

## **FACILITY PERMIT TO OPERATE**

**PHILLIPS 66 COMPANY/LOS ANGELES REFINERY  
1520 E SEPULVEDA BLVD  
CARSON, CA 90745**

### **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 \_\_\_\_\_  
Barry R. Wallerstein, D. Env.  
Executive Officer

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

### TABLE OF CONTENTS

Section	Description	Revision #	Date Issued
A	Facility Information	1	12/12/2014
B	RECLAIM Annual Emission Allocation	4	11/12/2014
C	Facility Plot Plan	TO BE DEVELOPED	
D	Facility Description and Equipment Specific Conditions	4	11/12/2014
E	Administrative Conditions	0	06/12/2012
F	RECLAIM Monitoring and Source Testing Requirements	0	06/12/2012
G	Recordkeeping and Reporting Requirements for RECLAIM Sources	0	06/12/2012
H	Permit To Construct and Temporary Permit to Operate	3	12/12/2014
I	Compliance Plans & Schedules	2	12/12/2014
J	Air Toxics	0	06/12/2012
K	Title V Administration	0	06/12/2012
Appendix			
A	NOx and SOx Emitting Equipment Exempt From Written Permit Pursuant to Rule 219	0	06/12/2012
B	Rule Emission Limits	0	06/12/2012

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

### SECTION A: FACILITY INFORMATION

**LEGAL OWNER &/OR OPERATOR:** PHILLIPS 66 COMPANY/LOS ANGELES REFINERY

**LEGAL OPERATOR (if different than owner):**

**EQUIPMENT LOCATION:** 1520 E SEPULVEDA BLVD  
 CARSON, CA 90745

**MAILING ADDRESS:** 1660 W ANAHEIM ST  
 WILMINGTON, CA 90744

**RESPONSIBLE OFFICIAL:** DARIN L FIELDS

**TITLE:** MANAGER, LOS ANGELES REFINERY

**TELEPHONE NUMBER:** (310) 952-6001

**CONTACT PERSON:** MARSHALL WALLER

**TITLE:** SUPERINTENDENT OF ENV. SERVICES

**TELEPHONE NUMBER:** (310) 952-6120

**INITIAL TITLE V PERMIT ISSUED:** November 07, 2008

**TITLE V PERMIT EXPIRATION DATE:** November 06, 2013

<b>TITLE V</b>	<b>RECLAIM</b>
----------------	----------------

<b>YES</b>	<b>NOx: YES</b> <b>SOx: YES</b> <b>CYCLE: 1</b> <b>ZONE: COASTAL</b>
------------	---

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

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

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions* And Requirements	Conditions
<b>Process 9: WASTEWATER TREATMENT</b>					P13.2
<b>System 1: STORM/PROCESS UNIT WASTEWATER TREATMENT</b>					S13.6
OIL WATER SEPARATOR, NO. 1, OIL/WATER, WITH A FIXED COVER A/N: 536902 Permit to Construct Issued: 08/07/12	D336	C719		HAP: (10) [40CFR 63 Subpart CC, #2, 6-20-2013]; VOC: 500 PPMV (8) [40CFR 60 Subpart QQQ, 10-17-2000]; VOC: 500 PPMV (5) [RULE 1176, 9-13-1996]	H23.13
SCRUBBER, PACKED COLUMN WITH PALL RINGS, WATER OR WASTEWATER (ONCE THROUGH), HEIGHT: 8 FT ; DIAMETER: 10 IN A/N: 536902 Permit to Construct Issued: 08/07/12	C719	D336 C519			C8.6
OIL WATER SEPARATOR, NO. 2, OIL/WATER, WITH A FIXED COVER A/N: 536902 Permit to Construct Issued: 08/07/12	D337	C720		HAP: (10) [40CFR 63 Subpart CC, #2, 6-20-2013]; VOC: 500 PPMV (8) [40CFR 60 Subpart QQQ, 10-17-2000]; VOC: 500 PPMV (5) [RULE 1176, 9-13-1996]	H23.13
SCRUBBER, PACKED COLUMN WITH PALL RINGS, WATER OR WASTEWATER (ONCE THROUGH), HEIGHT: 8 FT ; DIAMETER: 10 IN A/N: 536902 Permit to Construct Issued: 08/07/12	C720	D337 C520			C8.6
SUMP, PUMP STRUCTURE, NO. 3, STORM/PROCESS WATER, CONCRETE WITH FIXED COVER AND FLAME ARRESTOR A/N: 536902 Permit to Construct Issued: 08/07/12	D338	C521 D773		HAP: (10) [40CFR 63 Subpart CC, #2, 6-20-2013]; VOC: 500 PPMV (8) [40CFR 60 Subpart QQQ, 10-17-2000]; VOC: 500 PPMV (5) [RULE 1176, 9-13-1996]	H23.13

- \* (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 COMPANY/LOS ANGELES REFINERY

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

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions* And Requirements	Conditions
<b>Process 9: WASTEWATER TREATMENT</b>					P13.2
SUMP, OIL AND WATER, FIXED COVER, WIDTH: 5 FT ; DEPTH: 6 FT 7 IN; LENGTH: 10 FT A/N: 536902 Permit to Construct Issued: 08/07/12	D339	C521			H23.13
SUMP, PROCESS WATER, CONCRETE WITH OPEN TOP, WIDTH: 15 FT ; DEPTH: 8 FT 6 IN; LENGTH: 15 FT A/N: 536902 Permit to Construct Issued: 08/07/12	D340				
SUMP, STORM WATER, CONCRETE WITH OPEN TOP, WIDTH: 15 FT ; DEPTH: 8 FT 6 IN; LENGTH: 20 FT A/N: 536902 Permit to Construct Issued: 08/07/12	D341				
TANK, AIR FLOTATION, TK-1601, PROCESS WATER, FIXED ROOF, HEIGHT: 16 FT ; DIAMETER: 26 FT A/N: 536902 Permit to Construct Issued: 08/07/12	D342	C517		<b>VOC: 500 PPMV (5) [RULE 1176, 9-13-1996]</b>	E17.1
TANK, AIR FLOTATION, TK-1602, PROCESS WATER, FIXED ROOF, HEIGHT: 16 FT ; DIAMETER: 26 FT A/N: 536902 Permit to Construct Issued: 08/07/12	D344	C517		<b>VOC: 500 PPMV (5) [RULE 1176, 9-13-1996]</b>	E17.1
TANK, DISSOLVED GAS FLOTATION, V-3188, POSEIDON, SATURN S600TCR12.5E, 2500 GPM, HEIGHT: 22 FT 4 IN; DIAMETER: 12 FT 6 IN A/N: 536902 Permit to Construct Issued: 08/07/12	D975	D980		<b>HAP: (10) [40CFR 63 Subpart CC, #2, 6-20-2013]; VOC: 500 PPMV (5) [RULE 1176, 9-13-1996]</b>	E17.1, E57.1

- \* (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 COMPANY/LOS ANGELES REFINERY

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

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions* And Requirements	Conditions
<b>Process 9: WASTEWATER TREATMENT</b>					P13.2
TANK, DISSOLVED GAS FLOTATION, V-3189, POSEIDON, SATURN S600TCR12.5E, 2500 GPM, HEIGHT: 22 FT 4 IN; DIAMETER: 12 FT 6 IN A/N: 536902 Permit to Construct Issued: 08/07/12	D976	D980		HAP: (10) [40CFR 63 Subpart CC, #2, 6-20-2013]; VOC: 500 PPMV (5) [RULE 1176, 9-13-1996]	E17.1, E57.1
RESERVOIR, STORM WATER, WITH A 21 FT. DIKE, 193000 BBL A/N: 536902 Permit to Construct Issued: 08/07/12	D345				
SCREEN, CLASSIFYING, STEEL BAR TYPE, DR-4201, HEIGHT: 4 FT, WIDTH: 3 FT, MANUALLY CLEANED A/N: 536902 Permit to Construct Issued: 08/07/12	D346				
CARBON ADSORBER, (THREE IN PARALLEL), ACTIVATED CARBON, 150 LBS A/N: 536902 Permit to Construct Issued: 08/07/12	C517	D342 D344			D90.1, E128.1, E153.2
CARBON ADSORBER, ACTIVATED CARBON, 150 LBS A/N: 536902 Permit to Construct Issued: 08/07/12	C519	C719			D90.3, E128.1, E153.2
CARBON ADSORBER, ACTIVATED CARBON, 150 LBS A/N: 536902 Permit to Construct Issued: 08/07/12	C520	C720			D90.3, E128.1, E153.2

\* (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 COMPANY/LOS ANGELES REFINERY

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

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions* And Requirements	Conditions
<b>Process 9: WASTEWATER TREATMENT</b>					P13.2
TANK, AIR FLOTATION, TK-1611, STORM WATER, FIXED ROOF, HEIGHT: 16 FT ; DIAMETER: 26 FT A/N: 536902 Permit to Construct Issued: 08/07/12	D813				
SUMP, API INLET BOX, STORM/PROCESS WASTEWATER, CONCRETE, FIXED COVER, WITH VAPOR PATH COMMON TO INLET CHANNEL&PUMP STRUCTURE A/N: 536902 Permit to Construct Issued: 08/07/12	D773	D338 C521		<b>HAP: (10) [40CFR 63 Subpart CC, #2, 6-20-2013]; VOC: 500 PPMV (5) [RULE 1176, 9-13-1996]</b>	H23.13
SCREEN, CLASSIFYING, WIRE MESH TYPE, 1-1/2 INCH OPENINGS, HEIGHT: 4 FT; WIDTH: 3 FT, MANUALLY CLEANED A/N: 536902 Permit to Construct Issued: 08/07/12	D774				
SCREEN, CLASSIFYING, WIRE MESH TYPE, 1-1/2 INCH OPENINGS, HEIGHT: 2 FT 8 IN; WIDTH: 3 FT 4-1/2 IN, MANUALLY CLEANED A/N: 536902 Permit to Construct Issued: 08/07/12	D775				
TANK, FIXED ROOF, TK-2529, API SLUDGE, 143 BBL; DIAMETER: 10 FT ; HEIGHT: 11 FT A/N: 536902 Permit to Construct Issued: 08/07/12	D829	C830		<b>VOC: 500 PPMV (5) [RULE 1176, 9-13-1996]</b>	
CARBON ADSORBER, ACTIVATED CARBON, 2 TOTAL IN SERIES, 150 LBS A/N: 536902 Permit to Construct Issued: 08/07/12	C830	D829			D90.3, E128.1, E153.2

- \* (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 COMPANY/LOS ANGELES REFINERY

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

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions* And Requirements	Conditions
<b>Process 9: WASTEWATER TREATMENT</b>					P13.2
VESSEL, RETENTION, PRESSURIZED, V-2346, 69 BBL, HEIGHT: 9 FT ; DIAMETER: 6 FT A/N: 536902 Permit to Construct Issued: 08/07/12	D969				
VESSEL, RETENTION, PRESSURIZED, V-2347, 69 BBL, HEIGHT: 9 FT ; DIAMETER: 6 FT A/N: 536902 Permit to Construct Issued: 08/07/12	D970				
VESSEL, RETENTION, PRESSURIZED, V-2381, 69 BBL, HEIGHT: 9 FT ; DIAMETER: 6 FT A/N: 536902 Permit to Construct Issued: 08/07/12	D971				
DRAIN SYSTEM COMPONENT A/N: 536902 Permit to Construct Issued: 08/07/12	D887			<b>HAP: (10) [40CFR 63 Subpart CC, #2, 6-20-2013]</b>	H23.13
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 536902 Permit to Construct Issued: 08/07/12	D945				H23.1
<b>System 2: AIR POLLUTION CONTROL SYSTEM</b>					
CARBON ADSORBER, TWO TOTAL, 2000 LBS EACH, V-3198/V-3199, ACTIVATED CARBON, BACKUP FOR THERMAL OXIDIZER A/N: 536833 Permit to Construct Issued: 08/07/12	C977	D980			D90.12, E128.1, E153.2

\* (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 COMPANY/LOS ANGELES REFINERY

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

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions* And Requirements	Conditions
<b>Process 9: WASTEWATER TREATMENT</b>					P13.2
OXIDIZER, THERMAL, TOU-1, BAKER FURNACE, NATURAL GAS, MODEL 1500 SCFM, 2.5 MMBTU/HR WITH A/N: 536835 Permit to Construct Issued: 08/07/12  BURNER, LOW NOX	C978	D982	NOX: PROCESS UNIT**; SOX: PROCESS UNIT**	CO: 200 PPMV (4) [RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002]; CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; NOX: 32 PPMV (4) [RULE 2005, 6-3-2011]; PM: (9) [RULE 404, 2-7-1986]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]	A195.2, C1.31, C8.11, D29.5, D29.6, D332.1, E223.2, I297.1
KNOCK OUT POT, V-1, DGF VENT GAS A/N: 536835 Permit to Construct Issued: 08/07/12	D980	D432 D975 D976 C977 D982			
KNOCK OUT POT, V-2, ORU VENT GAS A/N: 536835 Permit to Construct Issued: 08/07/12	D981				
BLOWER, DGF VENT GAS, DR-823A/B, 1 HP A/N: 536835 Permit to Construct Issued: 08/07/12	D982	C978 D980			
BLOWER, ORU VENT GAS, C-4A/B, 5 HP A/N: 536835 Permit to Construct Issued: 08/07/12	D983				
BLOWER, DILUTION AIR, DR-826, 10 HP A/N: 536835 Permit to Construct Issued: 08/07/12	D984				

\* (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 COMPANY/LOS ANGELES REFINERY

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

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions* And Requirements	Conditions
<b>Process 9: WASTEWATER TREATMENT</b>					P13.2
BLOWER, COMBUSTION AIR, DR-825, 2 HP A/N: 536835 Permit to Construct Issued: 08/07/12	D985				
<b>Process 10: STORAGE TANKS</b>					P13.2
<b>System 7: DOMED EXTERNAL FLOATING ROOF TANKS</b>					
STORAGE TANK, DOMED EXTERNAL FLOATING ROOF, NO. 2640, CRUDE OIL, WELDED SHELL, WITH FOUR MIXERS, 615000 BBL; DIAMETER: 260 FT ; HEIGHT: 65 FT WITH A/N: 544857 Permit to Construct Issued: 12/12/14  DOME COVER, GEODESIC  FLOATING ROOF, PONTOON  PRIMARY SEAL, CATEGORY A, METALLIC SHOE  SECONDARY SEAL, CATEGORY A, RIM MOUNTED  GUIDEPOLE, GASKETED SLIDING COVER, WITH WIPER, UNSLOTTED	D992			HAP: (10) [40CFR 63 Subpart CC, #3A, 6-20-2013]	C1.33, E193.8, G515.1, H23.17

\* (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 COMPANY/LOS ANGELES REFINERY

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

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions* And Requirements	Conditions
<b>Process 10: STORAGE TANKS</b>					P13.2
STORAGE TANK, DOMED EXTERNAL FLOATING ROOF, NO. 2643, WASTE WATER, WELDED SHELL, 14000 BBL; DIAMETER: 44 FT ; HEIGHT: 51 FT 7 IN WITH A/N: 544859 Permit to Construct Issued: 12/12/14  DOME COVER, GEODESIC  FLOATING ROOF, DOUBLE DECK  PRIMARY SEAL, CATEGORY A, METALLIC SHOE  SECONDARY SEAL, CATEGORY A, RIM MOUNTED  GUIDEPOLE, GASKETED SLIDING COVER, WITH WIPER, UNSLOTTED	D998			HAP: (10) [40CFR 63 Subpart CC, #2, 6-20-2013]	C1.34, E193.8, H23.17

\* (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 COMPANY/LOS ANGELES REFINERY

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

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions* And Requirements	Conditions
<b>Process 10: STORAGE TANKS</b>					P13.2
STORAGE TANK, DOMED EXTERNAL FLOATING ROOF, NO. R-510, CRUDE OIL, WELDED, WITH TWO MIXERS, 320000 BBL; DIAMETER: 218 FT ; HEIGHT: 50 FT WITH A/N: 544860 Permit to Construct Issued: 12/12/14  DOME COVER, GEODESIC  FLOATING ROOF, PONTOON  PRIMARY SEAL, CATEGORY A, MECHANICAL SHOE  SECONDARY SEAL, CATEGORY B OR BETTER, SHOE MOUNTED, WIPER TYPE  GUIDEPOLE, GASKETED SLIDING COVER, WITH WIPER, UNSLOTTED	D394			HAP: (10) [40CFR 63 Subpart CC, #2, 6-20-2013]	C1.32, E193.8, G515.1, H23.4

\* (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

\*\* 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 COMPANY/LOS ANGELES REFINERY

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

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions* And Requirements	Conditions
<b>Process 10: STORAGE TANKS</b>					P13.2
STORAGE TANK, DOMED EXTERNAL FLOATING ROOF, NO. R-511, CRUDE OIL, WELDED, WITH TWO MIXERS, 320000 BBL; DIAMETER: 218 FT ; HEIGHT: 50 FT WITH A/N: 544861 Permit to Construct Issued: 12/12/14  DOME COVER, GEODESIC  FLOATING ROOF, PONTOON  PRIMARY SEAL, CATEGORY A, MECHANICAL SHOE  SECONDARY SEAL, CATEGORY B OR BETTER, SHOE MOUNTED, WIPER TYPE  GUIDEPOLE, GASKETED SLIDING COVER, WITH WIPER, UNSLOTTED	D395			HAP: (10) [40CFR 63 Subpart CC, #2, 6-20-2013]	C1.32, E193.8, G515.1, H23.4
<b>Process 12: MISCELLANEOUS</b>					
<b>System 1: SLUDGE HANDLING</b>					
TANK, GRAVITY SETTLING, TK-2518, SLUDGE, WITH INTERNAL RAKES, HEIGHT: 12 FT ; DIAMETER: 35 FT A/N: 536901 Permit to Construct Issued: 08/07/12	D431	C435		HAP: (10) [40CFR 63 Subpart CC, #2, 6-20-2013]; VOC: 500 PPMV (4) [RULE 1303(a)(1) -BACT, 5-10-1996]	

\* (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 COMPANY/LOS ANGELES REFINERY

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

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions* And Requirements	Conditions
<b>Process 12: MISCELLANEOUS</b>					
TANK, DAF, TK-2520, WITH FLOAT COLLECTOR, 180 BBL; DIAMETER: 9 FT ; HEIGHT: 16 FT A/N: 536901 Permit to Construct Issued: 08/07/12	D432	C434 D980		VOC: 500 PPMV (4) [RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002]	E57.1
TANK, FIXED ROOF, TK-2519, SPARE, 230 BBL; DIAMETER: 9 FT ; HEIGHT: 20 FT A/N: 536901 Permit to Construct Issued: 08/07/12	D433	C435		VOC: 500 PPMV (4) [RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002]	
CARBON ADSORBER, ACTIVATED CARBON, 2 TOTAL IN PARALLEL, 150 LBS A/N: 536901 Permit to Construct Issued: 08/07/12	C434	D432			D90.2, E128.1, E153.2, H116.1
CARBON ADSORBER, ACTIVATED CARBON, 2 TOTAL IN PARALLEL, 150 LBS A/N: 536901 Permit to Construct Issued: 08/07/12	C435	D431 D433			D90.2, E128.1, E153.2, H116.1

\* (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 COMPANY/LOS ANGELES REFINERY**

**SECTION H: 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 COMPANY/LOS ANGELES REFINERY

### SECTION H: DEVICE ID INDEX

Device Index For Section H			
Device ID	Section H Page No.	Process	System
D336	1	9	1
D337	1	9	1
D338	1	9	1
D339	2	9	1
D340	2	9	1
D341	2	9	1
D342	2	9	1
D344	2	9	1
D345	3	9	1
D346	3	9	1
D394	9	10	7
D395	10	10	7
D431	10	12	1
D432	11	12	1
D433	11	12	1
C434	11	12	1
C435	11	12	1
C517	3	9	1
C519	3	9	1
C520	3	9	1
C719	1	9	1
C720	1	9	1
D773	4	9	1
D774	4	9	1
D775	4	9	1
D813	4	9	1
D829	4	9	1
C830	4	9	1
D887	5	9	1
D945	5	9	1
D969	5	9	1
D970	5	9	1
D971	5	9	1
D975	2	9	1

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

## SECTION H: DEVICE ID INDEX

<b>Device Index For Section H</b>			
<b>Device ID</b>	<b>Section H Page No.</b>	<b>Process</b>	<b>System</b>
D976	3	9	1
C977	5	9	2
C978	6	9	2
D980	6	9	2
D981	6	9	2
D982	6	9	2
D983	6	9	2
D984	6	9	2
D985	7	9	2
D992	7	10	7
D998	8	10	7

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

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

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

#### **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.

**[40CFR 68 - Accidental Release Prevention, 4-9-2004]**

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

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

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

- 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.

**[RULE 2004, 4-6-2007]**

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

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

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

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):

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 requirement not yet fulfilled.

40 CFR 60 Subpart A

40 CFR 61 Subpart A

40 CFR 63 Subpart A

**[40CFR 60 Subpart A, 9-13-2010; 40CFR 61 Subpart A, 1-11-2013; 40CFR 63 Subpart A, 6-25-2013; CONSENT DECREE CIVIL NO. H-05-0258, 8-11-2008]**

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
SOX	40CFR60, SUBPART	J

**[40CFR 60 Subpart J, 9-12-2012]**

[Processes subject to this condition : 7]

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

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

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

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

Contaminant	Rule	Rule/Subpart
Benzene	40CFR61, SUBPART	FF

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

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

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

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

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

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

LPG Tank Car Loading and Unloading System (Process: 8, System: 3)

Sulfur Recovery Unit No. 1 (Process: 7, System: 1)

Hydrogen Plant (Process: 4, System: 1)

Crude Distillation Unit (Process: 1, System: 1)

Coker Blowdown (Process: 2, System: 3)

Gas and Water Treatment (Process: 6, System: 1, 2, 3, 4, and 5)

Delayed Coking Unit (Process: 2, System: 1)

Gas Production (Process: 5, System: 1, 2, 3, and 4)

Crude Oil Tank Car Unloading System (Process: 8, System: 1)

Sulfur Recovery Unit No. 2 (Process: 7, System: 2)

Vacuum Flash Unit (Process: 1, System: 4)

FCC Feed (Gas Oil) Hydrodesulfurization Unit 120 (Process: 3, System: 3)

Tail Gas (Scot) Unit No. 1 (Process: 7, System: 5)

FCC Feed (Gas Oil) Hydrodesulfurization Unit DHT-3 (Process: 3, System: 1)

Tail Gas (Scot) Unit 2 (Process: 7, System: 4)

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

[Processes subject to this condition : 14]

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

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

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

#### SYSTEM CONDITIONS

S1.1 The operator shall limit the unloading rate to no more than 88000 barrel(s) in any one day.

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

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

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

CONTAMINANT	EMISSIONS LIMIT
VOC	Less than 2.5 lbs/mmscf of hydrogen produced

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

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

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

Contaminant	Rule	Rule/Subpart
PM	District Rule	1158

**[RULE 1158, 6-11-1999; RULE 1158, 7-11-2008]**

[Systems subject to this condition : Process 2, System 4 , 5]

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

Contaminant	Rule	Rule/Subpart
VOC	District Rule	463

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

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

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

VOC | District Rule | 1149

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

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

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	463
VOC	District Rule	1178

**[RULE 1178, 4-7-2006; RULE 463, 11-4-2011]**

[Systems subject to this condition : Process 10, System 2 , 5]

S13.4 All devices under this system are subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
VOC	District Rule	1189

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

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

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

Contaminant	Rule	Rule/Subpart
VOC	District Rule	1123

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

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

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

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

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

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

Contaminant	Rule	Rule/Subpart
VOC	District Rule	1176

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

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

S15.1 The vent gases from all affected devices of this process/system shall be vented as follows:

All sour gases under normal operating conditions shall be directed to the sour gas treating unit(s) located in the Vacuum Flash Unit (Process 1, System 4).

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

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

[Systems subject to this condition : Process 1, System 1 , 7 , 8]

S15.2 The vent gases from all affected devices of this process/system shall be vented as follows:

All sour gases under normal operating conditions shall be directed to the sour gas treating unit located in this system.

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

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

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

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

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

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

S15.3 The vent gases from all affected devices of this process/system shall be vented as follows:

All emergency vent gases shall be directed to a blowdown flare system or flare gas recovery system except Devices IDs D1, D2, D4, D65, D69, D95-D97, D175, D176, D178, D179, D180, D186, D187, D188, D194, D201, D202, D479, D803, D816, D896, and C989 that vent to the atmosphere.

This process/system shall not be operated unless the above air pollution control equipment is in full use and has a valid permit to receive vent gases from this system.

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

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

S15.4 The vent gases from all affected devices of this process/system shall be vented as follows:

All sour gases under normal operating conditions shall be directed to the sour gas treating unit(s).

This process/system shall not be operated unless the above air pollution control equipment is in full use and has a valid permit to receive vent gases from this system.

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

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

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

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

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

S15.5 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 the delayed coking unit heater(s).

This process/system shall not be operated unless the above air pollution control equipment is in full use and has a valid permit to receive vent gases from this system.

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

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

S15.6 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 above air pollution control equipment is in full use and has a valid permit to receive vent gases from this system.

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

[Systems subject to this condition : Process 6, System 1 , 4 , 5]

S15.7 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 the tail gas treating (SCOT) unit.

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

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

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

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

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

[Systems subject to this condition : Process 7, System 1 , 2]

S15.8 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 the incineration system.

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

[Systems subject to this condition : Process 7, System 4 , 5]

S15.11 The vent gases from all affected devices of this process/system shall be vented as follows:

All vent gases under normal operating conditions shall be directed to a flare gas recovery system except device ID's D176, D178, D179, D180, D201, and D896 that vent to atmosphere, D194 that vents to atmosphere or the off-site CO2 plant, and D987 that vents to APC equipment.

This process/system shall not be operated unless the above air pollution control equipment (consisting of two compressors operating independently or concurrently at any given time) is in full use and has a valid permit to receive vent gases from this system.

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

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

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

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

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

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

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

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

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

S15.13 The vent gases from all affected devices of this process/system shall be vented as follows:

All emergency vent gases shall be directed to a flare system.

This process/system shall not be operated unless the above air pollution control equipment is in full use and has a valid permit to receive vent gases from this system.

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

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

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:

Crude Distillation Unit (Process: 1, System: 1)

Vacuum Flash Unit (Process: 1, System: 4)

Delayed Coking Unit (Process: 2, System: 1)

Coker Blowdown (Process: 2, System: 3)

FCC Feed (Gas Oil) Hydrodesulfurization Unit DHT-3 (Process: 3, System: 1)

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

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

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

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

[Systems subject to this condition : Process 6, System 3]

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:

Sour Water Stripping Unit (Process: 6, System: 1)

Amine Regeneration Units (Process: 6, System: 4 and 5)

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

[Systems subject to this condition : Process 7, System 1 , 2]

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:

Sulfur Recovery Units 1 & 2 (Process: 7, System: 1 & 2)

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

[Systems subject to this condition : Process 7, System 4 , 5]

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:

Tail gas treating (SCOT) unit(s) (Process: 7, System: 4 & 5)

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

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

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

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

[Systems subject to this condition : Process 7, System 3]

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

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

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

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

If 98.0 percent or greater of the new valve and the new flange population inspected is found to leak gaseous or liquid volatile organic compounds at a rate less than 500 ppm for two consecutive months, then the operator shall revert to a quarterly inspection program with the approval of the executive officer. This condition shall not apply to bellow-sealed valves.

All new valves in VOC service except those specifically exempted by Rule 1173, shall be bellow-sealed valves for 2-inch and smaller sizes, except in the following applications: heavy liquid service, control valve, instrument piping/tubing, applications requiring torsional valve stem motion, applications where valve failure could pose safety hazard (e.g. drain valves with valve stems in horizontal position), and retrofits with space limitations.

All new components in VOC service, a leak greater than 500 ppm but less than 1,000 ppm measured as methane background as measured using EPA Method 21, shall be repaired within 14 days of detection. Components shall be defined as any valve, fitting, pump, compressor, pressure relief device, diaphragm, hatch, sight-glass, and meter, which are not exempted by Rule 1173.

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

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

All new components in VOC service as defined in Rule 1173, except valves and flanges shall be inspected quarterly using EPA reference Method 21. All new valves and flanges in VOC service except those specifically exempted by Rule 1173 shall be inspected monthly using EPA Method 21.

All new valves greater than 2-inch size and major components in VOC service as defined by Rule 1173, except those specifically exempted by Rule 1173 shall be identified from other components through their tag numbers (e.g. numbers ending in the letter "N"), and shall be noted in the records.

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

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

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

**[RULE 1173, 2-6-2009; RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002; RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002; 40CFR 60 Subpart GGG, 6-2-2008]**

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

S31.2 The following BACT requirements shall apply to VOC service fugitive components associated with the devices that are covered by application number(s) 409983:

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

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

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

All valves shall be bellow-seal valves except in the following applications: valves in heavy liquid service, control valves, instrument piping/tubing valves, valves requiring torsional stem motion, situations where valve failure could pose safety hazard (e.g., Drain valves with stems in the horizontal position), retrofit/special application valves with space limitation, and valves not commercially available. The District shall approve all exceptions to this requirement.

All 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 Reference Method 21.

All valves and new 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 components in VOC service, with a leak greater than 500 ppm but less than 1,000 ppm measured as methane above background using EPA Reference Method 21, shall be repaired within 14 days of detection. Components shall be defined as any valve, fitting, pump, compressor, pressure relief valve, diaphragm, hatch, sight-glass, and meter, which are not exempted by Rule 1173.

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 (non-bellows seal) valves and flange population inspected is found to leak gaseous or liquid volatile organic compounds at a rate of less than 500 ppmv.

The operator shall keep records of the monthly inspection (quarterly where applicable), subsequent repairs, and reinspections, in a manner approved by the

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

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

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

District. Records shall be kept and maintained for at least five years, and shall be made available to the Executive Officer or his authorized representative upon request.

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

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

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

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

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

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

All 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 or liquid volatile organic compounds at a rate less than 500 ppmv.

All new components in VOC service with a leak greater than 500 ppmv but less than 1,000 ppmv, as methane, measured above background using EPA Method 21 shall be repaired within 14 days of detection. Components shall be defined as any valve, fitting, pump, compressor, pressure relief valve, diaphragm, hatch, sight-glass, and meter, which are not exempted by Rule 1173.

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

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

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

The operator shall keep records of the monthly inspection (quarterly where applicable), subsequent repair, and reinspection, in a manner approved by the District. Records shall be kept and maintained for at least two years, and shall be made available to the Executive Officer or his authorized representative upon request.

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

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

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

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

S31.4 The following BACT requirements shall apply to VOC service fugitive components associated with the devices that are covered by application number(s) 471540:

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

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

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

All 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 or liquid volatile organic compounds at a rate less than 500 ppmv.

All new components in VOC service with a leak greater than 500 ppmv but less than 1,000 ppmv, as methane, measured above background using EPA Method 21 shall be repaired within 14 days of detection. Components shall be defined as any valve, fitting, pump, compressor, pressure relief valve, diaphragm, hatch, sight-glass, and meter, which are not exempted by Rule 1173.

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

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

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

The operator shall keep records of the monthly inspection (quarterly where applicable), subsequent repair, and reinspection, in a manner approved by the District. Records shall be kept and maintained for at least two years, and shall be made available to the Executive Officer or his authorized representative upon request.

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

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

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

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

S31.5 The following BACT requirements shall apply to VOC service fugitive components associated with the devices that are covered by application number(s) 487403:

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

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

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

All open-ended 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 a 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 or liquid volatile organic compounds at a rate less than 500 ppm.

All new components in VOC service, a leak greater than 500 ppm measured as

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

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

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

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 is more stringent.

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 3, System 1]

#### **DEVICE CONDITIONS**

##### **A. Emission Limits**

A195.2 The 32 PPMV NOX emission limit(s) is averaged over 60 minutes.

NOx concentration is 32 ppmv corrected to 3% O<sub>2</sub>, dry basis.

Notwithstanding the requirements of Section E conditions, a source test shall be conducted once every five years to demonstrate compliance with this limit

**[RULE 2005, 6-3-2011]**

[Devices subject to this condition : C978]

##### **C. Throughput or Operating Parameter Limits**

C1.31 The operator shall limit the load to no more than 250 cubic feet per minute.

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

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

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

For the purpose of this condition, the load shall be defined as the total vent gas flow rate at the inlet of this oxidizer.

To comply with this condition, the operator shall install and maintain a(n) flow meter to accurately indicate the flow rate at the inlet to the oxidizer.

The operator shall measure the flow rate in standard cubic feet per minute (SCFM).

If a pressure sensing device is used instead of the flow meter, a conversion chart shall be made available to indicate the flow rate (in CFM) corresponding to the pressure reading.

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

[Devices subject to this condition : C978]

- C1.32 The operator shall limit the throughput to no more than 1.52 million barrel(s) in any one calendar month.

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

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

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

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]**

[Devices subject to this condition : D394, D395]

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

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

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

- C1.33 The operator shall limit the throughput to no more than 2.5 million 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.

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 COMPANY/LOS ANGELES REFINERY**

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

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

[Devices subject to this condition : D992]

- C1.34 The operator shall limit the throughput to no more than 64,000 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.

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.

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

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

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

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

[Devices subject to this condition : D998]

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

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

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

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

[Devices subject to this condition : C719, C720]

- C8.11 The operator shall use this equipment in such a manner that the temperature being monitored, as indicated below, is not less than 1500 Deg F.

To comply with this condition, the operator shall install and maintain a(n) temperature gauge to accurately indicate the temperature of the oxidizer.

A temperature sensor, accurate to 20 degrees Fahrenheit, shall be installed and maintained at the exhaust stack of this equipment. The sensor shall be mounted at least 0.3 seconds downstream of the flame zone. A temperature indicator and a strip chart recorder or electronic data logger shall be used to display and record the above temperature whenever this equipment is in operation.

The operator shall automatically regulate the temperature by a fully modulated control system.

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

[Devices subject to this condition : C978]

#### **D. Monitoring/Testing Requirements**

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

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

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

D29.5 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
NOX emissions	District method 100.1	1 hour	Outlet of the Oxidizer

The test shall be conducted to demonstrate compliance with the NOx emissions limit of 32 PPMV.

The test(s) shall be conducted within 90 days after achieving maximum production rate, but no later than 180 days after initial start-up.

During the source test(s), the facility permit holder shall also record the operating temperatures of the oxidizer.

Notwithstanding the requirements of Section E conditions, the source test results shall be submitted to the District no later than 60 days after the source test was conducted.

The District shall be notified of the date and time of the test at least 10 days prior to the test.

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

[Devices subject to this condition : C978]

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
ROG emissions	As specified in applicable NSPS	As specified in applicable NSPS	Inlet and Outlet of the Oxidizer

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

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

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

The test shall be conducted to demonstrate compliance with the efficiency limit of 95% ROG destruction.

The test(s) shall be conducted within 90 days after achieving maximum production rate, but no later than 180 days after initial start-up.

During the source test(s), the facility permit holder shall also record the operating temperatures of the oxidizer.

Notwithstanding the requirements of Section E conditions, the source test results shall be submitted to the District no later than 60 days after the source test was conducted.

The District shall be notified of the date and time of the test at least 10 days prior to the test.

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

[Devices subject to this condition : C978]

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

The operator shall monitor once every day.

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

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

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

[Devices subject to this condition : C517]

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

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

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

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

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

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

The operator shall monitor once every day.

**[RULE 1176, 9-13-1996; RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002; RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997]**

[Devices subject to this condition : C434, C435]

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

The operator shall monitor once every day.

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

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

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

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

D90.12 The operator shall periodically monitor the hydrocarbon concentration at the outlet of the carbon canister according to the following specifications:

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

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

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

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

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

The operator shall monitor once every day on any day the device is being used to control emissions.

**[RULE 1176, 9-13-1996; RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002; RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997]**

[Devices subject to this condition : C977]

D332.1 The operator shall determine compliance with the CO emission limit(s) by conducting a test at least once every five years using a portable analyzer and AQMD-approved test method or, if not available, a non-AQMD approved test method. The test shall be conducted when the equipment is operating under normal conditions to demonstrate compliance with Rule 407 concentration limit. 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 : C978]

#### **E. Equipment Operation/Construction Requirements**

E17.1 The operator shall not use more than 2 of the following items simultaneously:

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

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

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

Device ID: D975 [Dissolved Gas Flotation Tank]

Device ID: D976 [Dissolved Gas Flotation Tank]

Device ID: D342 [Air Flotation Tank]

Device ID: D344 [Air Flotation Tank]

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

[Devices subject to this condition : D342, D344, D975, D976]

E57.1 The operator shall vent this equipment to either the thermal oxidizer (C978) or the backup carbon canister (C977) whenever this equipment is in operation.

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

[Devices subject to this condition : D432, D975, D976]

E128.1 The operator shall keep all spent carbon in a tightly covered container which shall remain closed except when it is being transferred into or out of the container.

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

[Devices subject to this condition : C434, C435, C517, C519, C520, C830, C977]

E153.2 The operator shall change over the spent carbon with fresh activated carbon in the adsorber whenever breakthrough occurs.

For the purpose of this condition, breakthrough occurs when the hydrocarbon monitor reading indicates a concentration of 500 ppmv at the outlet of the carbon canister. (The 500 ppmv refers to VOCs).

**[RULE 1176, 9-13-1996; RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002; RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997]**

[Devices subject to this condition : C434, C435, C517, C519, C520, C830, C977]

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

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

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

E193.8 The operator shall operate and maintain this equipment according to the following specifications:

The operator shall not use this equipment with materials having a Reid vapor pressure of 11 psia or greater

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

[Devices subject to this condition : D394, D395, D992, D998]

E223.2 The operator shall install and maintain an interlock control to stop the operation of this equipment if the operating temperature falls below the required minimum operating temperature specified in condition C8.11, when temperature exceeds manufacturer's specifications, or when flameout occurs.

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

[Devices subject to this condition : C978]

#### **G. CEQA Requirements**

G515.1 The operator shall use this equipment only to receive and store crude oil unloaded from marine vessels.

The operator shall maintain records of the Run Tickets and other relevant information, such as Plant Data Historian records, to demonstrate compliance with this condition.

[CA PRC CEQA, 11-23-1970]

[Devices subject to this condition : D394, D395, D992]

#### **H. Applicable Rules**

H23.1 This equipment is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart

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

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

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

VOC | District Rule | 1173

**[RULE 1173, 2-6-2009]**

[Devices subject to this condition : D945]

H23.4 This equipment is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
VOC	District Rule	1149
VOC	40CFR60, SUBPART	K

**[RULE 1149, 5-2-2008; 40CFR 60 Subpart K, 10-17-2000]**

[Devices subject to this condition : D394, D395]

H23.13 This equipment is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
VOC	40CFR60, SUBPART	QQQ

**[40CFR 60 Subpart QQQ, 10-17-2000]**

[Devices subject to this condition : D336, D337, D338, D339, D773, D887]

H23.17 This equipment is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
VOC	District Rule	1149
VOC	40CFR60, SUBPART	Kb

**[RULE 1149, 5-2-2008; 40CFR 60 Subpart Kb, 10-15-2003]**

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

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

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

[Devices subject to this condition : D992, D998]

H116.1 The operator shall terminate the operation of this equipment in order to comply with District Rule 402 whenever the District determine that the equipment is creating nuisance.

[RULE 402, 5-7-1976]

[Devices subject to this condition : C434, C435]

#### **I. Administrative**

I297.1 This equipment shall not be operated unless the facility holds 2 pounds of NO<sub>x</sub> RTCs in its allocation account to offset the annual emissions increase for the first year of operation. RTCs held to satisfy this condition may be transferred only after one year from the initial start of operation. If the hold amount is partially satisfied by holding RTCs that expire midway through the hold period, those RTCs may be transferred upon their respective expiration dates. This hold amount is in addition to any other amount of RTCs required to be held under other condition(s) stated in this permit.

[RULE 2005, 6-3-2011]

[Devices subject to this condition : C978]

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

### SECTION I: PLANS AND SCHEDULES

This section lists all plans approved by AQMD for the purposes of meeting the requirements of applicable AQMD rules specified below. The operator shall comply with all conditions specified in the approval of these plans, with the following exceptions:

- a. The operator does not have to comply with NO<sub>x</sub> or SO<sub>x</sub> emission limits from rules identified in Table 1 or Table 2 of Rule 2001(j) which become effective after December 31, 1993.
- b. The operator does not have to comply with NO<sub>x</sub> or SO<sub>x</sub> emission limits from rules identified in Table 1 or Table 2 of Rule 2001(j) after the facility has received final certification of all monitoring and reporting requirements specified in Section F and Section G.

Documents pertaining to the plan applications listed below are available for public review at AQMD Headquarters. Any changes to plan applications will require permit modification in accordance with Title V permit revision procedures.

#### List of approved plans:

Application	Rule
539607	2002
539609	1123
539610	1176
539611	63SubpartUUU
539616	1173
539618	1118
550633	1166

NOTE: This section does not list compliance schedules pursuant to the requirements of Regulation XXX - Title V Permits; Rule 3004(a)(10)(C). For equipment subject to a variance, order for abatement, or alternative operating condition granted pursuant to Rule 518.2, equipment specific conditions are added to the equipment in Section D or H of the permit.