380 D1385 D1386 D1525 D1713 D1714	NOX: MAJOR SOURCE**; SOX: MAJOR SOURCE**	CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; H2SO4 MIST: 0.3 LB(S) PER TON OF H2SO4 PRODUCED (5) [RULE 469, 5-7-1976; RULE 469, 2-13-1981]; H2SO4 MIST: 0.5 LB(S) PER TON OF H2SO4 PRODUCED (8) [40CFR 60 Subpart Cd, 12-19-1995]; PM: (9) [RULE 404, 2-7-1986]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]	D28.16, D323.5, D328.1
BOILER, WASTE HEAT, BIGELOW, B-101, UNFIRED A/N: 535312	D331				
SCRUBBER, F-140, PRIMARY REVERSE JET, HEIGHT: 18 FT 4 IN; DIAMETER: 9 FT A/N: 535312	D1547				
VESSEL, PROCESS GAS COOLER, D-142, HEIGHT: 35 FT ; DIAMETER: 9 FT A/N: 535312	D1830				
MIST ELIMINATOR, F-141 A/N: 535312	D1831				
SCRUBBER, F-142, FINAL REVERSE JET, HEIGHT: 12 FT 10 IN; DIAMETER: 7 FT A/N: 535312	D1548				

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| <ul style="list-style-type: none"> <li>* (1) (1A) (1B) Denotes RECLAIM emission factor</li> <li>(3) Denotes RECLAIM concentration limit</li> <li>(5) (5A) (5B) Denotes command and control emission limit</li> <li>(7) Denotes NSR applicability limit</li> <li>(9) See App B for Emission Limits</li> </ul> | <ul style="list-style-type: none"> <li>(2) (2A) (2B) Denotes RECLAIM emission rate</li> <li>(4) Denotes BACT emission limit</li> <li>(6) Denotes air toxic control rule limit</li> <li>(8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)</li> <li>(10) See section J for NESHAP/MACT requirements</li> </ul> |
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## FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL

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

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
<b>Process 7: SULFURIC ACID PRODUCTION</b>					P13.2
COLUMN, EFFLUENT STRIPPER, D-107, HEIGHT: 12 FT ; DIAMETER: 2 FT A/N: 535312	D340				
VESSEL, F-145, SAFETY SEAL, HEIGHT: 7 FT 6 IN; DIAMETER: 4 FT 6 IN A/N: 535312	D349				
DRYER, D-145, ACID, HEIGHT: 27 FT ; DIAMETER: 15 FT 4 IN A/N: 535312	D336				
TANK, F-102, ACID, HEIGHT: 7 FT ; DIAMETER: 17 FT 6 IN A/N: 535312	D343				
VESSEL, CONVERTER, REACTOR, D-105, HEIGHT: 34 FT ; DIAMETER: 17 FT A/N: 535312	D338				H116.1
COLUMN, STRIPPER, D-104, HEIGHT: 22 FT ; DIAMETER: 5 FT 6 IN A/N: 535312	D337				
ABSORBER, H2SO4 CONTACTOR, D-102, ACID, WITH MIST ELIMINATOR, HEIGHT: 29 FT 4 IN; DIAMETER: 11 FT 8 IN A/N: 535312	D335				
TANK, F-202, ACID, HEIGHT: 7 FT ; DIAMETER: 17 FT 6 IN A/N: 535312	D342				

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 (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 limit (e.g. NSPS, NESHAPS, etc.)  
 (9) See App B for Emission Limits  
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## FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL

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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
<b>Process 7: SULFURIC ACID PRODUCTION</b>					P13.2
PIT, F-313, SULFUR, 100 LONG TON CAPACITY, COVERED, WIDTH: 17 FT 4 IN; DEPTH: 7 FT ; LENGTH: 22 FT 8 IN A/N: 535312	D1525	D333 C1545		<b>S COMPOUND:</b> 500 PPMV (5) [RULE 407, 4-2-1982]	E336.1
STACK, C-102 A/N: 535312	S351				
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 535312	D1591				H23.2
<b>System 3: CANSOLV SO<sub>x</sub> SCRUBBING FOR H<sub>2</sub>SO<sub>4</sub> PLANT</b>					S18.7
SCRUBBER, SOLVENT, SO <sub>2</sub> , D-120, HEIGHT: 33 FT 9 IN; DIAMETER: 10 FT A/N: 535313	D352	C353			
MIST ELIMINATOR, F-115, WIDTH: 7 FT 8 IN; HEIGHT: 15 FT ; LENGTH: 24 FT 2 IN A/N: 535313	C353	D352			
<b>System 4: VAPOR RECOVERY SYSTEM (BLOWERS &amp; SCRUBBER)</b>					S13.11
BLOWER, GB-404 & GB-404S (SPARE), SULFUR VAPOR/H <sub>2</sub> S/AIR MIXTURE, CENTRIFUGAL, 550 CFM, 7.5 HP EACH;SERVING SULFUR PIT AND SULFUR LOADING RACK A/N: 535314	D1546				E225.1
KNOCK OUT POT, F-340, VAPOR RECOVERY BLOWER SUCTION, HEIGHT: 4 FT ; DIAMETER: 1 FT 4 IN A/N: 535314	D1676				

- \* (1) (1A) (1B) Denotes RECLAIM emission factor
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- (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 limit (e.g. NSPS, NESHAPS, etc.)
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## FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL

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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
<b>Process 7: SULFURIC ACID PRODUCTION</b>					P13.2
BLOWER, GB-105 & GB-106 (SPARE), VOC/SO2, 221 SCFM, SERVING SPENT ACID STORAGE TANK, NEUTRALIZATION UNIT AND SPENT ACID LOADING RACK A/N: 535314	D1675				E225.1
KNOCK OUT POT, F-341, VAPOR RECOVERY BLOWER DISCHARGE, HEIGHT: 4 FT ; DIAMETER: 1 FT 4 IN A/N: 535314	D1677				
SCRUBBER, PACKED BED, F-404, BACKUP CAUSTIC, WITH TWO CAUSTIC CIRCULATION PUMPS, G-405 & G- 405S (SPARE), 30 GPM, HEIGHT: 25 FT 6 IN; DIAMETER: 2 FT A/N: 535314	C1545	D1380 D1385 D1386 D1525 C1678 D1713 D1714			C8.4, D90.5, E71.20
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 535314	D1594				H23.2
<b>System 5: SPENT SULFURIC ACID STORAGE</b>					
STORAGE TANK, FIXED ROOF, F-301, SPENT SULFURIC ACID, 4030 BBL; DIAMETER: 30 FT ; HEIGHT: 32 FT A/N: 535315	D1386	D333 C1545		<b>S COMPOUND:</b> 500 PPMV (5) [RULE 407, 4-2-1982]; <b>VOC:</b> 500 PPMV (5) [RULE 1303(a)(1) -BACT, 5-10-1996]	C1.64, E336.1, H23.13
<b>System 6: SULFURIC ACID PRODUCTION PLANT UNIT 141 HEATER</b>					

\* (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 limit (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.

## FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL

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

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
<b>Process 7: SULFURIC ACID PRODUCTION</b>					P13.2
HEATER, STARTUP, 141-B-102, NATURAL GAS, 15 MMBTU/HR A/N: 535316	D332		NOX: PROCESS UNIT**	CO: 400 PPMV (5A) [RULE 1146, 11-17-2000; RULE 1146, 9-5-2008]; CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; NOX: 190 PPMV NATURAL GAS (3) [RULE 2012, 5-6-2005]; PM: (9) [RULE 404, 2-7-1986]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]	C1.16, D328.1
<b>System 7: AIR POLLUTION CONTROL SYSTEM (CARBON ADSORBERS)</b>					
CARBON ADSORBER, ME-5, 12 TOTAL, 3 IN EACH SERIES, 4 SERIES IN PARALLEL, 1,800 LBS ACTIVATED CARBON EACH, BACKUP FOR D333, HEIGHT: 4 FT ; DIAMETER: 5 FT A/N: 535320	C1678	C1545			D90.6, E153.2
<b>System 8: CANSOLV (AMINE) REGENERATION</b>					S13.11
REGENERATOR, SOLUTION, D-600, HEIGHT: 43 FT 1 IN; DIAMETER: 3 FT A/N: 535321	D1679				
ACCUMULATOR, REFLUX, F-602, HEIGHT: 8 FT 9 IN; DIAMETER: 2 FT 6 IN A/N: 535321	D1680				
KNOCK OUT POT, AMINE, F-603, HEIGHT: 8 FT 9 IN; DIAMETER: 2 FT 6 IN A/N: 535321	D1681				

- \* (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 limit (e.g. NSPS, NESHAPS, etc.)
- (10) See section J for NESHAP/MACT requirements

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## FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL

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

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
<b>Process 7: SULFURIC ACID PRODUCTION</b>					P13.2
TANK, LEAN AMINE, F-604, VENTED TO ATMOSPHERE, HEIGHT: 15 FT 1 IN; DIAMETER: 7 FT 6 IN A/N: 535321	D1682			<b>S COMPOUND: 500 PPMV (5)</b> [RULE 407, 4-2-1982]	D90.7, H116.2
COLUMN, ION EXCHANGE BED, D-100A, HEIGHT: 6 FT ; DIAMETER: 4 FT A/N: 535321	D1707				
COLUMN, ION EXCHANGE BED, D-100B, HEIGHT: 6 FT ; DIAMETER: 4 FT A/N: 535321	D1708				
TANK, SPENT CAUSTIC, F-327, WITH A ROOF MOUNT MIXER, VENTED TO ATMOSPHERE, 16700 GALS; DIAMETER: 14 FT ; HEIGHT: 20 FT A/N: 535321	D1709			<b>S COMPOUND: 500 PPMV (5)</b> [RULE 407, 4-2-1982]	D90.7, H116.2
TANK, AMINE, F-613, VENTED TO ATMOSPHERE, 9000 GALS; DIAMETER: 12 FT ; HEIGHT: 12 FT A/N: 535321	D1711			<b>S COMPOUND: 500 PPMV (5)</b> [RULE 407, 4-2-1982]	D90.7, H116.2
TANK, AMINE, F-614, VENTED TO ATMOSPHERE, 9000 GALS; DIAMETER: 12 FT ; HEIGHT: 12 FT A/N: 535321	D1712			<b>S COMPOUND: 500 PPMV (5)</b> [RULE 407, 4-2-1982]	D90.7, H116.2
TANK, NEUTRALIZATION PRIMARY TREATMENT, F-401, WITH MIXER, HEIGHT: 6 FT 6 IN; DIAMETER: 9 FT 6 IN A/N: 535321	D1713	D333 C1545		<b>S COMPOUND: 500 PPMV (5)</b> [RULE 407, 4-2-1982]	E336.1

- \* (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 limit (e.g. NSPS, NESHAPS, etc.)
- (10) See section J for NESHAP/MACT requirements

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## FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL

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

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
<b>Process 7: SULFURIC ACID PRODUCTION</b>					P13.2
TANK, NEUTRALIZATION SECONDARY TREATMENT, F-402, WITH MIXER, HEIGHT: 11 FT 4 IN; DIAMETER: 8 FT A/N: 535321	D1714	D333 C1545		<b>S COMPOUND: 500 PPMV (5) [RULE 407, 4-2-1982]</b>	E336.1
<b>Process 8: BLENDING</b>					P13.2
<b>System 1: GASOLINE BLENDING</b>					S13.6, S15.2, S15.3
BLENDER, IN LINE A/N: 535322	D803				
DRUM, F-1, SAMPLE RECOVERY, HEIGHT: 6 FT ; DIAMETER: 3 FT A/N: 535322	D1342	C1343		<b>BENZENE: 5 PPMV (4) [RULE 1303(a)(1)-BACT, 5-10-1996]; VOC: 500 PPMV (4) [RULE 1303(a)(1)-BACT, 5-10-1996]</b>	
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 535322	D1596			<b>HAP: (10) [40CFR 63 Subpart CC, #5A, 10-28-2009]</b>	H23.2
<b>System 2: MID-BARREL BLENDING</b>					S15.2, S15.3
BLENDER, IN LINE A/N: 535323	D1360				
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 535323	D1597			<b>HAP: (10) [40CFR 63 Subpart CC, #5A, 10-28-2009]</b>	H23.2
<b>System 3: VAPOR CONTROL SYSTEM</b>					
CARBON ADSORBER, ME-2A, 2 TOTAL IN PARALLEL, 200 LBS A/N: 535324	C1343	D1342			D90.13, E128.1, E153.2
<b>Process 9: TREATING/STRIPPING</b>					P13.2
<b>System 3: FUEL GAS TREATING (H2S ABSORPTION UNIT 110E)</b>					S13.6, S15.16, S18.4

- \* (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 limit (e.g. NSPS, NESHAPS, etc.)  
 (9) See App B for Emission Limits  
 (10) See section J for NESHAP/MACT requirements

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## FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL

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

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
<b>Process 9: TREATING/STRIPPING</b>					P13.2
ABSORBER, 110E-D-101, HYDROGEN SULFIDE, HEIGHT: 61 FT 2 IN; DIAMETER: 6 FT A/N: 535330	D389				
ABSORBER, 110E-D-102, HYDROGEN SULFIDE, HEIGHT: 53 FT ; DIAMETER: 6 FT A/N: 535330	D390				
ABSORBER, 110E-D-103, HYDROGEN SULFIDE, HEIGHT: 61 FT 9 IN; DIAMETER: 6 FT A/N: 535330	D391				
VESSEL, SEPARATOR, LIQUID/GAS, 110F-8, HEIGHT: 5 FT 8 IN; DIAMETER: 1 FT 8 IN A/N: 535330	D392				
TANK, BLENDING, F-106, FUEL GAS, HEIGHT: 20 FT ; DIAMETER: 10 FT A/N: 535330	D393				
KNOCK OUT POT, F-103, H2S ABSORBER FEED-GAS, HEIGHT: 18 FT ; DIAMETER: 6 FT A/N: 535330	D394				
KNOCK OUT POT, F-104, H2S ABSORBER FEED-GAS, HEIGHT: 18 FT ; DIAMETER: 6 FT A/N: 535330	D395				
COMPRESSOR, GB-1, WASTE-GAS (UNIT 27), 2 STAGES A/N: 535330	D396				

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|---|---|
| <p>* (1) (1A) (1B) Denotes RECLAIM emission factor<br/>         (3) Denotes RECLAIM concentration limit<br/>         (5) (5A) (5B) Denotes command and control emission limit<br/>         (7) Denotes NSR applicability limit<br/>         (9) See App B for Emission Limits</p> | <p>(2) (2A) (2B) Denotes RECLAIM emission rate<br/>         (4) Denotes BACT emission limit<br/>         (6) Denotes air toxic control rule limit<br/>         (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)<br/>         (10) See section J for NESHAP/MACT requirements</p> |
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## FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL

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

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
<b>Process 9: TREATING/STRIPPING</b>					P13.2
KNOCK OUT POT, F-101, H2S ABSORBER FEED GAS, HEIGHT: 18 FT ; DIAMETER: 6 FT A/N: 535330	D397				
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 535330	D1600				H23.2
<b>System 4: AMINE REGENERATION UNIT 138</b>					S13.6, S15.11, S15.16
TANK, SURGE, F-300B, RICH AMINE, LENGTH: 32 FT ; DIAMETER: 13 FT A/N: 535361	D1552				
REACTOR, REGENERATOR (STRIPPER/REGENERATOR), NO. 2, D-301, HEIGHT: 52 FT ; DIAMETER: 8 FT 6 IN A/N: 535361	D399				
ACCUMULATOR, NO. 2, F-301, REGENERATOR REFLUX, LENGTH: 15 FT ; DIAMETER: 5 FT A/N: 535361	D406				
TANK, SURGE, F-300, RICH AMINE, LENGTH: 28 FT ; DIAMETER: 7 FT 6 IN A/N: 535361	D405				
REACTOR, REGENERATOR (STRIPPER/REGENERATOR), NO. 1, D-1, HEIGHT: 50 FT ; DIAMETER: 7 FT A/N: 535361	D398				

- \* (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 limit (e.g. NSPS, NESHAPS, etc.)
- (10) See section J for NESHAP/MACT requirements

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## FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL

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

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
<b>Process 9: TREATING/STRIPPING</b>					P13.2
ACCUMULATOR, NO. 1, F-1, REGENERATOR REFLUX, HEIGHT: 10 FT ; DIAMETER: 3 FT A/N: 535361	D400				
TANK, DRAIN, F-305, ORGANIC LIQUID, HEIGHT: 6 FT 10 IN; DIAMETER: 11 IN A/N: 535361	D404				
TANK, SURGE, F-4, LEAN AMINE, 2175 BBL; DIAMETER: 30 FT ; HEIGHT: 18 FT A/N: 535361	D401				
FILTER, CARTRIDGE, F-304, LEAN AMINE A/N: 535361	D402				
<b>System 5: SOUR WATER STRIPPING NO. 1</b>					S13.6, S15.13, S15.16
COLUMN, STRIPPER, D-151, HEIGHT: 83 FT 6 IN; DIAMETER: 6 FT 6 IN A/N: 535363	D407			<b>VOC: 500 PPMV (8) [40CFR 61 Subpart FF, 12-4-2003]</b>	
ACCUMULATOR, F-151, STRIPPER OVERHEAD, LENGTH: 15 FT ; DIAMETER: 4 FT A/N: 535363	D408				
TANK, F-158, TEMPERED WATER CHEMICAL FEED, HEIGHT: 2 FT ; DIAMETER: 8 IN A/N: 535363	D411				
TANK, SURGE, F-155, LENGTH: 27 FT ; DIAMETER: 6 FT 6 IN A/N: 535363	D415				
<b>System 6: SOUR WATER STRIPPING NO. 2</b>					S13.6, S15.13, S15.16

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| <p>* (1) (1A) (1B) Denotes RECLAIM emission factor<br/>         (3) Denotes RECLAIM concentration limit<br/>         (5) (5A) (5B) Denotes command and control emission limit<br/>         (7) Denotes NSR applicability limit<br/>         (9) See App B for Emission Limits</p> | <p>(2) (2A) (2B) Denotes RECLAIM emission rate<br/>         (4) Denotes BACT emission limit<br/>         (6) Denotes air toxic control rule limit<br/>         (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)<br/>         (10) See section J for NESHAP/MACT requirements</p> |
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## FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL

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

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
<b>Process 9: TREATING/STRIPPING</b>					P13.2
COLUMN, STRIPPER, D-251, HEIGHT: 83 FT 6 IN; DIAMETER: 6 FT 6 IN A/N: 535367	D413			VOC: 500 PPMV (8) [40CFR 61 Subpart FF, 12-4-2003]	
ACCUMULATOR, F-251, STRIPPER OVERHEAD, LENGTH: 15 FT ; DIAMETER: 4 FT A/N: 535367	D414				
<b>System 9: CLAY TREATING (JET A FILTRATION LOOP)</b>					
FILTER, CLAY PREFILTER, F-209-19, SERVING TANK NOS. 24 & 26, HEIGHT: 7 FT 11 IN; DIAMETER: 4 FT 6 IN A/N: 535375	D1447				
FILTER, BOWSER, MICROFILTER, F-205-38, SERVING TANK NOS. 24 & 26, HEIGHT: 3 FT 6 IN; DIAMETER: 3 FT 4 IN A/N: 535375	D1809				
<b>Process 10: SULFUR PRODUCTION</b>					P13.2
<b>System 1: SULFUR RECOVERY PLT. NO. 1, CLAUS UNIT</b>					S13.6, S15.15, S15.16, S18.1, S18.6
FURNACE, (REACTION CHAMBER), B-101, RHEEM, LENGTH: 25 FT ; DIAMETER: 6 FT 6 IN A/N: 535377	D417				
BURNER, B-103, AUXILIARY NO. 1, H2S FIRED A/N: 535377	B916				
BURNER, B-104, AUXILIARY NO. 2, H2S FIRED A/N: 535377	B917				

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| <ul style="list-style-type: none"> <li>* (1) (1A) (1B) Denotes RECLAIM emission factor</li> <li>(3) Denotes RECLAIM concentration limit</li> <li>(5) (5A) (5B) Denotes command and control emission limit</li> <li>(7) Denotes NSR applicability limit</li> <li>(9) See App B for Emission Limits</li> </ul> | <ul style="list-style-type: none"> <li>(2) (2A) (2B) Denotes RECLAIM emission rate</li> <li>(4) Denotes BACT emission limit</li> <li>(6) Denotes air toxic control rule limit</li> <li>(8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)</li> <li>(10) See section J for NESHAP/MACT requirements</li> </ul> |
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## FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL

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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
<b>Process 10: SULFUR PRODUCTION</b>					P13.2
BURNER, B-105, AUXILIARY NO. 3, H2S FIRED A/N: 535377	B918				
REACTOR, THREE STAGE, D-101, LENGTH: 43 FT ; DIAMETER: 10 FT A/N: 535377	D418				
KNOCK OUT POT, F-101, MEA ACID GAS, HEIGHT: 12 FT ; DIAMETER: 5 FT A/N: 535377	D419				
KNOCK OUT POT, F-102, NH3 ACID GAS, HEIGHT: 12 FT ; DIAMETER: 5 FT A/N: 535377	D420				
PIT, ACCUMULATOR, F-104, SULFUR, 110 LONG TON CAPACITY, COVERED, WIDTH: 5 FT 9 IN; DEPTH: 10 FT ; LENGTH: 45 FT A/N: 535377	D422	D423		<b>H2S: 10 PPMV (5) [RULE 468, 10-8-1976]; SO2: 500 PPMV (5) [RULE 407, 4-2-1982]</b>	
BLOWER, SULFUR PIT VENT, GB-104 A/N: 535377	D423	D422 C1497			
BLOWER, COMBUSTION AIR, GB 101 A/N: 535377	D424				
BOILER, WASTE HEAT, B-102 A/N: 535377	D1489				
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 535377	D1601			<b>HAP: (10) [40CFR 63 Subpart CC, #5A, 6-23-2003]</b>	H23.2
CONDENSER, E-101, NO. 1, SULFUR A/N: 535377	D1653				
CONDENSER, E-102, NO. 2, SULFUR A/N: 535377	D1654				

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

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## FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL

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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
<b>Process 10: SULFUR PRODUCTION</b>					P13.2
CONDENSER, E-103, NO. 3, SULFUR A/N: 535377	D1655				
CONDENSER, E-104, NO. 4, SULFUR A/N: 535377	D1656			<b>H2S: 10 PPMV (5) [RULE 468, 10-8-1976]; HAP: (10) [40CFR 63 Subpart UUU, #4, 4-20-2006]; SOX: 500 PPMV (5) [RULE 407, 4-2-1982]</b>	
<b>System 2: TAIL GAS TREATING UNIT NO. 1</b>					S13.6, S15.13, S15.16, S18.9
REACTOR, REDUCING GAS GENERATOR, B-107, LENGTH: 12 FT 8 IN; DIAMETER: 5 FT 6 IN A/N: 535384	D425				
COLUMN, QUENCH, D-102, HEIGHT: 40 FT ; DIAMETER: 6 FT 6 IN A/N: 535384	D426				
REACTOR, HYDROGENATION, D-103, LENGTH: 10 FT ; DIAMETER: 9 FT A/N: 535384	D427				
ABSORBER, D- 104, HEIGHT: 113 FT ; DIAMETER: 14 FT A/N: 535384	D428	C436			E57.4
VESSEL, CONTINUOUS AUTOCLAVE, F-105, HEIGHT: 7 FT ; DIAMETER: 3 FT 6 IN A/N: 535384	D430				
TANK, BALANCE, F-106, WITH AN AGITATOR, 25000 GALS; DIAMETER: 14 FT ; HEIGHT: 22 FT A/N: 535384	D431				

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 (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 limit (e.g. NSPS, NESHAPS, etc.)  
 (9) See App B for Emission Limits  
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## FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL

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

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
<b>Process 10: SULFUR PRODUCTION</b>					P13.2
TANK, SULFUR FROTH, F-107, WITH AN AGITATOR, 10000 GALS; DIAMETER: 10 FT ; HEIGHT: 18 FT A/N: 535384	D432				
TANK, OXIDIZER FLOTATION, F-109, WITH THREE AGITATORS, 80000 GALS; DIAMETER: 25 FT ; HEIGHT: 22 FT A/N: 535384	D433				
SUMP, F-111, STRETFORD SOLUTION MAKE UP, 720 GALS; WIDTH: 4 FT ; DEPTH: 4 FT ; LENGTH: 6 FT A/N: 535384	D434				
TANK, SURGE, F-112, STRETFORD SOLUTION, WITH AN AGITATOR, 140000 GALS; DIAMETER: 33 FT 9 IN; HEIGHT: 24 FT A/N: 535384	D435				
GENERATOR, REDUCING GAS, B-107, PARSONS, 5.1 MMBTU/HR A/N: 535384	D919				
ABSORBER, (COOLING TOWER), E-110, WIDTH: 18 FT ; HEIGHT: 10 FT 4 IN; LENGTH: 12 FT A/N: 535384	C1497	D423			
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 535384	D1602				H23.2
<b>System 3: SULFUR RECOVERY PLT. NO. 1, TAIL GAS INCINERATOR UNIT</b>					

\* (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 limit (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.

## FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL

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

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
<b>Process 10: SULFUR PRODUCTION</b>					P13.2
INCINERATOR, B- 108, WITH JOHN-ZINK BURNER, PROCESS GAS, REFINERY/NATURAL GAS, NORMALLY ON STANDBY AT 500 DEGREES F, 19.5 MMBTU/HR A/N: 535386	C436	D428 S437	NOX: MAJOR SOURCE**; SOX: MAJOR SOURCE**	CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; PM: (9) [RULE 404, 2-7-1986]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]; SO2: 250 PPMV (8) [40CFR 60 Subpart J, 6-24-2008; CONSENT DECREE CIVIL NO. H-05-0258, 8-11-2008]	B61.4, C8.2, D28.6, D82.4, D328.1, H23.1
STACK, HEIGHT: 70 FT A/N: 535386	S437	C436			
<b>System 4: SULFUR RECOVERY PLT. NO. 2, CLAUS UNIT</b>					S13.6, S15.15, S15.16, S18.1, S18.6
FURNACE, (REACTION CHAMBER), B-201, DIAMETER: 6 FT 6 IN; LENGTH: 25 FT, RHEEM A/N: 535390	D438	D722			
BURNER, B-203, AUXILIARY NO. 1, H2S FIRED A/N: 535390	B920				
BURNER, B-204, AUXILIARY NO. 2, H2S FIRED A/N: 535390	B921				
BURNER, B-205, AUXILIARY NO. 3, H2S FIRED A/N: 535390	B922				
REACTOR, THREE-STAGE, D-201, LENGTH: 43 FT ; DIAMETER: 10 FT A/N: 535390	D439	D722			
KNOCK OUT POT, F-201, MEA ACID GAS, HEIGHT: 12 FT ; DIAMETER: 5 FT A/N: 535390	D444	D722			

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

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

## FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL

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

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
<b>Process 10: SULFUR PRODUCTION</b>					P13.2
KNOCK OUT POT, F-202, NH3 ACID GAS, HEIGHT: 12 FT ; DIAMETER: 5 FT A/N: 535390	D445	D722			
PIT, ACCUMULATOR, F-204, SULFUR, 110 LONG TON CAPACITY, COVERED, WIDTH: 5 FT 9 IN; DEPTH: 10 FT ; LENGTH: 45 FT A/N: 535390	D447	D1487		<b>H2S: 10 PPMV (5) [RULE 468, 10-8-1976]; SOX: 500 PPMV (5) [RULE 407, 4-2-1982]</b>	
BLOWER, SULFUR PIT VENT, GB-204 A/N: 535390	D1487	D447 C1498			
BLOWER, COMBUSTION AIR, GB 201 A/N: 535390	D1488				
BOILER, WASTE HEAT, B-202 A/N: 535390	D1490				
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 535390	D1604			<b>HAP: (10) [40CFR 63 Subpart CC, #5A, 6-23-2003]</b>	H23.2
CONDENSER, E-201, NO. 1, SULFUR A/N: 535390	D1649				
CONDENSER, E-202, NO. 2, SULFUR A/N: 535390	D1650				
CONDENSER, E-203, NO. 3, SULFUR A/N: 535390	D1651				
CONDENSER, E-204, NO. 4, SULFUR A/N: 535390	D1652			<b>H2S: 10 PPMV (5) [RULE 468, 10-8-1976]; HAP: (10) [40CFR 63 Subpart UUU, #4, 4-20-2006]; SOX: 500 PPMV (5) [RULE 407, 4-2-1982]</b>	
<b>System 5: TAIL GAS TREATING UNIT NO. 2</b>					S13.6, S15.13, S15.16, S18.9

- \* (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 limit (e.g. NSPS, NESHAPS, etc.)
- (10) See section J for NESHAP/MACT requirements

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## FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL

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

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
<b>Process 10: SULFUR PRODUCTION</b>					P13.2
REACTOR, REDUCING GAS GENERATOR, B-207, DIAMETER: 5 FT 6 IN; LENGHT: 12 FT 8 IN A/N: 535392	D448				
COLUMN, QUENCH, D-202, HEIGHT: 40 FT ; DIAMETER: 6 FT 6 IN A/N: 535392	D449				
REACTOR, HYDROGENATION, D-203, LENGTH: 10 FT ; DIAMETER: 9 FT A/N: 535392	D450				
ABSORBER, D-204, HEIGHT: 113 FT ; DIAMETER: 14 FT A/N: 535392	D451	C456			E57.4
TANK, BALANCE, F-206, WITH AN AGITATOR, 25000 GALS; DIAMETER: 14 FT ; HEIGHT: 22 FT A/N: 535392	D452				
TANK, F-207, SULFUR FROTH, WITH AN AGITATOR, 10000 GALS; DIAMETER: 10 FT ; HEIGHT: 18 FT A/N: 535392	D453				
TANK, OXIDIZER FLOTATION, F-209, WITH THREE AGITATORS, 80000 GALS; DIAMETER: 25 FT ; HEIGHT: 22 FT A/N: 535392	D454				
SUMP, F-211, STRETFORD SOLUTION MAKE UP, 720 GALS; WIDTH: 4 FT ; DEPTH: 4 FT ; LENGTH: 6 FT A/N: 535392	D455				

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| <ul style="list-style-type: none"> <li>* (1) (1A) (1B) Denotes RECLAIM emission factor</li> <li>(3) Denotes RECLAIM concentration limit</li> <li>(5) (5A) (5B) Denotes command and control emission limit</li> <li>(7) Denotes NSR applicability limit</li> <li>(9) See App B for Emission Limits</li> </ul> | <ul style="list-style-type: none"> <li>(2) (2A) (2B) Denotes RECLAIM emission rate</li> <li>(4) Denotes BACT emission limit</li> <li>(6) Denotes air toxic control rule limit</li> <li>(8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)</li> <li>(10) See section J for NESHAP/MACT requirements</li> </ul> |
|--|--|

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## FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL

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

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
<b>Process 10: SULFUR PRODUCTION</b>					P13.2
ABSORBER, (COOLING TOWER), E-210, WIDTH: 18 FT 2 IN; HEIGHT: 9 FT 6 IN; LENGTH: 16 FT A/N: 535392	C1498	D1487			
VESSEL, CONTINUOUS AUTOCLAVE, F-205, HEIGHT: 7 FT ; DIAMETER: 3 FT 6 IN A/N: 535392	D1499				
GENERATOR, REDUCING GAS, B-207, PARSONS, 5.1 MMBTU/HR A/N: 535392	D1501				
TANK, SURGE, F-112, STRETFORD SOLUTION, WITH AN AGITATOR, 140000 GALS; DIAMETER: 33 FT 9 IN; HEIGHT: 24 FT A/N: 535384	D435				
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 535392	D1623			HAP: (10) [40CFR 63 Subpart CC, #5A, 6-23-2003]	H23.2
<b>System 6: SULFUR RECOVERY PLT. NO. 2, TAIL GAS INCINERATOR UNIT</b>					
INCINERATOR, B-208, WITH JOHN-ZINK BURNER, PROCESS GAS, REFINERY/NATURAL GAS, NORMALLY ON STANDBY AT 500 DEGREES F, 19.5 MMBTU/HR A/N: 535394	C456	D451 S457	NOX: MAJOR SOURCE**; SOX: MAJOR SOURCE**	CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; PM: (9) [RULE 404, 2-7-1986]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]; SO2: 250 PPMV (8) [40CFR 60 Subpart J, 6-24-2008; CONSENT DECREE CIVIL NO. H-05-0258, 8-11-2008]	B61.4, C8.2, D28.6, D82.4, D328.1, H23.1
STACK, HEIGHT: 70 FT A/N: 535394	S457	C456			
<b>Process 11: LOADING/UNLOADING</b>					P13.2
<b>System 1: PROPANE/BUTANES/PENTANES</b>					S15.2, S15.6, S31.3

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|---|---|
| <p>* (1) (1A) (1B) Denotes RECLAIM emission factor<br/>         (3) Denotes RECLAIM concentration limit<br/>         (5) (5A) (5B) Denotes command and control emission limit<br/>         (7) Denotes NSR applicability limit<br/>         (9) See App B for Emission Limits</p> | <p>(2) (2A) (2B) Denotes RECLAIM emission rate<br/>         (4) Denotes BACT emission limit<br/>         (6) Denotes air toxic control rule limit<br/>         (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)<br/>         (10) See section J for NESHAP/MACT requirements</p> |
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\*\* Refer to section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.

## FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL

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

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
<b>Process 11: LOADING/UNLOADING</b>					P13.2
LOADING AND UNLOADING ARM, TANK CAR, C4 AND C5, 8 TOTAL; DIAMETER: 4 IN A/N:	D458	D1673		VOC: 0.08 LBS/1000 GAL ORGANIC LIQUID (5) [RULE 462, 5-14-1999]	C1.52, C1.55
LOADING AND UNLOADING ARM, TANK TRUCK, BUTANE/BUTENE, 2 TOTAL; DIAMETER: 4 IN A/N:	D459	D1673		VOC: 0.08 LBS/1000 GAL ORGANIC LIQUID (5) [RULE 462, 5-14-1999]	C1.53, C1.56
VESSEL, DEPRESSURING, F-114, VENTED TO REFINERY VAPOR RECOVERY SYSTEM, HEIGHT: 6 FT ; DIAMETER: 2 FT A/N:	D1673	D458 D459 D709			
FUGITIVE EMISSIONS, MISCELLANEOUS A/N:	D1605				H23.2
<b>System 2: PETROLEUM DISTILLATE</b>					
LOADING ARM, TANK CAR, RACK NO. 1 (WEST), 18 TOTAL; DIAMETER: 4 IN A/N: 535404	D464				C1.49
<b>System 4: GASOLINE LOADING RACK NO. 1</b>					S13.3
LOADING ARM, BOTTOM, NO. 1, GASOLINE, 6 TOTAL; DIAMETER: 4 IN A/N: 535406	D482	D493		TOC: (10) [40CFR 63 Subpart R, #1 (Major Sources), 12-19-2003]; VOC: (10) [40CFR 63 Subpart CC, #6, 6-23-2003]; VOC: 0.08 LBS/1000 GAL (5) [RULE 462, 5-14-1999]	
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 535406	D1606			HAP: (10) [40CFR 63 Subpart CC, #5A, 6-23-2003]	H23.2
<b>System 6: VAPOR CONTROL SYSTEM SERVING GASOLINE LOADING RACK NO. 1</b>					S13.3, S15.5

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

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## FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL

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

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
<b>Process 11: LOADING/UNLOADING</b>					P13.2
TANK, HOLDING, F-386, GASOLINE VAPOR, 5000 CU.FT. A/N: 535408	D493	D482			
SUMP, GASOLINE VAPOR CONDENSATE A/N: 535408	D494				
COMPRESSOR, TWO STAGE VAPOR RECOVERY, NO. LAR 2258 A/N: 535408	D495				
COMPRESSOR, TWO STAGE VAPOR RECOVERY, NO. LAR 2259 A/N: 535408	D496				
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 535408	D1607			<b>HAP: (10) [40CFR 63 Subpart CC, #5A, 6-23-2003]</b>	H23.2
<b>System 7: SPENT SULFURIC ACID LOADING</b>					S1.2
LOADING ARM, TANK TRUCK, SPENT SULFURIC ACID, DIAMETER: 3 IN A/N: 535420	D1380	D333 C1545		<b>S COMPOUND: 500 PPMV (5) [RULE 407, 4-2-1982]</b>	E71.18, E336.1
<b>System 8: SULFUR LOADING</b>					
LOADING ARM, TANK TRUCK, TOP, SULFUR, DIAMETER: 2 IN A/N: 535424	D1385	D333 C1545		<b>S COMPOUND: 500 PPMV (5) [RULE 407, 4-2-1982]</b>	E336.1
<b>System 9: AMMONIUM SULFATE LOADING/UNLOADING</b>					
LOADING AND UNLOADING ARM, RACK NO. 2 A/N: 535446	D1428				
<b>Process 12: WASTEWATER TREATMENT PLANTS</b>					P13.2
<b>System 1: WASTEWATER TREATMENT</b>					S13.1, S13.10

- \* (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 limit (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.

## FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL

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

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
<b>Process 12: WASTEWATER TREATMENT PLANTS</b>					P13.2
TANK, F-2A (EAST), FLOCCULATOR, COVERED, WITH A MIXER, WIDTH: 16 FT ; HEIGHT: 12 FT ; LENGTH: 24 FT A/N:	D499				
TANK, F-2B ( CENTER), FLOCCULATOR, COVERED, WITH A MIXER, WIDTH: 16 FT ; HEIGHT: 12 FT ; LENGTH: 24 FT A/N:	D500				
TANK, F-2C ( WEST), FLOCCULATOR, COVERED, WITH A MIXER, WIDTH: 16 FT ; HEIGHT: 12 FT ; LENGTH: 24 FT A/N:	D501				
FLOATATION UNIT, F-3A (EAST), DISSOLVED AIR A/N:	D502				
FLOATATION UNIT, F-3B (CENTER), DISSOLVED AIR A/N:	D503				
FLOATATION UNIT, DISSOLVED AIR, F-3C (WEST) A/N:	D504				
TANK, FIXED ROOF, RECYCLE SATURATION, F-4A, WASTE WATER, HEIGHT: 7 FT ; DIAMETER: 5 FT A/N:	D505				

\* (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 limit (e.g. NSPS, NESHAPS, etc.)  
 (9) See App B for Emission Limits  
 (10) See section J for NESHAP/MACT requirements

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## FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL

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

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
<b>Process 12: WASTEWATER TREATMENT PLANTS</b>					P13.2
TANK, FIXED ROOF, RECYCLE SATURATION, F-4B, WASTE WATER, HEIGHT: 7 FT ; DIAMETER: 5 FT A/N:	D506				
TANK, FIXED ROOF, RECYCLE SATURATION, F-4C, WASTE WATER, HEIGHT: 7 FT ; DIAMETER: 5 FT A/N:	D507				
SUMP, PRIMARY OIL SKIMMING, WIDTH: 11 FT ; DEPTH: 15 FT ; LENGTH: 16 FT WITH A/N:  FLOATING ROOF  PRIMARY SEAL	D508				
SUMP, SECONDARY OIL SKIMMING, WIDTH: 11 FT ; DEPTH: 9 FT ; LENGTH: 11 FT WITH A/N:  FLOATING ROOF  PRIMARY SEAL	D509				
TANK, HOLDING, FIXED ROOF, TK-436, POLYMER FEED, 145 BBL; DIAMETER: 14 FT ; HEIGHT: 16 FT A/N:	D512				

\* (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 limit (e.g. NSPS, NESHAPS, etc.)  
 (9) See App B for Emission Limits  
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## FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL

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

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
<b>Process 12: WASTEWATER TREATMENT PLANTS</b>					P13.2
TANK, HOLDING, FIXED ROOF, TK-437, IRON SULFATE FEED, 250 BBL; DIAMETER: 10 FT ; HEIGHT: 15 FT A/N:	D513				
TANK, HOLDING, FIXED ROOF, TK-438, SLUDGE, 1500 BBL; DIAMETER: 22 FT ; HEIGHT: 25 FT A/N:	D514			<b>HAP: (10) [40CFR 63 Subpart CC, #2, 6-23-2003]</b>	
TANK, HOLDING, FIXED ROOF, TK-439, SLUDGE, 1500 BBL; DIAMETER: 22 FT ; HEIGHT: 25 FT A/N:	D515			<b>HAP: (10) [40CFR 63 Subpart CC, #2, 6-23-2003]</b>	
TANK, SURGE, TK-461, STORMWATER AND WASTEWATER, WITH OIL SKIMMER, 1.3E+07 GALS; DIAMETER: 185 FT ; HEIGHT: 79 FT 7 IN WITH  FLOATING ROOF, PAN  PRIMARY SEAL, CATEGORY A, METALLIC SHOE  SECONDARY SEAL, CATEGORY B OR BETTER PER RULE 219(C) (4), WIPER TYPE	D516			<b>HAP: (10) [40CFR 63 Subpart CC, #4, 6-23-2003]</b>	H23.15

\* (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 limit (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.

## FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL

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

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
<b>Process 12: WASTEWATER TREATMENT PLANTS</b>					P13.2
TANK, SURGE, TK-462, STORMWATER AND WASTEWATER, WITH OIL SKIMMER, 1.3E+07 GALS; DIAMETER: 185 FT ; HEIGHT: 79 FT 7 IN WITH A/N:  FLOATING ROOF, PAN  PRIMARY SEAL, CATEGORY A, METALLIC SHOE  SECONDARY SEAL, CATEGORY B OR BETTER PER RULE 219(C) (4), WIPER TYPE	D517			HAP: (10) [40CFR 63 Subpart CC, #4, 6-23-2003]	H23.15
TANK, SURGE, F-6, STORMWATER AND WASTEWATER, 49368 BBL WITH A/N:  FLOATING ROOF, PAN, LIQUID MOUNTED	D518	C526		HAP: (10) [40CFR 63 Subpart CC, #4, 6-23-2003]; VOC: 500 PPMV (5) [RULE 1176, 9-13-1996]	
SUMP, SLUDGE FROTH, 3,400 GALS, FIXED COVER, WIDTH: 7 FT 9 IN; DEPTH: 7 FT ; LENGTH: 8 FT 6 IN A/N:	D1550	C524		VOC: 500 PPMV (5) [RULE 1176, 9-13-1996]	
SUMP, SLUDGE DEWATERING, 25,000 GALS, FIXED COVER, WIDTH: 11 FT ; DEPTH: 7 FT ; LENGTH: 20 FT A/N:	D1551	C522		VOC: 500 PPMV (5) [RULE 1176, 9-13-1996]	
FUGITIVE EMISSIONS, MISCELLANEOUS A/N:	D1608				H23.2

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

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

## FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL

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

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
<b>Process 12: WASTEWATER TREATMENT PLANTS</b>					P13.2
<b>System 2: SUMPS</b>					
SUMP, VACUUM TRUCK WASHED WATER, FIXED COVERED, 748 GALS; WIDTH: 6 FT ; DEPTH: 7 FT 3 IN; LENGTH: 13 FT 8 IN A/N: 535450	D519	C520		VOC: 500 PPMV (5) [RULE 1176, 9-13-1996]; VOC: 500 PPMV (4) [RULE 1303(a)(1)-BACT, 5-10-1996]	
CARBON ADSORBER, 1000 LBS A/N: 535450	C520	D519			D90.3, E153.1
SUMP, BLOCK 78, OILY WATER, FIXED COVER, WIDTH: 15 FT ; DIAMETER: 9 FT ; LENGTH: 60 FT A/N: 535452	D527	C528		VOC: 500 PPMV (5) [RULE 1176, 9-13-1996]; VOC: 500 PPMV (4) [RULE 1303(a)(1)-BACT, 5-10-1996]	
CARBON ADSORBER, 1000 LBS A/N: 535452	C528	D527			D90.3, E153.1
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 535450	D1609				H23.2
<b>System 3: CARBON ADSORBERS</b>					S13.1
CARBON ADSORBER, NO. 1, WITH AN ORGANIC DETECTOR IN THE OUTLET STREAM, 150 LBS A/N:	C522	D1551			D90.3, E153.1
CARBON ADSORBER, NO. 1, WITH AN ORGANIC DETECTOR IN THE OUTLET STREAM, 150 LBS A/N:	C524	D1550			D90.3, E153.1
CARBON ADSORBER, UNIT NO. 3, (TWO IN PARALLEL), 2000 LBS A/N:	C526	D518			D90.3, E153.1
<b>Process 13: STORAGE TANKS</b>					P13.1, P13.2
<b>System 1: FIXED ROOF TANKS</b>					S13.9

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 (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 limit (e.g. NSPS, NESHAPS, etc.)  
 (9) See App B for Emission Limits  
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## FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL

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

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
<b>Process 13: STORAGE TANKS</b>					P13.1, P13.2
STORAGE TANK, FIXED ROOF, NO. 0, SPENT GASOLINE, 1500 GALS; DIAMETER: 5 FT 5 IN; HEIGHT: 9 FT 6 IN A/N: 535328	D529	C530		<b>VOC: 500 PPMV (4) [RULE 1303(a)(1)-BACT, 5-10-1996]</b>	C1.63
CARBON ADSORBER, 150 LBS A/N: 535328	C530	D529			D90.13, E153.1
STORAGE TANK, FIXED ROOF, 210, FUEL OIL NO. 6, 3061800 GALS; DIAMETER: 120 FT ; LENGTH: 41 FT A/N: 535329	D531				K67.7
STORAGE TANK, FIXED ROOF, NO. 327, WITH A MIXER, WITH NATURAL GAS OR NITROGEN BLANKET CONNECTED TO A 25HP (391 CFM) BLOWER C3780, 80000 BBL; DIAMETER: 120 FT ; HEIGHT: 40 FT A/N: 535333	D535			<b>HAP: (10) [40CFR 63 Subpart CC, #2, 6-23-2003]</b>	K67.7
STORAGE TANK, FIXED ROOF, NO. 328, WITH A MIXER, WITH NATURAL GAS OR NITROGEN BLANKET CONNECTED TO A 25HP (391 CFM) BLOWER C3780, 80000 BBL; DIAMETER: 120 FT ; HEIGHT: 40 FT A/N: 535335	D536			<b>HAP: (10) [40CFR 63 Subpart CC, #2, 6-23-2003]</b>	K67.7
STORAGE TANK, FIXED ROOF, 381, 105000 GALS; DIAMETER: 25 FT ; HEIGHT: 30 FT A/N: 535344	D537	D717			K67.7

- \* (1) (1A) (1B) Denotes RECLAIM emission factor
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- (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 limit (e.g. NSPS, NESHAPS, etc.)
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## FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL

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

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
<b>Process 13: STORAGE TANKS</b>					P13.1, P13.2
STORAGE TANK, FIXED ROOF, NO. 336, WITH A MIXER, 54000 BBL; DIAMETER: 90 FT ; HEIGHT: 48 FT A/N: 535345	D543			HAP: (10) [40CFR 63 Subpart CC, #2, 6-23-2003]	K67.7
STORAGE TANK, FIXED ROOF, D-001, JET A ADDITIVE (ETHYLENE GLYCOL MONOMETHYL ETHER), 1000 GALS; DIAMETER: 11 FT ; HEIGHT: 4 FT A/N: 535327	D1368				K67.2
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 535327	D1611				H23.2
<b>System 2: EXTERNAL FLOATING ROOF SINGLE-SEAL TANKS</b>					S13.9
STORAGE TANK, EXTERNAL FLOATING ROOF, NO. 326, WITH A MIXER, HYDRODESULFURIZED GAS OIL, 90000 BBL; DIAMETER: 120 FT ; HEIGHT: 48 FT WITH A/N: 535366  FLOATING ROOF, PONTOON, WELDED SHELL  PRIMARY SEAL, CATEGORY A, METALLIC SHOE	D545			HAP: (10) [40CFR 63 Subpart CC, #2, 6-23-2003]	C1.6

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- (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 limit (e.g. NSPS, NESHAPS, etc.)
- (10) See section J for NESHAP/MACT requirements

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## FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL

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

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
<b>Process 13: STORAGE TANKS</b>					P13.1, P13.2
STORAGE TANK, EXTERNAL FLOATING ROOF, NO. 160, 25000 BBL; DIAMETER: 60 FT ; HEIGHT: 51 FT 3 IN WITH A/N: 535383  FLOATING ROOF  PRIMARY SEAL, CATEGORY A, METALLIC SHOE	D569			HAP: (10) [40CFR 63 Subpart CC, #2, 6-23-2003]	K67.7
STORAGE TANK, EXTERNAL FLOATING ROOF, NO. 209, WITH A MIXER, 80300 BBL; DIAMETER: 120 FT ; HEIGHT: 43 FT 2 IN WITH A/N: 535385  FLOATING ROOF, DOUBLE DECK, WELDED SHELL  PRIMARY SEAL, CATEGORY A, METALLIC SHOE	D579			HAP: (10) [40CFR 63 Subpart CC, #2, 6-23-2003]	K67.7
STORAGE TANK, EXTERNAL FLOATING ROOF, NO. 8, 67000 BBL; DIAMETER: 100 FT ; HEIGHT: 50 FT 6 IN WITH A/N: 535387  FLOATING ROOF, DOUBLE DECK  PRIMARY SEAL, CATEGORY A, METALLIC SHOE	D588			HAP: (10) [40CFR 63 Subpart CC, #2, 6-23-2003]	K67.7

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 (3) Denotes RECLAIM concentration limit  
 (4) Denotes BACT emission limit  
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 (6) Denotes air toxic control rule limit  
 (7) Denotes NSR applicability limit  
 (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)  
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## FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL

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

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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
<b>Process 13: STORAGE TANKS</b>					P13.1, P13.2
STORAGE TANK, EXTERNAL FLOATING ROOF, NO. 10, 55000 BBL; DIAMETER: 100 FT ; HEIGHT: 42 FT 6 IN WITH A/N: 535391  FLOATING ROOF, DOUBLE DECK, WELDED SHELL  PRIMARY SEAL, CATEGORY A, METALLIC SHOE	D589			HAP: (10) [40CFR 63 Subpart CC, #2, 6-23-2003]	K67.7
STORAGE TANK, EXTERNAL FLOATING ROOF, NO.28, WITH A MIXER, 96000 BBL; DIAMETER: 120 FT ; HEIGHT: 48 FT WITH A/N: 535395  FLOATING ROOF, DOUBLE DECK, WELDED SHELL  PRIMARY SEAL, CATEGORY A, METALLIC SHOE	D595			HAP: (10) [40CFR 63 Subpart CC, #2, 6-23-2003]	K67.7

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 (3) Denotes RECLAIM concentration limit  
 (4) Denotes BACT emission limit  
 (5) (5A) (5B) Denotes command and control emission limit  
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 (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)  
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## FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL

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

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
<b>Process 13: STORAGE TANKS</b>					P13.1, P13.2
STORAGE TANK, EXTERNAL FLOATING ROOF, NO. 61, 20000 BBL; DIAMETER: 60 FT ; HEIGHT: 40 FT 6 IN WITH A/N: 535398  FLOATING ROOF, DOUBLE DECK, WELDED SHELL  PRIMARY SEAL, CATEGORY C OR BETTER PER RULE 219(C)(4), LIQUID MOUNTED RESILIENT FOAM-FILLED	D596			HAP: (10) [40CFR 63 Subpart CC, #2, 6-23-2003]	K67.7
STORAGE TANK, EXTERNAL FLOATING ROOF, NO. 71, WITH A MIXER, 64000 BBL; DIAMETER: 100 FT ; HEIGHT: 48 FT WITH A/N: 535399  FLOATING ROOF, DOUBLE DECK, WELDED SHELL  PRIMARY SEAL, CATEGORY A, METALLIC SHOE	D599			HAP: (10) [40CFR 63 Subpart CC, #2, 6-23-2003]	K67.7

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 (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 limit (e.g. NSPS, NESHAPS, etc.)  
 (9) See App B for Emission Limits  
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## FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL

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

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
<b>Process 13: STORAGE TANKS</b>					P13.1, P13.2
STORAGE TANK, EXTERNAL FLOATING ROOF, NO. 72, WITH A MIXER, 64000 BBL; DIAMETER: 100 FT ; HEIGHT: 48 FT WITH A/N: 535401  FLOATING ROOF, DOUBLE DECK, WELDED SHELL  PRIMARY SEAL, CATEGORY A, METALLIC SHOE	D600			HAP: (10) [40CFR 63 Subpart CC, #2, 6-23-2003]	K67.7
STORAGE TANK, EXTERNAL FLOATING ROOF, NO. 27, WITH A MIXER, 96000 BBL; DIAMETER: 120 FT ; HEIGHT: 48 FT WITH A/N: 535410  FLOATING ROOF, DOUBLE DECK  PRIMARY SEAL, CATEGORY A, METALLIC SHOE	D607			HAP: (10) [40CFR 63 Subpart CC, #2, 6-23-2003]	K67.7
STORAGE TANK, EXTERNAL FLOATING ROOF, NO. 329, 80000 BBL; DIAMETER: 120 FT ; HEIGHT: 40 FT WITH A/N: 535413  FLOATING ROOF, PONTOON  PRIMARY SEAL, CATEGORY A, METALLIC SHOE	D609			HAP: (10) [40CFR 63 Subpart CC, #2, 6-23-2003]	K67.7

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- (2) (2A) (2B) Denotes RECLAIM emission rate
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## FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL

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<b>Process 13: STORAGE TANKS</b>					P13.1, P13.2
STORAGE TANK, EXTERNAL FLOATING ROOF, NO. 351, WITH A MIXER, 20000 BBL; DIAMETER: 60 FT ; HEIGHT: 40 FT 6 IN WITH A/N: 535416  FLOATING ROOF, DOUBLE DECK, WELDED SHELL  PRIMARY SEAL, CATEGORY A, METALLIC SHOE	D611			HAP: (10) [40CFR 63 Subpart CC, #2, 6-23-2003]	K67.7
STORAGE TANK, EXTERNAL FLOATING ROOF, NO.205, 80000 BBL; DIAMETER: 117 FT 2 IN; HEIGHT: 44 FT WITH A/N: 535418  FLOATING ROOF, DOUBLE DECK, RIVETED SHELL  PRIMARY SEAL, CATEGORY A, METALLIC SHOE	D613			HAP: (10) [40CFR 63 Subpart CC, #2, 6-23-2003]	K67.7
STORAGE TANK, EXTERNAL FLOATING ROOF, NO. 211, FCC SLURRY OIL, WITH A SIDE ENTRY MIXER, 96000 BBL; DIAMETER: 120 FT ; HEIGHT: 48 FT WITH A/N: 535425  FLOATING ROOF, PONTOON, WELDED SHELL  PRIMARY SEAL, CATEGORY A, METALLIC SHOE	D614			HAP: (10) [40CFR 63 Subpart CC, #2, 6-23-2003]	K67.7

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## FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL

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<b>Process 13: STORAGE TANKS</b>					P13.1, P13.2
STORAGE TANK, EXTERNAL FLOATING ROOF, FUEL OIL/GAS OIL, NO. 390, WITH A MIXER, 131000 BBL; DIAMETER: 140 FT ; HEIGHT: 50 FT WITH  A/N: 535426  FLOATING ROOF, DOUBLE DECK, WELDED SHELL  PRIMARY SEAL, CATEGORY A, METALLIC SHOE	D616			HAP: (10) [40CFR 63 Subpart CC, #2, 6-23-2003]	K67.7
STORAGE TANK, EXTERNAL FLOATING ROOF, NO. 278, WITH A MIXER, 95000 BBL; DIAMETER: 125 FT ; HEIGHT: 42 FT WITH  A/N: 535427  FLOATING ROOF, DOUBLE DECK, RIVETED SHELL  PRIMARY SEAL, CATEGORY A, METALLIC SHOE	D617			HAP: (10) [40CFR 63 Subpart CC, #2, 6-23-2003]	K67.7
STORAGE TANK, EXTERNAL FLOATING ROOF, NO. 395, DIESEL FUEL, 160000 BBL; DIAMETER: 150 FT ; HEIGHT: 51 FT 3 IN WITH  A/N: 535429  FLOATING ROOF, DOUBLE DECK, WELDED SHELL  PRIMARY SEAL, CATEGORY A, METALLIC SHOE	D619			HAP: (10) [40CFR 63 Subpart CC, #2, 6-23-2003]	K67.7

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|---|---|
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<b>Process 13: STORAGE TANKS</b>					P13.1, P13.2
STORAGE TANK, EXTERNAL FLOATING ROOF, NO. 305, 20000 BBL; DIAMETER: 60 FT ; HEIGHT: 40 FT WITH A/N: 535431  FLOATING ROOF, DOUBLE DECK, WELDED SHELL  PRIMARY SEAL, CATEGORY A, METALLIC SHOE	D621			HAP: (10) [40CFR 63 Subpart CC, #2, 6-23-2003]	K67.7
STORAGE TANK, EXTERNAL FLOATING ROOF, NO. 350, WITH A MIXER, 20000 BBL; DIAMETER: 60 FT ; HEIGHT: 40 FT 6 IN WITH A/N: 535433  FLOATING ROOF, DOUBLE DECK, WELDED SHELL  PRIMARY SEAL, CATEGORY A, METALLIC SHOE	D622			HAP: (10) [40CFR 63 Subpart CC, #2, 6-23-2003]	K67.7
STORAGE TANK, EXTERNAL FLOATING ROOF, NO. 389, WITH A MIXER, 131000 BBL; DIAMETER: 140 FT ; HEIGHT: 48 FT WITH A/N: 535436  FLOATING ROOF, DOUBLE DECK, WELDED SHELL  PRIMARY SEAL, CATEGORY A, METALLIC SHOE	D623			HAP: (10) [40CFR 63 Subpart CC, #2, 6-23-2003]	K67.7

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|---|---|
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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
<b>Process 13: STORAGE TANKS</b>					P13.1, P13.2
STORAGE TANK, EXTERNAL FLOATING ROOF, NO. 391, 160000 BBL; DIAMETER: 150 FT ; HEIGHT: 51 FT WITH A/N: 535441  FLOATING ROOF, DOUBLE DECK, WELDED SHELL  PRIMARY SEAL, CATEGORY A, METALLIC SHOE	D627			HAP: (10) [40CFR 63 Subpart CC, #2, 6-23-2003]	K67.7
STORAGE TANK, EXTERNAL FLOATING ROOF, NO. 392, 160000 BBL; DIAMETER: 150 FT ; HEIGHT: 51 FT WITH A/N: 535454  FLOATING ROOF, DOUBLE DECK, WELDED SHELL  PRIMARY SEAL, CATEGORY A, METALLIC SHOE	D628			HAP: (10) [40CFR 63 Subpart CC, #2, 6-23-2003]	K67.7
STORAGE TANK, EXTERNAL FLOATING ROOF, NO. 394, 160000 BBL; DIAMETER: 150 FT ; HEIGHT: 51 FT WITH A/N: 535457  FLOATING ROOF, DOUBLE DECK, WELDED SHELL  PRIMARY SEAL, CATEGORY A, METALLIC SHOE	D631			HAP: (10) [40CFR 63 Subpart CC, #2, 6-23-2003]	K67.7

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

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

## FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL

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

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
<b>Process 13: STORAGE TANKS</b>					P13.1, P13.2
STORAGE TANK, EXTERNAL FLOATING ROOF, NO. 396, 160000 BBL; DIAMETER: 150 FT ; HEIGHT: 51 FT WITH A/N: 535459  FLOATING ROOF, DOUBLE DECK, WELDED SHELL  PRIMARY SEAL, CATEGORY A, METALLIC SHOE	D632			HAP: (10) [40CFR 63 Subpart CC, #2, 6-23-2003]	K67.7
STORAGE TANK, EXTERNAL FLOATING ROOF, NO. 397, 160000 BBL; DIAMETER: 150 FT ; HEIGHT: 51 FT WITH A/N: 535461  FLOATING ROOF, DOUBLE DECK, WELDED SHELL  PRIMARY SEAL, CATEGORY A, METALLIC SHOE	D634			HAP: (10) [40CFR 63 Subpart CC, #2, 6-23-2003]	K67.7
STORAGE TANK, EXTERNAL FLOATING ROOF, NO. 398, 160000 BBL; DIAMETER: 150 FT ; HEIGHT: 51 FT WITH A/N: 535464  FLOATING ROOF, DOUBLE DECK, WELDED SHELL  PRIMARY SEAL, CATEGORY A, METALLIC SHOE	D635			HAP: (10) [40CFR 63 Subpart CC, #2, 6-23-2003]	K67.7

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

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

## FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL

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

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
<b>Process 13: STORAGE TANKS</b>					P13.1, P13.2
STORAGE TANK, EXTERNAL FLOATING ROOF, NO. 444, 250000 BBL; DIAMETER: 180 FT ; HEIGHT: 56 FT WITH A/N: 535468  FLOATING ROOF, PONTOON  PRIMARY SEAL, CATEGORY C OR BETTER PER RULE 219(C)(4), LIQUID MOUNTED RESILIENT FOAM-FILLED	D636			HAP: (10) [40CFR 63 Subpart CC, #2, 6-23-2003]	K67.7
STORAGE TANK, EXTERNAL FLOATING ROOF, NO. 445, 250000 BBL; DIAMETER: 180 FT ; HEIGHT: 56 FT WITH A/N: 535471  FLOATING ROOF, PONTOON  PRIMARY SEAL, CATEGORY A, WIPER TYPE	D637			HAP: (10) [40CFR 63 Subpart CC, #2, 6-23-2003]	K67.7
STORAGE TANK, EXTERNAL FLOATING ROOF, NO. 393, 160000 BBL; DIAMETER: 150 FT ; HEIGHT: 51 FT WITH A/N: 535474  FLOATING ROOF, DOUBLE DECK, WELDED SHELL  PRIMARY SEAL, CATEGORY A, METALLIC SHOE	D638			HAP: (10) [40CFR 63 Subpart CC, #2, 6-23-2003]	K67.7

\* (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 limit (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.

## FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL

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

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
<b>Process 13: STORAGE TANKS</b>					P13.1, P13.2
STORAGE TANK, EXTERNAL FLOATING ROOF, NO. 411, 2390 BBL; DIAMETER: 30 FT ; HEIGHT: 20 FT 9 IN WITH A/N: 535348  FLOATING ROOF, DOUBLE DECK, RIVETED SHELL  PRIMARY SEAL, CATEGORY A, METALLIC SHOE	D370			HAP: (10) [40CFR 63 Subpart CC, #2, 6-23-2003]	K67.7
STORAGE TANK, EXTERNAL FLOATING ROOF, NO. 412, 2410 BBL; DIAMETER: 30 FT ; HEIGHT: 20 FT 9 IN WITH A/N: 535352  FLOATING ROOF, DOUBLE DECK, RIVETED SHELL  PRIMARY SEAL, CATEGORY A, METALLIC SHOE	D371			HAP: (10) [40CFR 63 Subpart CC, #2, 6-23-2003]	K67.7
STORAGE TANK, EXTERNAL FLOATING ROOF, NO. 405, 2024 BBL; DIAMETER: 27 FT 2 IN; HEIGHT: 20 FT 9 IN WITH A/N: 535346  FLOATING ROOF, DOUBLE DECK, RIVETED SHELL  PRIMARY SEAL, CATEGORY A, METALLIC SHOE	D360			HAP: (10) [40CFR 63 Subpart CC, #3A, 6-23-2003]	B22.1, K67.7

\* (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 limit (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.

## FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL

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

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
<b>Process 13: STORAGE TANKS</b>					P13.1, P13.2
STORAGE TANK, EXTERNAL FLOATING ROOF, NO. 26, WITH A MIXER, 97000 BBL; DIAMETER: 120 FT ; HEIGHT: 51 FT 3 IN WITH A/N: 535393  FLOATING ROOF, DOUBLE DECK, WELDED SHELL  PRIMARY SEAL, CATEGORY A, METALLIC SHOE	D591			HAP: (10) [40CFR 63 Subpart CC, #2, 6-23-2003]	K67.7
STORAGE TANK, EXTERNAL FLOATING ROOF, NO. 78, 18000 BBL; DIAMETER: 60 FT ; HEIGHT: 37 FT 6 IN WITH A/N: 535355  FLOATING ROOF, DOUBLE DECK, RIVETED SHELL  PRIMARY SEAL, CATEGORY A, METALLIC SHOE	D544			HAP: (10) [40CFR 63 Subpart CC, #2, 6-23-2003]	C1.3, K67.7
STORAGE TANK, EXTERNAL FLOATING ROOF, NO. 25, DIESEL FUEL, WITH A MIXER, 80000 BBL; DIAMETER: 117 FT ; HEIGHT: 44 FT WITH A/N: 535369  FLOATING ROOF, DOUBLE DECK, WELDED SHELL  PRIMARY SEAL, CATEGORY A, METALLIC SHOE	D552			HAP: (10) [40CFR 63 Subpart CC, #2, 6-23-2003]	C1.18

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

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

## FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL

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

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
<b>Process 13: STORAGE TANKS</b>					P13.1, P13.2
STORAGE TANK, EXTERNAL FLOATING ROOF, NO. 65, HEAVY NAPHTHA, 80000 BBL; DIAMETER: 117 FT ; HEIGHT: 42 FT WITH A/N: 535381  FLOATING ROOF, DOUBLE DECK, RIVETED SHELL  PRIMARY SEAL, CATEGORY A, METALLIC SHOE	D554			HAP: (10) [40CFR 63 Subpart CC, #2, 6-23-2003]	K67.7
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 535366	D1800				H23.2
<b>System 3: EXTERNAL FLOATING ROOF TANKS</b>					S13.8
STORAGE TANK, EXTERNAL FLOATING ROOF, NO. 7, 66000 BBL; DIAMETER: 100 FT ; HEIGHT: 50 FT 6 IN WITH A/N: 535360  FLOATING ROOF, DOUBLE DECK, WELDED SHELL  PRIMARY SEAL, CATEGORY A, METALLIC SHOE  SECONDARY SEAL, CATEGORY B OR BETTER PER RULE 219(C) (4), WIPER TYPE	D550			HAP: (10) [40CFR 63 Subpart CC, #2, 6-23-2003]	K67.7

- \* (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 limit (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.

## FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL

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

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
<b>Process 13: STORAGE TANKS</b>					P13.1, P13.2
STORAGE TANK, EXTERNAL FLOATING ROOF, NO. 9, 55000 BBL; DIAMETER: 100 FT ; HEIGHT: 42 FT 6 IN WITH A/N: 535362  FLOATING ROOF, DOUBLE DECK, WELDED SHELL  PRIMARY SEAL, CATEGORY A, METALLIC SHOE  SECONDARY SEAL, CATEGORY A, WIPER TYPE	D551			HAP: (10) [40CFR 63 Subpart CC, #2, 6-23-2003]	K67.7
STORAGE TANK, EXTERNAL FLOATING ROOF, NO. 62, WITH A MIXER, 20300 BBL; DIAMETER: 60 FT ; HEIGHT: 40 FT 6 IN WITH A/N: 535368  FLOATING ROOF, DOUBLE DECK, WELDED SHELL  PRIMARY SEAL, CATEGORY A, WIPER TYPE  SECONDARY SEAL, CATEGORY A, WIPER TYPE	D553			HAP: (10) [40CFR 63 Subpart CC, #2, 6-23-2003]	K67.7

\* (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 limit (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.

## FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL

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

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
<b>Process 13: STORAGE TANKS</b>					P13.1, P13.2
STORAGE TANK, EXTERNAL FLOATING ROOF, NO. 68, 84000 BBL; DIAMETER: 117 FT ; HEIGHT: 42 FT WITH A/N: 535372  FLOATING ROOF, PONTOON, RIVETED SHELL  PRIMARY SEAL, CATEGORY A, WIPER TYPE  SECONDARY SEAL, CATEGORY A, WIPER TYPE	D557			HAP: (10) [40CFR 63 Subpart CC, #2, 6-23-2003]	C1.2, K67.7
STORAGE TANK, EXTERNAL FLOATING ROOF, NO. 79, 25000 BBL; DIAMETER: 60 FT ; HEIGHT: 51 FT 3 IN WITH A/N: 535374  FLOATING ROOF, DOUBLE DECK, WELDED SHELL  PRIMARY SEAL, CATEGORY A, METALLIC SHOE  SECONDARY SEAL, CATEGORY A, WIPER TYPE	D558			HAP: (10) [40CFR 63 Subpart CC, #2, 6-23-2003]	K67.7

\* (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 limit (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.

## FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL

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

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
<b>Process 13: STORAGE TANKS</b>					P13.1, P13.2
STORAGE TANK, EXTERNAL FLOATING ROOF, NO. 92, 80000 BBL; DIAMETER: 120 FT ; HEIGHT: 42 FT WITH A/N: 535376  FLOATING ROOF, DOUBLE DECK, WELDED SHELL  PRIMARY SEAL, CATEGORY A, METALLIC SHOE  SECONDARY SEAL, CATEGORY B OR BETTER PER RULE 219(C) (4), WIPER TYPE	D560			HAP: (10) [40CFR 63 Subpart CC, #2, 6-23-2003]	K67.7
STORAGE TANK, EXTERNAL FLOATING ROOF, NO. 93, 103200 BBL; DIAMETER: 120 FT ; HEIGHT: 51 FT 3 IN WITH A/N: 535378  FLOATING ROOF, DOUBLE DECK, WELDED SHELL  PRIMARY SEAL, CATEGORY A, METALLIC SHOE  SECONDARY SEAL, CATEGORY A, WIPER TYPE	D561			HAP: (10) [40CFR 63 Subpart CC, #3A, 6-23-2003]	K67.7

\* (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 limit (e.g. NSPS, NESHAPS, etc.)  
 (9) See App B for Emission Limits  
 (10) See section J for NESHAP/MACT requirements

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## FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL

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

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
<b>Process 13: STORAGE TANKS</b>					P13.1, P13.2
STORAGE TANK, EXTERNAL FLOATING ROOF, NO. 123, 82000 BBL; DIAMETER: 120 FT ; HEIGHT: 40 FT WITH A/N: 535379  FLOATING ROOF, DOUBLE DECK, WELDED SHELL  PRIMARY SEAL, CATEGORY A, METALLIC SHOE  SECONDARY SEAL, CATEGORY A, WIPER TYPE	D564			HAP: (10) [40CFR 63 Subpart CC, #2, 6-23-2003]	K67.7
STORAGE TANK, EXTERNAL FLOATING ROOF, NO. 124, LIGHT GAS OIL, WITH STEAM HEATING COILS AND A MIXER, 78000 BBL; DIAMETER: 117 FT 2 IN; HEIGHT: 47 FT WITH A/N: 535380  FLOATING ROOF, DOUBLE DECK, RIVETED SHELL  PRIMARY SEAL, CATEGORY A, METALLIC SHOE	D565			HAP: (10) [40CFR 63 Subpart CC, #2, 6-23-2003]	C1.3

\* (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 limit (e.g. NSPS, NESHAPS, etc.)  
 (9) See App B for Emission Limits  
 (10) See section J for NESHAP/MACT requirements

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## FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL

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

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
<b>Process 13: STORAGE TANKS</b>					P13.1, P13.2
STORAGE TANK, EXTERNAL FLOATING ROOF, NO. 148, 99000 BBL; DIAMETER: 120 FT ; HEIGHT: 51 FT 3 IN WITH A/N: 535382  FLOATING ROOF, DOUBLE DECK  PRIMARY SEAL, CATEGORY A, METALLIC SHOE  SECONDARY SEAL, CATEGORY A, WIPER TYPE	D568			HAP: (10) [40CFR 63 Subpart CC, #3A, 6-23-2003]	K67.7
STORAGE TANK, EXTERNAL FLOATING ROOF, NO. 172, WITH A MIXER, 103000 BBL; DIAMETER: 120 FT ; HEIGHT: 51 FT 3 IN WITH A/N: 535388  FLOATING ROOF, PONTOON, WELDED SHELL  PRIMARY SEAL, CATEGORY A, METALLIC SHOE  SECONDARY SEAL, CATEGORY C OR BETTER PER RULE 219(C) (4), WIPER TYPE	D574			HAP: (10) [40CFR 63 Subpart CC, #3A, 6-23-2003]	K67.7

\* (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 limit (e.g. NSPS, NESHAPS, etc.)  
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## FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL

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

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
<b>Process 13: STORAGE TANKS</b>					P13.1, P13.2
STORAGE TANK, EXTERNAL FLOATING ROOF, NO. 198, 1700 BBL; DIAMETER: 25 FT ; HEIGHT: 19 FT WITH A/N: 535389  FLOATING ROOF, DOUBLE DECK, WELDED SHELL  PRIMARY SEAL, CATEGORY A, METALLIC SHOE  SECONDARY SEAL, CATEGORY B OR BETTER PER RULE 219(C) (4), WIPER TYPE	D575			HAP: (10) [40CFR 63 Subpart CC, #2, 6-23-2003]	H23.15, K67.7
STORAGE TANK, EXTERNAL FLOATING ROOF, NO. 199, 2000 BBL; DIAMETER: 25 FT ; HEIGHT: 19 FT WITH A/N: 535396  FLOATING ROOF, DOUBLE DECK, WELDED SHELL  PRIMARY SEAL, CATEGORY A, METALLIC SHOE  SECONDARY SEAL, CATEGORY B OR BETTER PER RULE 219(C) (4), WIPER TYPE	D576			HAP: (10) [40CFR 63 Subpart CC, #2, 6-23-2003]	H23.15, K67.7

\* (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 limit (e.g. NSPS, NESHAPS, etc.)  
 (9) See App B for Emission Limits  
 (10) See section J for NESHAP/MACT requirements

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## FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL

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

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
<b>Process 13: STORAGE TANKS</b>					P13.1, P13.2
STORAGE TANK, EXTERNAL FLOATING ROOF, NO. 277, 96700 BBL; DIAMETER: 120 FT ; HEIGHT: 48 FT WITH A/N: 535402  FLOATING ROOF, DOUBLE DECK, WELDED SHELL  PRIMARY SEAL, CATEGORY A, METALLIC SHOE  SECONDARY SEAL, CATEGORY A, WIPER TYPE	D583			HAP: (10) [40CFR 63 Subpart CC, #3A, 6-23-2003]	K67.7
STORAGE TANK, EXTERNAL FLOATING ROOF, NO. 2, LIGHT CATALYTICALLY CRACKED GASOLINE (LCAT), 41000 BBL; DIAMETER: 95 FT 6 IN; HEIGHT: 32 FT WITH A/N: 535405  FLOATING ROOF, DOUBLE DECK, WELDED SHELL  PRIMARY SEAL, CATEGORY A, METALLIC SHOE  SECONDARY SEAL, CATEGORY B OR BETTER PER RULE 219(C) (4), WIPER TYPE	D584			HAP: (10) [40CFR 63 Subpart CC, #3A, 6-23-2003]	C1.13, H23.15

\* (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 limit (e.g. NSPS, NESHAPS, etc.)  
 (9) See App B for Emission Limits  
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## FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL

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

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
<b>Process 13: STORAGE TANKS</b>					P13.1, P13.2
STORAGE TANK, EXTERNAL FLOATING ROOF, NO. 3, RECOVERED OIL, 41000 BBL; DIAMETER: 95 FT 6 IN; HEIGHT: 32 FT WITH A/N: 542089  FLOATING ROOF, DOUBLE DECK, WELDED SHELL  PRIMARY SEAL, CATEGORY A, METALLIC SHOE  SECONDARY SEAL, CATEGORY B OR BETTER, WIPER TYPE	D586			HAP: (10) [40CFR 63 Subpart CC, #3A, 6-23-2003]	B22.6, C1.88, H23.15, K67.7
STORAGE TANK, EXTERNAL FLOATING ROOF, NO. 331, 82000 BBL; DIAMETER: 120 FT ; HEIGHT: 42 FT 6 IN WITH A/N: 535409  FLOATING ROOF, DOUBLE DECK, WELDED SHELL  PRIMARY SEAL, CATEGORY A, METALLIC SHOE  SECONDARY SEAL, CATEGORY A, WIPER TYPE	D593			HAP: (10) [40CFR 63 Subpart CC, #2, 6-23-2003]	K67.7

\* (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 limit (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.

## FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL

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

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
<b>Process 13: STORAGE TANKS</b>					P13.1, P13.2
STORAGE TANK, EXTERNAL FLOATING ROOF, NO. 332, WITH A MIXER, 80000 BBL; DIAMETER: 120 FT ; HEIGHT: 42 FT 6 IN WITH A/N: 535411  FLOATING ROOF, DOUBLE DECK, WELDED SHELL  PRIMARY SEAL, CATEGORY A, METALLIC SHOE  SECONDARY SEAL, CATEGORY B OR BETTER PER RULE 219(C) (4), WIPER TYPE	D594			HAP: (10) [40CFR 63 Subpart CC, #2, 6-23-2003]	K67.7
STORAGE TANK, EXTERNAL FLOATING ROOF, NO. 333, 80000 BBL; DIAMETER: 120 FT ; HEIGHT: 40 FT 6 IN WITH A/N: 535415  FLOATING ROOF, DOUBLE DECK, WELDED SHELL  PRIMARY SEAL, CATEGORY A, METALLIC SHOE  SECONDARY SEAL, CATEGORY A, WIPER TYPE	D597			HAP: (10) [40CFR 63 Subpart CC, #2, 6-23-2003]	K67.7

\* (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 limit (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.

## FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL

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

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
<b>Process 13: STORAGE TANKS</b>					P13.1, P13.2
STORAGE TANK, EXTERNAL FLOATING ROOF, NO. 334, WITH A MIXER, 80000 BBL; DIAMETER: 120 FT ; HEIGHT: 40 FT WITH A/N: 535417  FLOATING ROOF, DOUBLE DECK, WELDED SHELL  PRIMARY SEAL, CATEGORY A, METALLIC SHOE  SECONDARY SEAL, CATEGORY A, WIPER TYPE	D598			HAP: (10) [40CFR 63 Subpart CC, #3A, 6-23-2003]	K67.7
STORAGE TANK, EXTERNAL FLOATING ROOF, NO. 335, WITH A MIXER, 80000 BBL; DIAMETER: 120 FT ; HEIGHT: 40 FT WITH A/N: 535422  FLOATING ROOF, DOUBLE DECK, WELDED SHELL  PRIMARY SEAL, CATEGORY A, METALLIC SHOE  SECONDARY SEAL, CATEGORY B OR BETTER PER RULE 219(C) (4), WIPER TYPE	D601			HAP: (10) [40CFR 63 Subpart CC, #2, 6-23-2003]	K67.7

\* (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 limit (e.g. NSPS, NESHAPS, etc.)  
 (9) See App B for Emission Limits  
 (10) See section J for NESHAP/MACT requirements

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## FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL

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

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
<b>Process 13: STORAGE TANKS</b>					P13.1, P13.2
STORAGE TANK, EXTERNAL FLOATING ROOF, NO. 342, 54000 BBL; DIAMETER: 90 FT ; HEIGHT: 48 FT WITH A/N: 535428  FLOATING ROOF, DOUBLE DECK, WELDED SHELL  PRIMARY SEAL, CATEGORY A, METALLIC SHOE  SECONDARY SEAL, CATEGORY C OR BETTER PER RULE 219(C) (4), LIQUID MOUNTED RESILIENT FOAM-FILLED	D605			HAP: (10) [40CFR 63 Subpart CC, #2, 6-23-2003]	K67.7
STORAGE TANK, EXTERNAL FLOATING ROOF, NO. 348, 20000 BBL; DIAMETER: 60 FT ; HEIGHT: 40 FT 6 IN WITH A/N: 535430  FLOATING ROOF, DOUBLE DECK, WELDED SHELL  PRIMARY SEAL, CATEGORY A, METALLIC SHOE  SECONDARY SEAL, CATEGORY A, WIPER TYPE	D606				K67.7

\* (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 limit (e.g. NSPS, NESHAPS, etc.)  
 (9) See App B for Emission Limits  
 (10) See section J for NESHAP/MACT requirements

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## FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL

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

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
<b>Process 13: STORAGE TANKS</b>					P13.1, P13.2
STORAGE TANK, EXTERNAL FLOATING ROOF, NO. 352, FOUL WATER, 20000 BBL; DIAMETER: 60 FT ; HEIGHT: 42 FT 6 IN WITH A/N: 535432  FLOATING ROOF, DOUBLE DECK, WELDED SHELL  PRIMARY SEAL, CATEGORY A, METALLIC SHOE  SECONDARY SEAL, CATEGORY A, WIPER TYPE	D612			<b>BENZENE: (10) [40CFR 61 Subpart FF, #1, 12-4-2003]</b>	H23.9, K67.7
STORAGE TANK, EXTERNAL FLOATING ROOF, NO. 370, 55000 BBL; DIAMETER: 90 FT ; HEIGHT: 48 FT WITH A/N: 535434  FLOATING ROOF, DOUBLE DECK, WELDED SHELL  PRIMARY SEAL, CATEGORY A, METALLIC SHOE  SECONDARY SEAL, CATEGORY A, WIPER TYPE	D615			<b>HAP: (10) [40CFR 63 Subpart CC, #3A, 6-23-2003]</b>	H23.15, K67.7

\* (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 limit (e.g. NSPS, NESHAPS, etc.)  
 (9) See App B for Emission Limits  
 (10) See section J for NESHAP/MACT requirements

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## FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL

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

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
<b>Process 13: STORAGE TANKS</b>					P13.1, P13.2
STORAGE TANK, EXTERNAL FLOATING ROOF, NO. 450, 1500 BBL; DIAMETER: 24 FT ; HEIGHT: 24 FT 9 IN WITH A/N: 535439  FLOATING ROOF, DOUBLE DECK, WELDED SHELL  PRIMARY SEAL, CATEGORY A, METALLIC SHOE  SECONDARY SEAL, CATEGORY A, WIPER TYPE	D624				K67.7
STORAGE TANK, EXTERNAL FLOATING ROOF, NO. 451, WITH A MIXER, 1500 BBL; DIAMETER: 24 FT ; HEIGHT: 24 FT 9 IN WITH A/N: 535444  FLOATING ROOF, DOUBLE DECK, WELDED SHELL  PRIMARY SEAL, CATEGORY A, METALLIC SHOE  SECONDARY SEAL, CATEGORY A, WIPER TYPE	D625				K67.7

\* (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 limit (e.g. NSPS, NESHAPS, etc.)  
 (9) See App B for Emission Limits  
 (10) See section J for NESHAP/MACT requirements

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## FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL

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

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
<b>Process 13: STORAGE TANKS</b>					P13.1, P13.2
STORAGE TANK, EXTERNAL FLOATING ROOF, NO. 452, 162100 BBL; DIAMETER: 150 FT ; HEIGHT: 51 FT 6 IN WITH A/N: 535447  FLOATING ROOF, PONTOON, WELDED SHELL  PRIMARY SEAL, CATEGORY A, METALLIC SHOE  SECONDARY SEAL, CATEGORY C OR BETTER PER RULE 219(C) (4), WIPER TYPE	D626			HAP: (10) [40CFR 63 Subpart CC, #2, 6-23-2003]	H23.16, K67.7
STORAGE TANK, EXTERNAL FLOATING ROOF, NO. 453, 93000 BBL; DIAMETER: 130 FT ; HEIGHT: 51 FT 8 IN WITH A/N: 535449  FLOATING ROOF, PONTOON, WELDED SHELL  PRIMARY SEAL, CATEGORY A, METALLIC SHOE  SECONDARY SEAL, CATEGORY A, WIPER TYPE	D629			HAP: (10) [40CFR 63 Subpart CC, #3A, 6-23-2003]	H23.16, K67.7

- \* (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 limit (e.g. NSPS, NESHAPS, etc.)
- (10) See section J for NESHAP/MACT requirements

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## FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL

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

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
<b>Process 13: STORAGE TANKS</b>					P13.1, P13.2
STORAGE TANK, EXTERNAL FLOATING ROOF, NO. 353, FOUL WATER, 20000 BBL; DIAMETER: 60 FT ; HEIGHT: 42 FT 6 IN WITH A/N: 535451  FLOATING ROOF, DOUBLE DECK, WELDED SHELL  PRIMARY SEAL, CATEGORY A, METALLIC SHOE  SECONDARY SEAL, CATEGORY A, WIPER TYPE	D630			<b>BENZENE: (10) [40CFR 61 Subpart FF, #1, 12-4-2003]</b>	H23.9, K67.7
STORAGE TANK, EXTERNAL FLOATING ROOF, NO. 433, FOUL WATER, 25000 BBL; DIAMETER: 60 FT ; HEIGHT: 50 FT WITH A/N: 535453  FLOATING ROOF, DOUBLE DECK, WELDED SHELL  PRIMARY SEAL, CATEGORY A, METALLIC SHOE  SECONDARY SEAL, CATEGORY A, WIPER TYPE	D633			<b>BENZENE: (10) [40CFR 61 Subpart FF, #1, 12-4-2003]</b>	H23.9, K67.7

\* (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 limit (e.g. NSPS, NESHAPS, etc.)  
 (9) See App B for Emission Limits  
 (10) See section J for NESHAP/MACT requirements

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## FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL

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

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
<b>Process 13: STORAGE TANKS</b>					P13.1, P13.2
STORAGE TANK, EXTERNAL FLOATING ROOF, NO. 401, 1938 BBL; DIAMETER: 27 FT ; HEIGHT: 20 FT 9 IN WITH A/N: 535477  FLOATING ROOF, DOUBLE DECK, RIVETED SHELL  PRIMARY SEAL, CATEGORY B OR BETTER PER RULE 219(C)(4), WIPER TYPE  SECONDARY SEAL, CATEGORY A, WIPER TYPE  GUIDEPOLE, GASKETED SLIDING COVER, WITH WIPER, UNSLOTTED	D356			HAP: (10) [40CFR 63 Subpart CC, #3A, 6-23-2003]	B22.4, B59.1, C1.69, K67.7

\* (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 limit (e.g. NSPS, NESHAPS, etc.)  
 (9) See App B for Emission Limits  
 (10) See section J for NESHAP/MACT requirements

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## FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL

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

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
<b>Process 13: STORAGE TANKS</b>					P13.1, P13.2
STORAGE TANK, EXTERNAL FLOATING ROOF, NO. 402, 2108 BBL; DIAMETER: 28 FT ; HEIGHT: 20 FT 9 IN WITH A/N: 535479  FLOATING ROOF, DOUBLE DECK, RIVETED SHELL  PRIMARY SEAL, CATEGORY A, METALLIC SHOE  SECONDARY SEAL, CATEGORY A, WIPER TYPE  GUIDEPOLE, GASKETED SLIDING COVER, WITH WIPER, UNSLOTTED	D357			HAP: (10) [40CFR 63 Subpart CC, #3A, 6-23-2003]	B22.4, B59.1, C1.70, K67.7
STORAGE TANK, EXTERNAL FLOATING ROOF, NO. 403, WITH A MIXER, 1969 BBL; DIAMETER: 27 FT 2 IN; HEIGHT: 20 FT 9 IN WITH A/N: 535481  FLOATING ROOF, DOUBLE DECK, RIVETED SHELL  PRIMARY SEAL, CATEGORY A, METALLIC SHOE  SECONDARY SEAL, CATEGORY A, WIPER TYPE	D358			HAP: (10) [40CFR 63 Subpart CC, #2, 6-23-2003]	K67.7

\* (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 limit (e.g. NSPS, NESHAPS, etc.)  
 (9) See App B for Emission Limits  
 (10) See section J for NESHAP/MACT requirements

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## FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL

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

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
<b>Process 13: STORAGE TANKS</b>					P13.1, P13.2
STORAGE TANK, EXTERNAL FLOATING ROOF, NO. 404, 1961 BBL; DIAMETER: 27 FT 2 IN; HEIGHT: 20 FT 9 IN WITH A/N: 535482  FLOATING ROOF, DOUBLE DECK, RIVETED SHELL  PRIMARY SEAL, CATEGORY A, METALLIC SHOE  SECONDARY SEAL, CATEGORY A, WIPER TYPE  GUIDEPOLE, GASKETED SLIDING COVER, WITH WIPER, UNSLOTTED	D359			HAP: (10) [40CFR 63 Subpart CC, #3A, 6-23-2003]	B22.4, B59.1, C1.71, K67.7
STORAGE TANK, EXTERNAL FLOATING ROOF, NO. 406, 2028 BBL; DIAMETER: 27 FT ; HEIGHT: 20 FT 5 IN WITH A/N: 535484  FLOATING ROOF, DOUBLE DECK, RIVETED SHELL  PRIMARY SEAL, CATEGORY A, METALLIC SHOE  SECONDARY SEAL, CATEGORY A, WIPER TYPE	D361			HAP: (10) [40CFR 63 Subpart CC, #3A, 6-23-2003]	K67.7

- \* (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 limit (e.g. NSPS, NESHAPS, etc.)
- (10) See section J for NESHAP/MACT requirements

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## FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL

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

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
<b>Process 13: STORAGE TANKS</b>					P13.1, P13.2
STORAGE TANK, EXTERNAL FLOATING ROOF, NO. 407, 2495 BBL; DIAMETER: 30 FT ; HEIGHT: 20 FT 5.63 IN WITH A/N: 535334  FLOATING ROOF, DOUBLE DECK, RIVETED SHELL  PRIMARY SEAL, CATEGORY B OR BETTER PER RULE 219(C)(4), WIPER TYPE  SECONDARY SEAL, CATEGORY A, WIPER TYPE  GUIDEPOLE, GASKETED SLIDING COVER, WITH WIPER, UNSLOTTED	D362			HAP: (10) [40CFR 63 Subpart CC, #3A, 6-23-2003]	B22.4, B59.1, C1.72, K67.7

\* (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 limit (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.

## FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL

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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
<b>Process 13: STORAGE TANKS</b>					P13.1, P13.2
STORAGE TANK, EXTERNAL FLOATING ROOF, NO. 408, 2478 BBL; DIAMETER: 30 FT ; HEIGHT: 20 FT 4.5 IN WITH A/N: 535339  FLOATING ROOF, DOUBLE DECK, RIVETED SHELL  PRIMARY SEAL, CATEGORY A, METALLIC SHOE  SECONDARY SEAL, CATEGORY A, WIPER TYPE  GUIDEPOLE, GASKETED SLIDING COVER, WITH WIPER, UNSLOTTED	D363			HAP: (10) [40CFR 63 Subpart CC, #3A, 6-23-2003]	B22.4, B59.1, C1.73, K67.7

\* (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 limit (e.g. NSPS, NESHAPS, etc.)  
 (9) See App B for Emission Limits  
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## FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL

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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
<b>Process 13: STORAGE TANKS</b>					P13.1, P13.2
STORAGE TANK, EXTERNAL FLOATING ROOF, NO. 410, WITH A MIXER, 2500 BBL; DIAMETER: 30 FT ; HEIGHT: 20 FT 4.75 IN WITH A/N: 535353  FLOATING ROOF, DOUBLE DECK, RIVETED SHELL  PRIMARY SEAL, CATEGORY B OR BETTER PER RULE 219(C)(4), WIPER TYPE  SECONDARY SEAL, CATEGORY A, WIPER TYPE  GUIDEPOLE, GASKETED SLIDING COVER, WITH WIPER, UNSLOTTED	D364			HAP: (10) [40CFR 63 Subpart CC, #3A, 6-23-2003]	B22.4, B59.1, C1.74, K67.7
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 535353	D1612				H23.2
<b>System 4: PRESSURIZED TANKS</b>					S13.2, S15.2, S15.6
STORAGE TANK, PRESSURIZED, 152, LPG, 42000 GALS A/N: 535466	D640				
STORAGE TANK, PRESSURIZED, 153, 96000 GALS A/N: 535469	D642				
STORAGE TANK, PRESSURIZED, 154, 96600 GALS A/N: 535472	D643				

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

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

## FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL

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

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
<b>Process 13: STORAGE TANKS</b>					P13.1, P13.2
STORAGE TANK, PRESSURIZED, 345, 42000 GALS A/N: 535475	D647				
STORAGE TANK, PRESSURIZED, 371, 42000 GALS A/N: 535478	D648				
STORAGE TANK, PRESSURIZED, 380, 29400 GALS A/N: 535502	D649				
STORAGE TANK, PRESSURIZED, F-101, ANHYDROUS AMMONIA, WITH TWO PRESSURE SAFETY VALVES SET AT 285 PSIG, 12000 GALS; DIAMETER: 10 FT ; LENGTH: 24 FT A/N: 535458	D1370				
STORAGE TANK, PRESSURIZED, F-326, ANHYDROUS AMMONIA, (SULFURIC ACID PLANT), 12000 GALS; DIAMETER: 7 FT 11 IN; LENGTH: 36 FT 4 IN A/N: 535462	D1474				
STORAGE TANK, PRESSURIZED, 465, C4 AND C5, VENTED TO REFINERY VAPOR RECOVERY SYSTEM, 27000 BBL; DIAMETER: 66 FT A/N: 535456	D1367				C1.54, E57.3, E71.19, E71.21, E71.22
STORAGE TANK, PRESSURIZED, F-136, PERCHLORETHYLENE, WITH A VAPOR BALANCE SYSTEM, 6250 GALS; DIAMETER: 8 FT ; HEIGHT: 16 FT A/N: 535503	D825				C1.15, E144.1

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| <ul style="list-style-type: none"> <li>* (1) (1A) (1B) Denotes RECLAIM emission factor</li> <li>(3) Denotes RECLAIM concentration limit</li> <li>(5) (5A) (5B) Denotes command and control emission limit</li> <li>(7) Denotes NSR applicability limit</li> <li>(9) See App B for Emission Limits</li> </ul> | <ul style="list-style-type: none"> <li>(2) (2A) (2B) Denotes RECLAIM emission rate</li> <li>(4) Denotes BACT emission limit</li> <li>(6) Denotes air toxic control rule limit</li> <li>(8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)</li> <li>(10) See section J for NESHAP/MACT requirements</li> </ul> |
|--|--|

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## FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL

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

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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
<b>Process 13: STORAGE TANKS</b>					P13.1, P13.2
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 535466	D1613				H23.2
<b>System 6: BUTANE TANKS (VENTING TO VRS)</b>					S13.2, S15.2, S15.6
STORAGE TANK, PRESSURIZED, TK-300, SPHERICAL, C3, C4, AND C5, VENTED TO VAPOR RECOVERY SYSTEM, 4600 BBL; DIAMETER: 38 FT A/N: 535504	D644				C1.54, E71.7, E71.8, E71.15
STORAGE TANK, PRESSURIZED, TK-301, SPHERICAL, C3, C4, AND C5, VENTED TO VAPOR RECOVERY SYSTEM, 9200 BBL; DIAMETER: 48 FT A/N: 535505	D645				C1.54, E71.7, E71.8, E71.15
STORAGE TANK, PRESSURIZED, TK-302, SPHERICAL, C3, C4, AND C5, VENTED TO VAPOR RECOVERY SYSTEM, 9200 BBL; DIAMETER: 48 FT A/N: 535506	D646				C1.54, E71.7, E71.8, E71.15
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 535506	D1801				H23.2
<b>System 7: BUTANE TANKS (VENTING TO LPG FLARE)</b>					S13.2, S15.7
STORAGE TANK, PRESSURIZED, TK-442, SPHERICAL, C3, C4, AND C5, VENTED TO LPG FLARE, 20000 BBL; DIAMETER: 62 FT A/N: 535507	D661	C736			C1.51, E71.11, E71.13, E71.16

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|--|--|
| <ul style="list-style-type: none"> <li>* (1) (1A) (1B) Denotes RECLAIM emission factor</li> <li>(3) Denotes RECLAIM concentration limit</li> <li>(5) (5A) (5B) Denotes command and control emission limit</li> <li>(7) Denotes NSR applicability limit</li> <li>(9) See App B for Emission Limits</li> </ul> | <ul style="list-style-type: none"> <li>(2) (2A) (2B) Denotes RECLAIM emission rate</li> <li>(4) Denotes BACT emission limit</li> <li>(6) Denotes air toxic control rule limit</li> <li>(8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)</li> <li>(10) See section J for NESHAP/MACT requirements</li> </ul> |
|--|--|

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## FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL

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

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
<b>Process 13: STORAGE TANKS</b>					P13.1, P13.2
STORAGE TANK, PRESSURIZED, TK-443, SPHERICAL, C3, C4, AND C5, VENTED TO LPG FLARE, 20000 BBL; DIAMETER: 62 FT A/N: 535510	D662	C736			C1.51, E71.11, E71.13, E71.16
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 535510	D1802				H23.2
<b>System 8: DOME COVERED EXTERNAL FLOATING ROOF TANKS</b>					S13.8
STORAGE TANK, DOMED EXTERNAL FLOATING ROOF, NO. 1, 39000 BBL; DIAMETER: 80 FT ; HEIGHT: 49 FT WITH A/N: 535512  DOME COVER, GEODESIC  FLOATING ROOF, DOUBLE DECK, WELDED SHELL  PRIMARY SEAL, CATEGORY A, MECHANICAL SHOE  SECONDARY SEAL, CATEGORY B OR BETTER, WIPER TYPE, RIM MOUNTED	D546			<b>BENZENE:</b> (10) [40CFR 61 Subpart FF, #1, 12-4-2003]; <b>HAP:</b> (10) [40CFR 63 Subpart CC, #3A, 6-23-2003]	B22.2, C1.85, H23.9

\* (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 limit (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.

## FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL

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

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
<b>Process 13: STORAGE TANKS</b>					P13.1, P13.2
STORAGE TANK, DOMED EXTERNAL FLOATING ROOF, NO. 6, 42000 BBL; DIAMETER: 85 FT ; HEIGHT: 48 FT WITH A/N: 535513  DOME COVER, GEODESIC  FLOATING ROOF, DOUBLE DECK, WELDED SHELL  PRIMARY SEAL, CATEGORY A, METALLIC SHOE  SECONDARY SEAL, CATEGORY A, WIPER TYPE  GUIDEPOLE, GASKETED SLIDING COVER, WITH WIPER, UNSLOTTED	D549			<b>BENZENE: (10) [40CFR 61            Subpart FF, #1, 12-4-2003]; HAP:            (10) [40CFR 63 Subpart CC,            #3A, 6-23-2003]</b>	B22.2, C1.50, H23.9, K67.11, K171.2

\* (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 limit (e.g. NSPS, NESHAPS, etc.)  
 (9) See App B for Emission Limits  
 (10) See section J for NESHAP/MACT requirements

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## FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL

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

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
<b>Process 13: STORAGE TANKS</b>					P13.1, P13.2
STORAGE TANK, DOMED EXTERNAL FLOATING ROOF, NO. 66, WITH A MIXER, 82000 BBL; DIAMETER: 117 FT ; HEIGHT: 45 FT WITH A/N: 535514  DOME COVER, GEODESIC  FLOATING ROOF, PONTOON, RIVETED SHELL  PRIMARY SEAL, CATEGORY A, METALLIC SHOE  SECONDARY SEAL, CATEGORY B OR BETTER PER RULE 219(C) (4), WIPER TYPE  GUIDEPOLE, GASKETED SLIDING COVER, WITH WIPER, UNSLOTTED	D555			<b>BENZENE:</b> (10) [40CFR 61 <b>Subpart FF, #1, 12-4-2003]; HAP:</b> (10) [40CFR 63 Subpart CC, <b>#3A, 6-23-2003]</b>	H23.9, K67.11, K171.2

\* (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 limit (e.g. NSPS, NESHAPS, etc.)  
 (9) See App B for Emission Limits  
 (10) See section J for NESHAP/MACT requirements

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## FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL

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

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
<b>Process 13: STORAGE TANKS</b>					P13.1, P13.2
STORAGE TANK, DOMED EXTERNAL FLOATING ROOF, NO. 67, 80700 BBL; DIAMETER: 117 FT 2 IN; HEIGHT: 47 FT 3 IN WITH A/N: 535515  FLOATING ROOF, PONTOON, RIVETED SHELL  PRIMARY SEAL, CATEGORY A, MECHANICAL SHOE  SECONDARY SEAL, CATEGORY A, WIPER TYPE  GUIDEPOLE, GASKETED SLIDING COVER, WITH WIPER, UNSLOTTED	D556			<b>BENZENE:</b> (10) [40CFR 61 <b>Subpart FF, #1, 12-4-2003]; HAP:</b> (10) [40CFR 63 Subpart CC, <b>#3A, 6-23-2003]</b>	C1.2, H23.2, H23.9, K67.7

\* (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 limit (e.g. NSPS, NESHAPS, etc.)  
 (9) See App B for Emission Limits  
 (10) See section J for NESHAP/MACT requirements

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## FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL

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

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
<b>Process 13: STORAGE TANKS</b>					P13.1, P13.2
STORAGE TANK, WELDED SHELL, DOMED EXTERNAL FLOATING ROOF, NO. 91, 81000 BBL; DIAMETER: 120 FT ; HEIGHT: 42 FT WITH A/N: 535516  DOME COVER, GEODESIC  FLOATING ROOF, DOUBLE DECK  PRIMARY SEAL, CATEGORY A, METALLIC SHOE  SECONDARY SEAL, WIPER TYPE, CATEGORY B  GUIDEPOLE, GASKETED COVER, WITH POLE WIPER, UNSLOTTED	D559			HAP: (10) [40CFR 63 Subpart CC, #3A, 6-23-2003]	K67.7, K171.2

\* (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 limit (e.g. NSPS, NESHAPS, etc.)  
 (9) See App B for Emission Limits  
 (10) See section J for NESHAP/MACT requirements

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## FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL

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

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
<b>Process 13: STORAGE TANKS</b>					P13.1, P13.2
STORAGE TANK, DOMED EXTERNAL FLOATING ROOF, NO. 110, 145000 BBL; DIAMETER: 150 FT ; HEIGHT: 51 FT 2 IN WITH A/N: 535517  DOME COVER, GEODESIC  FLOATING ROOF, PONTOON, WELDED SHELL  PRIMARY SEAL, CATEGORY A, METALLIC SHOE  SECONDARY SEAL, CATEGORY B OR BETTER, RIM MOUNTED, WIPER TYPE  GUIDEPOLE, UNSLOTTED, GASKETED SLIDING COVER, WIPER	D563			HAP: (10) [40CFR 63 Subpart CC, #3A, 6-23-2003]	H23.16, K67.7, K171.2

\* (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 limit (e.g. NSPS, NESHAPS, etc.)  
 (9) See App B for Emission Limits  
 (10) See section J for NESHAP/MACT requirements

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## FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL

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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
<b>Process 13: STORAGE TANKS</b>					P13.1, P13.2
STORAGE TANK, DOMED EXTERNAL FLOATING ROOF, NO. 146, WITH A MIXER, 100800 BBL; DIAMETER: 120 FT ; HEIGHT: 50 FT 3 IN WITH A/N: 535518  DOME COVER, GEODESIC  FLOATING ROOF, PONTOON, WELDED SHELL  PRIMARY SEAL, CATEGORY A, METALLIC SHOE  SECONDARY SEAL, CATEGORY B OR BETTER, WIPER TYPE  GUIDEPOLE, GASKETED SLIDING COVER, WITH WIPER, UNSLOTTED	D566			HAP: (10) [40CFR 63 Subpart CC, #3A, 6-23-2003]	K67.7

\* (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 limit (e.g. NSPS, NESHAPS, etc.)  
 (9) See App B for Emission Limits  
 (10) See section J for NESHAP/MACT requirements

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## FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL

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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
<b>Process 13: STORAGE TANKS</b>					P13.1, P13.2
STORAGE TANK, WELDED SHELL, DOMED EXTERNAL FLOATING ROOF, NO. 147, 159400 BBL; DIAMETER: 150 FT ; HEIGHT: 50 FT 11 IN WITH A/N: 535519  DOME COVER, GEODESIC  FLOATING ROOF, PONTOON  PRIMARY SEAL, CATEGORY A, METALLIC SHOE  SECONDARY SEAL, CATEGORY A, RIM MOUNTED, WIPER TYPE  GUIDEPOLE, GASKETED COVER, WITH POLE WIPER, UNSLOTTED	D567			HAP: (10) [40CFR 63 Subpart CC, #3A, 6-23-2003]	B22.3, H23.16, K67.7

\* (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 limit (e.g. NSPS, NESHAPS, etc.)  
 (9) See App B for Emission Limits  
 (10) See section J for NESHAP/MACT requirements

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## FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL

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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
<b>Process 13: STORAGE TANKS</b>					P13.1, P13.2
STORAGE TANK, DOMED EXTERNAL FLOATING ROOF, NO. 149, WITH A MIXER, 98000 BBL; DIAMETER: 120 FT ; HEIGHT: 50 FT 1 IN WITH A/N: 535543  DOME COVER, GEODESIC  FLOATING ROOF, DOUBLE DECK  PRIMARY SEAL, CATEGORY A, METALLIC SHOE  SECONDARY SEAL, CATEGORY A, WIPER TYPE  GUIDEPOLE, UNSLOTTED, GASKETED SLIDING COVER, WIPER	D604			HAP: (10) [40CFR 63 Subpart CC, #3A, 6-23-2003]	K67.7, K171.2

\* (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 limit (e.g. NSPS, NESHAPS, etc.)  
 (9) See App B for Emission Limits  
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## FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL

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

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
<b>Process 13: STORAGE TANKS</b>					P13.1, P13.2
STORAGE TANK, DOMED EXTERNAL FLOATING ROOF, NO. 168, 161400 BBL; DIAMETER: 150 FT ; HEIGHT: 51 FT 3 IN WITH A/N: 535520  DOME COVER, GEODESIC  FLOATING ROOF, DOUBLE DECK, WELDED SHELL  PRIMARY SEAL, CATEGORY A, METALLIC SHOE  SECONDARY SEAL, CATEGORY C OR BETTER PER RULE 219(C) (4), WIPER TYPE  GUIDEPOLE, GASKETED SLIDING COVER, WITH WIPER, UNSLOTTED	D570			HAP: (10) [40CFR 63 Subpart CC, #3A, 6-23-2003]	C1.82, C1.83, K67.7, K67.11

\* (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 limit (e.g. NSPS, NESHAPS, etc.)  
 (9) See App B for Emission Limits  
 (10) See section J for NESHAP/MACT requirements

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## FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL

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

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
<b>Process 13: STORAGE TANKS</b>					P13.1, P13.2
STORAGE TANK, DOMED EXTERNAL FLOATING ROOF, NO. 169, 161400 BBL; DIAMETER: 150 FT ; HEIGHT: 51 FT 3 IN WITH A/N: 535521  FLOATING ROOF, DOUBLE DECK, WELDED SHELL  PRIMARY SEAL, CATEGORY A, METALLIC SHOE  SECONDARY SEAL, CATEGORY A, WIPER TYPE, FLEX-A-SEAL  DOME COVER, GEODESIC  GUIDEPOLE, GASKETED SLIDING COVER, WITH WIPER, UNSLOTTED	D571			HAP: (10) [40CFR 63 Subpart CC, #2, 6-23-2003]	C1.86, K67.11

\* (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 limit (e.g. NSPS, NESHAPS, etc.)  
 (9) See App B for Emission Limits  
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## FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL

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

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
<b>Process 13: STORAGE TANKS</b>					P13.1, P13.2
STORAGE TANK, DOMED EXTERNAL FLOATING ROOF, NO. 170, 157300 BBL; DIAMETER: 150 FT ; HEIGHT: 51 FT 3 IN WITH A/N: 535523  DOME COVER, GEODESIC  FLOATING ROOF, DOUBLE DECK, WELDED SHELL  PRIMARY SEAL, CATEGORY A, METALLIC SHOE  SECONDARY SEAL, CATEGORY A, WIPER TYPE  GUIDEPOLE, GASKETED SLIDING COVER, WITH WIPER, UNSLOTTED	D572			HAP: (10) [40CFR 63 Subpart CC, #3A, 6-23-2003]	C1.5, K67.7

\* (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 limit (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.

## FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL

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

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
<b>Process 13: STORAGE TANKS</b>					P13.1, P13.2
STORAGE TANK, EXTERNAL FLOATING ROOF, NO. 171, WITH DOME COVER AND A 25 HP SIDE ENTRY MIXER, 155000 BBL; DIAMETER: 150 FT ; HEIGHT: 51 FT 3 IN WITH A/N: 535525  FLOATING ROOF, DOUBLE DECK, WELDED SHELL  PRIMARY SEAL, CATEGORY A, MECHANICAL SHOE  SECONDARY SEAL, CATEGORY A, WIPER TYPE, RIM MOUNTED	D573			HAP: (10) [40CFR 63 Subpart CC, #3A, 6-23-2003]	B22.2, K67.7

\* (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 limit (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.

## FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL

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

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
<b>Process 13: STORAGE TANKS</b>					P13.1, P13.2
STORAGE TANK, DOMED EXTERNAL FLOATING ROOF, NO. 204, 97800 BBL; DIAMETER: 120 FT ; HEIGHT: 50 FT 6 IN WITH A/N: 535526  DOME COVER, GEODESIC  FLOATING ROOF, DOUBLE DECK, WELDED SHELL  PRIMARY SEAL, CATEGORY A, METALLIC SHOE  SECONDARY SEAL, CATEGORY B OR BETTER, WIPER TYPE  GUIDEPOLE, GASKETED SLIDING COVER, WITH WIPER, UNSLOTTED	D577			HAP: (10) [40CFR 63 Subpart CC, #3A, 6-23-2003]	K67.7

\* (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 limit (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.

## FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL

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

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
<b>Process 13: STORAGE TANKS</b>					P13.1, P13.2
STORAGE TANK, DOMED EXTERNAL FLOATING ROOF, NO. 206, 97800 BBL; DIAMETER: 120 FT ; HEIGHT: 50 FT 6 IN WITH A/N: 535537  DOME COVER, GEODESIC  FLOATING ROOF, DOUBLE DECK, WELDED SHELL  PRIMARY SEAL, CATEGORY A, METALLIC SHOE  SECONDARY SEAL, CATEGORY B OR BETTER, WIPER TYPE  GUIDEPOLE, GASKETED SLIDING COVER, WITH WIPER, UNSLOTTED	D578			HAP: (10) [40CFR 63 Subpart CC, #3A, 6-23-2003]	K67.7

\* (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 limit (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.

## FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL

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

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
<b>Process 13: STORAGE TANKS</b>					P13.1, P13.2
STORAGE TANK, DOMED EXTERNAL FLOATING ROOF, NO. 292, WITH A MIXER, 95000 BBL; DIAMETER: 120 FT ; HEIGHT: 49 FT 8 IN WITH A/N: 535540  DOME COVER, GEODESIC  FLOATING ROOF, DOUBLE DECK, WELDED SHELL  PRIMARY SEAL, CATEGORY A, METALLIC SHOE  SECONDARY SEAL, CATEGORY A, WIPER TYPE  GUIDEPOLE, UNSLOTTED, GASKETED SLIDING COVER, WIPER	D587			HAP: (10) [40CFR 63 Subpart CC, #3A, 6-23-2003]	K67.7, K171.2

\* (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 limit (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.

## FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL

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

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
<b>Process 13: STORAGE TANKS</b>					P13.1, P13.2
STORAGE TANK, EXTERNAL FLOATING ROOF, NO. 330, WITH DOME COVER, 80000 BBL; DIAMETER: 120 FT ; HEIGHT: 40 FT 6 IN WITH A/N: 535541  FLOATING ROOF, DOUBLE DECK, WELDED SHELL  PRIMARY SEAL, CATEGORY A, MECHANICAL SHOE  SECONDARY SEAL, CATEGORY A, WIPER TYPE, RIM MOUNTED	D592			HAP: (10) [40CFR 63 Subpart CC, #3A, 6-23-2003]	B22.2, K67.7

\* (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 limit (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.

## FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL

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

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
<b>Process 13: STORAGE TANKS</b>					P13.1, P13.2
STORAGE TANK, DOMED EXTERNAL FLOATING ROOF, NO. 349, RECOVERED OIL, 20000 BBL; DIAMETER: 60 FT ; HEIGHT: 40 FT 6 IN WITH A/N: 535545  DOME COVER, GEODESIC  FLOATING ROOF, PONTOON, WELDED SHELL  PRIMARY SEAL, CATEGORY A, MECHANICAL SHOE  SECONDARY SEAL, CATEGORY B OR BETTER, WIPER TYPE  GUIDEPOLE, GASKETED SLIDING COVER, WITH WIPER, UNSLOTTED	D610			<b>BENZENE:</b> (10) [40CFR 61 Subpart FF, #1, 12-4-2003]; <b>HAP:</b> (10) [40CFR 63 Subpart CC, #3A, 6-23-2003]	B22.5, C1.87, H23.9, K67.11, K171.2
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 535517	D1803				H23.2
<b>System 9: LOW PRESSURIZED TANKS</b>					
STORAGE TANK, PRESSURIZED, NO. 440, 5250000 GALS A/N: 535548	D659	C736			E336.4
STORAGE TANK, PRESSURIZED, NO. 441, 5250000 GALS A/N: 535549	D660	C736			E336.4

- \* (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 limit (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.

## FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL

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

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
<b>Process 13: STORAGE TANKS</b>					P13.1, P13.2
STORAGE TANK, FIXED ROOF, LOW PRESSURE, NO. 304, WITH THREE PRESSURE RELIEF VALVES SET AT 10 PSIG, 80000 BBL; DIAMETER: 127 FT 6 IN; HEIGHT: 40 FT A/N: 535550	D665				E336.3, K67.2
STORAGE TANK, FIXED ROOF, LOW PRESSURE, NO. 466, MIXED PENTANES, WITH TWO PRESSURE RELIEF VALVES SET AT 14.9 PSIG, 40000 BBL; DIAMETER: 80 FT ; HEIGHT: 48 FT A/N: 535547	D1378			<b>HAP: (10) [40CFR 63 Subpart CC, #2, 10-28-2009]</b>	C1.5, C1.17, E71.4, E336.5
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 535550	D1804				H23.2
<b>Process 14: ELECTRICITY GENERATION</b>					
<b>System 1: EMERGENCY IC ENGINES</b>					
INTERNAL COMBUSTION ENGINE, EMERGENCY POWER, DIESEL FUEL, CUMMINS, MODEL M11-G2, WITH AFTERCOOLER, TURBOCHARGER, 380 BHP A/N: 535551	D1553		NOX: PROCESS UNIT**; SOX: PROCESS UNIT**	CO: 8.5 GRAM/BHP-HR DIESEL (4) [RULE 1303(a)(1) -BACT, 5-10-1996]; NOX: 5.78 LBS/HR DIESEL (2) [RULE 2012, 5-6-2005]; PM: (9) [RULE 404, 2-7-1986]; PM10: 0.38 GRAM/BHP-HR DIESEL (4) [RULE 1303(a)(1)-BACT, 5-10-1996]; ROG: 1 GRAM/BHP-HR DIESEL (4) [RULE 1303(a)(1)-BACT, 5-10-1996]; SOX: 0.154 LBS/HR DIESEL (2) [RULE 2011, 5-6-2005]	B61.5, C1.39, C1.76, D12.3, D135.1, H23.29, K67.13

\* (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 limit (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.

## FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL

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

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
<b>Process 14: ELECTRICITY GENERATION</b>					
INTERNAL COMBUSTION ENGINE, EMERGENCY WATER PUMP, DIESEL FUEL, CATERPILLAR, MODEL 3306A, 200 HP A/N: 535579	D670		NOX: PROCESS UNIT**; SOX: PROCESS UNIT**	NOX: 469 LBS/1000 GAL DIESEL (1) [RULE 2012, 5-6-2005]; PM: (9) [RULE 404, 2-7-1986]; SOX: 6.24 LBS/1000 GAL DIESEL (1) [RULE 2011, 5-6-2005]	B61.5, C1.84, D135.1, H23.30, H23.35
INTERNAL COMBUSTION ENGINE, EMERGENCY FIRE, DIESEL FUEL, CATERPILLAR, MODEL 3306 T, 267 HP A/N: 535580	D675		NOX: PROCESS UNIT**; SOX: PROCESS UNIT**	NOX: 469 LBS/1000 GAL (1) [RULE 2012, 5-6-2005]; PM: (9) [RULE 404, 2-7-1986]; SOX: 6.24 LBS/1000 GAL (1) [RULE 2011, 5-6-2005]	B61.5, C1.39, C1.75, D12.3, D135.1, H23.29, K67.13
INTERNAL COMBUSTION ENGINE, EMERGENCY FIRE, DIESEL FUEL, CATERPILLAR, MODEL 3306T, 267 HP A/N: 535581	D676		NOX: PROCESS UNIT**; SOX: PROCESS UNIT**	NOX: 469 LBS/1000 GAL (1) [RULE 2012, 5-6-2005]; PM: (9) [RULE 404, 2-7-1986]; SOX: 6.24 LBS/1000 GAL (1) [RULE 2011, 5-6-2005]	B61.5, C1.39, C1.75, D12.3, D135.1, H23.29, K67.13
INTERNAL COMBUSTION ENGINE, EMERGENCY FIRE, DIESEL FUEL, CATERPILLAR, MODEL 3306 T, 267 HP A/N: 535582	D677		NOX: PROCESS UNIT**; SOX: PROCESS UNIT**	NOX: 469 LBS/1000 GAL (1) [RULE 2012, 5-6-2005]; PM: (9) [RULE 404, 2-7-1986]; SOX: 6.24 LBS/1000 GAL (1) [RULE 2011, 5-6-2005]	B61.5, C1.39, C1.75, D12.3, D135.1, H23.29, K67.13
INTERNAL COMBUSTION ENGINE, EMERGENCY FIRE, DIESEL FUEL, CATERPILLAR, MODEL 3412 DITA PA-3281, 638 HP A/N: 535586	D678		NOX: PROCESS UNIT**; SOX: PROCESS UNIT**	NOX: 469 LBS/1000 GAL (1) [RULE 2012, 5-6-2005]; PM: (9) [RULE 404, 2-7-1986]; SOX: 6.24 LBS/1000 GAL (1) [RULE 2011, 5-6-2005]	B61.5, C1.39, C1.75, D12.3, D135.1, H23.29, K67.13
INTERNAL COMBUSTION ENGINE, EMERGENCY FIRE, DIESEL FUEL, CATERPILLAR, MODEL 3412 DITA PA-3281, 638 HP A/N: 535583	D679		NOX: PROCESS UNIT**; SOX: PROCESS UNIT**	NOX: 469 LBS/1000 GAL (1) [RULE 2012, 5-6-2005]; PM: (9) [RULE 404, 2-7-1986]; SOX: 6.24 LBS/1000 GAL (1) [RULE 2011, 5-6-2005]	B61.5, C1.39, C1.75, D12.3, D135.1, H23.29, K67.13

\* (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 limit (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.

## FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL

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

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
<b>Process 14: ELECTRICITY GENERATION</b>					
INTERNAL COMBUSTION ENGINE, EMERGENCY FIRE, DIESEL FUEL, CATERPILLAR, MODEL 3406B DITA, TRUCK MOUNTED, 460 HP A/N: 535584	D680		NOX: PROCESS UNIT**; SOX: PROCESS UNIT**	NOX: 469 LBS/1000 GAL (1) [RULE 2012, 5-6-2005]; PM: (9) [RULE 404, 2-7-1986]; SOX: 6.24 LBS/1000 GAL (1) [RULE 2011, 5-6-2005]	B61.5, C1.39, D12.3, D135.1, K67.3
INTERNAL COMBUSTION ENGINE, EMERGENCY FIRE, DIESEL FUEL, CATERPILLAR, MODEL 3406B DITA, TRUCK MOUNTED, 460 HP A/N: 535585	D681		NOX: PROCESS UNIT**; SOX: PROCESS UNIT**	NOX: 469 LBS/1000 GAL (1) [RULE 2012, 5-6-2005]; PM: (9) [RULE 404, 2-7-1986]; SOX: 6.24 LBS/1000 GAL (1) [RULE 2011, 5-6-2005]	B61.5, C1.39, D12.3, D135.1, K67.3
INTERNAL COMBUSTION ENGINE, EMERGENCY POWER, DIESEL FUEL, CUMMINS, MODEL QSX15-G9, WITH AFTERCOOLER, TURBOCHARGER, 755 BHP A/N: 535576	D1657		NOX: PROCESS UNIT**; SOX: PROCESS UNIT**	CO: 8.5 GRAM/BHP-HR DIESEL (4) [RULE 1303(a)(1)-BACT, 5-10-1996]; NOX: 6.9 GRAM/BHP-HR DIESEL (4) [RULE 2005, 5-6-2005]; NOX: 11.5 LBS/HR DIESEL (2) [RULE 2012, 5-6-2005]; PM: (9) [RULE 404, 2-7-1986]; PM10: 0.38 GRAM/BHP-HR DIESEL (4) [RULE 1303(a)(1)-BACT, 5-10-1996]; ROG: 1 GRAM/BHP-HR DIESEL (4) [RULE 1303(a)(1)-BACT, 5-10-1996]; SOX: 0.26 LBS/HR DIESEL (2) [RULE 2011, 5-6-2005]	B61.5, C1.39, C1.77, D12.3, D135.1, H23.29, K67.13

\* (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 limit (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.

## FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL

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

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
<b>Process 14: ELECTRICITY GENERATION</b>					
INTERNAL COMBUSTION ENGINE, EMERGENCY POWER, DIESEL FUEL, CUMMINS, MODEL LTA10-G1, WITH AFTERCOOLER, TURBOCHARGER, 380 BHP A/N: 535577	D1658		NOX: PROCESS UNIT**; SOX: PROCESS UNIT**	CO: 8.5 GRAM/BHP-HR DIESEL (4) [RULE 1303(a)(1)-BACT, 5-10-1996]; NOX: 5.78 LBS/HR DIESEL (2) [RULE 2012, 5-6-2005]; NOX: 6.9 GRAM/BHP-HR DIESEL (4) [RULE 2005, 5-6-2005]; PM: (9) [RULE 404, 2-7-1986]; PM10: 0.38 GRAM/BHP-HR DIESEL (4) [RULE 1303(a)(1)-BACT, 5-10-1996]; ROG: 1 GRAM/BHP-HR DIESEL (4) [RULE 1303(a)(1)-BACT, 5-10-1996]; SOX: 0.12 LBS/HR DIESEL (2) [RULE 2011, 5-6-2005]	B61.5, C1.39, C1.78, D12.3, D135.1, H23.29, K67.13
INTERNAL COMBUSTION ENGINE, EMERGENCY POWER, MG-102, CATERPILLAR, MODEL 3408B, LOW SULFUR DIESEL FUEL, 603 BHP A/N: 535578	D1768		NOX: PROCESS UNIT**; SOX: PROCESS UNIT**	CO: 8.5 GRAM/BHP-HR (4) [RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002]; NOX: 6.9 GRAM/BHP-HR (4) [RULE 2005, 5-6-2005]; PM: (9) [RULE 404, 2-7-1986]; PM10: 0.38 GRAM/BHP-HR (4) [RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002]; ROG: 1 GRAM/BHP-HR (4) [RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002]	B61.9, C1.39, C1.76, D12.3, D135.1, H23.29, K67.13
<b>System 2: NON EMERGENCY IC ENGINES</b>					

\* (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 limit (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.

## FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL

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

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
<b>Process 14: ELECTRICITY GENERATION</b>					
INTERNAL COMBUSTION ENGINE, DIESEL FUEL, DETROIT DIESEL ALLISON, MODEL 16V-92TA 8163-7405, (START UP AND COOL DOWN THE COGENERATION SYSTEM), 1095 HP A/N: 535587	D683		NOX: LARGE SOURCE**, SOX: PROCESS UNIT**	NOX: 882 PPMV DIESEL (3) [RULE 2012, 5-6-2005]; PM: (9) [RULE 404, 2-7-1986]	B61.5, C1.7, C1.79, D12.3
<b>System 3: COGENERATION</b>					
EVAPORATOR, THERMAL, E-107, BUTANE A/N:	D826				G292.1
KNOCK OUT POT, THERMAL, F-109, BUTANE, DIAMETER: 3 FT, HEIGHT: 6 FT 6 IN A/N:	D1383				G292.1
VESSEL, MIXING, F-104, FUEL GAS, HEIGHT: 7 FT 6 IN; DIAMETER: 4 FT A/N:	D1471				G292.1

\* (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 limit (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.



## FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL

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

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
<b>Process 14: ELECTRICITY GENERATION</b>					
BOILER, TURBINE EXHAUST HEAT RECOVERY, E-102, REFINERY/NATURAL GAS, FOSTER WHEELER, 3.1E+5 LBHR OF 415 PSIG STEAM OUTPUT, WITH A JOHN-ZINK MODEL LDRIILE DUCT BURNER, 99 MMBTU/HR A/N:	D829	D828 C832	NOX: MAJOR SOURCE**; SOX: MAJOR SOURCE**	CO: 10 PPMV (4) [RULE 1303(a)(1)-BACT, 5-10-1996]; CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; NOX: 9 PPMV (4) [RULE 2005, 5-6-2005]; NOX: 24.7 LBS/HR (4) [RULE 2005, 5-6-2005]; PM: 0.01 GRAINS/SCF (5B) [RULE 476, 10-8-1976]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]; PM: 11 LBS/HR (5A) [RULE 476, 10-8-1976]; SO2: 20 PPMV (8) [40CFR 60 Subpart J, 6-24-2008]; SOX: 9.54 LBS/HR (4) [RULE 2005, 5-6-2005]	A63.2, A327.1, B61.3, C1.10, D12.7, D28.8, D82.6, D328.1, E73.1, G292.1, H23.34
<b>System 4: AIR POLUTION CONTROL</b>					
CO OXIDATION CATALYST, ME-109, ENGELHARD, 160 CF, 22 IN W X 218 IN L X 492 IN H, HONEYCOMB PLATINUM TYPE OR EQUIVALENT A/N:	C832	D829 C830			D28.19, D82.1, G292.1
SELECTIVE CATALYTIC REDUCTION, ME-108, ISHIKAWAJIMA-HARIMA INDUSTRIES, HONEYCOMB ZEOLITE TYPE, FOLLOWING STEAM INJECTION CONTROL (TURBINE COMBUSTOR), 1013 CU.FT.; WIDTH: 20 FT 6 IN; HEIGHT: 41 FT ; LENGTH: 7 FT WITH A/N:  AMMONIA INJECTION, ME-102, ANHYDROUS	C830	C832 S1369		NH3: 20 PPMV (4) [RULE 1303(a)(1)-BACT, 5-10-1996]	D12.1, D12.5, D28.18, D82.2, E71.2, G292.1, K40.2

\* (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 limit (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.

## FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL

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

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
<b>Process 14: ELECTRICITY GENERATION</b>					
STACK, HEIGHT: 80 FT ; DIAMETER: 13 FT 5.5 IN A/N:	S1369	C830			G292.1
<b>Process 15: STEAM GENERATION</b>					
<b>System 1: BOILERS</b>					
BOILER, NO. 4, REFINERY/NATURAL GAS, WITH LOW NOX BURNER, 142 MMBTU/HR WITH A/N: 535592  BURNER, 3 BURNERS, REFINERY/NATURAL GAS, DYNASWIRL, MODEL 505QED, WITH LOW NOX BURNER, 142 MMBTU/HR	D684		NOX: MAJOR SOURCE**; SOX: MAJOR SOURCE**	CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]	B61.4, D232.1, D328.2, H23.1

\* (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 limit (e.g. NSPS, NESHAPS, etc.)  
 (9) See App B for Emission Limits  
 (10) See section J for NESHAP/MACT requirements

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## FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL

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

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
<b>Process 15: STEAM GENERATION</b>					
BOILER, NO. 7, REFINERY/NATURAL GAS, WITH OPTIONAL FLUE GAS RECIRCULATION, WITH LOW NOX BURNER, 304 MMBTU/HR WITH A/N: 535593  BURNER, REFINERY/NATURAL GAS, COEN, MODEL TANGENTIAL FIRED CORNER BURNER, 25.3 MMBTU/HR EACH, WITH LOW NOX BURNER, 12 TOTAL; 304 MMBTU/HR	D686	C1773	NOX: MAJOR SOURCE**; SOX: MAJOR SOURCE**	CO: 19.2 LBS/HR REFINERY/NATURAL GAS (7) [RULE 1303(b)(2)-Offset, 5-10-1996]; CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]; ROG: 1.6 LBS/HR REFINERY/NATURAL GAS (7) [RULE 1303(b)(2)-Offset, 5-10-1996]	A305.2, B61.4, C1.62, D12.15, D29.2, D232.1, D328.2, H23.1
BOILER, NO. 8, REFINERY/NATURAL GAS, WITH LOW NOX BURNER, FLUE GAS RECIRCULATION, 179 MMBTU/HR WITH A/N: 535594  BURNER, 1 BURNER, REFINERY/NATURAL GAS, COEN CPF/FGR-37.5, WITH LOW NOX BURNER, 179 MMBTU/HR	D687		NOX: MAJOR SOURCE**; SOX: MAJOR SOURCE**	CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; PM: 0.01 GRAINS/SCF (5B) [RULE 476, 10-8-1976]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]; PM: 11 LBS/HR (5A) [RULE 476, 10-8-1976]	A327.1, B61.10, D28.11, D90.10, D328.2, H1.1, H23.34

\* (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 limit (e.g. NSPS, NESHAPS, etc.)  
 (9) See App B for Emission Limits  
 (10) See section J for NESHAP/MACT requirements

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## FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL

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

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
<b>Process 15: STEAM GENERATION</b>					
SELECTIVE CATALYTIC REDUCTION, VANADIUM PENTOXIDE AND TUNGSTEN TRIOXIDE, HONEYCOMB TYPE, HALDOR TOPSOE, 560 CU.FT.; WIDTH: 10 FT 10 IN; HEIGHT: 5 FT ; LENGTH: 11 FT 2 IN WITH A/N: 535591  AMMONIA INJECTION, AQUEOUS AMMONIA  METERING SKID, DILUTION AIR BLOWER  DRUM, AMMONIA VAPORIZER, F-715  FILTER, AQUEOUS AMMONIA, F-713/714, 2 TOTAL	C1773	D686		NH3: 5 PPMV (4) [RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002]	A1.2, B61.8, D12.5, D12.16, D12.17, D29.6, E448.3
BOILER, NO. 6, REFINERY/NATURAL GAS, WITH LOW NOX BURNER, FLUE GAS RECIRCULATION, 250 MMBTU/HR WITH A/N: 535595  BURNER, TWO (2) BURNERS, REFINERY/NATURAL GAS, COEN CRF/FGR-30, WITH LOW NOX BURNER, 250 MMBTU/HR	D688		NOX: MAJOR SOURCE**; SOX: MAJOR SOURCE**	CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]	B61.4, D232.1, D328.2, H23.1
<b>Process 16: PETROLEUM, MISCELLANEOUS</b>					
<b>System 1: ABRASIVE BLASTING</b>					

\* (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 limit (e.g. NSPS, NESHAPS, etc.)  
 (9) See App B for Emission Limits  
 (10) See section J for NESHAP/MACT requirements

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## FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL

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

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
<b>Process 16: PETROLEUM, MISCELLANEOUS</b>					
ABRASIVE BLASTING, ROOM, PANGBORN, MODEL 1AU-11-865, METALLIC GRIT, WITH A 1100 LB CAPACITY PRESSURE POT & A 100-PSIG, 3/8 IN ID NOZZLE, WIDTH: 10 FT ; HEIGHT: 7 FT 6 IN; LENGTH: 15 FT A/N: 535596	D694	C695		<b>PM: (9) [RULE 1140, 2-1-1980; RULE 1140, 8-2-1985; RULE 404, 2-7-1986; RULE 405, 2-7-1986]</b>	D323.2, E71.5, H23.12
<b>System 2: DUST COLLECTOR</b>					
BAGHOUSE, CARTRIDGE, UNITED AIR SPECIALISTS, MODEL FJL8-15-2H55, WITH A 4800 CFM, 15-HP BLOWER, 2080 SQ.FT.; 8 CARTRIDGE A/N: 535597	C695	D694			D12.13, D322.1, D323.3, E102.1, K67.9
<b>System 3: SPRAY BOOTH</b>					
SPRAY COATING OPERATION, SPRAY BOOTH, DEVILBISS, WITH 18-20"X25" FILTERS AND 1 1/2 HP. EXHAUST FAN, WITH SPRAY BOOTH A/N: 535598	D696			<b>VOC: (9) [RULE 1107, 11-9-2001; RULE 1107, 1-6-2006; RULE 1113, 11-8-1996; RULE 1113, 7-13-2007; RULE 1151, 12-11-1998; RULE 1151, 12-2-2005; RULE 1171, 11-7-2003; RULE 1171, 2-1-2008]</b>	C6.4, D322.2, H23.20, K67.9
<b>System 5: FUEL STORAGE AND DISPENSING</b>					
STORAGE TANK, UNDERGROUND, METHANOL COMPATIBLE, GASOLINE, WITH PHASE I VAPOR RECOVERY SYSTEM OPW (VR-102-A/H), 10000 GALS A/N: 535562	D697			<b>ROG: (9) [RULE 461, OPW Phase I, Healy Phase II EVR Conditions, 3-7-2008]</b>	S13.4

- \* (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 limit (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.

## FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL

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

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions* And Requirements	Conditions
<b>Process 16: PETROLEUM, MISCELLANEOUS</b>					
FUEL DISPENSING NOZZLE, HEALY PHASE II EVR W/O ISD: VR-201, GASOLINE, 2 TOTAL A/N: 535562	D698			<b>ROG: (9)</b> [RULE 461, OPW Phase I, Healy Phase II EVR Conditions, 3-7-2008]	
FUEL DISPENSING NOZZLE, NO PHASE II CONTROL, DIESEL FUEL, 2 TOTAL A/N: 535562	D700				
<b>System 8: AMMONIA (Liquidified Anhydrous) VAPORIZATION</b>					
STORAGE TANK, PRESSURIZED, PRESSURIZED, 80-F-219, ANHYDROUS AMMONIA, 16240 GALS; DIAMETER: 10 FT 6 IN; LENGTH: 25 FT A/N: 535564	D702				K67.6
EVAPORATOR, AMMONIA, 80-E-116, STEAM HEATED A/N: 535564	D703				
EVAPORATOR, AMMONIA, 80-E-117, STEAM HEATED A/N: 535564	D704				
EVAPORATOR, AMMONIA, 80-E-118, STEAM HEATED A/N: 535564	D705				
<b>System 9: AMMONIA (Aqueous) TRANSFER &amp; STORAGE SYSTEM</b>					

\* (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 limit (e.g. NSPS, NESHAPS, etc.)  
 (9) See App B for Emission Limits  
 (10) See section J for NESHAP/MACT requirements

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## FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL

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

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
<b>Process 16: PETROLEUM, MISCELLANEOUS</b>					
STORAGE TANK, PRESSURIZED (35 PSIG), 80-F-218, SERVING ESP OF FCCU U152 & SCR OF H2 PLANT U118, AQUEOUS AMMONIA, VENTED TO VRS, WITH 2 PRV WITH RUPTURE DISK SET AT 30PSIG, 16240 GALS; DIAMETER: 10 FT 6 IN; LENGTH: 25 FT A/N:	D701				K67.6
TANK, PRESSURIZED (175 PSIG), F-716, SERVING SCR OF BOILER 7, AQUEOUS AMMONIA, WITH TRUCK UNLOADING STATION, VAPOR RETURN SYSTEM & TRANSFER PUMPS, 11400 GALS; DIAMETER: 9 FT ; LENGTH: 21 FT A/N: 535565	D1778				K67.6
<b>Process 17: AIR POLLUTION CONTROL (FLARES)</b>					
<b>System 1: NORTH FLARE</b>					S18.2, S18.8
FLARE, ELEVATED WITH STEAM INJECTION, (NORTH), NATURAL GAS, MOUNTED ON NORTH BLOWDOWN VESSEL (P/C 271875), HEIGHT: 200 FT ; DIAMETER: 3 FT A/N:	C706				D12.10, E193.4, H23.28, H23.32
DRUM, NORTH BLOWDOWN, F-7, WITH INTERNAL STEAM COIL, LENGTH: 60 FT ; DIAMETER: 10 FT A/N:	D709	D1673			
<b>System 2: SOUTH FLARE</b>					S18.2, S18.8

\* (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 limit (e.g. NSPS, NESHAPS, etc.)  
 (9) See App B for Emission Limits  
 (10) See section J for NESHAP/MACT requirements

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## FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL

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

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
<b>Process 17: AIR POLLUTION CONTROL (FLARES)</b>					
FLARE, ELEVATED WITH STEAM INJECTION, (SOUTH), NATURAL GAS, MOLECULA GAS SEAL AND NATURAL GAS PILOT BURNER, HEIGHT: 200 FT ; DIAMETER: 12 FT A/N: 535568	C723				D12.10, D323.2, E193.4, H23.28, H23.32
POT, LIQUID SEAL, F-55, SOUTH RECOVERY SYSTEM, LENGTH: 33 FT 4 IN; DIAMETER: 12 FT A/N: 535568	D836				
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 535568	D1617				H23.2
<b>System 3: PORTABLE FLARE</b>					
FLARE, ELEVATED WITH STEAM INJECTION, LIQUIFIED PETROLEUM GAS, PORTABLE, WITH AN IN-LINE FLAME ARRESTOR, STANDBY FOR LPG FLARE, HEIGHT: 80 FT ; DIAMETER: 2 FT 6 IN A/N: 535569	C735				C1.1, D323.2, H23.28
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 535569	D1618				H23.2
<b>System 4: LPG FLARE</b>					
FLARE, ELEVATED WITH STEAM INJECTION, C-301, BUTANE, MOLECULAR SEAL, HEIGHT: 127 FT 10 IN; DIAMETER: 2 FT A/N: 535570	C736	D659 D660 D661 D662 D740 D744 D747			D323.2, H23.27, H23.28
VESSEL, F-308, VENT, LENGTH: 5 FT ; DIAMETER: 2 FT 6 IN A/N: 535570	D740	C736			

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|--|--|
| <ul style="list-style-type: none"> <li>* (1) (1A) (1B) Denotes RECLAIM emission factor</li> <li>(3) Denotes RECLAIM concentration limit</li> <li>(5) (5A) (5B) Denotes command and control emission limit</li> <li>(7) Denotes NSR applicability limit</li> <li>(9) See App B for Emission Limits</li> </ul> | <ul style="list-style-type: none"> <li>(2) (2A) (2B) Denotes RECLAIM emission rate</li> <li>(4) Denotes BACT emission limit</li> <li>(6) Denotes air toxic control rule limit</li> <li>(8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)</li> <li>(10) See section J for NESHAP/MACT requirements</li> </ul> |
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## FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL

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

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
<b>Process 17: AIR POLLUTION CONTROL (FLARES)</b>					
COMPRESSOR, GB-305, BUTANE REFRIGERATION FILLING, WITH 150-HP A/N: 535570	D743				
VESSEL, VAPORIZER, E-310, LENGTH: 19 FT ; DIAMETER: 8 IN A/N: 535570	D744	C736			
COMPRESSOR, GB-306, BUTANE REFRIGERATION HOLDING, WITH 250-HP A/N: 535570	D745				
COMPRESSOR, GB-307, BUTANE REFRIGERATION HOLDING, WITH 250-HP A/N: 535570	D746				
KNOCK OUT POT, F-311, LENGTH: 28 FT ; DIAMETER: 10 FT A/N: 535570	D747	C736			
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 535570	D1619				H23.2
<b>System 5: HYDROCRACKING FLARE</b>					
FLARE, ELEVATED WITH STEAM INJECTION, NATURAL GAS, JOHN ZINK, MODEL STS-36, HEIGHT: 200 FT ; DIAMETER: 3 FT A/N:	C748	D199 D200			D323.2, E193.4, H23.28, H23.32
KNOCK OUT POT, F-701, LENGTH: 32 FT ; DIAMETER: 11 FT 6 IN A/N:	D749				
FUGITIVE EMISSIONS, MISCELLANEOUS A/N:	D1620				H23.2

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

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## FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL

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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
<b>Process 17: AIR POLLUTION CONTROL (FLARES)</b>					
<b>System 6: VAPOR RECOVERY SYSTEM (NORTH)</b>					S13.6, S15.1, S15.16, S18.2, S18.10
DRUM, UNIT 152 BLOWDOWN, F-6C, LIGHT HC RELIEF AND RECOVERY, LENGTH: 20 FT 3 IN; DIAMETER: 9 FT A/N:	D710				
DRUM, UNIT 152 BLOWDOWN, F-6B, LIGHT HC RELIEF AND RECOVERY, LENGTH: 20 FT ; DIAMETER: 9 FT A/N:	D711				
POT, LIQUID SEAL, HEIGHT: 2 FT 6 IN; DIAMETER: 1 FT A/N: 535572	D713				
VESSEL, VAPORIZER, F-300, PROPANE RELIEF AND VAPORIZATION VESSEL, LENGTH: 14 FT ; DIAMETER: 6 FT A/N:	D714				
KNOCK OUT POT, F-950, LENGTH: 9 FT ; DIAMETER: 3 FT A/N:	D715				
VESSEL, SEPARATOR, F-954, LENGTH: 4 FT ; DIAMETER: 2 FT A/N:	D716				
KNOCK OUT POT, F-1, PROPANE, (LPG UNLOADING FACILITY), HEIGHT: 5 FT 6 IN; DIAMETER: 2 FT A/N:	D717	D537			

- \* (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 limit (e.g. NSPS, NESHAPS, etc.)
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## FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL

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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
<b>Process 17: AIR POLLUTION CONTROL (FLARES)</b>					
VESSEL, UNIT 138 BLOWDOWN, F-9, HEIGHT: 14 FT ; DIAMETER: 10 FT A/N:	D718				
COMPRESSOR, TWO STAGE, GB-951, RECIPROCATING, 1991CFM, PACKED GLANDS, 350-HP. A/N:	D719				
VESSEL, VAPORIZER, F-20, UNIT 91 PROPANE RELIEF AND VAPORIZATION, LENGTH: 14 FT ; DIAMETER: 6 FT A/N:	D720				
VESSEL, VAPORIZER, F-231, UNIT 110 PROPANE RELIEF AND VAPORIZATION, LENGTH: 14 FT ; DIAMETER: 6 FT A/N:	D721				
VESSEL, RECEIVER, F-700, PROCESS RELIEF (SULFUR RECOVERY UNITS), LENGTH: 14 FT ; DIAMETER: 4 FT A/N: 535572	D722	D438 D439 D444 D445			
FUGITIVE EMISSIONS, MISCELLANEOUS A/N:	D1616				
<b>System 7: VAPOR RECOVERY SYSTEM (SOUTH)</b>					S13.6, S13.13, S15.16, S18.2, S18.10, S31.3
COMPRESSOR, GB-152, WITH 400-HP. MOTOR A/N:	D733				
<b>Process 18: ISOMERIZATION UNIT 60</b>					P13.2
<b>System 1: ISOMERIZATION, PENEX PLUS UNIT 60</b>					S13.6, S15.2, S15.3, S31.2

- |  |  |
|--|--|
| <ul style="list-style-type: none"> <li>* (1) (1A) (1B) Denotes RECLAIM emission factor</li> <li>(3) Denotes RECLAIM concentration limit</li> <li>(5) (5A) (5B) Denotes command and control emission limit</li> <li>(7) Denotes NSR applicability limit</li> <li>(9) See App B for Emission Limits</li> </ul> | <ul style="list-style-type: none"> <li>(2) (2A) (2B) Denotes RECLAIM emission rate</li> <li>(4) Denotes BACT emission limit</li> <li>(6) Denotes air toxic control rule limit</li> <li>(8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)</li> <li>(10) See section J for NESHAP/MACT requirements</li> </ul> |
|--|--|

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

## FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL

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

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
<b>Process 18: ISOMERIZATION UNIT 60</b>					P13.2
VESSEL, MOLECULAR SIEVE FEED DRYER, NO. 1, 60-D-102, HEIGHT: 30 FT ; DIAMETER: 4 FT 6 IN A/N: 535574	D176			HAP: (10) [40CFR 63 Subpart CC, #2, 10-28-2009]	
VESSEL, MOLECULAR SIEVE FEED DRYER, NO. 2, D-103, HEIGHT: 30 FT ; DIAMETER: 4 FT 6 IN A/N: 535574	D177			HAP: (10) [40CFR 63 Subpart CC, #2, 10-28-2009]	
MIST ELIMINATOR, 60-ME-001, LUBE OIL MIST ELIMINATOR A/N: 535574	D838				
ACCUMULATOR, 60-F-148, MAKE-UP GAS CHLORIDE TRAP A/N: 535574	D839				
VESSEL, ZINC OXIDE TREATER, 60-F-134 A/N: 535574	D840				
VESSEL, MAKE UP GAS DRYER, 60-F-133A/B, HEIGHT: 13 FT 6 IN; DIAMETER: 3 FT A/N: 535574	D841				
TANK, SURGE, 60-F-130, FEED, HEIGHT: 26 FT ; DIAMETER: 8 FT 6 IN A/N: 535574	D842			HAP: (10) [40CFR 63 Subpart CC, #2, 10-28-2009]	
VESSEL, TREATER, 60-F-131, SULFUR GUARD, HEIGHT: 13 FT 6 IN; DIAMETER: 6 FT A/N: 535574	D843				
REACTOR, BENSAT, 60-D-104, WIDTH: 36 FT 1 IN; DIAMETER: 6 FT A/N: 535574	D845				

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

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

## FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL

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

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
<b>Process 18: ISOMERIZATION UNIT 60</b>					P13.2
VESSEL, RECEIVER, 60-F-132, HEIGHT: 27 FT 6 IN; DIAMETER: 9 FT A/N: 535574	D846				
REACTOR, ISOMERIZATION, 60-D-110A, HEIGHT: 26 FT 10 IN; DIAMETER: 7 FT 6 IN A/N: 535574	D847				
REACTOR, ISOMERIZATION, 60-D-110B, HEIGHT: 26 FT 10 IN; DIAMETER: 7 FT 6 IN A/N: 535574	D848				
VESSEL, STABILIZER, 60-D-105, HEIGHT: 64 FT ; DIAMETER: 7 FT 6 IN A/N: 535574	D849				
VESSEL, RECEIVER, 60-F-103, STABILIZER REFLUX, LENGTH: 20 FT ; DIAMETER: 4 FT A/N: 535574	D850				
SCRUBBER, 60-D-111, NET GAS, HEIGHT: 35 FT ; DIAMETER: 7 FT A/N: 535574	D851				
DRUM, 60-F-140, CAUSTIC DEGASSING, HEIGHT: 10 FT ; DIAMETER: 2 FT 6 IN A/N: 535574	D852			<b>HAP: (10) [40CFR 63 Subpart CC, #2, 10-28-2009]</b>	
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 535574	D1621			<b>HAP: (10) [40CFR 63 Subpart CC, #5A, 10-28-2009]</b>	H23.3
<b>System 2: ISOMERIZATION, BUTAMER UNIT 60</b>					S13.6, S15.2, S15.3, S31.2

\* (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 limit (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.

## FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL

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

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
<b>Process 18: ISOMERIZATION UNIT 60</b>					P13.2
REACTOR, 60-D-302A, HEIGHT: 12 FT 6 IN; DIAMETER: 5 FT 6 IN A/N: 535575	D1534				
REACTOR, 60-D-302B, HEIGHT: 12 FT 6 IN; DIAMETER: 5 FT 6 IN A/N: 535575	D1535				
VESSEL, FEED DRYER, 60-D-301A, HEIGHT: 20 FT ; DIAMETER: 5 FT A/N: 535575	D1536				
VESSEL, FEED DRYER, 60-D-301B, HEIGHT: 20 FT ; DIAMETER: 5 FT A/N: 535575	D1537				
VESSEL, FEED SURGE, 60-F-301, HEIGHT: 22 FT 6 IN; DIAMETER: 7 FT 6 IN A/N: 535575	D1538				
VESSEL, STABILIZER, 60-D-303, HEIGHT: 86 FT ; DIAMETER: 5 FT 6 IN A/N: 535575	D1539				
VESSEL, STABILIZER RECEIVER, 60-F-303, LENGTH: 13 FT 6 IN; DIAMETER: 4 FT 6 IN A/N: 535575	D1540				
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 535575	D1622			<b>HAP: (10) [40CFR 63 Subpart CC, #5A, 10-28-2009]</b>	H23.3
<b>Process 22: R-219 EQUIPMENT SUBJECT TO SOURCE-SPECIFIC RULES</b>					
RULE 219 EXEMPT EQUIPMENT, AIR CONDITIONING UNITS	E1638				H23.17
RULE 219 EXEMPT EQUIPMENT, REFRIGERATION UNITS	E1639				H23.17

- |  |  |
|--|--|
| <ul style="list-style-type: none"> <li>* (1) (1A) (1B) Denotes RECLAIM emission factor</li> <li>(3) Denotes RECLAIM concentration limit</li> <li>(5) (5A) (5B) Denotes command and control emission limit</li> <li>(7) Denotes NSR applicability limit</li> <li>(9) See App B for Emission Limits</li> </ul> | <ul style="list-style-type: none"> <li>(2) (2A) (2B) Denotes RECLAIM emission rate</li> <li>(4) Denotes BACT emission limit</li> <li>(6) Denotes air toxic control rule limit</li> <li>(8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)</li> <li>(10) See section J for NESHAP/MACT requirements</li> </ul> |
|--|--|

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

## FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL

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

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
<b>Process 22: R-219 EQUIPMENT SUBJECT TO SOURCE-SPECIFIC RULES</b>					
RULE 219 EXEMPT EQUIPMENT, COOLING TOWERS	E1640				H23.6
RULE 219 EXEMPT EQUIPMENT, REFRIGERANT RECOVERY AND/OR RECYCLING UNITS,	E1641				H23.18
RULE 219 EXEMPT EQUIPMENT, COATING EQUIPMENT, LOW USE OR EMISSIONS	E1643			VOC: (9) [RULE 1107, 11-9-2001; RULE 1171, 11-7-2003; RULE 1171, 2-1-2008]	H23.19
RULE 219 EXEMPT EQUIPMENT, COATING EQUIPMENT, PORTABLE, ARCHITECTURAL COATINGS	E1644			VOC: (9) [RULE 1113, 11-8-1996; RULE 1113, 7-13-2007; RULE 1171, 11-7-2003; RULE 1171, 2-1-2008]	K67.8
RULE 219 EXEMPT EQUIPMENT, FIRE EXTINGUISHING EQUIPMENT USING HALONS	E1645				H23.8
RULE 219 EXEMPT EQUIPMENT, CLEANING EQUIPMENT, SMALL, UNHEATED, NON-CONVEYORIZED	E1689			VOC: (9) [RULE 1171, 11-7-2003; RULE 1171, 2-1-2008]	H23.7
RULE 219 EXEMPT EQUIPMENT, LAMINATING EQUIPMENT, LOW USE OR EMISSIONS	E1642			VOC: (9) [RULE 1168, 10-3-2003; RULE 1168, 1-7-2005; RULE 1171, 11-7-2003; RULE 1171, 2-1-2008]	H23.19

\* (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 limit (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.

**FACILITY PERMIT TO OPERATE  
PHILLIPS 66 CO/LA REFINERY WILMINGTON PL**

**SECTION D: DEVICE ID INDEX**

**The following sub-section provides an index  
to the devices that make up the facility  
description sorted by device ID.**

**FACILITY PERMIT TO OPERATE  
 PHILLIPS 66 CO/LA REFINERY WILMINGTON PL  
 SECTION D: DEVICE ID INDEX**

<b>Device Index For Section D</b>			
<b>Device ID</b>	<b>Section D Page No.</b>	<b>Process</b>	<b>System</b>
D1	3	1	1
D2	3	1	1
D3	3	1	1
D4	3	1	1
D5	3	1	1
D6	3	1	1
D7	3	1	1
D8	3	1	1
D11	4	1	1
D12	4	1	1
D13	4	1	1
D14	4	1	1
D15	4	1	1
D16	5	1	2
D17	5	1	2
D18	5	1	2
D19	5	1	2
D20	5	1	2
D21	5	1	2
D22	6	1	2
D25	6	1	2
D26	6	1	2
D27	6	1	2
D28	6	1	2
D29	6	1	2
D30	7	1	2
D32	7	1	2
D33	7	1	2
D34	7	1	2
D35	7	1	2
D39	8	1	4
D40	8	1	4
D41	9	1	4
D42	9	1	4
S43	9	1	4

**FACILITY PERMIT TO OPERATE  
 PHILLIPS 66 CO/LA REFINERY WILMINGTON PL  
 SECTION D: DEVICE ID INDEX**

<b>Device Index For Section D</b>			
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D44	9	1	4
D46	11	2	1
D48	11	2	1
D49	11	2	1
D50	11	2	1
D51	12	2	1
D53	12	2	1
D55	12	2	1
D56	12	2	1
D57	12	2	1
D58	12	2	1
D59	13	2	2
D60	13	2	2
D61	13	2	2
D62	13	2	2
D63	14	2	2
D64	14	2	2
D65	14	2	2
D66	14	2	2
D67	14	2	2
D68	15	2	2
D69	15	2	3
D70	15	2	3
D71	15	2	3
D72	16	2	3
D73	16	2	3
D74	16	2	3
D75	16	2	3
D76	16	2	3
D78	16	2	3
D79	16	2	3
D80	16	2	3
D81	18	2	4
D82	17	2	4
D83	17	2	4

**FACILITY PERMIT TO OPERATE  
 PHILLIPS 66 CO/LA REFINERY WILMINGTON PL  
 SECTION D: DEVICE ID INDEX**

<b>Device Index For Section D</b>			
<b>Device ID</b>	<b>Section D Page No.</b>	<b>Process</b>	<b>System</b>
D86	17	2	4
D87	18	2	4
D88	18	2	4
D92	18	2	4
D94	18	2	4
D96	18	2	4
D97	19	2	4
D98	19	2	4
D99	19	2	4
D100	19	2	5
D101	20	2	5
D102	20	2	5
D103	20	2	5
D104	20	2	5
D105	20	2	5
D106	26	3	3
D107	26	3	3
D108	27	3	3
D109	27	3	3
D110	27	3	3
D111	27	3	3
D114	27	3	3
D116	27	3	3
D117	27	3	3
D118	28	3	3
D119	28	3	3
D120	28	3	3
D122	28	3	3
D123	28	3	3
D124	20	2	5
D125	28	3	3
D126	28	3	3
D127	28	3	3
D129	21	2	6
D133	22	2	7

**FACILITY PERMIT TO OPERATE  
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 SECTION D: DEVICE ID INDEX**

<b>Device Index For Section D</b>			
<b>Device ID</b>	<b>Section D Page No.</b>	<b>Process</b>	<b>System</b>
D135	29	3	4
D136	29	3	4
D137	30	3	4
D138	30	3	4
D139	31	3	4
S140	31	3	4
S141	31	3	4
D142	22	2	8
D146	23	2	9
D148	23	2	9
D150	24	2	10
D152	24	2	10
D154	32	3	5
D155	32	3	5
D156	33	3	5
D157	33	3	5
D158	34	3	5
S159	34	3	5
S160	34	3	5
D161	35	3	5
D163	35	3	5
D165	25	3	1
D166	25	3	1
D167	25	3	1
D168	25	3	1
D169	25	3	1
D170	25	3	1
D171	25	3	1
D174	25	3	1
D176	157	18	1
D177	157	18	1
D185	12	2	1
D194	21	2	6
D198	36	4	1
D199	36	4	1

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 SECTION D: DEVICE ID INDEX**

<b>Device Index For Section D</b>			
<b>Device ID</b>	<b>Section D Page No.</b>	<b>Process</b>	<b>System</b>
D200	36	4	1
D201	36	4	1
D202	36	4	1
D203	36	4	1
D204	36	4	1
D205	37	4	1
D206	37	4	1
D207	37	4	1
D208	37	4	1
D209	37	4	1
D210	37	4	1
D211	37	4	1
D213	37	4	1
D214	37	4	1
D215	38	4	1
D216	38	4	1
D217	38	4	1
D219	38	4	1
D220	42	4	3
C221	42	4	3
D222	45	5	1
D223	45	5	1
D224	45	5	1
D225	46	5	1
D226	45	5	1
D227	46	5	1
D228	47	5	1
D229	48	5	1
D230	46	5	1
D231	47	5	1
D232	47	5	1
D233	45	5	1
D234	45	5	1
D235	46	5	1
D236	46	5	1

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<b>Device Index For Section D</b>			
<b>Device ID</b>	<b>Section D Page No.</b>	<b>Process</b>	<b>System</b>
D237	46	5	1
D238	46	5	1
D239	46	5	1
D240	47	5	1
D241	47	5	1
D242	48	5	1
D245	48	5	1
D246	44	5	1
D247	44	5	1
D249	44	5	1
D250	44	5	1
D251	44	5	1
D252	44	5	1
D253	47	5	1
D254	44	5	1
D255	45	5	1
D256	45	5	1
D259	48	5	2
D260	49	5	2
S261	49	5	2
D262	49	5	2
D264	50	5	2
D268	56	6	1
D269	57	6	1
D272	50	6	1
D273	51	6	1
D274	51	6	1
D275	55	6	1
D276	52	6	1
D277	52	6	1
D278	52	6	1
D279	53	6	1
D280	52	6	1
D281	52	6	1
D283	56	6	1

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<b>Device Index For Section D</b>			
<b>Device ID</b>	<b>Section D Page No.</b>	<b>Process</b>	<b>System</b>
D284	57	6	1
D287	53	6	1
D288	50	6	1
D289	50	6	1
D290	56	6	1
D291	54	6	1
D292	50	6	1
D293	53	6	1
D294	54	6	1
D295	53	6	1
D296	54	6	1
D298	51	6	1
D300	52	6	1
D301	52	6	1
D302	52	6	1
D303	50	6	1
D304	51	6	1
D306	51	6	1
D307	51	6	1
D308	51	6	1
D309	51	6	1
D310	52	6	1
D311	53	6	1
D312	53	6	1
D313	53	6	1
D314	53	6	1
D315	54	6	1
D316	54	6	1
D317	53	6	1
D318	55	6	1
D319	55	6	1
D320	55	6	1
D321	55	6	1
D322	54	6	1
D324	54	6	1

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<b>Device Index For Section D</b>			
<b>Device ID</b>	<b>Section D Page No.</b>	<b>Process</b>	<b>System</b>
D329	58	6	2
D331	59	7	1
D332	63	7	6
D333	59	7	1
D335	60	7	1
D336	60	7	1
D337	60	7	1
D338	60	7	1
D340	60	7	1
D342	60	7	1
D343	60	7	1
D349	60	7	1
S351	61	7	1
D352	61	7	3
C353	61	7	3
D356	114	13	3
D357	115	13	3
D358	115	13	3
D359	116	13	3
D360	96	13	2
D361	116	13	3
D362	117	13	3
D363	118	13	3
D364	119	13	3
D370	96	13	2
D371	96	13	2
D389	66	9	3
D390	66	9	3
D391	66	9	3
D392	66	9	3
D393	66	9	3
D394	66	9	3
D395	66	9	3
D396	66	9	3
D397	67	9	3

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<b>Device Index For Section D</b>			
<b>Device ID</b>	<b>Section D Page No.</b>	<b>Process</b>	<b>System</b>
D398	67	9	4
D399	67	9	4
D400	68	9	4
D401	68	9	4
D402	68	9	4
D404	68	9	4
D405	67	9	4
D406	67	9	4
D407	68	9	5
D408	68	9	5
D411	68	9	5
D413	69	9	6
D414	69	9	6
D415	68	9	5
D417	69	10	1
D418	70	10	1
D419	70	10	1
D420	70	10	1
D422	70	10	1
D423	70	10	1
D424	70	10	1
D425	71	10	2
D426	71	10	2
D427	71	10	2
D428	71	10	2
D430	71	10	2
D431	71	10	2
D432	72	10	2
D433	72	10	2
D434	72	10	2
D435	72	10	2
D435	76	10	5
C436	73	10	3
S437	73	10	3
D438	73	10	4

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<b>Device Index For Section D</b>			
<b>Device ID</b>	<b>Section D Page No.</b>	<b>Process</b>	<b>System</b>
D439	73	10	4
D444	73	10	4
D445	74	10	4
D447	74	10	4
D448	75	10	5
D449	75	10	5
D450	75	10	5
D451	75	10	5
D452	75	10	5
D453	75	10	5
D454	75	10	5
D455	75	10	5
C456	76	10	6
S457	76	10	6
D458	77	11	1
D459	77	11	1
D464	77	11	2
D482	77	11	4
D493	78	11	6
D494	78	11	6
D495	78	11	6
D496	78	11	6
D499	79	12	1
D500	79	12	1
D501	79	12	1
D502	79	12	1
D503	79	12	1
D504	79	12	1
D505	79	12	1
D506	80	12	1
D507	80	12	1
D508	80	12	1
D509	80	12	1
D512	80	12	1
D513	81	12	1

**FACILITY PERMIT TO OPERATE  
 PHILLIPS 66 CO/LA REFINERY WILMINGTON PL  
 SECTION D: DEVICE ID INDEX**

<b>Device Index For Section D</b>			
<b>Device ID</b>	<b>Section D Page No.</b>	<b>Process</b>	<b>System</b>
D514	81	12	1
D515	81	12	1
D516	81	12	1
D517	82	12	1
D518	82	12	1
D519	83	12	2
C520	83	12	2
C522	83	12	3
C524	83	12	3
C526	83	12	3
D527	83	12	2
C528	83	12	2
D529	84	13	1
C530	84	13	1
D531	84	13	1
D535	84	13	1
D536	84	13	1
D537	84	13	1
D543	85	13	1
D544	97	13	2
D545	85	13	2
D546	122	13	8
D549	123	13	8
D550	98	13	3
D551	99	13	3
D552	97	13	2
D553	99	13	3
D554	98	13	2
D555	124	13	8
D556	125	13	8
D557	100	13	3
D558	100	13	3
D559	126	13	8
D560	101	13	3
D561	101	13	3

**FACILITY PERMIT TO OPERATE  
 PHILLIPS 66 CO/LA REFINERY WILMINGTON PL  
 SECTION D: DEVICE ID INDEX**

<b>Device Index For Section D</b>			
<b>Device ID</b>	<b>Section D Page No.</b>	<b>Process</b>	<b>System</b>
D563	127	13	8
D564	102	13	3
D565	102	13	3
D566	128	13	8
D567	129	13	8
D568	103	13	3
D569	86	13	2
D570	131	13	8
D571	132	13	8
D572	133	13	8
D573	134	13	8
D574	103	13	3
D575	104	13	3
D576	104	13	3
D577	135	13	8
D578	136	13	8
D579	86	13	2
D583	105	13	3
D584	105	13	3
D586	106	13	3
D587	137	13	8
D588	86	13	2
D589	87	13	2
D591	97	13	2
D592	138	13	8
D593	106	13	3
D594	107	13	3
D595	87	13	2
D596	88	13	2
D597	107	13	3
D598	108	13	3
D599	88	13	2
D600	89	13	2
D601	108	13	3
D604	130	13	8

**FACILITY PERMIT TO OPERATE  
 PHILLIPS 66 CO/LA REFINERY WILMINGTON PL  
 SECTION D: DEVICE ID INDEX**

<b>Device Index For Section D</b>			
<b>Device ID</b>	<b>Section D Page No.</b>	<b>Process</b>	<b>System</b>
D605	109	13	3
D606	109	13	3
D607	89	13	2
D609	89	13	2
D610	139	13	8
D611	90	13	2
D612	110	13	3
D613	90	13	2
D614	90	13	2
D615	110	13	3
D616	91	13	2
D617	91	13	2
D619	91	13	2
D621	92	13	2
D622	92	13	2
D623	92	13	2
D624	111	13	3
D625	111	13	3
D626	112	13	3
D627	93	13	2
D628	93	13	2
D629	112	13	3
D630	113	13	3
D631	93	13	2
D632	94	13	2
D633	113	13	3
D634	94	13	2
D635	94	13	2
D636	95	13	2
D637	95	13	2
D638	95	13	2
D640	119	13	4
D642	119	13	4
D643	119	13	4
D644	121	13	6

**FACILITY PERMIT TO OPERATE  
 PHILLIPS 66 CO/LA REFINERY WILMINGTON PL  
 SECTION D: DEVICE ID INDEX**

<b>Device Index For Section D</b>			
<b>Device ID</b>	<b>Section D Page No.</b>	<b>Process</b>	<b>System</b>
D645	121	13	6
D646	121	13	6
D647	120	13	4
D648	120	13	4
D649	120	13	4
D659	139	13	9
D660	139	13	9
D661	121	13	7
D662	122	13	7
D665	140	13	9
D670	141	14	1
D675	141	14	1
D676	141	14	1
D677	141	14	1
D678	141	14	1
D679	141	14	1
D680	142	14	1
D681	142	14	1
D683	144	14	2
D684	147	15	1
D686	148	15	1
D687	148	15	1
D688	149	15	1
D694	150	16	1
C695	150	16	2
D696	150	16	3
D697	150	16	5
D698	151	16	5
D700	151	16	5
D701	152	16	9
D702	151	16	8
D703	151	16	8
D704	151	16	8
D705	151	16	8
C706	152	17	1

**FACILITY PERMIT TO OPERATE  
 PHILLIPS 66 CO/LA REFINERY WILMINGTON PL  
 SECTION D: DEVICE ID INDEX**

<b>Device Index For Section D</b>			
<b>Device ID</b>	<b>Section D Page No.</b>	<b>Process</b>	<b>System</b>
D709	152	17	1
D710	155	17	6
D711	155	17	6
D713	155	17	6
D714	155	17	6
D715	155	17	6
D716	155	17	6
D717	155	17	6
D718	156	17	6
D719	156	17	6
D720	156	17	6
D721	156	17	6
D722	156	17	6
C723	153	17	2
D733	156	17	7
C735	153	17	3
C736	153	17	4
D740	153	17	4
D743	154	17	4
D744	154	17	4
D745	154	17	4
D746	154	17	4
D747	154	17	4
C748	154	17	5
D749	154	17	5
D750	7	1	2
D754	26	3	3
D755	38	4	2
D756	38	4	2
D757	39	4	2
D758	39	4	2
D759	39	4	2
D760	39	4	2
D761	39	4	2
D764	39	4	2

**FACILITY PERMIT TO OPERATE  
 PHILLIPS 66 CO/LA REFINERY WILMINGTON PL  
 SECTION D: DEVICE ID INDEX**

<b>Device Index For Section D</b>			
<b>Device ID</b>	<b>Section D Page No.</b>	<b>Process</b>	<b>System</b>
D765	39	4	2
D766	39	4	2
D768	39	4	2
D769	40	4	2
D772	40	4	2
D773	40	4	2
D775	40	4	2
D776	40	4	2
D777	40	4	2
D778	40	4	2
D779	40	4	2
D780	41	4	2
D781	41	4	2
D782	41	4	2
D783	41	4	2
D784	41	4	2
D785	41	4	2
D786	41	4	2
D787	41	4	2
D803	65	8	1
D825	120	13	4
D826	144	14	3
D828	145	14	3
D829	146	14	3
C830	146	14	4
C832	146	14	4
D836	153	17	2
D838	157	18	1
D839	157	18	1
D840	157	18	1
D841	157	18	1
D842	157	18	1
D843	157	18	1
D844	12	2	1
D845	157	18	1

**FACILITY PERMIT TO OPERATE  
 PHILLIPS 66 CO/LA REFINERY WILMINGTON PL  
 SECTION D: DEVICE ID INDEX**

<b>Device Index For Section D</b>			
<b>Device ID</b>	<b>Section D Page No.</b>	<b>Process</b>	<b>System</b>
D846	158	18	1
D847	158	18	1
D848	158	18	1
D849	158	18	1
D850	158	18	1
D851	158	18	1
D852	158	18	1
B916	69	10	1
B917	69	10	1
B918	70	10	1
D919	72	10	2
B920	73	10	4
B921	73	10	4
B922	73	10	4
D1342	65	8	1
C1343	65	8	3
D1345	12	2	1
D1346	13	2	1
D1347	13	2	1
D1348	13	2	1
D1349	43	4	4
C1352	43	4	5
D1360	65	8	2
D1361	47	5	1
D1362	47	5	1
D1367	120	13	4
D1368	85	13	1
S1369	147	14	4
D1370	120	13	4
D1373	25	3	1
D1374	26	3	1
D1375	26	3	1
D1378	140	13	9
D1380	78	11	7
D1383	144	14	3

**FACILITY PERMIT TO OPERATE  
 PHILLIPS 66 CO/LA REFINERY WILMINGTON PL  
 SECTION D: DEVICE ID INDEX**

<b>Device Index For Section D</b>			
<b>Device ID</b>	<b>Section D Page No.</b>	<b>Process</b>	<b>System</b>
D1385	78	11	8
D1386	62	7	5
D1402	58	7	1
D1403	59	7	1
D1406	58	7	1
D1407	58	7	1
D1426	15	2	2
D1427	15	2	2
D1428	78	11	9
D1447	69	9	9
D1471	144	14	3
D1474	120	13	4
D1487	74	10	4
D1488	74	10	4
D1489	70	10	1
D1490	74	10	4
C1497	72	10	2
C1498	76	10	5
D1499	76	10	5
D1501	76	10	5
D1502	4	1	1
D1503	6	1	2
D1505	15	2	2
D1508	16	2	3
D1509	17	2	3
D1510	17	2	3
D1511	19	2	4
D1512	20	2	5
D1513	20	2	5
D1514	27	3	3
D1515	26	3	1
D1516	26	3	1
D1517	38	4	1
D1518	38	4	1
D1519	44	5	1

**FACILITY PERMIT TO OPERATE  
 PHILLIPS 66 CO/LA REFINERY WILMINGTON PL  
 SECTION D: DEVICE ID INDEX**

<b>Device Index For Section D</b>			
<b>Device ID</b>	<b>Section D Page No.</b>	<b>Process</b>	<b>System</b>
D1520	45	5	1
D1521	44	5	1
D1522	46	5	1
D1525	61	7	1
D1534	159	18	2
D1535	159	18	2
D1536	159	18	2
D1537	159	18	2
D1538	159	18	2
D1539	159	18	2
D1540	159	18	2
C1545	62	7	4
D1546	61	7	4
D1547	59	7	1
D1548	59	7	1
D1550	82	12	1
D1551	82	12	1
D1552	67	9	4
D1553	140	14	1
D1565	4	1	1
D1566	7	1	2
D1569	13	2	1
D1571	15	2	2
D1573	17	2	3
D1575	19	2	4
D1577	20	2	5
D1579	26	3	1
D1581	28	3	3
D1583	38	4	1
D1585	42	4	2
D1587	48	5	1
D1589	57	6	1
D1590	58	6	2
D1591	61	7	1
D1594	62	7	4

**FACILITY PERMIT TO OPERATE  
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<b>Device Index For Section D</b>			
<b>Device ID</b>	<b>Section D Page No.</b>	<b>Process</b>	<b>System</b>
D1596	65	8	1
D1597	65	8	2
D1600	67	9	3
D1601	70	10	1
D1602	72	10	2
D1604	74	10	4
D1605	77	11	1
D1606	77	11	4
D1607	78	11	6
D1608	82	12	1
D1609	83	12	2
D1611	85	13	1
D1612	119	13	3
D1613	121	13	4
D1616	156	17	6
D1617	153	17	2
D1618	153	17	3
D1619	154	17	4
D1620	154	17	5
D1621	158	18	1
D1622	159	18	2
D1623	76	10	5
E1638	159	22	0
E1639	159	22	0
E1640	160	22	0
E1641	160	22	0
E1642	160	22	0
E1643	160	22	0
E1644	160	22	0
E1645	160	22	0
D1649	74	10	4
D1650	74	10	4
D1651	74	10	4
D1652	74	10	4
D1653	70	10	1

**FACILITY PERMIT TO OPERATE  
 PHILLIPS 66 CO/LA REFINERY WILMINGTON PL  
 SECTION D: DEVICE ID INDEX**

<b>Device Index For Section D</b>			
<b>Device ID</b>	<b>Section D Page No.</b>	<b>Process</b>	<b>System</b>
D1654	70	10	1
D1655	71	10	1
D1656	71	10	1
D1657	142	14	1
D1658	143	14	1
D1659	56	6	1
D1660	54	6	1
D1661	55	6	1
D1662	56	6	1
D1663	56	6	1
D1664	56	6	1
D1665	56	6	1
D1666	57	6	1
D1667	55	6	1
D1668	55	6	1
D1669	57	6	1
D1670	57	6	1
D1671	5	1	2
D1672	5	1	2
D1673	77	11	1
D1674	4	1	1
D1675	62	7	4
D1676	61	7	4
D1677	62	7	4
C1678	63	7	7
D1679	63	7	8
D1680	63	7	8
D1681	63	7	8
D1682	64	7	8
E1689	160	22	0
D1691	4	1	1
D1695	10	1	6
C1696	10	1	6
D1697	10	1	6
C1698	11	1	6

**FACILITY PERMIT TO OPERATE  
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 SECTION D: DEVICE ID INDEX**

<b>Device Index For Section D</b>			
<b>Device ID</b>	<b>Section D Page No.</b>	<b>Process</b>	<b>System</b>
D1699	14	2	2
D1700	14	2	2
D1701	17	2	4
D1702	17	2	4
D1703	18	2	4
D1704	18	2	4
D1707	64	7	8
D1708	64	7	8
D1709	64	7	8
D1711	64	7	8
D1712	64	7	8
D1713	64	7	8
D1714	65	7	8
D1717	4	1	1
D1725	42	4	2
D1733	10	1	6
D1734	11	1	6
D1768	143	14	1
C1773	149	15	1
D1778	152	16	9
D1800	98	13	2
D1801	121	13	6
D1802	122	13	7
D1803	139	13	8
D1804	140	13	9
D1809	69	9	9
D1823	13	2	1
D1824	6	1	2
D1825	7	1	2
D1828	19	2	4
D1829	19	2	4
D1830	59	7	1
D1831	59	7	1

## FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL

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

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

#### **FACILITY CONDITIONS**

F9.1 Except for open abrasive blasting operations, the operator shall not discharge into the atmosphere from any single source of emissions whatsoever any air contaminant for a period or periods aggregating more than three minutes in any one hour which is:

(a) As dark or darker in shade as that designated No.1 on the Ringelmann Chart, as published by the United States Bureau of Mines; or

(b) Of such opacity as to obscure an observer's view to a degree equal to or greater than does smoke described in subparagraph (a) of this condition.

[RULE 401, 3-2-1984; RULE 401, 11-9-2001]

F14.1 The operator shall not purchase diesel fuel containing sulfur compounds in excess of 15 ppm by weight as supplied by the supplier.

This condition shall become effective on or after June 1, 2004.

[RULE 431.2, 5-4-1990; RULE 431.2, 9-15-2000]

F24.1 Accidental release prevention requirements of Section 112(r)(7):

a). The operator shall comply with the accidental release prevention requirements pursuant to 40 CFR Part 68 and shall submit to the Executive Officer, as a part of an annual compliance certification, a statement that certifies compliance with all of the requirements of 40 CFR Part 68, including the registration and submission of a risk management plan (RMP).

b). The operator shall submit any additional relevant information requested by the Executive Officer or designated agency.

**FACILITY PERMIT TO OPERATE  
PHILLIPS 66 CO/LA REFINERY WILMINGTON PL**

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

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

**[40CFR 68 - Accidental Release Prevention, 5-24-1996]**

## FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL

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

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

F25.1 The permit holder of this facility shall not install, alter, or operate a refinery process unit or other non-Rule 219 exempt equipment without a valid RECLAIM/Title V permit issued by the AQMD pursuant to Rule 201 - Permit to Construct, Rule 203 - Permit to Operate, Rule 2004 - Requirements, and Rule 3002 - Requirements, as applicable.

Notwithstanding the above, the provisions of Rules 201, 203, 2004, and 3002 shall not apply to installations or alterations that involve only the equipment listed in Table 1 below, nor shall they apply to the operation of equipment listed in Table 1, when directly associated with permitted process units or other permitted equipment.

Notwithstanding the above, all new equipment listed in Table 1, including associated fugitive components installed with such equipment, shall have Best Available Control Technology installed in conformance with the Best Available Control Technology Guidelines in effect at the time of the installation.

TABLE 1

- (a) Heat Exchanger (including air-cooler, reboiler, cooler, condenser, and shell and tube exchanger)
- (b) In-line Mixer
- (c) Pump
- (d) Knockout Pot - Compressor inlet (immediate inlet) and interstage
- (e) Knockout Pot - Fuel Gas System (downstream of fuel gas mix drums)

This condition applies only to the facility that processes petroleum as defined in the Standard Industrial Classification Manual as Industry No. 2911 - Petroleum Refining, as well as its directly associated sulfur recovery plant which may be located outside of the facility.

## **FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL**

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

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

**[RULE 2004, 5-11-2001]**

F34.2 The operator shall not sell refinery gas containing sulfur compounds in excess of 40 ppmv, calculated as hydrogen sulfide, averaged over 4-hour period.

**[RULE 431.1, 6-12-1998]**

F52.1 This facility is subject to the applicable requirements of the following rules or regulation(s):

40CFR79

40CFR80

California Code of Regulations, Title 13, Division 3, Chapter 5

**[40CFR 79, 7-1-1999; 40CFR 80, 7-1-1999; CCR Title 13, 9-24-1999]**

F52.2 This facility is subject to the applicable requirements of the following rules or regulation(s):

CONSENT DECREE CIVIL NO. H-05-0258. The facility shall send the District a copy of the semiannual updates sent to the EPA of the specific requirement of emission standards and limitations from the Consent Decree as well as dates of compliance for the requirements not yet fulfilled.

**[ CONSENT DECREE CIVIL NO. H-05-0258, 8-11-2008]**

F52.3 This facility is subject to the applicable requirements of the following rules or regulation(s):

## FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL

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

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

40 CFR 60 Subpart A

40 CFR 61 Subpart A

40 CFR 63 Subpart A

**[40CFR 60 Subpart A, 5-16-2007; 40CFR 61 Subpart A, 5-16-2007; 40CFR 63 Subpart A, 5-16-2007]**

F60.1 The emission limits identified in Section D and H of the permit shall be defined as emissions discharged to the atmosphere from the originating equipment.

#### PROCESS CONDITIONS

P13.1 All devices under this process are subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
VOC	District Rule	463

**[RULE 463, 5-6-2005]**

[Processes subject to this condition : 13]

P13.2 All devices under this process are subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
HAPs	40CFR61, SUBPART	FF

## FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL

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

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

**[40CFR 61 Subpart FF, 12-4-2003]**

[Processes subject to this condition : 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 18]

#### SYSTEM CONDITIONS

S1.1 The operator shall limit the production rate to no more than 450 ton(s) in any one day.

For the purpose of this condition, production rate shall be defined as total daily production of sulfuric acid expressed as 100 percent H<sub>2</sub>SO<sub>4</sub>.

The operator shall maintain records in a manner approved by the District to demonstrate compliance with this condition.

**[RULE 1303(b)(2)-Offset, 5-10-1996]**

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

S1.2 The operator shall limit the loading rate to no more than 1.3356e+06 gallon(s) per month.

The operator shall maintain records in a manner approved by the District to demonstrate compliance with this condition.

**[RULE 1303(b)(2)-Offset, 5-10-1996]**

[Systems subject to this condition : Process 11, System 7]

S2.1 The operator shall limit emissions from this system as follows

CONTAMINANT

EMISSIONS LIMIT

---

## FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL

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

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

VOC | Less than 2.5 lbs/mmscf of hydrogen produced

**[RULE 1189, 1-21-2000]**

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

S4.2 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 lines 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.

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 1303(a)(1)-BACT, 5-10-1996; 40CFR 60 Subpart QQQ, 10-17-2000]**

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

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):

## **FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL**

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

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

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.

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 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 components are subject to District Rule 1173 and 40CFR60, Subpart GGG.

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."

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.

## FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL

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

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

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.

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

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

S11.1 The operator shall comply with all applicable mitigation measures stipulated in the "Statement of Findings, Statement of Overriding Considerations, and Mitigation Monitoring Plan" document which is part of the AQMD Certified Subsequent Environmental Impact Report dated 11/18/1994 for this facility.

[CA PRC CEQA, 11-23-1970]

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

S13.1 All devices under this system are subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
VOC	District Rule	1176

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

[Systems subject to this condition : Process 12, System 1 , 3]

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

## FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL

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

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

Contaminant	Rule	Rule/Subpart
VOC	District Rule	1149

**[RULE 1149, 7-14-1995; RULE 1149, 5-2-2008]**

[Systems subject to this condition : Process 13, System 4 , 6 , 7]

S13.3 All devices under this system are subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
VOC	District Rule	462

**[RULE 462, 5-14-1999]**

[Systems subject to this condition : Process 11, System 4 , 6]

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	461

**[RULE 461, 6-3-2005; RULE 461, 3-7-2008]**

[Systems subject to this condition : Process 16, System 5]

S13.5 All devices under this system are subject to the applicable requirements of the following rules or regulations:

## FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL

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

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

Contaminant	Rule	Rule/Subpart
VOC	District Rule	1189

**[RULE 1189, 1-21-2000]**

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

S13.6 All devices under this system are subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
VOC	District Rule	1123

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

[Systems subject to this condition : Process 1, System 2; Process 2, System 1 , 2 , 3 , 4 , 5; Process 3, System 1 , 3; Process 4, System 1 , 2; Process 5, System 1; Process 6, System 1; Process 8, System 1; Process 9, System 3 , 4 , 5 , 6; Process 10, System 1 , 2 , 4 , 5; Process 17, System 6 , 7; Process 18, System 1 , 2]

S13.8 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	1178
VOC	District Rule	1149

For Rule 463 applicability, only subdivision (d) in the March 11, 1994 amendment, or equivalent requirements in the future amendments, shall apply to domed external floating roof tanks. This does not preclude any requirements specified in Rule 1178.

## FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL

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

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

**[RULE 1149, 7-14-1995; RULE 1149, 5-2-2008; RULE 1178, 4-7-2006; RULE 463, 5-6-2005]**

[Systems subject to this condition : Process 13, System 3 , 8]

S13.9 All devices under this system are subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
VOC	District Rule	1178

**[RULE 1178, 4-7-2006]**

[Systems subject to this condition : Process 13, System 1 , 2]

S13.10 All devices under this system are subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
VOC	40CFR60, SUBPART	QQQ

**[40CFR 60 Subpart QQQ, 10-17-2000]**

[Systems subject to this condition : Process 2, System 4; Process 6, System 1; Process 12, System 1]

S13.11 All devices under this system are subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart

## FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL

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

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

Sulfur compounds		District Rule		407
Sulfuric Acid Mist		District Rule		469

[**RULE 407, 4-2-1982; RULE 469, 5-7-1976; RULE 469, 2-13-1981**]

[Systems subject to this condition : Process 7, System 4 , 8]

S13.12 All devices under this system are subject to the applicable requirements of the following rules or regulations:

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

Compressor GG-703 (device ID D1503) is not subject to Subpart GGG per applicability date.

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

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

S13.13 All devices under this system are subject to the applicable requirements of the following rules or regulations:

Contaminant		Rule		Rule/Subpart
VOC		District Rule		1173

[**RULE 1173, 5-13-1994; RULE 1173, 2-6-2009**]

## **FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL**

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

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

[Systems subject to this condition : Process 17, System 7]

S15.1 The vent gases from all affected devices of this process/system shall be vented as follows:

All vent gases shall be directed to the Deethanizers Device ID D1671 and D1672 in the FCCU Fractionation CLEF unit (Process 1, System 2).

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

[Systems subject to this condition : Process 17, System 6]

S15.2 The vent gases from all affected devices of this process/system shall be vented as follows:

All emergency vent gases shall be directed to a vapor recovery system or/and blowdown flare system except Devices IDs D1, D7, D210, D213, D214, D219, D644, D645, D646, D773, D775 TO D785, D1367, D1370, D1673 that vent to the atmosphere and Device ID D772 that normally vents to heater D1349 when hydrogen is being produced and vents to atmosphere when hydrogen is not produced.

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(b)(2)-Offset, 5-10-1996]**

[Systems subject to this condition : Process 1, System 1, 2; Process 2, System 1, 2, 3, 4, 5; Process 3, System 1, 3; Process 4, System 1, 2; Process 5, System 1; Process 6, System 1; Process 8, System 1, 2; Process 11, System 1; Process 13, System 4, 6; Process 18, System 1, 2]

S15.3 The vent gases from all affected devices of this process/system shall be vented as follows:

## **FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL**

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

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

All sour gases under normal operating conditions shall be directed to the fuel gas treating unit.

This process/system shall not be operated unless the fuel 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(b)(2)-Offset, 5-10-1996]**

[Systems subject to this condition : Process 1, System 1 , 2; Process 2, System 1 , 5; Process 3, System 1 , 3; Process 4, System 1 , 2; Process 6, System 1; Process 8, System 1 , 2; Process 18, System 1 , 2]

S15.5 The vent gases from all affected devices of this process/system shall be vented as follows:

All vent gases shall be directed to a blowdown flare system(s).

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

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

[Systems subject to this condition : Process 11, System 6]

S15.6 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.

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(b)(2)-Offset, 5-10-1996]**

## **FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL**

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

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

[Systems subject to this condition : Process 11, System 1; Process 13, System 4 , 6]

S15.7 The vent gases from all affected devices of this process/system shall be vented as follows:

All vent gases shall be vented to the LPG flare except Device IDs D661 and D662 that vent emergency vent gases 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(b)(2)-Offset, 5-10-1996]**

[Systems subject to this condition : Process 13, System 7]

S15.8 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 fuel gas treating unit (Process 9, System 3), or the absorber/scrubber located in Diesel Hydrotreating Unit (Process 2, System 4), or Hydrogen Generation Unit (Process 4, System 1).

This process/system shall not be operated unless the above fuel gas treating unit/absorber/scrubber 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 2, System 3]

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

## **FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL**

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

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

All sour gases under normal operating conditions shall be directed to the absorber located in the hydrogen generation unit (Process 4, System 1) or the fuel gas treating unit (Process 9, System 3).

This process/system shall not be operated unless the absorber/fuel 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(b)(2)-Offset, 5-10-1996]**

[Systems subject to this condition : Process 2, System 2; Process 5, System 1]

S15.10 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 absorber located in this system, the absorber located in the hydrogen production unit (Process 4, System 1), or the fuel gas treating unit (Process 9, System 3).

This process/system shall not be operated unless the absorber/fuel 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(b)(2)-Offset, 5-10-1996]**

[Systems subject to this condition : Process 2, System 4]

S15.11 The vent gases from all affected devices of this process/system shall be vented as follows:

All acid gases under normal operating conditions shall be directed to the sulfur recovery unit(s) or sulfuric acid production unit.

This process/system shall not be operated unless the sulfur recovery unit(s) or the sulfuric acid production unit is in full use and has a valid permit to receive vent gases from this system.

## **FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL**

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

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

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

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

S15.13 The vent gases from all affected devices of this process/system shall be vented as follows:

All acid gases under normal operating conditions shall be directed to the sulfur recovery unit(s).

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

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

[Systems subject to this condition : Process 9, System 5 , 6; Process 10, System 2 , 5]

S15.14 The vent gases from all affected devices of this process/system shall be vented as follows:

All vent gases shall be directed to the CANSOLV SO<sub>x</sub> Scrubbing Unit (Process 7, System 3).

This process/system shall not be operated unless the above vapor control 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 7, System 1]

S15.15 The vent gases from all affected devices of this process/system shall be vented as follows:

## **FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL**

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

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

All vent gases under normal operating conditions shall be directed to the tail gas treating system.

This process/system shall not be operated unless the above tail gas treating 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 10, System 1 , 4]

S15.16 The vent gases from all affected devices of this process/system shall be vented as follows:

All emergency vent gases shall be directed to the blowdown 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(b)(2)-Offset, 5-10-1996]**

[Systems subject to this condition : Process 9, System 3 , 4 , 5 , 6; Process 10, System 1 , 2 , 4 , 5; Process 17, System 6 , 7]

S18.1 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:

Amine Stripping Unit 138 (Process: 9, System: 4)

Sour Water Stripping (Process: 9, System: 5 & 6)

Tail Gas Units (Process: 10, System: 2 & 5)

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

## **FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL**

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

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

[Systems subject to this condition : Process 10, System 1 , 4]

S18.2 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:

FCCU (Process: 1, System: 1 & 2)

Hydrotreating (Process: 2, System: 1, 2, 3, 4 & 5)

Catalytic Reforming (Process: 3, System: 1 & 3)

Hydrogen Production (Process: 4, System: 1 & 2)

Hydrocracking (Process: 5, System: 1)

Alkylation (Process: 6, System: 1)

Blending (Process: 8, System: 1 & 2)

Butane Loading/Unloading (Process: 11, System: 1)

Butane Storage Tanks (Process: 13, System: 6)

Isomerization (Process: 18, System: 1 & 2)

Ammonia (Aqueous) Transfer & Storage System [only Device D701] (Process: 16, System: 9)

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

[Systems subject to this condition : Process 17, System 1 , 2 , 5 , 6 , 7]

## **FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL**

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

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

S18.3 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:

Butane Storage Tanks (Process: 13, System: 7)

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

[Systems subject to this condition : Process 17, System 4]

S18.4 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:

FCCU (Process: 1, System: 1 & 2)

Hydrotreating (Process: 2, System: 1, 2, 3, 4 & 5)

Catalytic Reforming (Process: 3, System: 1 & 3)

Hydrogen Production (Process: 4, System: 1 & 2)

Alkylation (Process: 6, System: 1)

Blending (Process: 8, System: 1 & 2)

Isomerization (Process: 18, System: 1 & 2)

Hydrocracking (Process: 5, System: 1)

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

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

## **FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL**

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

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

S18.6 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:

Amine Stripping Unit 138 (Process: 9, System: 4)

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

[Systems subject to this condition : Process 7, System 1; Process 10, System 1 , 4]

S18.7 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:

Contact H2SO4 Production Plant (Process: 7, System: 1)

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

[Systems subject to this condition : Process 7, System 3]

S18.8 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:

Treating/Stripping (Process: 9, System: 3, 4, 5 & 6)

Sulfur Recovery Plant (Process: 10, System: 1, 2, 4, & 5)

Vapor Recovery System (Process: 17, System: 6 & 7)

Loading/Unloading (Process: 11, System: 6)

## **FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL**

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

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

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

[Systems subject to this condition : Process 17, System 1 , 2 , 5]

S18.9 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:

Sulfur Recovery Plants (Process: 10, System: 1 & 4)

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

[Systems subject to this condition : Process 10, System 2 , 5]

S18.10 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:

Butane Loading/Unloading (Process: 11, System: 1)

Pressurized Storage Tanks (Process: 13, System: 4 & 6)

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

[Systems subject to this condition : Process 17, System 6 , 7]

S31.1 The following BACT requirements shall apply to VOC service fugitive components associated with the devices that are covered by application number(s) 423384:

## **FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL**

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

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

All open-ended lines 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 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.

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

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 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.

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.

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

## **FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL**

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

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

not apply to leakless valves.

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

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.

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

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

S31.2 The following BACT requirements shall apply to VOC service fugitive components associated with the devices that are covered by application number(s) 326109 modified after 7/22/94, 326166 modified after 11/4/93, 326116 modified after 5/23/94, 334038, 326121, 327360, 451293, and 326115:

## **FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL**

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

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

All new components in VOC service as defined in Rule 1173, except valves and flanges, shall be inspected quarterly using EPA reference method 21. All new valves and flanges in VOC service, except those specifically exempted by Rule 1173, shall be inspected monthly using EPA Method 21.

All new valves greater than 2-inch size and major components in VOC service as defined by Rule 1173, except those specifically exempted by Rule 1173, shall be 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, 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.

All new valves in VOC service except those specifically exempted by Rule 1173, shall be bellow-sealed valves for 2-inch and smaller sizes, except in the following applications: heavy liquid service, control valves, instrument piping/tubing, applications requiring torsional valve stem motion, applications where valve failure could pose safety hazards (e.g. drain valves with valve stems in horizontal position), and retrofits with space limitations.

If 98.0 percent or greater of the new valve and the new flange population inspected is found to leak gaseous or liquid volatile organic compounds at a rate less than 500 ppm for two consecutive months, then the operator shall revert to a quarterly inspection program with the approval of the executive officer. This condition shall not apply to bellow sealed valves.

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

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

## **FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL**

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

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

[Systems subject to this condition : Process 2, System 1 , 3; Process 3, System 1 , 3;  
Process 4, System 2; Process 5, System 1; Process 18, System 1 , 2]

S31.3 The following BACT requirements shall apply to VOC service fugitive components associated with the devices that are covered by application number(s) 536443, 547792:

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

All open-ended lines 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 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, 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 liquid organic compounds at a rate more than 500 ppm.

All new components in VOC service, a leak greater than 500 ppm measured as methane above background as measured using EPA Method 21, shall be repaired within 7 calendar days of detection or pursuant to Rule 1173 repair period, whichever

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

is more stringent.

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

a) A recalculation of the fugitive emissions based on actual components installed and removed from service. The valves and flanges shall be categorized by size and service. The operator shall submit a listing of all new non-bellows seal valves which shall be categorized by tag no., size, type, application, and reasons why bellows seal valves were not used; and

b) 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.

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.

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

[Systems subject to this condition : Process 11, System 1; Process 17, System 7]

S42.2 The operator shall only use the following catalyst emission control and process optimization additives in this process system:

MANUFACTURER	PRODUCT
Albemarle	ELIMINOx
Albemarle	KDNOx
Englehard	CLEANOx
Grace-Davison	CP-5
Grace-Davison	DENOX

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

Grace-Davison	OlefinsMax
Grace-Davison	OlefinsUltra
Grace-Davison	Super DESOX
Grace-Davison	XNOx
Intercat	COP-550
Intercat	NOXGETTER
Intercat	Super SOXGETTER
Intercat	CATNA482

[**RULE 1303(b)(2)-Offset, 5-10-1996**; RULE 1303(b)(2)-Offset, 12-6-2002; RULE 1401, 3-7-2008]

[Systems subject to this condition : Process 1, System 6]

### DEVICE CONDITIONS

#### A. Emission Limits

A1.2 Compliance with the Emission limit(s) specified in the Emissions and Requirements column for this device shall be determined as follows:

Emittant	Emission Limit Type	Averaging time (O2 Content)	Compliance Verification Method
NH3	(4)- BACT	1 hour (3 percent oxygen)	Source Test

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

[Devices subject to this condition : C1773]

## FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL

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

A63.1 The operator shall limit emissions from this equipment as follows:

CONTAMINANT	EMISSIONS LIMIT
CO	Less than or equal to 248 LBS IN ANY ONE DAY
PM10	Less than or equal to 166 LBS IN ANY ONE DAY
ROG	Less than or equal to 110 LBS IN ANY ONE DAY

The operator shall calculate the emission limit(s) using daily fuel usage data in MMSCF/hr, and the emission factors in lbs/MMscf of fuel usage derived from the latest source test results on this equipment.

For the purposes of this condition, Fuel usage shall be defined as the fuel used to operate the burners..

To comply with this condition, the operator shall use the following equation for each pollutant to determine daily emissions: Pollutant (lbs/day) = Fuel usage (mmscf/hr) x pollutant emission factor (lbs/MMscf) x 24

**[RULE 1303(b)(2)-Offset, 5-10-1996]**

[Devices subject to this condition : D1349]

A63.2 The operator shall limit emissions from this equipment as follows:

CONTAMINANT	EMISSIONS LIMIT
CO	Less than or equal to 401 LBS IN ANY ONE DAY
PM10	Less than or equal to 269 LBS IN ANY ONE DAY
PM	Less than or equal to 269 LBS IN ANY ONE DAY
ROG	Less than or equal to 166 LBS IN ANY ONE DAY

## **FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL**

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

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

For the purposes of this condition, the limit(s) shall be based on the total combined emissions from Turbine Device D828 & Boiler Device D829.

**[RULE 1303(b)(2)-Offset, 5-10-1996]**

[Devices subject to this condition : D828, D829]

- A99.1 The 9 PPM NOX emission limit(s) shall not apply when the equipment is in startup, shutdown, or on-line fuel transfer periods (for NOx).

**[RULE 2005, 5-6-2005]**

[Devices subject to this condition : D828]

- A99.2 The 10 PPM CO emission limit(s) shall not apply when the equipment is in startup, shutdown, or on-line fuel transfer periods (for CO).

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

[Devices subject to this condition : D828]

- A195.1 The 7 PPM NOX emission limit(s) is averaged over 15 minutes.

**[RULE 2005, 5-6-2005]**

[Devices subject to this condition : D1349]

- A195.2 The 104 PPM NOX emission limit(s) is averaged over 15 minutes for NOx when the gas turbine is fired with natural gas during startup, shutdown, or on-line fuel transfer periods, dry uncorrected.

## **FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL**

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

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

**[RULE 2005, 5-6-2005]**

[Devices subject to this condition : D828]

A195.3 The 165 PPM NOX emission limit(s) is averaged over 15 minutes for NOx when the gas turbine is fired with butane during startup, shutdown, or on-line fuel transfer periods, dry uncorrected.

**[RULE 2005, 5-6-2005]**

[Devices subject to this condition : D828]

A195.7 The 20 PPMV NOX emission limit(s) is averaged over 365 rolling days at 0% O2, dry basis.

The 20 ppmv NOx emission limit shall become effective on March 1, 2011.

**[ CONSENT DECREE CIVIL NO. H-05-0258, 8-11-2008]**

[Devices subject to this condition : D1]

A195.8 The 40 PPMV NOX emission limit(s) is averaged over 7 rolling days at 0% O2, dry basis.

The 40 ppmv NOx emission limit shall become effective on March 1, 2011.

NOx emissions during period of Startup, Shutdown, or Malfunction shall not be used in determining compliance with this emissions limit, provided that during such periods the operator implements good air pollution control practices to minimize NOx emissions.

## **FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL**

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

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

[ **CONSENT DECREE CIVIL NO. H-05-0258, 8-11-2008** ]

[Devices subject to this condition : D1]

A195.9 The 50 PPMV SO<sub>2</sub> emission limit(s) is averaged over 7 rolling days at 0% O<sub>2</sub>, dry basis.

The 50 ppmv SO<sub>2</sub> emission limit shall become effective on March 1, 2011.

SO<sub>2</sub> emissions during period of Startup, Shutdown, or Malfunction shall not be used in determining compliance with this emissions limit, provided that during such periods the operator implements good air pollution control practices to minimize SO<sub>2</sub> emissions.

[ **CONSENT DECREE CIVIL NO. H-05-0258, 8-11-2008** ]

[Devices subject to this condition : D1]

A195.10 The 25 PPMV SO<sub>2</sub> emission limit(s) is averaged over 365 rolling days at 0% O<sub>2</sub>, dry basis..

The 25 ppmv SO<sub>2</sub> emission limit shall become effective on March 1, 2011.

[ **CONSENT DECREE CIVIL NO. H-05-0258, 8-11-2008** ]

[Devices subject to this condition : D1]

A195.11 The 500 PPMV CO emission limit(s) is averaged over 1 hour at 0% O<sub>2</sub>, dry basis.

CO emissions during period of Startup, Shutdown, or Malfunction shall not be used in determining compliance with this emissions limit, provided that during such periods the operator implements good air pollution control practices to minimize CO emissions.

## **FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL**

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

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

**[ CONSENT DECREE CIVIL NO. H-05-0258, 8-11-2008 ]**

[Devices subject to this condition : D1]

A195.12 The 500 PPMV CO emission limit(s) is averaged over 1 hour as measured (no O<sub>2</sub> correction) on a dry basis.

**[40CFR 60 Subpart J, 6-24-2008]**

[Devices subject to this condition : D1]

A195.13 The 0.5 LBS/1000 LBS OF COKE BURNED PM emission limit(s) is averaged over 3 hours.

The PM emission limit shall become effective on December 31, 2008.

PM emissions during period of Startup, Shutdown, or Malfunction shall not be used in determining compliance with this emissions limit, provided that during such periods the operator implements good air pollution control practices to minimize PM emissions.

**[ CONSENT DECREE CIVIL NO. H-05-0258, 8-11-2008 ]**

[Devices subject to this condition : D1]

A229.1 The 30 Percent Opacity emission limit is measured by a continuous opacity monitor. However, it is allowed to exceed the limit for one six-minute average opacity reading in any one hour period.

## **FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL**

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

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

The operator shall install and maintain a(n) continuous opacity monitor to accurately indicate the opacity of the exhaust

For the purpose of this condition, a continuous opacity monitor shall be either 1) a continuous monitoring system or 2) a monitoring method pursuant to the USEPA-approved alternative monitoring plan (AMP) dated July 14, 2008. A copy of such approved AMP shall be forwarded to the Executive Officer or designee.

The operator shall install the continuous opacity monitor by the allotted time in NSPS Subpart A 40CFR60.13.

**[40CFR 60 Subpart J, 6-24-2008; CONSENT DECREE CIVIL NO. H-05-0258,  
8-11-2008]**

[Devices subject to this condition : D1]

A305.1 Whenever this equipment is in operation, the steam injection may be operated at any control efficiency provided that the emission concentrations being monitored by the certified CEMS serving this equipment is below the valid upper range specified in the approved CEMS plan.

**[RULE 2012, 5-6-2005]**

[Devices subject to this condition : D154, D155, D156, D157, D158]

A305.2 Whenever this equipment is in operation, the flue gas recirculation and the selective catalytic reduction (SCR) serving this equipment during normal operation (excluding startups and shutdowns) may be operated at any control efficiency provided that the emission concentrations being monitored by the certified CEMS serving this equipment is below the valid upper range specified in the approved CEMS plan.

During startups and shutdowns of this equipment, the FGR and the SCR serving this equipment may be operated at any control efficiency.

## **FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL**

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

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

**[RULE 2005, 5-6-2005]**

[Devices subject to this condition : D686]

A327.1 For the purpose of determining compliance with District Rule 476, combustion contaminant emissions may exceed the concentration limit or the mass emission limit listed, but not both limits at the same time.

**[RULE 476, 10-8-1976]**

[Devices subject to this condition : D687, D829]

A327.2 For the purpose of determining compliance with District Rule 475, combustion contaminant emissions may exceed the concentration limit or the mass emission limit listed, but not both limits at the same time.

**[RULE 475, 10-8-1976; RULE 475, 8-7-1978]**

[Devices subject to this condition : D828]

#### **B. Material/Fuel Type Limits**

B22.1 The operator shall not use this equipment with materials having a(n) true vapor pressure of 1.5 psia or greater under actual operating conditions.

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

[Devices subject to this condition : D360]

B22.2 The operator shall not use this equipment with materials having a(n) true vapor pressure of 11 psia or greater under actual operating conditions.

## FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL

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

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

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

[Devices subject to this condition : D546, D549, D573, D592]

- B22.3 The operator shall not use this equipment with materials having a(n) true vapor pressure of 11 psia or greater under actual operating conditions.

[**RULE 463, 5-6-2005**]

[Devices subject to this condition : D567]

- B22.4 The operator shall not use this equipment with materials having a(n) true vapor pressure of 2.9 psia or greater under actual operating conditions.

Whenever there is a change in material stored, the operator shall determine the true vapor pressure of the material through testing. The true vapor pressure shall be determined from Test methods specified in Rule 1178.

[**RULE 1178, 4-7-2006**; **RULE 1303(b)(2)-Offset, 5-10-1996**; RULE 1303(b)(2)-Offset, 12-6-2002]

[Devices subject to this condition : D356, D357, D359, D362, D363, D364]

- B22.5 The operator shall not use this equipment with materials having a(n) true vapor pressure of 8.82 psia or greater under actual operating conditions.

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

[Devices subject to this condition : D610]

- B22.6 The operator shall not use this equipment with materials having a(n) true vapor pressure of 3.0 psia or greater under actual operating conditions.

## FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL

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

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

The operator shall determine the true vapor pressure in accordance with the Test Methods and Procedures specified in Rule 1178.

[RULE 1178, 4-7-2006; RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002]

[Devices subject to this condition : D586]

B59.1 The operator shall only use the following material(s) in this device :

AO-36 antioxidant, OLI-9070 additive, CI-0801 additive, Standis 425 Conductivity Improver

[RULE 1401, 3-7-2008]

[Devices subject to this condition : D356, D357, D359, D362, D363, D364]

B61.1 The operator shall only use fuel gas containing the following specified compounds:

Compound	ppm by volume
Sulfur less than	100

[RULE 2005, 5-6-2005]

[Devices subject to this condition : D1349]

B61.3 The operator shall only use fuel gas containing the following specified compounds:

Compound	ppm by volume

## FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL

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

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

total sulfur compounds calculated as H <sub>2</sub> S less than or equal to	95
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**[RULE 2005, 5-6-2005]**

[Devices subject to this condition : D828, D829]

B61.4 The operator shall not use fuel gas containing the following specified compounds:

Compound	ppm by volume
H <sub>2</sub> S greater than	160

The H<sub>2</sub>S concentration limit shall be based on a rolling 3-hour averaging period

**[40CFR 60 Subpart J, 6-24-2008; CONSENT DECREE CIVIL NO. H-05-0258, 8-11-2008]**

[Devices subject to this condition : D39, D41, D42, D129, D133, D135, D136, D137, D138, D139, D142, D146, D148, D150, D152, D154, D155, D156, D157, D158, D161, D163, D194, D220, D259, D260, D262, D264, D329, C436, C456, D684, D686, D688]

B61.5 The operator shall not use diesel fuel containing the following specified compounds:

Compound	weight percent
Sulfur compounds greater than	0.05

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

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

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

[Devices subject to this condition : D670, D675, D676, D677, D678, D679, D680, D681, D683, D1553, D1657, D1658]

B61.8 The operator shall not use aqueous ammonia containing the following specified compounds:

Compound	weight percent
Ammonia greater than	19

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

[Devices subject to this condition : C1773]

B61.9 The operator shall not use diesel fuel containing the following specified compounds:

Compound	weight percent
Sulfur compounds greater than	0.0015

**[RULE 2005, 5-6-2005]**

[Devices subject to this condition : D1768]

B61.10 The operator shall not use fuel gas containing the following specified compounds:

Compound	ppm by volume
H <sub>2</sub> S greater than	160

## **FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL**

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

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

The H2S concentration limit shall be based on a rolling 3-hour averaging period

**[40CFR 60 Subpart J, 6-24-2008]**

[Devices subject to this condition : D687]

#### **C. Throughput or Operating Parameter Limits**

C1.1 The operator shall limit the operating time to no more than 90 day(s) in any one year.

For the purpose of this condition, operating time shall be defined as the time that the flare is operated at any one location.

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

[Devices subject to this condition : C735]

C1.2 The operator shall limit the number of turnovers to no more than 130 in any one year.

**[RULE 204, 10-8-1993]**

[Devices subject to this condition : D556, D557]

C1.3 The operator shall limit the number of turnovers to no more than 47 in any one year.

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

## **FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL**

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

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

[Devices subject to this condition : D544, D565]

C1.5 The operator shall limit the number of turnovers to no more than 20 in any one year.

**[RULE 1303(b)(2)-Offset, 5-10-1996]**

[Devices subject to this condition : D572, D1378]

C1.6 The operator shall limit the number of turnovers to no more than 153 in any one year.

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

[Devices subject to this condition : D545]

C1.7 The operator shall limit the operating time to no more than 2190 hour(s) in any one year.

The purpose(s) of this condition is to ensure that this equipment qualifies as a large source.

**[RULE 2012, 5-6-2005]**

[Devices subject to this condition : D683]

C1.9 The operator shall limit the firing rate to no more than 646.3 MM Btu per hour.

**[RULE 1303(b)(2)-Offset, 5-10-1996]**

## **FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL**

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

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

[Devices subject to this condition : D828]

C1.10 The operator shall limit the firing rate to no more than 99 MM Btu per hour.

**[RULE 1303(b)(2)-Offset, 5-10-1996]**

[Devices subject to this condition : D829]

C1.11 The operator shall limit the duration of startup to no more than 6 hour(s).

**[RULE 2005, 5-6-2005]**

[Devices subject to this condition : D828]

C1.12 The operator shall limit the duration of shutdown to no more than 2 hour(s).

**[RULE 2005, 5-6-2005]**

[Devices subject to this condition : D828]

C1.13 The operator shall limit the number of turnovers to no more than 14 in any one year.

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

[Devices subject to this condition : D584]

## **FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL**

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

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

C1.15 The operator shall limit the number of turnovers to no more than 5 in any one year.

**[RULE 1301, 12-7-1995]**

[Devices subject to this condition : D825]

C1.16 The operator shall limit the firing rate to no more than 23000 MM Btu in any one year.

**[RULE 2012, 5-6-2005]**

[Devices subject to this condition : D332]

C1.17 The operator shall limit the number of turnovers to no more than 31 in any one year.

This limit shall be based on the total combined limit for equipment listed under Devices D1378 (Mixed Pentanes Storage Tank 466) and D665 (Organic Liquid Storage Tank 304) during Tank 304 shutdown for maintenance. The limit of 20 turnovers from Tank 466 shall not be applied during Tank 304 shutdown for maintenance.

**[RULE 1303(b)(2)-Offset, 5-10-1996]**

[Devices subject to this condition : D1378]

C1.18 The operator shall limit the number of turnovers to no more than 30 in any one year.

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

## **FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL**

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

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

[Devices subject to this condition : D552]

C1.19 The operator shall limit the firing rate to no more than 10 MM Btu per hour.

To comply with this condition, the operator shall maintain records of the fuel rate and the fuel high heating value. Such records shall be made available to District personnel upon request.

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

[Devices subject to this condition : D40]

C1.20 The operator shall limit the firing rate to no more than 29 MM Btu per hour.

To comply with this condition, the operator shall maintain records of the fuel rate and the fuel high heating value. Such records shall be made available to District personnel upon request.

**[RULE 1301, 12-7-1995]**

[Devices subject to this condition : D39]

C1.21 The operator shall limit the firing rate to no more than 27 MM Btu per hour.

To comply with this condition, the operator shall maintain records of the fuel rate and the fuel high heating value. Such records shall be made available to District personnel upon request.

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

## **FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL**

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

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

[Devices subject to this condition : D129]

C1.22 The operator shall limit the firing rate to no more than 27 MM Btu per hour.

To comply with this condition, the operator shall maintain records of the fuel rate and the fuel high heating value. Such records shall be made available to District personnel upon request.

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

[Devices subject to this condition : D148]

C1.23 The operator shall limit the firing rate to no more than 35 MM Btu per hour.

To comply with this condition, the operator shall maintain records of the fuel rate and the fuel high heating value. Such records shall be made available to District personnel upon request.

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

[Devices subject to this condition : D133]

C1.24 The operator shall limit the firing rate to no more than 17 MM Btu per hour.

To comply with this condition, the operator shall maintain records of the fuel rate and the fuel high heating value. Such records shall be made available to District personnel upon request.

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

## **FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL**

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

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

[Devices subject to this condition : D142]

C1.25 The operator shall limit the firing rate to no more than 17 MM Btu per hour.

To comply with this condition, the operator shall maintain records of the fuel rate and the fuel high heating value. Such records shall be made available to District personnel upon request.

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

[Devices subject to this condition : D260]

C1.27 The operator shall limit the firing rate to no more than 38 MM Btu per hour.

To comply with this condition, the operator shall maintain records of the fuel rate and the fuel high heating value. Such records shall be made available to District personnel upon request.

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

[Devices subject to this condition : D150]

C1.28 The operator shall limit the firing rate to no more than 30 MM Btu per hour.

To comply with this condition, the operator shall maintain records of the fuel rate and the fuel high heating value. Such records shall be made available to District personnel upon request.

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

## **FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL**

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

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

[Devices subject to this condition : D152]

C1.33 The operator shall limit the firing rate to no more than 31 MM Btu per hour.

To comply with this condition, the operator shall maintain records of the fuel rate and the fuel high heating value. Such records shall be made available to District personnel upon request.

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

[Devices subject to this condition : D161]

C1.34 The operator shall limit the firing rate to no more than 14 MM Btu per hour.

To comply with this condition, the operator shall maintain records of the fuel rate and the fuel high heating value. Such records shall be made available to District personnel upon request.

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

[Devices subject to this condition : D163]

C1.35 The operator shall limit the firing rate to no more than 350 MM Btu per hour.

To comply with this condition, the operator shall maintain records of the fuel rate and the fuel high heating value. Such records shall be made available to District personnel upon request.

**[RULE 1301, 12-7-1995]**

## **FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL**

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

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

[Devices subject to this condition : D220]

C1.36 The operator shall limit the firing rate to no more than 39 MM Btu per hour.

To comply with this condition, the operator shall maintain records of the fuel rate and the fuel high heating value. Such records shall be made available to District personnel upon request.

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

[Devices subject to this condition : D259]

C1.37 The operator shall limit the firing rate to no more than 37 MM Btu per hour.

To comply with this condition, the operator shall maintain records of the fuel rate and the fuel high heating value. Such records shall be made available to District personnel upon request.

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

[Devices subject to this condition : D262]

C1.39 The operator shall limit the operating time to no more than 199 hour(s) in any one year.

**[RULE 1304(a)-Modeling and Offset Exemption, 6-14-1996; RULE 2012, 5-6-2005]**

[Devices subject to this condition : D675, D676, D677, D678, D679, D680, D681, D1553, D1657, D1658, D1768]

## **FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL**

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

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

C1.40 The operator shall limit the firing rate to no more than 135 MM Btu per hour.

To comply with this condition, the operator shall monitor and record the fuel rate and the high heating value. Such records shall be made available to the District personnel upon request.

**[RULE 1301, 12-7-1995]**

[Devices subject to this condition : D264]

C1.41 The operator shall limit the firing rate to no more than 116 MM Btu per hour.

To comply with this condition, the operator shall monitor and record the fuel rate and the high heating value. Such records shall be available to the District personnel upon request.

**[RULE 1301, 12-7-1995]**

[Devices subject to this condition : D135]

C1.42 The operator shall limit the firing rate to no more than 68 MM Btu per hour.

To comply with this condition, the operator shall monitor and record the fuel rate and the high heating value. Such records shall be available to the District personnel upon request.

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

[Devices subject to this condition : D136]

## **FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL**

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

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

C1.43 The operator shall limit the firing rate to no more than 71 MM Btu per hour.

To comply with this condition, the operator shall monitor and record the fuel rate and the high heating value. Such records shall be available to the District personnel upon request.

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

[Devices subject to this condition : D137]

C1.44 The operator shall limit the firing rate to no more than 56 MM Btu per hour.

To comply with this condition, the operator shall monitor and record the fuel rate and the high heating value. Such records shall be available to the District personnel upon request.

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

[Devices subject to this condition : D138]

C1.45 The operator shall limit the firing rate to no more than 19 MM Btu per hour.

To comply with this condition, the operator shall monitor and record the fuel rate and the high heating value. Such records shall be available to the District personnel upon request.

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

[Devices subject to this condition : D139]

## **FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL**

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

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

C1.46 The operator shall limit the firing rate to no more than 76 MM Btu per hour.

To comply with this condition, the operator shall monitor and record the fuel rate and the high heating value. Such records shall be made available to the District personnel upon request.

**[RULE 1301, 12-7-1995]**

[Devices subject to this condition : D146]

C1.49 The operator shall limit the loading rate to no more than 20000 gallon(s) per day.

For the purpose of this condition, loading rate shall be defined as loading of petroleum distillates having a reid vapor pressure of less than 4 psi.

**[RULE 1303(b)(2)-Offset, 5-10-1996]**

[Devices subject to this condition : D464]

C1.50 The operator shall limit the throughput to no more than 730000 barrel(s) in any one year.

**[RULE 1303(b)(2)-Offset, 5-10-1996]**

[Devices subject to this condition : D549]

C1.51 The operator shall limit the throughput to no more than 250000 barrel(s) in any one month.

**[RULE 1303(b)(2)-Offset, 5-10-1996]**

## **FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL**

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

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

[Devices subject to this condition : D661, D662]

C1.52 The operator shall limit the unloading rate to no more than 360000 barrel(s) in any one calendar month.

This limit shall be based on the total combined limit for equipment D458.

**[RULE 1303(b)(2)-Offset, 5-10-1996]**

[Devices subject to this condition : D458]

C1.53 The operator shall limit the loading rate to no more than 165000 barrel(s) in any one calendar month.

This limit shall be based on the total combined limit for equipment D459.

**[RULE 1303(b)(2)-Offset, 5-10-1996]**

[Devices subject to this condition : D459]

C1.54 The operator shall limit the throughput to no more than 300000 barrel(s) in any one calendar month.

**[RULE 1303(b)(2)-Offset, 5-10-1996]**

[Devices subject to this condition : D644, D645, D646, D1367]

C1.55 The operator shall limit the loading rate to no more than 360000 barrel(s) in any one calendar month.

This limit shall be based on the total combined limit for equipment D458.

## **FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL**

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

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

**[RULE 1303(b)(2)-Offset, 5-10-1996]**

[Devices subject to this condition : D458]

- C1.56 The operator shall limit the unloading rate to no more than 165000 barrel(s) in any one calendar month.

This limit shall be based on the total combined limit for equipment D459.

**[RULE 1303(b)(2)-Offset, 5-10-1996]**

[Devices subject to this condition : D459]

- C1.57 The operator shall limit the firing rate to no more than 110 MM Btu per hour.

To comply with this condition, the operator shall monitor and record the fuel rate and the high heating value. Such records shall be available to the District personnel upon request.

**[RULE 1301, 12-7-1995]**

[Devices subject to this condition : D154]

- C1.58 The operator shall limit the firing rate to no more than 100 MM Btu per hour.

To comply with this condition, the operator shall monitor and record the fuel rate and the high heating value. Such records shall be available to the District personnel upon request.

**[RULE 1303(b)(2)-Offset, 5-10-1996]**

## **FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL**

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

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

[Devices subject to this condition : D155]

C1.59 The operator shall limit the firing rate to no more than 70 MM Btu per hour.

To comply with this condition, the operator shall monitor and record the fuel rate and the high heating value. Such records shall be available to the District personnel upon request.

**[RULE 1303(b)(2)-Offset, 5-10-1996]**

[Devices subject to this condition : D156]

C1.60 The operator shall limit the firing rate to no more than 42 MM Btu per hour.

To comply with this condition, the operator shall monitor and record the fuel rate and the high heating value. Such records shall be available to the District personnel upon request.

**[RULE 1303(b)(2)-Offset, 5-10-1996]**

[Devices subject to this condition : D157]

C1.61 The operator shall limit the firing rate to no more than 24 MM Btu per hour.

To comply with this condition, the operator shall monitor and record the fuel rate and the high heating value. Such records shall be available to the District personnel upon request.

**[RULE 1303(b)(2)-Offset, 5-10-1996]**

## **FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL**

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

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

[Devices subject to this condition : D158]

C1.62 The operator shall limit the firing rate to no more than 304 MM Btu per hour.

To comply with this condition, the operator shall monitor and record the fuel rate and the high heating value. Such records shall be made available to District personnel upon request.

**[RULE 1303(b)(2)-Offset, 5-10-1996]**

[Devices subject to this condition : D686]

C1.63 The operator shall limit the throughput to no more than 1304 barrel(s) in any one year.

**[RULE 1303(b)(2)-Offset, 5-10-1996]**

[Devices subject to this condition : D529]

C1.64 The operator shall limit the throughput to no more than 31800 barrel(s) in any one month.

To comply with this condition, the operator shall monitor and record the liquid outage daily. Such records shall be maintained for at least two years and made available to the District personnel upon request.

**[RULE 1303(b)(2)-Offset, 5-10-1996]**

[Devices subject to this condition : D1386]

C1.66 The operator shall limit the loading rate to no more than 30 ton(s) in any one month.

## **FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL**

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

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

To comply with this condition, the operator shall maintain records in a manner approved by the District, to demonstrate compliance with this condition.

**[RULE 1303(b)(2)-Offset, 5-10-1996]**

[Devices subject to this condition : D1695, D1697]

- C1.69 The operator shall limit the throughput to no more than 5,667.50 gallon(s) in any one calendar month.

## **FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL**

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

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

The operator shall comply with the following throughput measurement practices.

The operator shall calculate the throughput, in barrels, by the following equation:  $0.14 \times d \times d \times l$ , where  $d$  is the diameter of the tank in feet based on the tank strapping chart and  $l$  is the total vertical one-way roof travel in feet per month.

The operator shall install and maintain an automatic tank level gauge (ATLG) and recorder to continuously record the vertical movement of the roof. For the purpose of this condition, continuous recording is defined as once per hour.

The operator shall calculate the total one-way roof movement, in feet, on a daily and monthly basis.

The ATLG installed shall be verified once per quarter by comparing against a manual tank level measurement. If the ATLG differs from the manual tank level measurement by more than 1.0 inch or 0.8%, whichever is greater, the ATLG shall be repaired and put back into service within 10 days. While the ATLG is being repaired, the throughput shall be determined by the hourly tank level data averaged from the previous 30 days prior to the discovery of the discrepancy.

In the event of a failure or routine maintenance of the ATLG, the ATLG shall be repaired (if necessary) and put back into service within 10 days of the time that the ATLG failed or was removed from service for maintenance. While the ATLG is being repaired or maintained, the throughput shall be determined by the hourly tank level data averaged from the previous 30 days prior to time that the ATLG went out of service.

The operator shall keep adequate records to show compliance with the limitations specified in this permit. Such records shall be maintained and kept on file for at least two years and shall be made available to the executive officer or his authorized representative upon request.

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

## **FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL**

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

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

[Devices subject to this condition : D356]

C1.70 The operator shall limit the throughput to no more than 4,963.33 gallon(s) in any one calendar month.

## **FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL**

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

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

The operator shall comply with the following throughput measurement practices.

The operator shall calculate the throughput, in barrels, by the following equation:  $0.14 \times d \times d \times l$ , where  $d$  is the diameter of the tank in feet based on the tank strapping chart and  $l$  is the total vertical one-way roof travel in feet per month.

The operator shall install and maintain an automatic tank level gauge (ATLG) and recorder to continuously record the vertical movement of the roof. For the purpose of this condition, continuous recording is defined as once per hour.

The operator shall calculate the total one-way roof movement, in feet, on a daily and monthly basis.

The ATLG installed shall be verified once per quarter by comparing against a manual tank level measurement. If the ATLG differs from the manual tank level measurement by more than 1.0 inch or 0.8%, whichever is greater, the ATLG shall be repaired and put back into service within 10 days. While the ATLG is being repaired, the throughput shall be determined by the hourly tank level data averaged from the previous 30 days prior to the discovery of the discrepancy.

In the event of a failure or routine maintenance of the ATLG, the ATLG shall be repaired (if necessary) and put back into service within 10 days of the time that the ATLG failed or was removed from service for maintenance. While the ATLG is being repaired or maintained, the throughput shall be determined by the hourly tank level data averaged from the previous 30 days prior to time that the ATLG went out of service.

The operator shall keep adequate records to show compliance with the limitations specified in this permit. Such records shall be maintained and kept on file for at least two years and shall be made available to the executive officer or his authorized representative upon request.

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

## **FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL**

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

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

[Devices subject to this condition : D357]

C1.71 The operator shall limit the throughput to no more than 11,338.33 gallon(s) in any one calendar month.

## **FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL**

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

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

The operator shall comply with the following throughput measurement practices.

The operator shall calculate the throughput, in barrels, by the following equation:  $0.14 \times d \times d \times l$ , where  $d$  is the diameter of the tank in feet based on the tank strapping chart and  $l$  is the total vertical one-way roof travel in feet per month.

The operator shall install and maintain an automatic tank level gauge (ATLG) and recorder to continuously record the vertical movement of the roof. For the purpose of this condition, continuous recording is defined as once per hour.

The operator shall calculate the total one-way roof movement, in feet, on a daily and monthly basis.

The ATLG installed shall be verified once per quarter by comparing against a manual tank level measurement. If the ATLG differs from the manual tank level measurement by more than 1.0 inch or 0.8%, whichever is greater, the ATLG shall be repaired and put back into service within 10 days. While the ATLG is being repaired, the throughput shall be determined by the hourly tank level data averaged from the previous 30 days prior to the discovery of the discrepancy.

In the event of a failure or routine maintenance of the ATLG, the ATLG shall be repaired (if necessary) and put back into service within 10 days of the time that the ATLG failed or was removed from service for maintenance. While the ATLG is being repaired or maintained, the throughput shall be determined by the hourly tank level data averaged from the previous 30 days prior to time that the ATLG went out of service.

The operator shall keep adequate records to show compliance with the limitations specified in this permit. Such records shall be maintained and kept on file for at least two years and shall be made available to the executive officer or his authorized representative upon request.

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

## **FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL**

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

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

[Devices subject to this condition : D359]

C1.72 The operator shall limit the throughput to no more than 14,360.83 gallon(s) in any one calendar month.

## **FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL**

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

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

The operator shall comply with the following throughput measurement practices.

The operator shall calculate the throughput, in barrels, by the following equation:  $0.14 \times d \times d \times l$ , where  $d$  is the diameter of the tank in feet based on the tank strapping chart and  $l$  is the total vertical one-way roof travel in feet per month.

The operator shall install and maintain an automatic tank level gauge (ATLG) and recorder to continuously record the vertical movement of the roof. For the purpose of this condition, continuous recording is defined as once per hour.

The operator shall calculate the total one-way roof movement, in feet, on a daily and monthly basis.

The ATLG installed shall be verified once per quarter by comparing against a manual tank level measurement. If the ATLG differs from the manual tank level measurement by more than 1.0 inch or 0.8%, whichever is greater, the ATLG shall be repaired and put back into service within 10 days. While the ATLG is being repaired, the throughput shall be determined by the hourly tank level data averaged from the previous 30 days prior to the discovery of the discrepancy.

In the event of a failure or routine maintenance of the ATLG, the ATLG shall be repaired (if necessary) and put back into service within 10 days of the time that the ATLG failed or was removed from service for maintenance. While the ATLG is being repaired or maintained, the throughput shall be determined by the hourly tank level data averaged from the previous 30 days prior to time that the ATLG went out of service.

The operator shall keep adequate records to show compliance with the limitations specified in this permit. Such records shall be maintained and kept on file for at least two years and shall be made available to the executive officer or his authorized representative upon request.

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

## **FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL**

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

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

[Devices subject to this condition : D362]

- C1.73 The operator shall limit the throughput to no more than 5,632.50 gallon(s) in any one calendar month.

## **FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL**

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

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

The operator shall comply with the following throughput measurement practices.

The operator shall calculate the throughput, in barrels, by the following equation:  $0.14 \times d \times d \times l$ , where  $d$  is the diameter of the tank in feet based on the tank strapping chart and  $l$  is the total vertical one-way roof travel in feet per month.

The operator shall install and maintain an automatic tank level gauge (ATLG) and recorder to continuously record the vertical movement of the roof. For the purpose of this condition, continuous recording is defined as once per hour.

The operator shall calculate the total one-way roof movement, in feet, on a daily and monthly basis.

The ATLG installed shall be verified once per quarter by comparing against a manual tank level measurement. If the ATLG differs from the manual tank level measurement by more than 1.0 inch or 0.8%, whichever is greater, the ATLG shall be repaired and put back into service within 10 days. While the ATLG is being repaired, the throughput shall be determined by the hourly tank level data averaged from the previous 30 days prior to the discovery of the discrepancy.

In the event of a failure or routine maintenance of the ATLG, the ATLG shall be repaired (if necessary) and put back into service within 10 days of the time that the ATLG failed or was removed from service for maintenance. While the ATLG is being repaired or maintained, the throughput shall be determined by the hourly tank level data averaged from the previous 30 days prior to time that the ATLG went out of service.

The operator shall keep adequate records to show compliance with the limitations specified in this permit. Such records shall be maintained and kept on file for at least two years and shall be made available to the executive officer or his authorized representative upon request.

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

## **FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL**

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

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

[Devices subject to this condition : D363]

C1.74 The operator shall limit the throughput to no more than 10,963.33 gallon(s) in any one calendar month.

## **FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL**

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

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

The operator shall comply with the following throughput measurement practices.

The operator shall calculate the throughput, in barrels, by the following equation:  $0.14 \times d \times d \times l$ , where  $d$  is the diameter of the tank in feet based on the tank strapping chart and  $l$  is the total vertical one-way roof travel in feet per month.

The operator shall install and maintain an automatic tank level gauge (ATLG) and recorder to continuously record the vertical movement of the roof. For the purpose of this condition, continuous recording is defined as once per hour.

The operator shall calculate the total one-way roof movement, in feet, on a daily and monthly basis.

The ATLG installed shall be verified once per quarter by comparing against a manual tank level measurement. If the ATLG differs from the manual tank level measurement by more than 1.0 inch or 0.8%, whichever is greater, the ATLG shall be repaired and put back into service within 10 days. While the ATLG is being repaired, the throughput shall be determined by the hourly tank level data averaged from the previous 30 days prior to the discovery of the discrepancy.

In the event of a failure or routine maintenance of the ATLG, the ATLG shall be repaired (if necessary) and put back into service within 10 days of the time that the ATLG failed or was removed from service for maintenance. While the ATLG is being repaired or maintained, the throughput shall be determined by the hourly tank level data averaged from the previous 30 days prior to time that the ATLG went out of service.

The operator shall keep adequate records to show compliance with the limitations specified in this permit. Such records shall be maintained and kept on file for at least two years and shall be made available to the executive officer or his authorized representative upon request.

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

## FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL

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

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

[Devices subject to this condition : D364]

- C1.75 The operator shall limit the maintenance testing to no more than 34 hours in any one calendar year.

The purpose(s) of this condition is to ensure compliance with requirements of National Fire Protection Association (NFPA) 25 standards.

The operator shall maintain records in a manner approved by the District, to demonstrate compliance with this condition.

[RULE 1470, 6-1-2007]

[Devices subject to this condition : D675, D676, D677, D678, D679]

- C1.76 The operator shall limit the maintenance testing to no more than 30 hours in any one calendar year.

The operator shall maintain records in a manner approved by the District, to demonstrate compliance with this condition.

[RULE 1470, 6-1-2007]

[Devices subject to this condition : D1553, D1768]

- C1.77 The operator shall limit the maintenance testing to no more than 50 hours in any one calendar year.

The operator shall maintain records in a manner approved by the District, to demonstrate compliance with this condition.

[RULE 1470, 6-1-2007]

## FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL

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

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

[Devices subject to this condition : D1657]

- C1.78 The operator shall limit the maintenance testing to no more than 20 hours in any one calendar year.

The operator shall maintain records in a manner approved by the District, to demonstrate compliance with this condition.

[RULE 1470, 6-1-2007]

[Devices subject to this condition : D1658]

- C1.79 The operator shall limit the operating time to no more than 100 hours in any one calendar year.

The operator shall keep records in a manner approved by the District, for the following parameter(s) or item(s): An engine operating log listing the date of operation, and the elapsed operating time in hours. The log shall be kept and maintained on file for a minimum of three years, and made available to District personnel upon request.

[RULE 1470, 6-1-2007]

[Devices subject to this condition : D683]

- C1.80 The operator shall limit the throughput to no more than 55,000 barrel(s) in any one day.

For the purpose of this condition, throughput shall be defined as FCCU feed rate.

The operator shall properly maintain and operate the existing throughput measuring and recording device to show compliance with this limit.

The operator shall maintain records in a manner approved by the District, to demonstrate compliance with this condition.

## FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL

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

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

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

[Devices subject to this condition : D7]

C1.82 The operator shall limit the throughput to no more than 4266000 barrels in any one calendar year.

The operator shall calculate the throughput, in barrels, by the following equation:  $0.14 \times D \times D \times L$ , where D is the diameter of the tank in feet based on the tank strapping chart and L is the total vertical one-way roof travel in feet per month.

The operator shall install and maintain an automatic tank level gauge (ATLG) and recorder to continuously record the vertical movement of the roof. For the purpose of this condition, continuous recording is defined as once per hour.

The operator shall calculate the total one-way roof movement, in feet, on a daily and monthly basis.

The ATLG installed shall be verified once per quarter by comparing against a manual tank level measurement. If the ATLG differs from the manual tank level measurement by more than 1.0 inch or 0.8%, whichever is greater, the ATLG shall be repaired and put back into service within 10 days. While the ATLG is being repaired, the throughput shall be determined by the hourly tank level data averaged from the previous 30 days prior to the discovery of the discrepancy.

In the event of a failure or routine maintenance of the ATLG, the ATLG shall be repaired (if necessary) and put back into service within 10 days of the time that the ATLG failed or was removed from service for maintenance. While the ATLG is being repaired or maintained, the throughput shall be determined by the hourly tank level data averaged from the previous 30 days prior to the time that the ATLG went out of service.

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

## FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL

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

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

[Devices subject to this condition : D570]

- C1.83 The operator shall limit the throughput to no more than 790000 barrel(s) in any one calendar month.

The operator shall calculate the throughput, in barrels, by the following equation:  $0.14 \times D \times D \times L$ , where D is the diameter of the tank in feet based on the tank strapping chart and L is the total vertical one-way roof travel in feet per month.

The operator shall install and maintain an automatic tank level gauge (ATLG) and recorder to continuously record the vertical movement of the roof. For the purpose of this condition, continuous recording is defined as once per hour.

The operator shall calculate the total one-way roof movement, in feet, on a daily and monthly basis.

The ATLG installed shall be verified once per quarter by comparing against a manual tank level measurement. If the ATLG differs from the manual tank level measurement by more than 1.0 inch or 0.8%, whichever is greater, the ATLG shall be repaired and put back into service within 10 days. While the ATLG is being repaired, the throughput shall be determined by the hourly tank level data averaged from the previous 30 days prior to the discovery of the discrepancy.

In the event of a failure or routine maintenance of the ATLG, the ATLG shall be repaired (if necessary) and put back into service within 10 days of the time that the ATLG failed or was removed from service for maintenance. While the ATLG is being repaired or maintained, the throughput shall be determined by the hourly tank level data averaged from the previous 30 days prior to the time that the ATLG went out of service.

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

[Devices subject to this condition : D570]

## **FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL**

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

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

C1.84 The operator shall limit the operating time to no more than 20 hour(s) in any one year.

To comply with this condition, the operator shall install and maintain a(n) non-resettable elapsed time meter to accurately indicate the elapsed operating time of the engine.

The operator shall maintain an engine operating log which, on a monthly basis shall list all engine operations in each of the following areas:

- A. Emergency use hours of operation.
- B. Maintenance and testing hours.
- C. Other operating hours (Describe the reason for operation).

In addition, each time the engine is started manually, the log shall include the date of operation and the time reading in hours at the beginning and end of the operation..

The operation of the engine of 20 hours per year shall be allowed as follows:

- 1. Mechanical breakdown of Pump #349 or electrical outage which causes Pump # 349 to become inoperable or.
- 2. Maintenance and testing purposes.

**[RULE 1110.2, 2-1-2008; RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002; RULE 1303(b)(1)-Modeling, 5-10-1996; RULE 1303(b)(1)-Modeling, 12-6-2002; RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002; RULE 1304(a)-Modeling and Offset Exemption, 6-14-1996; RULE 1470, 6-1-2007]**

[Devices subject to this condition : D670]

## **FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL**

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

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

C1.85 The operator shall limit the throughput to no more than 1,365,000 barrels in any one calendar year.

The operator shall comply with the following throughput measurement practices.

The operator shall calculate the throughput, in barrels, by the following equation:  $0.14 \times d \times d \times l$ , where  $d$  is the diameter of the tank in feet based on the tank strapping chart and  $l$  is the total vertical one-way roof travel in feet per month.

The operator shall install and maintain an automatic tank level gauge (ATLG) and recorder to continuously record the vertical movement of the roof. For the purpose of this condition, continuous recording is defined as once per hour.

The operator shall calculate the total one-way roof movement, in feet, on a daily and monthly basis.

The ATLG installed shall be verified once per quarter by comparing against a manual tank level measurement. If the ATLG differs from the manual tank level measurement by more than 1.0 inch or 0.8%, whichever is greater, the ATLG shall be repaired and put back into service within 10 days. While the ATLG is being repaired, the throughput shall be determined by the hourly tank level data averaged from the previous 30 days prior to the discovery of the discrepancy.

In the event of a failure or routine maintenance of the ATLG, the ATLG shall be repaired (if necessary) and put back into service within 10 days of the time that the ATLG failed or was removed from service for maintenance. While the ATLG is being repaired or maintained, the throughput shall be determined by the hourly tank level data averaged from the previous 30 days prior to time that the ATLG went out of service.

The operator shall keep adequate records to show compliance with the limitations specified in this permit. Such records shall be maintained and kept on file for at least five years and shall be made available to the Executive Officer or his authorized representative upon request.

## **FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL**

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

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

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

[Devices subject to this condition : D546]

C1.86 The operator shall limit the throughput to no more than 520,000 barrel(s) in any one calendar month.

## **FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL**

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

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

The operator shall comply with the following throughput measurement practices.

The operator shall calculate the throughput, in barrels, by the following equation:  $0.14 \times d \times d \times l$ , where  $d$  is the diameter of the tank in feet based on the tank strapping chart and  $l$  is the total vertical one-way roof travel in feet per month.

The operator shall install and maintain an automatic tank level gauge (ATLG) and recorder to continuously record the vertical movement of the roof. For the purpose of this condition, continuous recording is defined as once per hour.

The operator shall calculate the total one-way roof movement, in feet, on a daily and monthly basis.

The ATLG installed shall be verified once per quarter by comparing against a manual tank level measurement. If the ATLG differs from the manual tank level measurement by more than 1.0 inch or 0.8%, whichever is greater, the ATLG shall be repaired and put back into service within 10 days. While the ATLG is being repaired, the throughput shall be determined by the hourly tank level data averaged from the previous 30 days prior to the discovery of the discrepancy.

In the event of a failure or routine maintenance of the ATLG, the ATLG shall be repaired (if necessary) and put back into service within 10 days of the time that the ATLG failed or was removed from service for maintenance. While the ATLG is being repaired or maintained, the throughput shall be determined by the hourly tank level data averaged from the previous 30 days prior to time that the ATLG went out of service.

The operator shall keep adequate records to show compliance with the limitations specified in this permit. Such records shall be maintained and kept on file for at least five years and shall be made available to the Executive Officer or his authorized representative upon request.

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

## FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL

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

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

[Devices subject to this condition : D571]

C1.87 The operator shall limit the throughput to no more than 30,000 barrel(s) in any one calendar month.

The operator shall comply with the following throughput measurement practices.

The operator shall calculate the throughput, in barrels, by the following equation:  $0.14 \times d \times d \times l$ , where  $d$  is the diameter of the tank in feet based on the tank strapping chart and  $l$  is the total vertical one-way roof travel in feet per month.

The operator shall install and maintain an automatic tank level gauge (ATLG) and recorder to continuously record the vertical movement of the roof. For the purpose of this condition, continuous recording is defined as once per hour.

The operator shall calculate the total one-way roof movement, in feet, on a daily and monthly basis.

The ATLG installed shall be verified once per quarter by comparing against a manual tank level measurement. If the ATLG differs from the manual tank level measurement by more than 1.0 inch or 0.8%, whichever is greater, the ATLG shall be repaired and put back into service within 10 days. While the ATLG is being repaired, the throughput shall be determined by the hourly tank level data averaged from the previous 30 days prior to the discovery of the discrepancy.

In the event of a failure or routine maintenance of the ATLG, the ATLG shall be repaired (if necessary) and put back into service within 10 days of the time that the ATLG failed or was removed from service for maintenance. While the ATLG is being repaired or maintained, the throughput shall be determined by the hourly tank level data averaged from the previous 30 days prior to time that the ATLG went out of service.

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

## **FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL**

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

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

[Devices subject to this condition : D610]

C1.88 The operator shall limit the throughput to no more than 861,000 gallon(s) per month.

## **FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL**

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

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

The operator shall comply with the following throughput measurement practices.

The operator shall calculate the throughput, in barrels, by the following equation:  $0.14 \times d \times d \times l$ , where  $d$  is the diameter of the tank in feet based on the tank strapping chart and  $l$  is the total vertical one-way roof travel in feet per month.

The operator shall install and maintain an automatic tank level gauge (ATLG) and recorder to continuously record the vertical movement of the roof. For the purpose of this condition, continuous recording is defined as once per hour.

The operator shall calculate the total one-way roof movement, in feet, on a daily and monthly basis.

The ATLG installed shall be verified once per quarter by comparing against a manual tank level measurement. If the ATLG differs from the manual tank level measurement by more than 1.0 inch or 0.8%, whichever is greater, the ATLG shall be repaired and put back into service within 10 days. While the ATLG is being repaired, the throughput shall be determined by the hourly tank level data averaged from the previous 30 days prior to the discovery of the discrepancy.

In the event of a failure or routine maintenance of the ATLG, the ATLG shall be repaired (if necessary) and put back into service within 10 days of the time that the ATLG failed or was removed from service for maintenance. While the ATLG is being repaired or maintained, the throughput shall be determined by the hourly tank level data averaged from the previous 30 days prior to the time that the ATLG went out of service.

The operator shall keep adequate records to show compliance with the limitations specified in this permit. Such records shall be maintained and kept on file for at least five years and shall be made available to the Executive Office or designee upon request.

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

## **FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL**

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

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

[Devices subject to this condition : D586]

- C6.4 The operator shall use this equipment in such a manner that the differential pressure being monitored, as indicated below, does not exceed 0.25 inches water column.

To comply with this condition, the operator shall install and maintain a(n) differential pressure gauge to accurately indicate the differential pressure across the filter.

The operator shall determine and record the parameter being monitored once every 7 days.

**[RULE 1107, 11-9-2001; RULE 1107, 1-6-2006; RULE 1171, 11-7-2003; RULE 1171, 2-1-2008; RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997; RULE 401, 3-2-1984; RULE 401, 11-9-2001; RULE 481, 1-11-2002]**

[Devices subject to this condition : D696]

- C8.1 The operator shall use this equipment in such a manner that the oxygen concentration being monitored, as indicated below, is not less than 1 percent.

To comply with this condition, the operator shall install and maintain a(n) continuous monitoring system to accurately indicate the oxygen concentration at the convection section or exhaust stack.

**[RULE 2011, 5-6-2005; RULE 2012, 5-6-2005]**

[Devices subject to this condition : D194]

- C8.2 The operator shall use this equipment in such a manner that the temperature being monitored, as indicated below, is not less than 1100 Deg F.

## **FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL**

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

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

The measuring device or gauge shall be accurate to within plus or minus 50 degrees F. It shall be calibrated once every 12 months.

To comply with this condition, the operator shall install and maintain a(n) temperature reading device to accurately indicate the temperature in the combustion chamber.

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

This condition shall only apply when the incinerator is processing absorber venting gases containing H<sub>2</sub>S of 10 ppmv or greater.

**[RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997; RULE 468, 10-8-1976; 40CFR 60 Subpart J, 6-24-2008]**

[Devices subject to this condition : C436, C456]

C8.4 The operator shall use this equipment in such a manner that the flow rate being monitored, as indicated below, is not less than 25 gpm.

To comply with this condition, the operator shall install and maintain a(n) flow meter to accurately indicate the flow rate of the scrubbing solution.

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

The measuring device or gauge shall be accurate to within 0.5 gpm. It shall be calibrated once every 12 months.

The operator shall maintain records of caustic flow rate and meter calibrations for at least three years and make available to District personnel upon request.

**[RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997; RULE 407, 4-2-1982]**

## **FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL**

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

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

[Devices subject to this condition : C1545]

#### **D. Monitoring/Testing Requirements**

D12.1 The operator shall install and maintain a(n) temperature reading device to accurately indicate the temperature at the SCR inlet.

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

[Devices subject to this condition : C830, C1352]

D12.2 The operator shall install and maintain a(n) non-resettable totalizing fuel flow meter to accurately indicate the fuel usage of the equipment.

**[RULE 2011, 5-6-2005; RULE 2012, 5-6-2005]**

[Devices subject to this condition : D194]

D12.3 The operator shall install and maintain a(n) non-resettable elapsed time meter to accurately indicate the elapsed operating time of the engine.

**[RULE 1304(a)-Modeling and Offset Exemption, 6-14-1996]**

[Devices subject to this condition : D675, D676, D677, D678, D679, D680, D681, D683, D1553, D1657, D1658, D1768]

D12.4 The operator shall install and maintain a(n) measuring device to accurately indicate the steam-to-fuel ratio in the gas turbine combustion chamber.

The measuring device or gauge shall be accurate to within plus or minus 5 percent. It shall be calibrated once every 12 months.

## **FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL**

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

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

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

[Devices subject to this condition : D828]

- D12.5 The operator shall install and maintain a(n) continuous monitoring system to accurately indicate the ammonia-to-emitted-NO<sub>x</sub> mole ratio at the inlet of the SCR.

The measuring device or gauge shall be accurate to within plus or minus 5 percent. It shall be calibrated once every 12 months.

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

[Devices subject to this condition : C830, C1773]

- D12.6 The operator shall install and maintain a(n) flow meter to accurately indicate the fuel usage of the gas turbine in SCFH.

The measuring device or gauge shall be accurate to within plus or minus 5 percent. It shall be calibrated once every 12 months.

**[RULE 1303(b)(2)-Offset, 5-10-1996]**

[Devices subject to this condition : D828]

- D12.7 The operator shall install and maintain a(n) flow meter to accurately indicate the fuel usage of the duct burner in SCFH.

The measuring device or gauge shall be accurate to within plus or minus 5 percent. It shall be calibrated once every 12 months.

**[RULE 1303(b)(2)-Offset, 5-10-1996]**

[Devices subject to this condition : D829]

## **FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL**

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

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

D12.9 The operator shall install and maintain a(n) flow meter to accurately indicate the flue gas flow at the stacks each serving this heater.

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

**[RULE 2011, 5-6-2005; RULE 2012, 5-6-2005]**

[Devices subject to this condition : D135, D136, D137, D138, D139]

D12.10 The operator shall install and maintain a(n) 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 1118, 11-4-2005; RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997; 40CFR 60 Subpart A, 5-16-2007]**

[Devices subject to this condition : C706, C723]

D12.13 The operator shall install and maintain a(n) differential pressure gauge to accurately indicate the differential pressure across the filter. The operator shall determine and record the parameter being monitored once per month.

**[RULE 1140, 2-1-1980; RULE 1140, 8-2-1985; RULE 1303(a)(1)-BACT, 5-10-1996;  
RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997; RULE 401, 3-2-1984; RULE 401,  
11-9-2001; RULE 404, 2-7-1986; RULE 405, 2-7-1986]**

[Devices subject to this condition : C695]

D12.14 The operator shall install and maintain a(n) continuous monitoring system to accurately indicate the steam-to-fuel ratio applied to the burners.

## **FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL**

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

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

**[RULE 2012, 5-6-2005]**

[Devices subject to this condition : D154, D155, D156, D157, D158]

D12.15 The operator shall install and maintain a(n) continuous monitoring system to accurately indicate the flue gas flow in the flue gas recirculation line.

**[RULE 2012, 5-6-2005]**

[Devices subject to this condition : D686]

D12.16 The operator shall install and maintain a(n) temperature reading device to accurately indicate the temperature at the SCR inlet.

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

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

[Devices subject to this condition : C1773]

D12.17 The operator shall install and maintain a(n) flow meter to accurately indicate the flow rate of the injected ammonia in lb/hr.

The operator shall continuously record the flow rate with a measuring device or gauge accurate to within +/- 5 percent, calibrated once every 12 months.

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

[Devices subject to this condition : C1773]

## FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL

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

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

D28.1 The operator shall conduct source test(s) in accordance with the following specifications:

The test shall be conducted to determine the flow rate at the outlet.

The test shall be conducted to determine the oxygen concentration at the outlet.

The test shall be conducted to determine the CO emissions at the outlet.

The test shall be conducted to demonstrate compliance with 40CFR60, Appendix A (latest version) and method approved by AQMD.

The test shall be conducted to determine the total PM emissions at the outlet.

The test shall be conducted to determine the SOX emissions at the outlet.

The test shall be conducted to determine the moisture content at the outlet.

Source test shall be conducted when this equipment is operating at no less than 80 percent of the maximum production rate.

The District shall be notified of the date and time of the test at least 10 days prior to the test.

The test shall be conducted to determine the ROG emissions at the outlet.

The test shall be conducted at least once every three years.

The test shall be conducted within 60 days after achieving maximum production rate, but no later than 180 days after initial start-up.

The test shall be conducted to determine the NOX emissions at the outlet.

The test shall be conducted to determine the PM10 emissions at the outlet.

## **FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL**

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

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

**[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(b)(2)-Offset, 5-10-1996; RULE 2005, 5-6-2005; RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997; RULE 407, 4-2-1982]**

[Devices subject to this condition : D194]

D28.4 The operator shall conduct source test(s) in accordance with the following specifications:

The test shall be conducted at least once every three years.

The test shall be conducted to determine emission rates of NOX, SOX, ROG, CO, PM, and PM10. The operator shall submit a test protocol to the District at least 60 days prior to the initial test. The initial and annual tests shall be conducted according to the approved test protocol or any subsequently approved revisions.

The test shall be conducted within 120 days after achieving maximum production rate, but no later than 180 days after initial start-up.

The District shall be notified of the date and time of the test at least 10 days prior to the test.

The test shall be conducted with the equipment operating at least 80 percent of the permitted maximum capacity or within a capacity range approved by the District. Report of the test and operating condition of the equipment shall be submitted to the District within 60 days after the test.

**[RULE 1301, 12-7-1995; RULE 2005, 5-6-2005]**

[Devices subject to this condition : D135, D136, D137, D138, D139]

D28.5 The operator shall conduct source test(s) in accordance with the following specifications:

## **FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL**

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

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

The test shall be conducted at least once every three years.

The test shall be conducted within 120 days after achieving maximum production rate, but no later than 180 days after initial start-up.

The test shall be conducted to determine emission rate of NOX, SOX, ROG, CO, PM, and PM10. The operator shall submit a test protocol to the District at least 60 days prior to the initial testing. The initial and subsequent tests shall be conducted according to the approved test protocol or any subsequently approved revisions.

The District shall be notified of the date and time of the test at least 10 days prior to the test.

Source test shall be conducted when this equipment is operating at least 80 percent of the permitted maximum capacity or within a capacity range approved by the District. Report of the test and operating condition of the equipment shall be submitted to the District within 60 days after the test.

**[RULE 1301, 12-7-1995; RULE 2005, 5-6-2005]**

[Devices subject to this condition : D146]

D28.6 The operator shall conduct source test(s) in accordance with the following specifications:

The test shall be conducted once every three years to determine the CO and PM emissions.

**[RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997; RULE 404, 2-7-1986; RULE 407, 4-2-1982; RULE 409, 8-7-1981]**

[Devices subject to this condition : C436, C456]

## **FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL**

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

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

D28.8 The operator shall conduct source test(s) in accordance with the following specifications:

## **FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL**

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

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

The test shall be conducted to determine and report the high heating value in BTU per SCF, of fuel gas supplied to the gas turbine and duct burner.

The test shall be conducted to determine and report the NO<sub>x</sub> emission factor in lb per MMBtu of rated maximum heat input, from the inlet and outlet of the SCR unit.

The test shall be conducted to determine and report the mass emission rate for ROG, NO<sub>x</sub>, SO<sub>x</sub>, CO, total PM, and PM<sub>10</sub>.

The test shall be conducted to determine and report the flue gas flow rate in DSCF per hour, from the SCR unit outlet.

The test shall be conducted without the operation of the duct burner when the gas turbine is fired with butane gas.

The test shall be conducted to determine and report the moisture in percent, from the SCR unit outlet.

The District shall be notified of the date and time of the test at least 7 days prior to the test.

The test shall be conducted to determine and report the concentration for ROG, NO<sub>x</sub>, SO<sub>x</sub>, CO, total PM, and PM<sub>10</sub>, corrected to 15 percent oxygen, dry basis.

The test shall be conducted to determine and report the excess oxygen in percent dry basis, from the SCR unit outlet.

The test shall be conducted at least annually.

The test shall be conducted within 60 days after achieving maximum production rate, but no later than 180 days after initial start-up.

Source test shall be conducted when this equipment is operating at 80 percent or greater of the permitted maximum rated capacity (initial and subsequent annual tests).

## **FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL**

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

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

The test shall be conducted with and without the operation of the duct burner when the gas turbine is fired with refinery gas.

Source test shall be conducted when this equipment is operating with fuels used at normal conditions (subsequent annual tests only).

**[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(b)(2)-Offset, 5-10-1996; RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997; RULE 407, 4-2-1982]**

[Devices subject to this condition : D828, D829]

D28.11 The operator shall conduct source test(s) in accordance with the following specifications:

The test shall be conducted once every three years to determine the PM emissions at the outlet.

**[RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997; RULE 404, 2-7-1986]**

[Devices subject to this condition : D220, D329, D687]

D28.12 The operator shall conduct source test(s) in accordance with the following specifications:

## **FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL**

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

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

The test shall be conducted to determine emission rates of NOX, SOX, ROG and CO at the outlet of the ESPs.

The test shall be conducted to determine emission rates of PM and PM10 at the inlet and outlet of the ESPs simultaneously.

The test shall be conducted to determine the oxygen (%), the carbon dioxide (%) and moisture content in the exhaust gas, and exhaust flow rate.

The test shall be conducted according to the approved test protocol or any subsequently approved revisions. The operator shall submit a test protocol to the District at least 60 days prior to the test.

The test shall be conducted within 120 days after achieving maximum production rate, but no later than 180 days after initial start-up.

The District shall be notified of the date and time of the test at least 10 days prior to the test.

The test shall be conducted with the equipment operating at least 80 percent of the permitted maximum capacity or within a capacity range approved by the District.

**[RULE 1303(b)(2)-Offset, 5-10-1996; RULE 2005, 5-6-2005]**

[Devices subject to this condition : D1]

D28.13 The operator shall conduct source test(s) in accordance with the following specifications:

## **FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL**

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

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

The test shall be conducted to determine emission rates of NOX, SOX, ROG, CO, PM, and PM10, both with and without steam injection within the design operating range. The operator shall submit a test protocol to the District at least 60 days prior to the test. The tests shall be conducted according to the approved test protocol or any subsequently approved revisions.

The test shall be conducted within 120 days after achieving maximum production rate, but no later than 180 days after initial start-up.

The District shall be notified of the date and time of the test at least 10 days prior to the test.

The test shall be conducted with the equipment operating at least 80 percent of the permitted maximum capacity or within a capacity range approved by the District. Report of the test and operating condition of the equipment shall be submitted to the District within 60 days after the test. Emission limits for CO and ROG under NSR applicability will be re-evaluated based on test result.

**[RULE 1301, 12-7-1995; RULE 2005, 5-6-2005]**

[Devices subject to this condition : D154, D155, D156, D157, D158]

D28.16 The operator shall conduct source test(s) in accordance with the following specifications:

The District shall be notified of the date and time of the test at least 10 days prior to the test.

The test shall be conducted with the equipment operating at least 80 percent of the permitted maximum capacity or within a capacity range approved by the District. Report of the test and operating condition of the equipment shall be submitted to the District within 60 days after the test.

The test shall be conducted at least once every three years for acid mist, CO, and PM.

## **FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL**

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

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

**[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(b)(2)-Offset, 5-10-1996; RULE 2005, 5-6-2005; RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997; RULE 407, 4-2-1982; RULE 469, 5-7-1976; RULE 469, 2-13-1981]**

[Devices subject to this condition : D333]

D28.17 The operator shall conduct source test(s) in accordance with the following specifications:

The test shall be conducted annually to determine the NH<sub>3</sub> emission.

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

[Devices subject to this condition : C221]

D28.18 The operator shall conduct source test(s) in accordance with the following specifications:

The test shall be conducted annually to determine the NH<sub>3</sub> emission.

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

[Devices subject to this condition : C830]

D28.19 The operator shall conduct source test(s) in accordance with the following specifications:

The test shall be conducted to determine and report the control efficiency of the CO catalyst unit (initial test only).

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

## FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL

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

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

[Devices subject to this condition : C832]

D29.1 The operator shall conduct source test(s) for the pollutant(s) identified below.

Pollutant(s) to be tested	Required Test Method(s)	Averaging Time	Test Location
PM emissions	Approved District method	District-approved averaging time	Outlet of the ESP

The test(s) shall be conducted at least annually.

The test shall be conducted when the equipment is operating under normal conditions.

Source test result shall be submitted to the District no later than 60 days after the source test was conducted

Source test result shall include the following parameters: FCCU feed rate; catalyst recirculation rate; coke burn rate; oxygen content of exhaust gases; exhaust flow rate; exhaust gas moisture content; the flue gas temperature at the outlet of the ESP; and the average secondary voltage and current (or total power input), and the average spark rate at each of the ESP fields

**[RULE 1105.1, 11-7-2003; RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997; RULE 404, 2-7-1986; RULE 405, 2-7-1986; 40CFR 60 Subpart J, 6-24-2008]**

[Devices subject to this condition : D1]

D29.2 The operator shall conduct source test(s) for the pollutant(s) identified below.

Pollutant(s) to be tested	Required Test Method(s)	Averaging Time	Test Location
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## FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL

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

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

ROG emissions	Approved District method	District-approved averaging time	Outlet of SCR
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The test shall be conducted to determine ROG emission rates at the outlet of the SCR in ppmv and in lb/hr.

The test shall be conducted to determine the following parameters: the oxygen content (%), the carbon dioxide (%) and the moisture content in the exhaust gas; exhaust flow rate; and boiler firing rate.

The test shall be conducted with the equipment operating at least 80 percent of the permitted maximum capacity or within a capacity range approved by the District.

The test(s) shall be conducted at least every 5 years.

**[RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002; RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997]**

[Devices subject to this condition : D154, D155, D156, D686]

D29.6 The operator shall conduct source test(s) for the pollutant(s) identified below.

Pollutant(s) to be tested	Required Test Method(s)	Averaging Time	Test Location
NH3 emissions	Approved District method	1 hour	Outlet of SCR

## FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL

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

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

The test shall be conducted to determine NH<sub>3</sub> emission rates at the outlet of the SCR in ppmv corrected to 3% O<sub>2</sub> and in lb/hr.

The test shall be conducted to determine the ammonia-to-emitted-NO<sub>x</sub> mole ratio using outlet NO<sub>x</sub> CEMS and ammonia injection rate.

The test shall be conducted at least annually.

The test shall be conducted to determine the following parameters: the oxygen content (%), the carbon dioxide (%) and the moisture content in the exhaust gas; exhaust flow rate; boiler firing rate, SCR inlet temperature and ammonia injection rate.

The test shall be conducted when the combustion equipment vented to the SCR is operating at least 80 percent of the permitted maximum capacity or within a capacity range approved by the District, with ammonia injection.

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

[Devices subject to this condition : C1773]

D29.12 The operator shall conduct source test(s) for the pollutant(s) identified below.

Pollutant(s) to be tested	Required Test Method(s)	Averaging Time	Test Location
CO emissions	Approved District method	District-approved averaging time	Outlet of SCR
PM10 emissions	Approved District method	District-approved averaging time	Outlet of SCR
ROG emissions	Approved District method	District-approved averaging time	Outlet of SCR

## FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL

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

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

The test shall be conducted to determine emission rates of CO, PM10, and ROG at the outlet of the SCR in lb/hr and also in ppmv, corrected to 3% oxygen, dry basis.

The test shall be conducted when PSA offgas is being supplied to the furnace. Record and report the PSA offgas flow rate and the total firing rate, which is the sum of the firing rates from natural gas, refinery fuel gas, and/or PSA offgas combusted in the furnace of this equipment.

The test shall be conducted when the equipment vented to the SCR is operating at least 80 percent of the permitted maximum capacity or within a capacity range approved by the District.

The test shall be conducted at least annually.

In addition to the source test requirements of Section E of this facility permit, the facility permit holder shall submit the protocol to the AQMD engineer no later than 45 days prior to the proposed test date, and notify the District of the date and time of the test at least 10 days prior to the test. The test shall be conducted according to the approved test protocol or any subsequently approved revisions. The source test results shall be submitted to the District no later than 60 days after the source test was conducted.

**[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(b)(2)-Offset, 5-10-1996; RULE 2005, 10-15-1993; RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997; RULE 407, 4-2-1982]**

[Devices subject to this condition : D1349]

D29.13 The operator shall conduct source test(s) for the pollutant(s) identified below.

Pollutant(s) to be tested	Required Test Method(s)	Averaging Time	Test Location
NH3 emissions	Approved District method	District-approved averaging time	Outlet of SCR

## **FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL**

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

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

The test shall be conducted to determine NH<sub>3</sub> emission rates at the outlet of the SCR in ppmv corrected to 3% O<sub>2</sub> and in lb/hr.

The test shall be conducted when the equipment vented to the SCR is operating at least 80 percent of the permitted maximum capacity or within a capacity range approved by the District.

The test shall be conducted at least annually.

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

[Devices subject to this condition : C1352]

D82.1 The operator shall install and maintain a CEMS to measure the following parameters:

CO concentration in ppmv

Oxygen concentration in percent volume

The CEMS shall be installed to measure mass flow rate for flue gas

The CEMS shall be installed in accordance with Rule 218

Concentrations shall be corrected to 15 percent oxygen on a dry basis.

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

[Devices subject to this condition : C832]

D82.2 The operator shall install and maintain a CEMS to measure the following parameters:

## **FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL**

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

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

NOX concentration in ppmv

SOX concentration in ppmv

Concentrations shall be corrected to 15 percent oxygen on a dry basis.

Oxygen concentration in percent volume

The CEMS will convert the actual NO<sub>x</sub> and SO<sub>x</sub> concentrations to mass emission rates (lbs/hr) and record the hourly emission rates on a continuous basis.

The CEMS shall be installed to determine the flue gas flow rate

The CEMS shall be installed in accordance with Rules 2011 and 2012

**[RULE 2011, 5-6-2005; RULE 2012, 5-6-2005]**

[Devices subject to this condition : C830]

D82.4 The operator shall install and maintain a CEMS to measure the following parameters:

SOX concentration in ppmv

Oxygen concentration in percent volume

Concentrations shall be corrected to zero percent excess air on a dry basis.

The CEMS shall be installed in accordance with the requirements of the 40CFR60 Subpart J with an appropriate range approved by the AQMD

**[40CFR 60 Subpart J, 6-24-2008; CONSENT DECREE CIVIL NO. H-05-0258,  
8-11-2008]**

## **FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL**

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

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

[Devices subject to this condition : C436, C456]

D82.5 The operator shall install and maintain a CEMS to measure the following parameters:

1. CO
2. O2

**[40CFR 60 Subpart J, 6-24-2008; CONSENT DECREE CIVIL NO. H-05-0258,  
8-11-2008]**

[Devices subject to this condition : D1]

D82.6 The operator shall install and maintain a CEMS to measure the following parameters:

SOX concentration in ppmv

Oxygen concentration in percent volume

Concentrations shall be corrected to zero percent excess air on a dry basis.

The CEMS shall be installed in accordance with the requirements of the 40CFR60 Subpart J with an appropriate range approved by the AQMD

**[40CFR 60 Subpart J, 6-24-2008]**

[Devices subject to this condition : D828, D829, D1349]

## **FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL**

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

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

D90.3 The operator shall periodically monitor the VOC concentration at the outlet of the carbon adsorber according to the following specifications:

The operator shall monitor once every day.

The operator shall use a District approved organic vapor analyzer to monitor the parameter.

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

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

[Devices subject to this condition : C520, C522, C524, C526, C528]

D90.5 The operator shall periodically monitor the sulfur compounds concentration at the outlet of the scrubber according to the following specifications:

The operator shall monitor once every day when equipment is in operation.

The operator shall maintain records for at least five years and make available to District personnel upon request.

**[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997; RULE 407, 4-2-1982]**

[Devices subject to this condition : C1545]

D90.6 The operator shall periodically monitor the VOC concentration at the outlet of the carbon adsorber system according to the following specifications:

## **FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL**

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

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

The operator shall use a District approved Organic Vapor Analyzer (OVA) to monitor the parameter.

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

The operator shall monitor once every day when equipment is in service.

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

[Devices subject to this condition : C1678]

D90.7 The operator shall periodically monitor the sulfur compounds concentration at the vent pipe of this tank according to the following specifications:

The operator shall monitor once every week when the equipment is in operation. The operator shall maintain records for at least five years and make available to District personnel upon request.

**[RULE 407, 4-2-1982]**

[Devices subject to this condition : D1682, D1709, D1711, D1712]

D90.10 The operator shall continuously monitor the H<sub>2</sub>S concentration in the fuel gases before being burned in this device according to the following specifications:

The operator shall use H<sub>2</sub>S fuel gas monitoring system meeting the requirements of 40CFR60 Subpart J to monitor the parameter.

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

The operator may monitor the H<sub>2</sub>S concentration at a single location for fuel combustion devices, if monitoring at this location accurately represents the concentration of H<sub>2</sub>S in the fuel gas being burned in this device.

## **FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL**

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

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

**[40CFR 60 Subpart J, 6-24-2008]**

[Devices subject to this condition : D687]

D90.13 The operator shall periodically monitor the VOC concentration at the outlet of the carbon adsorber according to the following specifications:

The operator shall monitor once every day.

The operator shall use a District approved organic vapor analyzer to monitor the parameter.

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

**[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002; RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997]**

[Devices subject to this condition : C530, C1343]

D135.1 The operator shall inspect, adjust, and certify the ignition or fuel injection timing of this engine a minimum of once every 3 years of operation. Inspections, adjustments, and certifications shall be performed by a qualified mechanic and performed in accordance with the engine manufacturer's specifications and procedures.

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

[Devices subject to this condition : D670, D675, D676, D677, D678, D679, D680, D681, D1553, D1657, D1658, D1768]

D182.4 The operator shall test this equipment in accordance with the following specifications:

## **FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL**

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

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

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 during each filling operation of the storage silo. The inspection during the filling operation shall be conducted during daylight hours

If any visible emissions are detected, the operator shall stop the filling operation and take corrective action(s) that eliminates the visible emissions and report the visible emissions as a potential deviation in accordance with the reporting requirements in Section K of this permit

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; and
- 3) Date and time visible emissions was abated

**[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997; RULE 401, 3-2-1984; RULE 401, 11-9-2001]**

[Devices subject to this condition : D1695, D1697]

D232.1 The operator shall install and maintain a continuous emission monitoring device to accurately indicate the H<sub>2</sub>S concentration at the fuel inlet to the combustion device pursuant to 40CFR60 Subpart J. Compliance with the fuel gas H<sub>2</sub>S concentration can alternately be determined by measuring the SO<sub>2</sub> emissions at the outlet of the device and complying with the 20 ppmv (dry basis, zero percent excess air) SO<sub>2</sub> limit allowed by 40CFR60 Subpart J. The measurement may be performed at a single device that shares a common source of fuel gas.

## **FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL**

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

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

This condition shall become effective after EPA's determination on the Alternative Monitoring Plan (AMP) submitted on March 31, 2005. Within 180 days of EPA's determination on the AMP, the operator shall comply with all the requirements of the EPA-approved AMP or the monitoring requirements of 40CFR60 Subpart J specified in this condition.

**[40CFR 60 Subpart J, 6-24-2008; CONSENT DECREE CIVIL NO. H-05-0258, 8-11-2008]**

[Devices subject to this condition : D39, D41, D42, D129, D133, D135, D136, D137, D138, D139, D142, D146, D148, D150, D152, D154, D155, D156, D157, D158, D161, D163, D194, D220, D259, D260, D262, D264, D684, D686, D688]

D232.2 The operator shall install and maintain a continuous emission monitoring device to accurately indicate the H<sub>2</sub>S concentration at the fuel inlet to the combustion device pursuant to 40CFR60 Subpart J. Compliance with the fuel gas H<sub>2</sub>S concentration can alternately be determined by measuring the SO<sub>2</sub> emissions at the outlet of the device and complying with the 20 ppmv (dry basis, zero percent excess air) SO<sub>2</sub> limit allowed by 40CFR60 Subpart J. The measurement may be performed at a single device that shares a common source of fuel gas.

This condition shall become effective after EPA's determination on the Alternative Monitoring Plan (AMP) submitted on March 31, 2005. Within 180 days of EPA's determination on the AMP, the operator shall comply with all the requirements of the EPA-approved AMP or the monitoring requirements of 40CFR60 Subpart J specified in this condition.

**[40CFR 60 Subpart J, 6-24-2008; CONSENT DECREE CIVIL NO. H-05-0258, 8-11-2008]**

[Devices subject to this condition : D329]

D322.1 The operator shall perform annual inspection of the equipment and filter media for leaks, broken or torn filter media, and improperly installed filter media.

## **FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL**

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

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

**[RULE 1140, 2-1-1980; RULE 1140, 8-2-1985; RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997; RULE 401, 3-2-1984; RULE 401, 11-9-2001; RULE 404, 2-7-1986; RULE 405, 2-7-1986]**

[Devices subject to this condition : C695]

D322.2 The operator shall perform a weekly inspection of the equipment and filter media for leaks, broken or torn filter media, and improperly installed filter media.

**[RULE 1107, 11-9-2001; RULE 1107, 1-6-2006; RULE 1171, 11-7-2003; RULE 1171, 2-1-2008; RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997; RULE 401, 3-2-1984; RULE 401, 11-9-2001; RULE 481, 1-11-2002]**

[Devices subject to this condition : D696]

D322.3 The operator shall perform annual inspection of the equipment and filter media for leaks, broken or torn filter media, and improperly installed filter media.

To comply with this condition, the operator shall maintain records in a manner approved by the District, to demonstrate compliance with this condition..

**[RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997; RULE 401, 3-2-1984; RULE 401, 11-9-2001; RULE 404, 2-7-1986; RULE 405, 2-7-1986]**

[Devices subject to this condition : C1696, C1698]

## **FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL**

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

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

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 an annual basis, at least, unless the equipment did not operate during the entire annual period. The routine annual inspection shall be conducted while the equipment is in operation and during daylight hours.

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

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

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

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

## **FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL**

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

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

**[RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997; RULE 401, 3-2-1984; RULE 401, 11-9-2001]**

**[Devices subject to this condition : D12, D13, D14, D1717]**

## **FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL**

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

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

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 semi-annual basis, at least, unless the equipment did not operate during the entire semi-annual period. The routine semi-annual inspection shall be conducted while the equipment is in operation and during daylight hours.

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

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

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

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

## **FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL**

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

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

**[RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997; RULE 401, 3-2-1984; RULE 401, 11-9-2001]**

**[Devices subject to this condition : D694, C723, C735, C736, C748]**

## **FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL**

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

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

D323.3 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 quarterly basis, at least, unless the equipment did not operate during the entire quarterly period. The routine quarterly 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.

## **FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL**

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

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

**[RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997; RULE 401, 3-2-1984; RULE 401, 11-9-2001]**

[Devices subject to this condition : C695]

## **FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL**

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

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

D323.4 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 monthly basis, at least, unless the equipment did not operate during the entire monthly period. The routine monthly 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.

## **FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL**

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

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

**[RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997; RULE 401, 3-2-1984; RULE 401, 11-9-2001]**

[Devices subject to this condition : D1674]

## **FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL**

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

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

D323.5 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.

## **FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL**

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

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

**[RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997; RULE 401, 3-2-1984; RULE 401, 11-9-2001]**

[Devices subject to this condition : D333]

## FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL

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

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

D323.6 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 weekly basis, at least, unless the equipment did not operate during the entire weekly period. The routine 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.

## **FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL**

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

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

**[RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997; RULE 401, 3-2-1984; RULE 401, 11-9-2001]**

[Devices subject to this condition : D1]

## **FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL**

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

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

D323.7 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 daily basis, at least, unless the equipment did not operate during the entire daily period. The routine daily 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.

## **FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL**

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

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

**[RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997; RULE 401, 3-2-1984; RULE 401, 11-9-2001]**

[Devices subject to this condition : D44]

D328.1 The operator shall determine compliance with the CO emission limit(s) either: (a) conducting a source test at least once every five years using AQMD Method 100.1 or 10.1; or (b) conducting a test at least annually using a portable analyzer and AQMD-approved test method. The test shall be conducted when the equipment is operating under normal conditions to demonstrate compliance with the CO emission limit(s). The operator shall comply with all general testing, reporting, and recordkeeping requirements in Sections E and K of this permit.

**[RULE 1146, 11-17-2000; RULE 1146, 9-5-2008; RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997; RULE 407, 4-2-1982]**

[Devices subject to this condition : D1, D39, D40, D42, D44, D129, D133, D135, D136, D137, D138, D139, D142, D146, D148, D150, D152, D158, D161, D163, D194, D259, D260, D262, D329, D332, D333, C436, C456, D828, D829, D1349]

D328.2 The operator shall determine compliance with the CO emission limit(s) either: (a) conducting a source test at least once every five years using AQMD Method 100.1 or 10.1; or (b) conducting a test at least annually using a portable analyzer and AQMD-approved test method. The test shall be conducted when the equipment is operating under normal conditions to demonstrate compliance with the CO emission limit(s). The operator shall comply with all general testing, reporting, and recordkeeping requirements in Sections E and K of this permit.

**[RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997; RULE 407, 4-2-1982]**

[Devices subject to this condition : D41, D154, D155, D156, D157, D220, D264, D684, D686, D687, D688]

## FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL

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

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

#### **E. Equipment Operation/Construction Requirements**

E54.2 The operator is not required to vent this equipment to the following equipment if all of the requirements listed below are met:

Device ID: C221 [SELECTIVE CATALYTIC REDUCTION]

Requirement number 1: During the startup and shutdown intervals when the flue gas temperature is less than 550 degrees F

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

[Devices subject to this condition : D220]

E54.3 The operator is not required to vent this equipment to the following equipment if any of the requirements listed below are met:

Device ID: C1352 [SELECTIVE CATALYTIC REDUCTION]

Requirement number 1: During startup or shutdown period

Requirement number 2: During the refractory dry-out period (up to 150 consecutive hours) to allow the curing of refractory materials, during which time no production of hydrogen shall occur

Requirement number 3: The heater exhaust is below 600 degrees F

**[RULE 2005, 5-6-2005]**

[Devices subject to this condition : D1349]

E54.4 The operator is not required to vent this equipment to the following equipment if all of the requirements listed below are met:

## FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL

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

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

Requirement number 1: During periods of startup, shutdown, or on-line fuel transfer

Device ID: C832 [CO OXIDATION CATALYST, ME-109, ENGELHARD, 160 CF, 22 IN W X 218 IN L X 492 IN H, HONEYCOMB PLATINUM TYPE OR EQUIVALENT]

Device ID: C830 [SELECTIVE CATALYTIC REDUCTION, ME-108, ISHIKAWAJIMA-HARIMA INDUSTRIES, HONEYCOMB ZEOLITE TYPE, FOLLOWING STEAM INJECTION CONTROL (TURBINE COMBUSTOR)]

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

[Devices subject to this condition : D828]

- E57.1 The operator shall vent this equipment to both North and South Electrostatic Precipitators whenever the FCC unit is in operation.

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

[Devices subject to this condition : D1715, D1716]

- E57.2 The operator shall vent this equipment to the superheater B-211 through the Merox Off Gas KO Pot F-210 whenever this equipment and the superheater are in operation. Merox off gases shall not be vented to the flare through control valve PV256 except during shutdown of the superheater or off gas burner maintenance.

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

[Devices subject to this condition : D308]

- E57.3 The operator shall vent this equipment to the refinery flare vapor recovery system whenever this equipment is in normal operation.

## **FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL**

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

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

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

[Devices subject to this condition : D1367]

E57.4 The operator shall vent this equipment to the incinerator whenever this equipment is in operation.

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

[Devices subject to this condition : D428, D451]

E57.5 The operator shall vent this equipment to the refinery vapor recovery system whenever this equipment is in operation.

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

[Devices subject to this condition : D86]

E57.6 The operator shall vent this equipment to either one of the H<sub>2</sub>S absorbers D101, D102, or D103 (Device D389, D390, or D391) in Unit 110E (Process 9, System 3) whenever this equipment is in normal operation.

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

[Devices subject to this condition : D92, D99]

E71.1 The operator shall only use this equipment during start-up.

**[RULE 1303(b)(2)-Offset, 5-10-1996]**

## **FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL**

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

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

[Devices subject to this condition : D44]

E71.2 The operator shall only inject ammonia into this equipment if the flue gas inlet temperature is at least 600 degrees F.

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

[Devices subject to this condition : C830, C1352]

E71.3 The operator shall only use natural gas and butane in this equipment during the periods of startup.

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

[Devices subject to this condition : D828]

E71.4 The operator shall only use this equipment for storing Mixed Pentanes except that during Tank 304 shutdown for maintenance, Organic Liquid from Tank 304 shall be stored in this tank.

**[RULE 1303(b)(2)-Offset, 5-10-1996]**

[Devices subject to this condition : D1378]

E71.5 The operator shall not use this equipment for silica type abrasive blasting process.

[RULE 1401, 3-7-2008]

[Devices subject to this condition : D694]

## **FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL**

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

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

- E71.6 The operator shall not operate this equipment to process organic vapor unless the connection to the flare header is equipped with a block valve with a car seal or equivalent as approved in writing by the District prior to installation. The valve shall be closed at all times except during startup, shutdown, or scheduled maintenance. The operator shall maintain record of startup, shutdown, or scheduled maintenance in a manner approved by the District and make the record available to District personnel upon request.

**[RULE 1303(b)(2)-Offset, 5-10-1996]**

[Devices subject to this condition : D92, D99, D1667, D1668, D1669, D1670]

- E71.7 The operator shall not use this equipment to store hydrocarbon unless the relief pressure of the control valve venting to a flare gas recovery system is set at 62 psig or higher.

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

[Devices subject to this condition : D644, D645, D646]

- E71.8 The operator shall not use this equipment to store hydrocarbon unless the storage vapor temperature is maintained at 85 degree F or less. The operator shall install a temperature gauge for this equipment to show compliance with this condition.

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

[Devices subject to this condition : D644, D645, D646]

- E71.11 The operator shall not use this equipment to store hydrocarbon unless the relief pressure of the control valve venting to the LPG flare is set at 75 psig or higher.

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

## **FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL**

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

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

[Devices subject to this condition : D661, D662]

- E71.13 The operator shall not use this equipment to store hydrocarbon unless the storage vapor temperature is maintained at 95 degree F or less. The operator shall install a temperature gauge for this equipment to show compliance with this condition.

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

[Devices subject to this condition : D661, D662]

- E71.15 The operator shall only use this equipment to store C4, C5, or any mixture of C3,C4,and C5 with true vapor pressure not exceeding 61.8 psig at 85 degree F.

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

[Devices subject to this condition : D644, D645, D646]

- E71.16 The operator shall only use this equipment to store C4, C5, or any mixture of C3,C4,and C5 with true vapor pressure not exceeding 73.4 psig at 95 degree F.

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

[Devices subject to this condition : D661, D662]

- E71.17 The operator shall not use this equipment to load additive unless the loading rate is less than or equal to 100 pounds per day for DeNOX and 150 pounds per day for DeSOX additives.

**[RULE 1303(b)(2)-Offset, 5-10-1996]**

[Devices subject to this condition : D1674]

## **FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL**

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

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

E71.18 The operator shall not operate this equipment to load spent alkylation acid unless the temperature of the combustion chamber (device ID D333) is maintained above 1650 degree F and the oxygen content in the exhaust gas from the stack (device ID S351) is maintained above 1.5 percent by volume except when the vent gas is routed to the backup air pollution control system.

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

[Devices subject to this condition : D1380]

E71.19 The operator shall not use this equipment to store hydrocarbon unless the relief pressure of the control valve PV202B is set at 58 psig or higher and the nitrogen blanket gas control valve PV202A is set at 3 psig or higher.

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

[Devices subject to this condition : D1367]

E71.20 The operator shall not operate this equipment to receive vent gas unless the NaOH concentration in the caustic solution is equal to 5 percent by weight or more. The operator shall install and maintain a continuous NaOH monitor with alarm to accurately indicate and record the NaOH concentration in the scrubbing solution at the inlet of the scrubber at all times that vent gas is routed to this equipment. Monitoring is not required when the scrubber is not receiving vent gas. Records shall be maintained and made available to District personnel upon request.

**[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 3004(a)(4)-Periodic Monitoring,  
12-12-1997; RULE 407, 4-2-1982]**

[Devices subject to this condition : C1545]

## **FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL**

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

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

E71.21 The operator shall not use this equipment to store hydrocarbon unless the storage vapor temperature is maintained at 90 degree F or less. The operator shall install a temperature gauge readable at ground level for this equipment to show compliance with this condition.

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

[Devices subject to this condition : D1367]

E71.22 The operator shall only use this equipment to store C4 and C5 with total vapor pressure not exceeding 57.0 psig at 90 degree F.

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

[Devices subject to this condition : D1367]

E73.1 Notwithstanding the requirements of Section E conditions, the operator shall not use the duct burner if any of the following requirement(s) are met:

Butane gas is used in the gas turbine.

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

[Devices subject to this condition : D829]

E73.2 Notwithstanding the requirements of Section E conditions, the operator may, at his discretion, choose not to use steam injection if any of the following requirement(s) are met:

During startup, shutdown, or on-line fuel transfer

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

## FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL

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

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

[Devices subject to this condition : D828]

E73.3 Notwithstanding the requirements of Section E conditions, the operator is not required to use reformer heater 118-H-401 (D1349) as an air pollution control device and can vent to atmosphere for a period not to exceed 4 hours in any 24-hour period and only during emergencies meeting any one of the conditions as identified below:

1. High liquid level in deaerator V-206 - of the HH level is reached with the furnace operating, or
2. High level in the liquid trap located immediately upstream of the furnace vent connections - if the HH level is reached with the furnace operating , or
3. Low level in either condensate separator V-403 or V-412 - if the LL level is reached with the furnace operating

This condition shall only apply when feed gas that is used in hydrogen production is being supplied to the process.

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

[Devices subject to this condition : D772]

E73.6 Notwithstanding the requirements of Section E conditions, the operator is not required to use reformer heater 118-H-401 (D1349) as an air pollution control device for PSA offgas from PSA holding tank 110-V-421 (D786) if any of the following requirement(s) are met::

1. During startup, shutdown or process upset, PSA offgas is directed to a vapor recovery system and/or blowdown flare system.
2. During an emergency, PSA offgas is vented to the atmosphere.

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

## **FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL**

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

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

[Devices subject to this condition : D786]

E102.1 The operator shall discharge dust collected in this equipment only into closed containers.

**[RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997; RULE 401, 3-2-1984; RULE 401, 11-9-2001]**

[Devices subject to this condition : C695, D1716]

E128.1 The operator shall keep all spent carbon in a tightly covered container which shall remain closed except when it is being transferred into or out of the container.

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

[Devices subject to this condition : C1343]

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, 5-10-1996]**

[Devices subject to this condition : D825]

E153.1 The operator shall change over the spent carbon with fresh activated carbon in the adsorber whenever breakthrough occurs.

For the purpose of this condition, breakthrough occurs when the hydrocarbon monitor reading indicates a concentration of 500 ppmv at the outlet of the carbon canister. (The 500 ppmv refers to VOCs).

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

## **FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL**

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

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

[Devices subject to this condition : C520, C522, C524, C526, C528, C530]

E153.2 The operator shall change over the spent carbon with fresh activated carbon in the adsorber whenever breakthrough occurs.

For the purpose of this condition, breakthrough occurs when the hydrocarbon monitor reading indicates a concentration of 500 ppmv at the outlet of the carbon adsorber (the 500 ppmv refers to VOC measured by EPA Reference Method 21).

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

[Devices subject to this condition : C1343, C1678]

E193.2 The operator shall construct this equipment according to the following specifications:

Sampling ports shall be provided in accordance with EPA Source Test Method 201A for determination of PM10 emissions

**[RULE 1303(b)(2)-Offset, 5-10-1996]**

[Devices subject to this condition : D828]

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

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

The operator shall install, operate and maintain a stack gas flow meter at the flare stack in according to the Rule 1118 compliance plan approved by the District.

The operator shall install, operate and maintain a flare gas sampling port/facility at a location upstream of the Merox off-gas connection in according to the Rule 1118 compliance plan approved by the District.

## **FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL**

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

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

**[40CFR 60 Subpart A, 5-16-2007]**

[Devices subject to this condition : C706, C723, C748]

E193.5 The operator shall construct this equipment according to the following specifications:

The compressor seal system shall be vented to an air pollution control system which is in full use and has a valid permit to receive vent gases from this system.

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

[Devices subject to this condition : D94]

E225.1 The operator shall install and maintain an on/off light to indicate the operational status of the control equipment venting this equipment. The on/off light shall be easily observable and its location be made known to the persons in charge of maintenance.

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

[Devices subject to this condition : D1546, D1675]

E226.1 The following condition number(s) shall only apply if all of the requirement(s) stated below are met:

Requirement 1: During the startup, shutdown, or on-line fuel transfer periods

Condition Number A 195- 2

Condition Number A 195- 3

**[RULE 2005, 5-6-2005]**

## **FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL**

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

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

[Devices subject to this condition : D828]

E336.1 The operator shall vent the vent gases from this equipment as follows:

All vent gases under normal operating conditions shall be directed to a reactor combustion chamber B-104 (Device D333).

All vent gases during shutdown of the combustion chamber B-104 (Device D333) or routine maintenance of associated equipment shall be directed to a caustic scrubber F-404 (Device C1545) in tandem with a carbon adsorber (Device C1678) with at least one series of adsorbers in operation.

This equipment shall not be operated unless the above air pollution control system is in full use and has a valid permit to receive vent gases from this equipment.

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

[Devices subject to this condition : D1380, D1385, D1386, D1525, D1713, D1714]

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

All vent gases shall be directed to the vapor recovery system(s) (Process 17, Systems 6 and 7).

This equipment shall not be operated unless the vapor recovery system(s) is in full use and has a valid permit to receive vent gases from this equipment.

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

[Devices subject to this condition : D79, D88, D665]

## **FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL**

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

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

E336.4 The operator shall vent the vent gases from this equipment as follows:

All vent gases shall be directed to the LPG flare (Process 17, System 4) except emergency vent gases that vent to atmosphere.

This equipment shall not be operated unless the LPG flare is in full use and has a valid permit to receive vent gases from this equipment.

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

[Devices subject to this condition : D659, D660]

E336.5 The operator shall vent the vent gases from this equipment as follows:

All vent gases shall be directed to the vapor recovery system(s) (Process 17, Systems 6 and 7), except emergency vent gases that may vent to the atmosphere..

This equipment shall not be operated unless the vapor recovery system(s) is in full use and has a valid permit to receive vent gases from this equipment.

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

[Devices subject to this condition : D1378]

E448.2 The operator shall comply with the following requirements:

The bypass connection to the flare header shall be closed at all times except during an emergency. Record of valve opening and emergency events shall be maintained and made available to District personnel upon request.

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

## **FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL**

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

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

[Devices subject to this condition : D1704]

E448.3 The operator shall comply with the following requirements:

The operator shall inject aqueous ammonia into this SCR only if the flue gas temperature at the inlet of this SCR is equal to or greater than 350 degrees Fahrenheit.

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

[Devices subject to this condition : C1773]

#### **G. CEQA Requirements**

G292.1 The operator shall comply with all applicable mitigation measures and/or project conditions stipulated in the "Statement of Findings, Statement of Overriding Considerations, and Mitigation Monitoring Plan" document which is part of the AQMD Certified Final Environmental Impact Report dated 06/05/1996 for this facility.

[CA PRC CEQA, 11-23-1970]

[Devices subject to this condition : D826, D828, D829, C830, C832, S1369, D1383, D1471]

#### **H. Applicable Rules**

H1.1 The operator shall comply with the terms and conditions of PSD permit number NSR 4-4-9, LA 79-02 issued for this equipment by USEPA on 11/01/1979.

[**40CFR 52.21 - PSD, 6-19-1978**]

## FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL

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

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

[Devices subject to this condition : D687]

H23.1 This equipment is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
SOX	40CFR60, SUBPART	J

Pursuant to 40CFR60.8(c), emissions in excess of the level of the applicable emission limit during periods of startup, shutdown and malfunction shall not be considered a violation of the applicable emission limit unless otherwise specified in the applicable standard.

The operator shall keep records to demonstrate compliance or exemption from this condition.

**[40CFR 60 Subpart J, 6-24-2008; CONSENT DECREE CIVIL NO. H-05-0258, 8-11-2008]**

[Devices subject to this condition : D1, D39, D41, D42, D129, D133, D135, D136, D137, D138, D139, D142, D146, D148, D150, D152, D154, D155, D156, D157, D158, D161, D163, D194, D220, D259, D260, D262, D264, D329, C436, C456, D684, D686, D688]

H23.2 This equipment is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
VOC	District Rule	1173

**[RULE 1173, 5-13-1994; RULE 1173, 6-1-2007]**

## FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL

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

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

[Devices subject to this condition : D556, D1565, D1577, D1579, D1581, D1583, D1590, D1591, D1594, D1596, D1597, D1600, D1601, D1602, D1604, D1605, D1606, D1607, D1608, D1609, D1611, D1612, D1613, D1617, D1618, D1619, D1620, D1623, D1800, D1801, D1802, D1803, D1804]

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

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

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

[Devices subject to this condition : D253, D1566, D1569, D1571, D1573, D1587, D1589, D1621, D1622, D1667]

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

Contaminant	Rule	Rule/Subpart
Chromium, Hexavalent	District Rule	1404

[RULE 1404, 4-6-1990]

[Devices subject to this condition : E1640]

H23.7 This equipment is subject to the applicable requirements of the following rules or regulations:

## FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL

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

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

Contaminant	Rule	Rule/Subpart
VOC	District Rule	1122

**[RULE 1122, 10-1-2004]**

[Devices subject to this condition : E1689]

H23.8 This equipment is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
Halon	District Rule	1418

**[RULE 1418, 9-10-1999]**

[Devices subject to this condition : E1645]

H23.9 This equipment is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
VOC	40CFR60, SUBPART	Kb
Benzene	40CFR61, SUBPART	FF

**[40CFR 60 Subpart Kb, 10-15-2003; 40CFR 61 Subpart FF, 12-4-2003]**

[Devices subject to this condition : D546, D549, D555, D556, D610, D612, D630, D633]

## FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL

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

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

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

Contaminant	Rule	Rule/Subpart
SOX	40CFR60, SUBPART	GG

**[40CFR 60 Subpart GG, 2-24-2006]**

[Devices subject to this condition : D828]

H23.12 This equipment is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
PM	District Rule	1140

**[RULE 1140, 2-1-1980; RULE 1140, 8-2-1985]**

[Devices subject to this condition : D694]

H23.13 This equipment is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
VOC	District Rule	463

**[RULE 463, 5-6-2005]**

[Devices subject to this condition : D1386]

## FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL

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

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

H23.15 This equipment is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
VOC	40CFR60, SUBPART	Kb

**[40CFR 60 Subpart Kb, 10-15-2003]**

[Devices subject to this condition : D516, D517, D575, D576, D584, D586, D615]

H23.16 This equipment is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
VOC	40CFR60, SUBPART	K

**[40CFR 60 Subpart K, 10-17-2000]**

[Devices subject to this condition : D563, D567, D626, D629]

H23.17 This equipment is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
Refrigerants	District Rule	1415
Refrigerants	40CFR82, SUBPART	F

[RULE 1415, 10-14-1994]

[Devices subject to this condition : E1638, E1639]

## FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL

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

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

H23.18 This equipment is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
Refrigerants	District Rule	1411
Refrigerants	40CFR82, SUBPART	B

[RULE 1411, 3-1-1991; **40CFR 82 Subpart B, 7-14-1992**]

[Devices subject to this condition : E1641]

H23.19 This equipment is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
VOC	District Rule	109

[**RULE 109, 5-2-2003**]

[Devices subject to this condition : E1642, E1643]

H23.20 This equipment is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
VOC	District Rule	109
PM	District Rule	481

[**RULE 109, 5-2-2003**]

## FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL

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

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

[Devices subject to this condition : D696]

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

Contaminant	Rule	Rule/Subpart
VOC	40CFR60, SUBPART	GGG

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

[Devices subject to this condition : D94, D1575]

H23.23 This equipment is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
PM10	District Rule	1105.1
NH3	District Rule	1105.1

**[RULE 1105.1, 11-7-2003]**

[Devices subject to this condition : D1]

H23.25 This equipment is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
CO	40CFR60, SUBPART	J
PM	40CFR60, SUBPART	J

## FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL

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

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

Compliance with the opacity limit shall be determined per the EPA-approved Alternative Monitoring Plan dated July 14, 2008 and also as described in Condition C12.3.

**[40CFR 60 Subpart J, 6-24-2008; CONSENT DECREE CIVIL NO. H-05-0258, 8-11-2008]**

[Devices subject to this condition : D1]

H23.27 This equipment is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
H2S	40CFR60, SUBPART	J

The operator shall monitor H2S Concentration at the inlet to this equipment according to the Request for Alternative Monitoring Plan submitted to EPA on December 13, 2007. A copy of the monitoring data shall be made available to the Executive Officer or designee upon request

The operator shall maintain records in a manner approved by the District to demonstrate compliance with the requirements specified under this condition

**[40CFR 60 Subpart J, 6-24-2008; CONSENT DECREE CIVIL NO. H-05-0258, 8-11-2008]**

[Devices subject to this condition : C736]

H23.28 This equipment is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
SOX	District Rule	1118

## FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL

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

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

**[RULE 1118, 11-4-2005]**

[Devices subject to this condition : C706, C723, C735, C736, C748]

H23.29 This equipment is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
PM	District Rule	1470

**[RULE 1470, 6-1-2007]**

[Devices subject to this condition : D675, D676, D677, D678, D679, D1553, D1657, D1658, D1768]

H23.30 This equipment is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
VOC	District Rule	1110.2
CO	District Rule	1110.2

**[RULE 1110.2, 2-1-2008]**

[Devices subject to this condition : D670]

H23.32 This equipment is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
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## FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL

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

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

H2S | 40CFR60, SUBPART | J

The devices shall comply with the requirements of 40CFR60, Subpart J, as originally defined in Consent Decree Civil No. H-05-0258, no later than December 31, 2011 as follows:

Operate and maintain a flare gas recovery system to control continuous or routine combustion in the Flaring Device. Use of a flare gas recovery system obviates the need to continuously monitor and maintain records of hydrogen sulfide in the gas as otherwise required by 40 CFR 60.105(a)(4) & 60.7.

**[ CONSENT DECREE CIVIL NO. H-05-0258, 8-11-2008 ]**

[Devices subject to this condition : C706, C723, C748]

H23.34 This equipment is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
SOX	40CFR60, SUBPART	J

Pursuant to 40CFR60.8(c), emissions in excess of the level of the applicable emission limit during periods of startup, shutdown and malfunction shall not be considered a violation of the applicable emission limit unless otherwise specified in the applicable standard.

The operator shall keep records to demonstrate compliance or exemption from this condition.

**[40CFR 60 Subpart J, 6-24-2008]**

[Devices subject to this condition : D687, D828, D829, D1349]

## FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL

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

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

H23.35 This equipment is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
PM	District Rule	1470

[RULE 1470, 6-1-2007]

[Devices subject to this condition : D670]

H116.1 The operator shall maintain the overall SO<sub>2</sub> to SO<sub>3</sub> conversion efficiency or equivalent at least 99.7 percent in order to comply with the performance standard for the sulfur acid plant whenever this plant is in operation. The conversion efficiency shall be calculated based on the SO<sub>2</sub> emission rate and the total SO<sub>2</sub> feed into the converter or linear interpolation calculation from the emission factors listed in Table 8.10-1 of AP42 Chapter 8.10(7/93). Emission factors shall be in lbs/ton based on daily emission rate and sulfuric acid production rate.

[RULE 2005, 5-6-2005]

[Devices subject to this condition : D338]

H116.2 The operator shall not discharge liquid or gaseous sulfur compounds exceeding 500 ppmv calculated as sulfur dioxide and averaged over 15 consecutive minutes from the vent pipe of this tank in order to comply with Rule 407 whenever this equipment is in operation.

[RULE 407, 4-2-1982]

[Devices subject to this condition : D1682, D1709, D1711, D1712]

## **FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL**

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

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

#### **K. Record Keeping/Reporting**

K40.1 The operator shall provide to the District a source test report in accordance with the following specifications:

Emission data shall be expressed in terms of concentration (ppmv), corrected to 3 percent oxygen, dry basis.

Source test results shall be submitted to the District no later than 45 days after the source test was conducted.

**[RULE 2005, 5-6-2005]**

[Devices subject to this condition : D194]

K40.2 The operator shall provide to the District a source test report in accordance with the following specifications:

Source test results shall be submitted to the District no later than 60 days after the source test was conducted.

**[RULE 2005, 5-6-2005]**

[Devices subject to this condition : C830]

K40.3 The operator shall provide to the District a source test report in accordance with the following specifications:

## **FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL**

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

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

Source test results shall be submitted to the District no later than 60 days after the source test was conducted.

Emission data shall be expressed in terms of mass rate (lbs/hr). In addition, solid PM emissions, if required to be tested, shall also be reported in terms of grains per DSCF.

Emission data shall be expressed in terms of concentration (ppmv), corrected to 3 percent oxygen, dry basis.

All exhaust flow rate shall be expressed in terms of dry standard cubic feet per minute (DSCFM) and dry actual cubic feet per minute (DACFM).

Source test results shall also include the following operating parameters under which the test was conducted.

FCCU design capacity (MBPD), feed rate (MBPD), density, sulfur content (%) and source (vacuum gas oil, coker gas oil) of feed, flow rates of air to FCCU regenerator (dscfm), amount of combustion promoter, De-NO<sub>x</sub> and De-SO<sub>x</sub> catalyst used (lb/day), catalyst recirculation rate (ton/day), and make-up catalyst rate (ton/day); coke burn-off rate (lbs/hr), the average secondary voltage and current (or total power input), and the average spark rate at each of the ESP field and ESP NH<sub>3</sub> injection rate (lb/hr).

**[RULE 1303(b)(2)-Offset, 5-10-1996; RULE 2005, 5-6-2005]**

[Devices subject to this condition : D1]

K67.1 The operator shall keep records, in a manner approved by the District, for the following parameter(s) or item(s):

Fuel rate and high heating value of the fuel

## FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL

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

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

**[RULE 2005, 5-6-2005]**

[Devices subject to this condition : D1349]

K67.2 The operator shall keep records, in a manner approved by the District, for the following parameter(s) or item(s):

Throughput records, types of liquids stored, and the true vapor pressure ranges of such liquid shall be maintained for a period of two years and made available upon request of AQMD personnel

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

[Devices subject to this condition : D665, D1368]

K67.3 The operator shall keep records, in a manner approved by the District, for the following parameter(s) or item(s):

An engine operating log shall be maintained which on a monthly basis shall include manual and automatic operation and shall list all engine operations in each of the following areas:

- A. Date of Operation
- B. Total hours of operation
- C. Type of liquid and/or type of gaseous fuel
- D. Fuel consumption (cubic feet of gas or gallons of liquid)
- E. Reason for operation.

The log shall be kept for a minimum of five calendar years prior to the current year and made available to the District personnel upon request.

## **FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL**

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

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

**[RULE 1110.2, 2-1-2008; RULE 1304(a)-Modeling and Offset Exemption, 6-14-1996;  
RULE 2012, 5-6-2005]**

[Devices subject to this condition : D680, D681]

K67.4 The operator shall keep records, in a manner approved by the District, for the following parameter(s) or item(s):

Hourly firing rates, flue gas temperature, process feed flow rates, inlet and outlet process fluid temperatures, excess air, and NOx emissions

**[RULE 2005, 5-6-2005]**

[Devices subject to this condition : D1349]

K67.5 The operator shall keep records, in a manner approved by the District, for the following parameter(s) or item(s):

The concentration of total sulfur compounds, calculated as H<sub>2</sub>S, in the refinery fuel gas on a daily basis

The concentration of total sulfur compounds shall be measured using a method approved in writing by the AQMD

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

[Devices subject to this condition : D828]

K67.6 The operator shall keep records, in a manner approved by the District, for the following parameter(s) or item(s):

Daily inspections and maintenance of all the valves at this equipment

## **FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL**

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

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

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

[Devices subject to this condition : D701, D702, D1778]

K67.7 The operator shall keep records, in a manner approved by the District, for the following parameter(s) or item(s):

Throughput and vapor pressure of stored liquid.

**[RULE 1178, 4-7-2006; RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997; RULE 463, 5-6-2005]**

[Devices subject to this condition : D356, D357, D358, D359, D360, D361, D362, D363, D364, D370, D371, D531, D535, D536, D537, D543, D544, D550, D551, D553, D554, D556, D557, D558, D559, D560, D561, D563, D564, D566, D567, D568, D569, D570, D572, D573, D574, D575, D576, D577, D578, D579, D583, D586, D587, D588, D589, D591, D592, D593, D594, D595, D596, D597, D598, D599, D600, D601, D604, D605, D606, D607, D609, D611, D612, D613, D614, D615, D616, D617, D619, D621, D622, D623, D624, D625, D626, D627, D628, D629, D630, D631, D632, D633, D634, D635, D636, D637, D638]

K67.8 The operator shall keep records, in a manner approved by the District, for the following parameter(s) or item(s):

## **FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL**

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

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

For architectural applications where no thinners, reducers, or other VOC containing materials are added, maintain semi-annual records for all coating consisting of (a) coating type, (b) VOC content as supplied in grams per liter (g/l) of materials for low-solids coatings, (c) VOC content as supplied in g/l of coating, less water and exempt solvent, for other coatings.

For architectural applications where thinners, reducers, or other VOC containing materials are added, maintain daily records for each coating consisting of (a) coating type, (b) VOC content as applied in grams per liter (g/l) of materials used for low-solids coatings, (c) VOC content as applied in g/l of coating, less water and exempt solvent, for other coatings.

**[RULE 1113, 11-8-1996; RULE 1113, 7-13-2007; RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997]**

[Devices subject to this condition : E1644]

K67.9 The operator shall keep records, in a manner approved by the District, for the following parameter(s) or item(s):

the name of the person performing the inspection and/or maintenance of the filter media

the date, time and description of any maintenance or repairs resulting from the inspection

the date, time and results of the inspection

**[RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997; RULE 401, 3-2-1984; RULE 401, 11-9-2001]**

[Devices subject to this condition : C695, D696]

K67.11 The operator shall keep records, in a manner approved by the District, for the following parameter(s) or item(s):

## **FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL**

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

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

Tank throughput in barrels.

Commodity stored and its storage time period.

True vapor pressure, in psia at actual storage temperature, of each commodity stored.

Hydrocarbon concentration measurements of the vapor space above the floating roof of the tank.

Other records that are required to comply with the applicable requirements of Rule 463(d), 1149, 1178, and 40CFR63 Subpart CC.

**[RULE 1149, 7-14-1995; RULE 1149, 5-2-2008; RULE 1178, 4-7-2006; RULE 1301, 12-7-1995; RULE 463, 5-6-2005; 40CFR 63 Subpart CC, 6-23-2003]**

[Devices subject to this condition : D549, D555, D570, D571, D610]

K67.12 The operator shall keep records, in a manner approved by the District, for the following parameter(s) or item(s):

- Records of atmospheric vents shall include, but not limited to, date of occurrence, reason for occurrence, duration of occurrence and information to support whether hydrogen was being produced or not.

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

[Devices subject to this condition : D772]

K67.13 The operator shall keep records, in a manner approved by the District, for the following parameter(s) or item(s):

## **FACILITY PERMIT TO OPERATE PHILLIPS 66 CO/LA REFINERY WILMINGTON PL**

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

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

An engine operating log shall be maintained which on a monthly basis shall include manual and automatic operation and shall list all engine operations in each of the following areas:

- A. Emergency use hours of operation
- B. Maintenance and testing hours
- C. Other operating hours (describe the reason for operation)

In addition, each time the engine is started manually, the log shall include the date of operation and the timer reading in hours at the beginning and end of operation. The log shall be kept for a minimum of three calendar years prior to the current year and made available to the District personnel upon request. The total hours of operation for the previous calendar year shall be recorded sometime during the first 15 days of January of each year.

[RULE 1470, 6-1-2007]

[Devices subject to this condition : D675, D676, D677, D678, D679, D1553, D1657, D1658, D1768]

K171.2 The operator shall provide to the District the following items:

Final drawings and/or specifications of the geodesic dome cover, slotted/unslotted guidepole, wiper, and other tank appurtenances upgrades being installed/constructed shall be submitted to the District within 60 days after construction.

[RULE 1178, 4-7-2006]

[Devices subject to this condition : D549, D555, D559, D563, D587, D604, D610]