# FACILITY PERMIT TO OPERATE

## BP WEST COAST PROD.LLC BP CARSON REF.
## 2350 E 223RD ST
## CARSON, CA 90749

## 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
# BP WEST COAST PROD.LLC BP CARSON REF.

## TABLE OF CONTENTS


| Section | Description | Revision # | Date Issued |
|---|---|---|---|
| A | Facility Information | 7 | 02/16/2012 |
| B | RECLAIM Annual Emission Allocation | 19 | 07/01/2012 |
| C | Facility Plot Plan | TO BE DEVELOPED | |
| D | Facility Description and Equipment Specific Conditions | 36 | 05/10/2013 |
| E | Administrative Conditions | 5 | 09/01/2009 |
| F | RECLAIM Monitoring and Source Testing Requirements | 4 | 09/01/2009 |
| G | Recordkeeping and Reporting Requirements for RECLAIM Sources | 5 | 09/01/2009 |
| H | Permit To Construct and Temporary Permit to Operate | 53 | 05/03/2013 |
| I | Compliance Plans & Schedules | 11 | 01/15/2013 |
| J | Air Toxics | 1 | 09/01/2009 |
| K | Title V Administration | 2 | 10/05/2011 |

Appendix

| | | | |
|---|---|---|---|
| A | NOx and SOx Emitting Equipment Exempt From Written Permit Pursuant to Rule 219 | 4 | 09/01/2009 |
| B | Rule Emission Limits | 2 | 09/01/2009 |

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## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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|---|---|---|---|---|---|
| **Process 1: CRUDE DISTILLATION** | | | | | |
| **System 1: NO.1 CRUDE UNIT** | | | | | S13.2, S46.1, S46.2, S56.1 |
| TOWER, RGO STRIPPER, RPV-4202, HEIGHT: 20 FT ; DIAMETER: 5 FT<br>A/N: | D1 | | | | |
| TOWER, RPV-4200, CRUDE, WITH RELIEF VALVE VENTED TO FLARE NO. 5, HEIGHT: 137 FT ; DIAMETER: 16 FT 6 IN<br>A/N: | D2 | | | | |
| TOWER, SIDE STRIPPER, RPV-4201A, STOVE OIL, HEIGHT: 33 FT 4 IN; DIAMETER: 6 FT 6 IN<br>A/N: | D3 | | | | |
| TOWER, DIESEL STRIPPER, RPV-4201B, HEIGHT: 35 FT 1 IN; DIAMETER: 6 FT 6 IN<br>A/N: | D4 | | | | |
| TANK, FLASH, RPV-4205, CRUDE, HEIGHT: 30 FT ; DIAMETER: 10 FT<br>A/N: | D5 | | | | |
| VESSEL, DESALTER, SECOND STAGE, RPV-4206, LENGTH: 100 FT ; DIAMETER: 13 FT<br>A/N: | D6 | | | | |
| VESSEL, DESALTER, FIRST STAGE, RPV-4207, LENGTH: 100 FT ; DIAMETER: 13 FT<br>A/N: | D7 | | | | |

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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.)
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| **Process 1: CRUDE DISTILLATION** | | | | | |
| ACCUMULATOR, RPV 4209, CRUDE TOWER OVERHEAD, WITH PRESSURE RELIEF VALVE VENTED TO FLARE NO.5, HEIGHT: 26 FT ; DIAMETER: 9 FT<br>A/N: | D8 | | | | |
| FUGITIVE EMISSIONS, MISCELLANEOUS<br>A/N: | D2459 | | | **HAP**: (10) [**40CFR 63 Subpart CC, #5A, 6-23-2003**] | H23.3 |
| **System 2: NO.2 CRUDE DISTILLATION UNIT** | | | | | S13.2, S46.1, S46.2, S56.1 |
| TOWER, RPV-2900, CRUDE, WITH RELIEF VALVE VENTED TO ATMOSPHERE, HEIGHT: 99 FT 6 IN; DIAMETER: 12 FT<br>A/N: 429497 | D10 | | | | |
| TOWER, DIESEL STRIPPER/STOVE OIL STRIPPER, RPV-2901, HEIGHT: 37 FT ; DIAMETER: 5 FT<br>A/N: 429497 | D11 | | | | |
| TOWER, NAPHTHA SPLITTER, RPV-2902, WITH RELIEF VALVE VENTED TO ATMOSPHERE, HEIGHT: 71 FT 6 IN; DIAMETER: 7 FT<br>A/N: 429497 | D12 | | | | |
| TOWER, DEBUTANIZER, RPV-2903, WITH RELIEF VALVE VENTED TO ATMOSPHERE, HEIGHT: 73 FT 2 IN; DIAMETER: 3 FT 6 IN<br>A/N: 429497 | D13 | | | | |

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| **Process 1: CRUDE DISTILLATION** | | | | | |
| VESSEL, DESALTER, FIRST STAGE, RPV-2906, CRUDE OIL, LENGTH: 37 FT ; DIAMETER: 12 FT<br>A/N: 429497 | D14 | | | | |
| ACCUMULATOR, RPV-2907, CRUDE TOWER OVERHEAD, LENGTH: 29 FT ; DIAMETER: 8 FT<br>A/N: 429497 | D15 | | | | |
| ACCUMULATOR, RPV-2908, NAPHTHA SPLITTER REFLUX, LENGTH: 18 FT ; DIAMETER: 6 FT 6 IN<br>A/N: 429497 | D16 | | | | |
| ACCUMULATOR, RPV-2909, DEBUTANIZER REFLUX, LENGTH: 12 FT ; DIAMETER: 4 FT<br>A/N: 429497 | D17 | | | | |
| DRUM, NAPHTHA SPLITTER DEWATERING, RPV-5933, HEIGHT: 6 FT ; DIAMETER: 1 FT<br>A/N: 429497 | D18 | | | | |
| VESSEL, DESALTER, SECOND STAGE, RPV-2936, LENGTH: 34 FT ; DIAMETER: 12 FT<br>A/N: 429497 | D2933 | | | | |
| DRUM, DEBUTANIZER DEWATERING, RPV-5472, HEIGHT: 4 FT ; DIAMETER: 3 FT<br>A/N: 429497 | D2934 | | | | |
| FUGITIVE EMISSIONS, MISCELLANEOUS<br>A/N: 429497 | D2460 | | | **HAP**: (10) [**40CFR 63 Subpart CC, #5A, 6-23-2003**] | H23.3 |

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| **Process 1: CRUDE DISTILLATION** | | | | | |
| **System 3: NO.4 CRUDE DISTILLATION UNIT** | | | | | S13.2, S46.1, S46.2, S56.1 |
| TOWER, RPV-607, CRUDE, HEIGHT: 83 FT 8 IN; DIAMETER: 10 FT 6 IN A/N: 395630 | D19 | | | | |
| ACCUMULATOR, RPV-648, CRUDE TOWER OVERHEAD, LENGTH: 16 FT 9 IN; DIAMETER: 5 FT 6 IN A/N: 395630 | D20 | | | | |
| ACCUMULATOR, RPV-625, CRUDE STRIPPER OVERHEAD, HEIGHT: 10 FT ; DIAMETER: 4 FT A/N: 395630 | D21 | | | | |
| VESSEL, SEPARATOR, RPV-626, CRUDE TOWER OVERHEAD WATER, HEIGHT: 9 FT 6 IN; DIAMETER: 2 FT 11 IN A/N: 395630 | D22 | | | | |
| TOWER, DIESEL, STOVE OIL & NAPHTHA STRIPPER, RPV-672A&B, HEIGHT: 53 FT ; DIAMETER: 4 FT A/N: 395630 | D23 | | | | |
| VESSEL, DESALTER, RPV-645, CRUDE, HEIGHT: 40 FT ; DIAMETER: 12 FT A/N: 395630 | D24 | | | | |
| TOWER, CRUDE STRIPPER, RPV-646, HEIGHT: 59 FT ; DIAMETER: 10 FT A/N: 395630 | D25 | | | | |
| TANK, COLLECTION, RPV 5564, CRUDE UNIT WATER, HEIGHT: 7 FT ; DIAMETER: 3 FT 6 IN A/N: 395630 | D26 | | | **BENZENE**: (10) [**40CFR 61 Subpart FF, #2, 12-4-2003**] | H23.12 |

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| **Process 1: CRUDE DISTILLATION** | | | | | |
| VESSEL, SEPARATOR, RPV 3210, FUEL GAS, HEIGHT: 20 FT 6 IN; DIAMETER: 3 FT 6 IN<br>A/N: 395630 | D39 | | | | |
| ACCUMULATOR, RPV-5724, CRUDE STRIPPER OVERHEAD, HEIGHT: 16 FT 6 IN; DIAMETER: 5 FT 6 IN<br>A/N: 395630 | D1332 | | | | |
| FUGITIVE EMISSIONS, MISCELLANEOUS<br>A/N: 395630 | D2461 | | | **HAP**: (10) [**40CFR 63 Subpart CC, #5A, 6-23-2003**] | H23.3 |
| **System 4: CRUDE DISTILLATION UNIT HEATERS** | | | | | |
| HEATER, NO.1 CRUDE OIL DISTILLATION, REFINERY GAS, WITH LOW NOX BURNER, 550 MMBTU/HR WITH<br>A/N: 395997<br><br>BURNER, SIXTEEN BURNERS, REFINERY GAS, JOHN ZINK, MODEL PFMR-13, WITH LOW NOX BURNER, 550 MMBTU/HR | D27 | | 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**] | A63.29, B61.4, D29.3, D90.4, D328.1, H23.1, K67.2 D332.1 |
| HEATER, NO. 21, NO.2 CRUDE OIL DISTILLATION CHARGE, REFINERY GAS, WITH LOW NOX BURNER, 150 MMBTU/HR WITH<br>A/N: 395610<br><br>BURNER, TWELVE(12) BURNERS, REFINERY GAS, JOHN ZINK, MODEL PSMR-16, WITH LOW NOX BURNER, 150 MMBTU/HR | D29 | | 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, D90.4, D328.1, H23.1 |

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| **Process 1: CRUDE DISTILLATION** | | | | | |
| HEATER, NO.4 CRUDE OIL DISTILLATION CHARGE, REFINERY GAS, WITH LOW EXCESS AIR FIRING, 130 MMBTU/HR WITH<br>A/N: 450144<br><br>BURNER, TEN (10) BURNERS, REFINERY GAS, CALLIDUS TECHNOLOGIES, MODEL CUBLX-10W, 10 TOTAL; 130 MMBTU/HR | D31 | | 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**] | A63.20, B61.4, D29.3, D90.4, D328.1, H23.1, K67.2 |
| HEATER, NO.22, NO. 2 CRUDE OIL DISTILLATION, REFINERY GAS, WITH LOW NOX BURNER, 100 MMBTU/HR WITH<br>A/N: 395609<br><br>BURNER, TWELVE (12) BURNERS, REFINERY GAS, CALLIDUS TECHNOLOGIES, MODEL LE-CSG-8W, WITH LOW NOX BURNER, 100 MMBTU/HR | D33 | | 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, D90.4, D328.1, H23.1 |
| **System 5: NO. 51 VACUUM DISTILLATION UNIT** | | | | | S13.2, S31.5, S56.1 |
| TANK, SURGE, FEED, RPV 6955, WITH GAS BLANKET, LENGTH: 45 FT ; DIAMETER: 13 FT<br>A/N: 425810 | D35 | | | | |
| TOWER, VACUUM, RPV 2501, HEIGHT: 135 FT ; DIAMETER: 31 FT 6 IN<br>A/N: 425810 | D2726 | | | | |

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| **Process 1: CRUDE DISTILLATION** | | | | | |
| KNOCK OUT POT, RPV 3240, OFF-GASES, HEIGHT: 8 FT ; DIAMETER: 2 FT A/N: 425810 | D38 | | | | |
| DRUM, SEAL, LENGTH: 18 FT 6 IN; DIAMETER: 6 FT A/N: 425810 | D2727 | | | | |
| POT, BLOWDOWN FLASH, RPV-5550, HEIGHT: 7 FT 8 IN; DIAMETER: 4 FT A/N: 425810 | D41 | | | | |
| DRUM, QUENCH, RPV 5546, HEIGHT: 13 FT ; DIAMETER: 5 FT A/N: 425810 | D42 | | | | |
| FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 425810 | D2462 | | | **HAP**: (10) [**40CFR 63 Subpart CC, #5A, 6-23-2003**] | H23.3 |
| **System 6: NO. 52 VACUUM DISTILLATION UNIT** | | | | | S13.2, S46.1, S46.2, S56.1 |
| TOWER, VACUUM, RPV-3400, HEIGHT: 45 FT ; DIAMETER: 10 FT A/N: | D43 | | | | |
| TANK, SURGE, RPV-3405, HEAVY GAS OIL, HEIGHT: 12 FT ; DIAMETER: 4 FT A/N: | D44 | | | | |
| TANK, SURGE, RPV-5466, RECYCLE OIL, HEIGHT: 12 FT ; DIAMETER: 3 FT A/N: | D45 | | | | |

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| **Process 1: CRUDE DISTILLATION** | | | | | |
| TANK, SURGE, RPV-3407, LIGHT GAS OIL, HEIGHT: 7 FT ; DIAMETER: 3 FT<br>A/N: | D46 | | | | |
| TANK, SURGE, RPV-3410, FEED, WITH GAS BLANKET, HEIGHT: 20 FT ; DIAMETER: 10 FT<br>A/N: | D47 | | | | |
| VESSEL, COALESCER, RPV 3412, LENGTH: 20 FT 6 IN; DIAMETER: 4 FT 6 IN<br>A/N: | D49 | | | | |
| POT, STRAINER, RPV 5478, LIGHT GAS WASH OIL, HEIGHT: 2 FT 6 IN; DIAMETER: 8 IN<br>A/N: | D56 | | | | |
| POT, STRAINER, RPV 5469, HEAVY GAS WASH OIL, HEIGHT: 2 FT 6 IN; DIAMETER: 8 IN<br>A/N: | D57 | | | | |
| POT, STRAINER, RPV 5470, HEAVY GAS OIL WASH, HEIGHT: 2 FT 6 IN; DIAMETER: 8 IN<br>A/N: | D58 | | | | |
| POT, STRAINER, RPV 5479, LIGHT GAS OIL, HEIGHT: 2 FT 6 IN; DIAMETER: 8 IN<br>A/N: | D60 | | | | |
| FUGITIVE EMISSIONS, MISCELLANEOUS<br>A/N: | D2463 | | | **HAP**: (10) [**40CFR 63 Subpart CC, #5A, 6-23-2003**] | H23.3 |
| **System 7: SLOP OIL RERUN UNIT** | | | | | S56.1 |

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| **Process 1: CRUDE DISTILLATION** | | | | | |
| DRUM, DEWATERING, RPV 107, LENGTH: 30 FT ; DIAMETER: 10 FT<br>A/N: 471488 | D59 | | | | |
| TOWER, RERUN, RPV 670, HEIGHT: 47 FT 6 IN; DIAMETER: 3 FT<br>A/N: 471488 | D61 | | | | |
| ACCUMULATOR, RPV-1027, RERUN TOWER OVERHEAD, HEIGHT: 6 FT 6 IN; DIAMETER: 5 FT<br>A/N: 471488 | D62 | | | | |
| FUGITIVE EMISSIONS, MISCELLANEOUS<br>A/N: 471488 | D2464 | | | **HAP**: (10) [**40CFR 63 Subpart CC, #5A, 6-23-2003**] | H23.3 |
| **System 8: VACUUM DISTILLATION UNIT HEATERS** | | | | | |
| HEATER, NO.51 VACUUM UNIT HEATER, BOX TYPE, NATURAL GAS, REPLACING H-401 AND H-402, WITH LOW NOX BURNER, 300 MMBTU/HR WITH<br>A/N: 395760<br><br>BURNER, 32 BURNERS, NATURAL GAS, JOHN ZINK, MODEL PSMR-17, WITH LOW NOX BURNER, 300 MMBTU/HR | D63 | C1335 | NOX: 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**] | A63.30, D29.3, D328.1, K67.2 |
| SELECTIVE CATALYTIC REDUCTION, NORTON MANUFACTURER, MODULE TYPE ZEOLITE HONEYCOMB CATALYST, 120 CU.FT.<br>A/N: 395758 | C1335 | D63 | | **NH3**: 20 PPMV (4) [**RULE 1303(a)(1)-BACT, 5-10-1996**] | D12.5, D12.6, D28.4, E57.1 |

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|---|---|---|---|---|---|
| **Process 1: CRUDE DISTILLATION** | | | | | |
| HEATER, NO.52 VACUUM UNIT, REFINERY GAS, WITH LOW NOX BURNER, 120 MMBTU/HR WITH A/N: 407216<br><br>BURNER, EIGHT BURNERS, REFINERY GAS, JOHN ZINK STAGED FUEL, WITH LOW NOX BURNER, 120 MMBTU/HR | D67 | | 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**] | A63.32, B61.4, D29.3, D90.4, D328.1, H23.1 |
| **System 9: SLOP OIL RERUN UNIT HEATERS** | | | | | |
| HEATER, REFINERY GAS, BORN, MODEL CYLINDRICAL TYPE, SLOP OIL RERUN UNIT, WITH LOW NOX BURNER, 3.9 MMBTU/HR WITH A/N: 395981<br><br>BURNER, REFINERY GAS, CALLIDUS TECHNOLOGIES, MODEL LE-CSG-4W, WITH LOW NOX BURNER, 3.9 MMBTU/HR | D69 | | NOX: PROCESS UNIT**; SOX: MAJOR SOURCE** | **CO**: 400 PPMV (5A) [RULE 1146, 9-5-2008; **RULE 1146.1, 5-13-1994**]; **CO**: 2000 PPMV (5) [**RULE 407, 4-2-1982**]; **NOX**: 0.1 LBS/MMBTU REFINERY GAS (1) [**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, D90.4, D332.1, H23.1, K67.2 |
| **Process 2: COKING AND RESIDUAL CONDITIONING** | | | | | |
| **System 1: DELAYED COKING UNIT NO.1** | | | | | S13.2, S46.1, S46.2, S56.1 |
| COKE DRUM, RPV 1958, NO. 1, HEIGHT: 73 FT ; DIAMETER: 21 FT 6 IN<br>A/N: | D70 | | | **PM**: (9) [**RULE 405, 2-7-1986**] | |

* (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
# BP WEST COAST PROD.LLC BP CARSON REF.

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

| Equipment | ID No. | Connected To | RECLAIM Source Type/ Monitoring Unit | Emissions * And Requirements | Conditions |
|---|---|---|---|---|---|
| **Process 2: COKING AND RESIDUAL CONDITIONING** | | | | | |
| COKE DRUM, RPV 1959, NO. 2, HEIGHT: 73 FT ; DIAMETER: 21 FT 6 IN<br>A/N: | D71 | | | **PM**: (9) [**RULE 405, 2-7-1986**] | |
| COKE DRUM, RPV 1960, NO. 3,, HEIGHT: 73 FT ; DIAMETER: 21 FT 6 IN<br>A/N: | D72 | | | **PM**: (9) [**RULE 405, 2-7-1986**] | |
| COKE DRUM, RPV 1961, NO. 4, HEIGHT: 73 FT ; DIAMETER: 21 FT 6 IN<br>A/N: | D73 | | | **PM**: (9) [**RULE 405, 2-7-1986**] | |
| FRACTIONATOR, COKER, RPV 1950, T-1, HEIGHT: 129 FT ; DIAMETER: 12 FT 6 IN<br>A/N: | D74 | | | | |
| COLUMN, STRIPPER, RPV 1951, STOVE OIL, HEIGHT: 19 FT 3 IN; DIAMETER: 4 FT<br>A/N: | D75 | | | | |
| COLUMN, STRIPPER, RPV 1952, LIGHT GAS OIL, HEIGHT: 19 FT 3 IN; DIAMETER: 4 FT<br>A/N: | D76 | | | | |
| ACCUMULATOR, RPV 1963, FRACTIONATOR OVERHEAD, WITH SOUR WATER BOOT WI, LENGTH: 24 FT 9 IN; DIAMETER: 8 FT<br>A/N: | D78 | | | **BENZENE**: (10) [**40CFR 61 Subpart FF, #2, 12-4-2003**];<br>**VOC**: 500 PPMV (8) [**40CFR 61 Subpart FF, 12-4-2003**] | H23.12 |

* (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
# BP WEST COAST PROD.LLC BP CARSON REF.

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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|---|---|---|---|---|---|
| **Process 2: COKING AND RESIDUAL CONDITIONING** | | | | | |
| DRUM, BLOWDOWN KNOCKOUT, RPV 1957, D-8, (COMMON TO COKER NO. 1 AND BLOWDOWN FACILITY), HEIGHT: 42 FT ; DIAMETER: 12 FT<br>A/N: | D79 | | | | |
| PIT, COKE, COMMON TO #1 COKER AND #2 COKER, WIDTH: 40 FT ; DEPTH: 29 FT ; LENGTH: 162 FT<br>A/N: | D81 | | | | |
| FILTER, FUEL GAS, RW 6090 289.02, HEIGHT: 10 FT 7 IN; DIAMETER: 2 FT 8 IN<br>A/N: | D2388 | | | | |
| FUGITIVE EMISSIONS, MISCELLANEOUS<br>A/N: | D2465 | | | **HAP**: (10) [**40CFR 63 Subpart CC, #5A, 6-23-2003**] | H23.3 |
| **System 2: DELAYED COKING UNIT NO.2** | | | | | S13.2, S46.1, S46.2, S56.1 |
| PIT, COKE, COMMON TO #1 COKER AND #2 COKER, WIDTH: 40 FT ; DEPTH: 29 FT ; LENGTH: 162 FT<br>A/N: | D81 | | | | |
| FRACTIONATOR, COKER, RPV-1360, T2-1, HEIGHT: 157 FT ; DIAMETER: 12 FT 6 IN<br>A/N: 429502 | D82 | | | | |
| COLUMN, STRIPPER, RPV 1361, STOVE OIL, HEIGHT: 19 FT 4 IN; DIAMETER: 4 FT<br>A/N: 429502 | D83 | | | | |

* (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
# BP WEST COAST PROD.LLC BP CARSON REF.

## 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 |
|---|---|---|---|---|---|
| **Process 2: COKING AND RESIDUAL CONDITIONING** | | | | | |
| COLUMN, STRIPPER, RPV 1362,T2-2A,2B, HEIGHT: 20 FT 1 IN; DIAMETER: 4 FT<br>A/N: 429502 | D84 | | | | |
| COKE DRUM, RPV 1365, NO. 5, D2-1A, HEIGHT: 97 FT ; DIAMETER: 21 FT 6 IN<br>A/N: 429502 | D85 | | | **PM**: (9) [**RULE 405, 2-7-1986**] | |
| COKE DRUM, RPV 1366, NO. 6, D2-1B, HEIGHT: 97 FT ; DIAMETER: 21 FT 6 IN<br>A/N: 429502 | D86 | | | **PM**: (9) [**RULE 405, 2-7-1986**] | |
| ACCUMULATOR, RPV 1368, D2-2, FRACTIONATOR OVERHEAD, WITH SOUR WATER BOOT, HEIGHT: 25 FT ; DIAMETER: 8 FT<br>A/N: 429502 | D87 | | | | |
| KNOCK OUT POT, BLOWDOWN, RPV 1371, D2-8, (COMMON TO COKER NO. 2 AND COMPRESSION UNIT), HEIGHT: 42 FT ; DIAMETER: 12 FT<br>A/N: 429502 | D88 | | | | |
| DRUM, STEAM BLOWDOWN, RPV 1369, HEIGHT: 6 FT ; DIAMETER: 2 FT 6 IN<br>A/N: 429502 | D89 | | | | |
| DRUM, BLOWDOWN SETTLING, RPV 1372, HEIGHT: 39 FT 8 IN; DIAMETER: 10 FT<br>A/N: 429502 | D90 | | | | |

* (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
# BP WEST COAST PROD.LLC BP CARSON REF.

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

| Equipment | ID No. | Connected To | RECLAIM Source Type/ Monitoring Unit | Emissions * And Requirements | Conditions |
|---|---|---|---|---|---|
| **Process 2: COKING AND RESIDUAL CONDITIONING** | | | | | |
| DRUM, BLOWDOWN QUENCH, RPV 1373, HEIGHT: 24 FT 3 IN; DIAMETER: 3 FT 6 IN<br>A/N: 429502 | D91 | | | | |
| POT, STRAINER, BLOWDOWN SUCTION, RPV 5509 AND 5510, HEIGHT: 2 FT 7 IN; DIAMETER: 1 FT 4 IN<br>A/N: 429502 | D92 | | | | |
| FILTER, FUEL GAS, RW 5930 289.02, HEIGHT: 11 FT 3 IN; DIAMETER: 1 FT 10 IN<br>A/N: 429502 | D2389 | | | | |
| FUGITIVE EMISSIONS, MISCELLANEOUS<br>A/N: 429502 | D2466 | | | **HAP**: (10) [**40CFR 63 Subpart CC, #5A, 6-23-2003**] | H23.3 |
| **System 3: DELAYED COKER NO.1 BLOWDOWN FACILITY** | | | | | S13.2, S56.1 |
| DRUM, BLOWDOWN KNOCKOUT, RPV 1957, D-8, (COMMON TO COKER NO. 1 AND BLOWDOWN FACILITY), HEIGHT: 42 FT ; DIAMETER: 12 FT<br>A/N: | D79 | | | | |
| DRUM, BLOWDOWN SETTLING, RPV 1955, D-9, LENGTH: 40 FT ; DIAMETER: 10 FT<br>A/N: 435095 | D94 | | | | |
| KNOCK OUT POT, BLOWDOWN AFTERCONDENSER, RPV 4300, D-12, WITH VAPOR RECOVERY SYSTEM, HEIGHT: 12 FT ; DIAMETER: 6 FT<br>A/N: 435095 | D95 | | | | |

* (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
# BP WEST COAST PROD.LLC BP CARSON REF.

## 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 |
|---|---|---|---|---|---|
| **Process 2: COKING AND RESIDUAL CONDITIONING** | | | | | |
| FUGITIVE EMISSIONS, MISCELLANEOUS<br>A/N: 435095 | D2467 | | | **HAP**: (10) [**40CFR 63 Subpart CC, #5A, 6-23-2003**] | H23.3 |
| **System 5: DELAYED COKER GAS COMPRESSION& LEAN OIL ABSORPTION UNIT** | | | | | S13.2, S18.8, S56.1 |
| KNOCK OUT POT, BLOWDOWN, RPV 1371, D2-8, (COMMON TO COKER NO. 2 AND COMPRESSION UNIT), HEIGHT: 42 FT ; DIAMETER: 12 FT<br>A/N: 429502 | D88 | | | | |
| DRUM, BLOWDOWN SETTLING , RPV 1372, D-2-9, COMMON TO #2 COKER, LENGTH: 40 FT ; DIAMETER: 10 FT<br>A/N: 438615 | D98 | | | | |
| TANK, FLASH, 2ND STAGE GAS COMINGLER, RPV 1969, LENGTH: 14 FT ; DIAMETER: 5 FT<br>A/N: 438615 | D101 | | | | |
| ABSORBER, RPV-4350, LEAN OIL (V-B-300), HEIGHT: 74 FT ; DIAMETER: 8 FT 6 IN<br>A/N: 438615 | D102 | | | | |
| COMPRESSOR, RW-11 08706, 1ST STAGE GAS, CENTRIFUGAL WITH OIL SEALS, CAPACITY 1.86 MMSCFH<br>A/N: 438615 | D103 | | | | |
| COMPRESSOR, 2ND STAGE , RW 12 08706, CENTRIFUGAL WITH OIL SEALS, CAPACITY 0.55 MMSCFH<br>A/N: 438615 | D104 | | | | |

* (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
# BP WEST COAST PROD.LLC BP CARSON REF.

## 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 |
|---|---|---|---|---|---|
| **Process 2: COKING AND RESIDUAL CONDITIONING** | | | | | |
| KNOCK OUT POT, NORTH CONTACTOR INLET,RPV 4356, HEIGHT: 10 FT 8 IN; DIAMETER: 5 FT 6 IN<br>A/N: 438615 | D105 | | | | |
| FUGITIVE EMISSIONS, MISCELLANEOUS<br>A/N: 438615 | D2468 | | | **HAP**: (10) [**40CFR 63 Subpart CC, #5A, 6-23-2003**] | H23.3 |
| **System 6: BLOWDOWN GAS COMPRESSION SYSTEM** | | | | | S13.2, S18.7, S31.6, S56.1 |
| COMPRESSOR, A, BLOWDOWN RECOVERY RECIPROCATING, RW 0042 087.32, 2 STAGE WITH INTER-STAGE COOLING<br>A/N: | D111 | | | | |
| COMPRESSOR, B, BLOWDOWN RECOVERY RECIPROCATING, RW 0043 087.32, 2 STAGE WITH INTER-STAGE COOLING<br>A/N: | D112 | | | | |
| COMPRESSOR, C, BLOWDOWN RECOVERY RECIPROCATING, RW 0044 087.32, 2 STAGE WITH INTER-STAGE COOLING<br>A/N: | D113 | | | | |
| FUGITIVE EMISSIONS, MISCELLANEOUS<br>A/N: | D2469 | | | **HAP**: (10) [**40CFR 63 Subpart CC, #5A, 6-23-2003**] | H23.3 |
| **System 8: RAW PETROLEUM COKE HANDLING AND STORAGE** | | | | | S7.2, S7.3, S13.1 |
| HOPPER, RECEIVING, 15 TONS<br>A/N: | D121 | | | **PM**: (9) [**RULE 405, 2-7-1986**] | A63.25, A103.1, D323.2 |

* (1) (1A) (1B) Denotes RECLAIM emission factor
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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
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## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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|---|---|---|---|---|---|
| **Process 2: COKING AND RESIDUAL CONDITIONING** | | | | | |
| HOPPER, RECEIVING, 15 TONS<br>A/N: | D122 | | | **PM**: (9) [**RULE 405, 2-7-1986**] | A63.25,<br>A103.1,<br>D323.2 |
| FEEDER, VIBRATING, RW 0003 271.02, HEWITT-ROBINS, STYLE E-9, 7 1/2 H.P.<br>A/N: | D124 | | | **PM**: (9) [**RULE 405, 2-7-1986**] | A63.25,<br>D323.2 |
| CONVEYOR, BELT, NO.1A, RW 560 35601, PETROLEUM COKE, 20 H.P.<br>A/N: | D127 | | | **PM**: (9) [**RULE 405, 2-7-1986**] | A63.25,<br>D323.2,<br>E204.4 |
| CONVEYOR, BELT, NO.1B, RW 777 35601, PETROLEUM COKE, 20 H.P.<br>A/N: | D128 | | | **PM**: (9) [**RULE 405, 2-7-1986**] | A63.25,<br>D323.2,<br>E204.4 |
| CONVEYOR, NO.2, RW 778 35601, 20 H.P.<br>A/N: | D129 | | | **PM**: (9) [**RULE 405, 2-7-1986**] | A63.25,<br>D323.2,<br>E204.4 |
| CONVEYOR, BELT, NO.3, RW 779 35601, PETROLEUM COKE, 20 H.P.<br>A/N: | D130 | | | **PM**: (9) [**RULE 405, 2-7-1986**] | A63.25,<br>D323.2,<br>E204.4 |
| CONVEYOR, BELT, NO.4, RW 780 35601, 50 H.P., (LOCATED IN TUNNEL UNDER SOUTHERN PACIFIC AND, PETROLEUM COKE, PACIFIC ELECTRIC RAILROADS AND ALAMEDA STREET)<br>A/N: | D131 | | | **PM**: (9) [**RULE 405, 2-7-1986**] | A63.25,<br>D323.2,<br>E204.4 |
| CONVEYOR, BELT, NO.5, RW 415 35601, PETROLEUM COKE, 40 H.P.<br>A/N: | D132 | | | **PM**: (9) [**RULE 405, 2-7-1986**] | A63.25,<br>D323.2,<br>E204.4 |

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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
(10) See section J for NESHAP/MACT requirements

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

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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|---|---|---|---|---|---|
| **Process 2: COKING AND RESIDUAL CONDITIONING** | | | | | |
| CONVEYOR, BELT, NO.6, RW 782 35601, PETROLEUM COKE, 10 H.P. (REVERSIBLE-LOCATED IN SCREEN HOUSE) A/N: | D133 | | | **PM**: (9) [**RULE 405, 2-7-1986**] | A63.25, D323.2, E204.3, E204.4 |
| CONVEYOR, BELT, NO.7, RW 691 35601, PETROLEUM COKE, 5 H.P. A/N: | D134 | | | **PM**: (9) [**RULE 405, 2-7-1986**] | A63.25, D323.2, E204.3, E204.4 |
| CONVEYOR, BELT, NO.8, RW 693 35601, PETROLEUM COKE, 3 H.P. (LOCATED IN SCREEN HOUSE) A/N: | D135 | | | **PM**: (9) [**RULE 405, 2-7-1986**] | A63.25, D323.2, E204.3, E204.4 |
| CONVEYOR, BELT, NO.9, RW 692 35601, PETROLEUM COKE, 3 H.P. (REVERSIBLE-LOCATED IN SCREEN HOUSE) A/N: | D136 | | | **PM**: (9) [**RULE 405, 2-7-1986**] | A63.25, D323.2, E204.3, E204.4 |
| CONVEYOR, BELT, NO.10, RW 420 35601, PETROLEUM COKE, 5 H.P. A/N: | D137 | | | **PM**: (9) [**RULE 405, 2-7-1986**] | A63.25, D323.2, E204.3, E204.4 |
| CONVEYOR, BELT, NO.11, RW 421 35601, PETROLEUM COKE, 30 H.P. A/N: | D138 | | | **PM**: (9) [**RULE 405, 2-7-1986**] | A63.25, D323.2, E204.3, E204.4 |
| CONVEYOR, BELT, NO.12, RW 422 35601, PETROLEUM COKE, 20 H.P. A/N: | D139 | | | **PM**: (9) [**RULE 405, 2-7-1986**] | A63.25, D323.2, E204.3, E204.4 |

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

## 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 |
|---|---|---|---|---|---|
| **Process 2: COKING AND RESIDUAL CONDITIONING** | | | | | |
| CONVEYOR, BELT, NO.13, RW 783 35601, PETROLEUM COKE, REVERSIBLE SHUTTLE TYPE WITH 10 H.P. DRIVE MOTOR<br>A/N: | D140 | | | **PM**: (9) [**RULE 405, 2-7-1986**] | A63.25, D323.2, E204.3, E204.4 |
| CRUSHER, #2 COKER, COKE, RW 4 12304, 75 HP MOTOR<br>A/N: | D141 | | | **PM**: (9) [**RULE 405, 2-7-1986**] | A63.25, D323.2 |
| FEEDER, #1, VIBRATING, RW 5 17102<br>A/N: | D142 | | | **PM**: (9) [**RULE 405, 2-7-1986**] | A63.25, D323.2 |
| CRUSHER, COKE, #1A COKER, RW 1 12304, 70 HP MOTOR<br>A/N: | D143 | | | **PM**: (9) [**RULE 405, 2-7-1986**] | A63.25, D323.2 |
| FEEDER, #1, VIBRATING, RW 5 17102<br>A/N: | D144 | | | **PM**: (9) [**RULE 405, 2-7-1986**] | A63.25, D323.2 |
| CONVEYOR, 1A, RW 5 17102<br>A/N: | D145 | | | **PM**: (9) [**RULE 405, 2-7-1986**] | A63.25, D323.2 |
| STORAGE BUILDING, PETROLEUM COKE STORAGE BUILDING, WIDTH: 190 FT ; HEIGHT: 96 FT 6 IN; LENGTH: 575 FT<br>A/N: | D146 | | | **PM**: (9) [**RULE 405, 2-7-1986**] | A63.25, D323.2 |
| **System 9: EMERGENCY RAW PETROLEUM COKE HANDLING & STORAGE** | | | | | S7.4, S13.1 |
| HOPPER, RECEIVING, 15 TONS<br>A/N: | D121 | | | **PM**: (9) [**RULE 405, 2-7-1986**] | A63.25, A103.1, D323.2 |
| HOPPER, RECEIVING, 15 TONS<br>A/N: | D122 | | | **PM**: (9) [**RULE 405, 2-7-1986**] | A63.25, A103.1, D323.2 |
| FEEDER, VIBRATING, RW 0003 271.02, HEWITT-ROBINS, STYLE E-9, 7 1/2 H.P.<br>A/N: | D124 | | | **PM**: (9) [**RULE 405, 2-7-1986**] | A63.25, D323.2 |

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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
(10) See section J for NESHAP/MACT requirements

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

## 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 |
|---|---|---|---|---|---|
| **Process 2: COKING AND RESIDUAL CONDITIONING** | | | | | |
| CONVEYOR, BELT, NO.1A, RW 560 35601, PETROLEUM COKE, 20 H.P.<br>A/N: | D127 | | | **PM**: (9) [**RULE 405, 2-7-1986**] | A63.25, D323.2, E204.4 |
| CONVEYOR, BELT, NO.1B, RW 777 35601, PETROLEUM COKE, 20 H.P.<br>A/N: | D128 | | | **PM**: (9) [**RULE 405, 2-7-1986**] | A63.25, D323.2, E204.4 |
| CONVEYOR, NO.2, RW 778 35601, 20 H.P.<br>A/N: | D129 | | | **PM**: (9) [**RULE 405, 2-7-1986**] | A63.25, D323.2, E204.4 |
| CONVEYOR, BELT, NO.3, RW 779 35601, PETROLEUM COKE, 20 H.P.<br>A/N: | D130 | | | **PM**: (9) [**RULE 405, 2-7-1986**] | A63.25, D323.2, E204.4 |
| CONVEYOR, BELT, NO.4, RW 780 35601, 50 H.P., (LOCATED IN TUNNEL UNDER SOUTHERN PACIFIC AND, PETROLEUM COKE, PACIFIC ELECTRIC RAILROADS AND ALAMEDA STREET)<br>A/N: | D131 | | | **PM**: (9) [**RULE 405, 2-7-1986**] | A63.25, D323.2, E204.4 |
| CONVEYOR, STACKER BELT, NO. 16, RW 695 35601, WITH A 10 H.P. MOTOR, COVERED<br>A/N: | D147 | | | **PM**: (9) [**RULE 405, 2-7-1986**] | A63.25, D323.2, E204.5 |
| OPEN STORAGE PILE, COKE, 8000 TON CONCRETE STORAGE AREA, WITH WATER SPRAY AND A BACKSTOP WALL<br>A/N: | D148 | | | **PM**: (9) [**RULE 405, 2-7-1986**] | A63.25, A103.1, D323.2, E204.1, E204.2 |
| HOPPER, RERUN COKE AND PIT<br>A/N: | D149 | | | **PM**: (9) [**RULE 405, 2-7-1986**] | A63.25, D323.2 |

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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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# BP WEST COAST PROD.LLC BP CARSON REF.

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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|---|---|---|---|---|---|
| **Process 2: COKING AND RESIDUAL CONDITIONING** | | | | | |
| CONVEYOR, RERUN BELT, NO. 17, RW 696 35601, WITH 30 H.P. MOTOR, COVERED<br>A/N: | D150 | | | **PM**: (9) [**RULE 405, 2-7-1986**] | A63.25, D323.2, E204.5, E204.6 |
| **System 10: HEATERS** | | | | | |
| HEATER, NO. 1 DELAYED COKER UNIT(WEST), REFINERY GAS, WITH LOW NOX BURNER, 130 MMBTU/HR WITH<br>A/N: 462536<br><br>BURNER, TWENTY FOUR(24) BURNERS, REFINERY GAS, CALLIDUS, MODEL LE-CFSG-6W, WITH LOW NOX BURNER, 130 MMBTU/HR | D151 | | 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, C1.23, D90.4, D328.1, H23.1, K67.2 |
| HEATER, NO. 1 DELAYED COKER UNIT(EAST), REFINERY GAS, WITH LOW NOX BURNER, 130 MMBTU/HR WITH<br>A/N: 462537<br><br>BURNER, TWENTY FOUR(24) BURNERS, REFINERY GAS, CALLIDUS, MODEL LE-CFSG-6W, WITH LOW NOX BURNER, 130 MMBTU/HR | D153 | | 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, C1.23, D90.4, D328.1, H23.1, K67.2 |

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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.)
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# BP WEST COAST PROD.LLC BP CARSON REF.

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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|---|---|---|---|---|---|
| **Process 2: COKING AND RESIDUAL CONDITIONING** | | | | | |
| HEATER, NO. 1, DELAYED COKER UNIT NO. 2, REFINERY GAS, FOSTER WHEELER, MODEL SERIAL NO 1685, WITH LOW NOX BURNER, 130 MMBTU/HR WITH<br>A/N: 395827<br><br>BURNER, TWENTY FOUR (24) BURNERS, REFINERY GAS, CALLIDUS, MODEL LE-CFSG-6W, WITH LOW NOX BURNER, 130 MMBTU/HR | D155 | | 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**] | A63.16, B61.4, C1.23, D29.3, D90.4, D328.1, H23.1, K67.2 |
| **System 11: COKER GAS TREATING/H2S ABSORPTION** | | | | | S13.2, S15.6, S18.9, S31.10, S56.1 |
| KNOCK OUT POT, (V-B-103B) RPV 1670, SOUTH MDEA CONTACTOR FEED, HEIGHT: 54 FT 8 IN; DIAMETER: 6 FT<br>A/N: | D158 | | | | |
| VESSEL, NORTH MDEA CONTACTOR, (V-B-104A) RPV 1953, HEIGHT: 54 FT 8 IN; DIAMETER: 6 FT 6 IN<br>A/N: | D159 | | | | |
| VESSEL, SOUTH MDEA CONTACTOR, (V-B-104B) RPV-1669, HEIGHT: 45 FT ; DIAMETER: 6 FT 6 IN<br>A/N: | D160 | | | | |

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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
# BP WEST COAST PROD.LLC BP CARSON REF.

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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|---|---|---|---|---|---|
| **Process 2: COKING AND RESIDUAL CONDITIONING** | | | | | |
| KNOCK OUT POT, NORTH MDEA CONTACTOR OUTLET, (V-B-105A) RPV-1970, HEIGHT: 9 FT 6 IN; DIAMETER: 2 FT 6 IN A/N: | D161 | | | | |
| KNOCK OUT POT, NORTH MDEA CONTACTOR OUTLET, (V-B-105B) RPV-1671, HEIGHT: 9 FT 6 IN; DIAMETER: 2 FT 6 IN A/N: | D162 | | | | |
| FUGITIVE EMISSIONS, MISCELLANEOUS A/N: | D2470 | | | **HAP**: (10) [**40CFR 63 Subpart CC, #5A, 6-23-2003**] | H23.3 |
| **Process 3: FLUID CATALYTIC CRACKING** | | | | | |
| **System 1: FLUID CATALYTIC CRACKING UNIT** | | | | | S13.2, S31.9, S42.1, S56.1 |

* (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.)
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# FACILITY PERMIT TO OPERATE
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## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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|---|---|---|---|---|---|
| **Process 3: FLUID CATALYTIC CRACKING** | | | | | |
| REGENERATOR, RPV-2318, HEIGHT: 81 FT 3 IN; DIAMETER: 51 FT 8 IN<br>A/N: | D164 | | NOX: MAJOR SOURCE**; SOX: MAJOR SOURCE** | **CO**: 500 PPMV (5A) [ **CONSENT DECREE CIVIL NO. 2:96 CV 095 RL, 8-29-2001**]; **CO**: 2000 PPMV (5) [**RULE 407, 4-2-1982**]; **HAP**: (10) [**40CFR 63 Subpart UUU, #2, 4-20-2006**]; **NOX**: 40 PPMV (5A) [ **CONSENT DECREE CIVIL NO. 2:96 CV 095 RL, 8-29-2001**]; **NOX**: 72 PPMV (5B) [ **CONSENT DECREE CIVIL NO. 2:96 CV 095 RL, 8-29-2001**]; **PM**: (9) [**RULE 404, 2-7-1986; RULE 405, 2-7-1986**]; **PM**: 0.1 GRAINS/SCF (5) [**RULE 409, 8-7-1981**]; **SO2**: 162 PPMV (5A) [ **CONSENT DECREE CIVIL NO. 2:96 CV 095 RL, 8-29-2001**]; **SO2**: 236 PPMV (5B) [ **CONSENT DECREE CIVIL NO. 2:96 CV 095 RL, 8-29-2001**] | A195.1, A195.2, A195.3, A195.4, A195.6, D29.8, D82.4, D323.3 |
| COLUMN, STRIPPER, RPV 2321, LIGHT CYCLE OIL, HEIGHT: 19 FT 6 IN; DIAMETER: 7 FT 6 IN<br>A/N: | D165 | | | | |
| FRACTIONATOR, MAIN, RPV-2322, HEIGHT: 99 FT 9 IN; DIAMETER: 27 FT<br>A/N: | D166 | | | | |
| REACTOR, DISENGAGER, RPV 2323, HEIGHT: 96 FT 7 IN; DIAMETER: 39 FT 8 IN<br>A/N: | D167 | | | | |

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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.)
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# FACILITY PERMIT TO OPERATE
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## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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|---|---|---|---|---|---|
| **Process 3: FLUID CATALYTIC CRACKING** | | | | | |
| ACCUMULATOR, RPV 2350, FRACTIONATOR OVERHEAD, HEIGHT: 20 FT ; DIAMETER: 12 FT<br>A/N: | D168 | | | | |
| VESSEL, TOP REFLUX SETTLER, RPV 2395, (COMMON TO FCC GAS PLANT), LENGTH: 40 FT ; DIAMETER: 12 FT<br>A/N: | D169 | | | **BENZENE**: (10) [**40CFR 61 Subpart FF, #2, 12-4-2003**];<br>**VOC**: 500 PPMV (8) [**40CFR 61 Subpart FF, 12-4-2003**] | H23.12 |
| TANK, SURGE, HOT FEED, RPV 2618, LENGTH: 45 FT ; DIAMETER: 12 FT<br>A/N: | D170 | | | | |
| ELECTROSTATIC PRECIPITATOR, RPV 3980, "A" SKID SOUTH #5, CLAROIL, GULFTRONICS<br>A/N: | D172 | | | | |
| ELECTROSTATIC PRECIPITATOR, RPV 3981, "A" SKID NORTH #5, CLAROIL, GULFTRONICS<br>A/N: | D173 | | | | |
| ELECTROSTATIC PRECIPITATOR, RPV 3982,"A" SKID SOUTH #4, CLAROIL, GULFTRONICS<br>A/N: | D174 | | | | |
| ELECTROSTATIC PRECIPITATOR, RPV 3983, "A" SKID NORTH #4, CLAROIL, GULFTRONICS<br>A/N: | D175 | | | | |
| ELECTROSTATIC PRECIPITATOR, RPV 3984, "A" SKID SOUTH #3, CLAROIL, GULFTRONICS<br>A/N: | D176 | | | | |

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

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|---|---|---|---|---|---|
| **Process 3: FLUID CATALYTIC CRACKING** | | | | | |
| ELECTROSTATIC PRECIPITATOR, RPV 3985,"A" SKID NORTH #3, CLAROIL, GULFTRONICS A/N: | D177 | | | | |
| ELECTROSTATIC PRECIPITATOR, RPV 3986, "A" SKID SOUTH #2, CLAROIL, GULFTRONICS A/N: | D178 | | | | |
| ELECTROSTATIC PRECIPITATOR, RPV 3987, "A" SKID NORTH #2, CLAROIL, GULFTRONICS A/N: | D179 | | | | |
| ELECTROSTATIC PRECIPITATOR, RPV 3989, "A" SKID NORTH #1, CLAROIL, GULFTRONICS A/N: | D180 | | | | |
| ELECTROSTATIC PRECIPITATOR, RPV 3988," A" SKID SOUTH #1, CLAROIL, GULFTRONICS A/N: | D181 | | | | |
| VESSEL, # 2 DEPROPANIZER, RPV 5579, HEIGHT: 6 FT ; DIAMETER: 3 FT A/N: | D182 | | | | |
| BIN, STORAGE, ADDITIVE, INTERCAT, HEIGHT: 30 FT ; DIAMETER: 5 FT A/N: | D183 | | | **PM**: (9) [**RULE 404, 2-7-1986; RULE 405, 2-7-1986**] | D323.4 |
| STORAGE TANK, HOT CATALYST, RPV 2316, CATALYST, HEIGHT: 65 FT ; DIAMETER: 17 FT A/N: | D184 | | | **PM**: (9) [**RULE 404, 2-7-1986; RULE 405, 2-7-1986**] | D323.4 |

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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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|---|---|---|---|---|---|
| **Process 3: FLUID CATALYTIC CRACKING** | | | | | |
| KNOCK OUT POT, COLD STORAGE EJECTOR, RW 6335, HEIGHT: 8 FT ; DIAMETER: 2 FT<br>A/N: | D185 | | | | |
| FUGITIVE EMISSIONS, MISCELLANEOUS<br>A/N: | D2471 | | | **HAP**: (10) [**40CFR 63 Subpart CC, #5A, 6-23-2003**] | H23.3 |
| **System 2: FCCU GAS PLANT** | | | | | S13.2, S15.6, S31.2, S31.9, S56.1 |
| POT, RERUN PREHEATER, CONDENSATE, RPV 2370, HEIGHT: 3 FT ; DIAMETER: 2 FT<br>A/N: | D186 | | | | |
| TOWER, RPV 2372, RERUN, HEIGHT: 49 FT 2 IN; DIAMETER: 12 FT<br>A/N: | D187 | | | | |
| ACCUMULATOR, RPV 2375, RERUN TOWER OVERHEAD, LENGTH: 18 FT ; DIAMETER: 9 FT<br>A/N: | D188 | | | **BENZENE**: (10) [**40CFR 61 Subpart FF, #2, 12-4-2003**];<br>**VOC**: 500 PPMV (8) [**40CFR 61 Subpart FF, 12-4-2003**] | H23.12 |
| TOWER, DEBUTANIZER, RPV 2391, HEIGHT: 87 FT 3 IN; DIAMETER: 13 FT 6 IN<br>A/N: | D191 | | | | |
| KNOCK OUT POT, RPV 2393, FUEL GAS, HEIGHT: 15 FT ; DIAMETER: 9 FT<br>A/N: | D192 | | | | |
| SETTLING TANK, RPV 2395, RERUN WATER, LENGTH: 40 FT ; DIAMETER: 12 FT<br>A/N: | D193 | | | | |

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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
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(8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
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|---|---|---|---|---|---|
| **Process 3: FLUID CATALYTIC CRACKING** | | | | | |
| KNOCK OUT POT, RPV 1674, DEBUTANIZER OVERHEAD ACCUMULATOR, HEIGHT: 1 FT 6 IN; DIAMETER: 1 FT 6 IN<br>A/N: | D194 | | | | |
| ACCUMULATOR, RPV 2406, DEBUTANIZER OVERHEAD, LENGTH: 20 FT ; DIAMETER: 10 FT<br>A/N: | D195 | | | | |
| TOWER, ABSORBER, DEETHANIZER, RPV 2407, HEIGHT: 122 FT ; DIAMETER: 11 FT<br>A/N: | D196 | | | | |
| KNOCK OUT POT, RPV 2408, ABSORBER DRY GAS, HEIGHT: 8 FT ; DIAMETER: 4 FT<br>A/N: | D197 | | | | |
| POT, ABSORBER DEHYDRATOR, RPV 2409, HEIGHT: 8 FT ; DIAMETER: 5 FT<br>A/N: | D198 | | | | |
| TOWER, RPV 2386, SPONGE OIL, HEIGHT: 66 FT ; DIAMETER: 8 FT<br>A/N: | D199 | | | | |
| TOWER, #2 DEPROPANIZER, RPV 2550, HEIGHT: 66 FT ; DIAMETER: 6 FT<br>A/N: | D201 | | | | |
| ACCUMULATOR, RPV 5580, NO.2 DEPROPANIZER OVERHEAD, HEIGHT: 4 FT ; DIAMETER: 1 FT 6 IN<br>A/N: | D202 | | | | |

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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.)
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|---|---|---|---|---|---|
| **Process 3: FLUID CATALYTIC CRACKING** | | | | | |
| SETTLING TANK, RPV 5664, RAW GASOLINE/WATER, HEIGHT: 20 FT ; DIAMETER: 10 FT<br>A/N: | D203 | | | | |
| TOWER, DEHEXANIZER, RPV 2580, HEIGHT: 79 FT ; DIAMETER: 8 FT 6 IN<br>A/N: | D204 | | | | |
| ACCUMULATOR, RPV 2581, DEHEXANIZER OVERHEAD, LENGTH: 18 FT ; DIAMETER: 5 FT<br>A/N: | D205 | | | | |
| COLUMN, ABSORBER MDEA CONTACTOR, RPV 3676, HEIGHT: 50 FT 10 IN; DIAMETER: 3 FT 6 IN<br>A/N: | D206 | | | | |
| ACCUMULATOR, RPV 3677, DEPROPANIZER OVERHEAD, HEIGHT: 2 FT ; DIAMETER: 1 FT<br>A/N: | D207 | | | | |
| POT, ABSORBER-DEETHANIZER REBOILER DEHYDRATOR, RPV 5383, HEIGHT: 14 FT 8 IN; DIAMETER: 9 FT<br>A/N: | D208 | | | | |
| TOWER, NO.1 DEPROPANIZER, RPV 2380, HEIGHT: 91 FT 9 IN; DIAMETER: 8 FT 6 IN<br>A/N: | D189 | | | | |
| ACCUMULATOR, RPV 2384, DEPROPANIZER OVERHEAD, LENGTH: 17 FT ; DIAMETER: 8 FT<br>A/N: | D190 | | | **BENZENE**: (10) [**40CFR 61 Subpart FF, #2, 12-4-2003**];<br>**VOC**: 500 PPMV (8) [**40CFR 61 Subpart FF, 12-4-2003**] | H23.12 |

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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
(10) See section J for NESHAP/MACT requirements

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

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

| Equipment | ID No. | Connected To | RECLAIM Source Type/ Monitoring Unit | Emissions * And Requirements | Conditions |
|---|---|---|---|---|---|
| **Process 3: FLUID CATALYTIC CRACKING** | | | | | |
| ACCUMULATOR, RPV 2390, #2 DEPROPANIZER OVERHEAD, HEIGHT: 18 FT ; DIAMETER: 6 FT<br>A/N: | D200 | | | | |
| FUGITIVE EMISSIONS, MISCELLANEOUS<br>A/N: | D2472 | | | **HAP**: (10) [**40CFR 63 Subpart CC, #5A, 6-23-2003**] | H23.3 |
| **System 3: FCCU GAS COMPRESSION& HYDROGEN SULFIDE REMOVAL UNIT** | | | | | S13.2, S31.9, S46.1, S46.2, S56.1 |
| ABSORBER, VAPOR PHASE, RPV 2345, HEIGHT: 42 FT ; DIAMETER: 9 FT<br>A/N: | D217 | | | | |
| POT, DRIP, RPV 2347, LENGTH: 10 FT ; DIAMETER: 8 FT<br>A/N: | D218 | | | | |
| TANK, 1ST STAGE COMPRESSOR SEAL OIL, RPV 2625, HEIGHT: 5 FT ; DIAMETER: 2 FT<br>A/N: | D219 | | | | |
| KNOCK OUT POT, RELIEF VALVE, RPV 2359, HEIGHT: 16 FT ; DIAMETER: 9 FT<br>A/N: | D220 | | | **BENZENE**: (10) [**40CFR 61 Subpart FF, #2, 12-4-2003**];<br>**VOC**: 500 PPMV (8) [**40CFR 61 Subpart FF, 12-4-2003**] | H23.12 |
| FILTER, RPV 2628, FIRST STAGE LUBE OIL, NORTH, HITCO-HYFLOW, MODEL FI-SE<br>A/N: | D222 | | | | |
| FILTER, RPV 2629, FIRST STAGE LUBE OIL, SOUTH, HITCO-HYFLOW, MODEL FI-SE<br>A/N: | D223 | | | | |

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(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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# BP WEST COAST PROD.LLC BP CARSON REF.

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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|---|---|---|---|---|---|
| **Process 3: FLUID CATALYTIC CRACKING** | | | | | |
| KNOCK OUT POT, RPV 5519, SECOND STAGE GAS COMPRESSOR<br>A/N: | D224 | | | | |
| KNOCK OUT POT, RPV 5518, FIRST STAGE GAS COMPRESSOR<br>A/N: | D225 | | | | |
| COMPRESSOR, SECOND STAGE, RW 0009 087 06, FILTERITE<br>A/N: | D226 | | | | |
| COMPRESSOR, FIRST STAGE, STANDBY, RW 0015 087.06, INGERSOLL-RAND, CENTRIFUGAL, MODEL MTG-665<br>A/N: | D229 | | | | |
| COMPRESSOR, FIRST STAGE, RW 0053 087.02, NUOVO PIGNONE, MODEL MCL-1005, CENTRIFUGAL, 45000 CU.FT./MIN<br>A/N: | D2390 | | | | |
| FUGITIVE EMISSIONS, MISCELLANEOUS<br>A/N: | D2473 | | | **HAP**: (10) [**40CFR 63 Subpart CC, #5A, 6-23-2003**] | H23.3 |
| **System 4: CATALYST HANDLING FACILITY** | | | | | S56.1 |
| CYCLONE, WESTERN PRECIPITATION WITH<br>A/N: 521127<br><br>HOPPER, DUST | C231<br><br><br><br>D232 | D233 | | **PM**: (9) [**RULE 404, 2-7-1986; RULE 405, 2-7-1986**] | D323.4 |
| EJECTOR, STEAM, RW 0032-154.01, GRAHAM 100-CL, CAPACITY 4,000 LB/HOUR<br>A/N: 521127 | D2911 | | | | |

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(5) (5A) (5B) Denotes command and control emission limit
(6) Denotes air toxic control rule limit
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# FACILITY PERMIT TO OPERATE
# BP WEST COAST PROD.LLC BP CARSON REF.

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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|---|---|---|---|---|---|
| **Process 3: FLUID CATALYTIC CRACKING** | | | | | |
| HOPPER, FCC CATALYST AND NOX/SOX REDUCING CATALYST, SIZE:96" DIA X 240"H<br>A/N: 521127 | D233 | C231 | | **PM**: (9) [**RULE 405, 2-7-1986**] | D323.2 |
| VESSEL, SEPARATOR, THIRD STAGE, RPV 3976, LENGTH: 51 FT ; DIAMETER: 17 FT<br>A/N: 521127 | D241 | | | **PM**: (9) [**RULE 405, 2-7-1986**] | D323.2 |
| **System 6: PROPYLENE TETRAMER UNIT** | | | | | S56.1 |
| TOWER, POLYMER, RPV 2528, HEIGHT: 68 FT 6 IN; DIAMETER: 5 FT 6 IN<br>A/N: 395732 | D242 | | | | |
| ACCUMULATOR, RPV 2532, POLYMERTOWER OVERHEAD, LENGTH: 14 FT 6 IN; DIAMETER: 5 FT<br>A/N: 395732 | D243 | | | | |
| ACCUMULATOR, RPV 2536, TETRAMER TOWER OVERHEAD, WITH NITROGEN BLANKET, LENGTH: 7 FT 6 IN; DIAMETER: 4 FT<br>A/N: 395732 | D244 | | | | |
| TOWER, TRIMER, RPV 2549, HEIGHT: 89 FT 8 IN; DIAMETER: 4 FT 6 IN<br>A/N: 395732 | D245 | | | | |
| TOWER, TETRAMER, RPV 2538, HEIGHT: 66 FT 6 IN; DIAMETER: 4 FT<br>A/N: 395732 | D246 | | | | |

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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
# BP WEST COAST PROD.LLC BP CARSON REF.

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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|---|---|---|---|---|---|
| **Process 3: FLUID CATALYTIC CRACKING** | | | | | |
| TANK, SURGE, RPV 2539, CONDENSATE, CONDENSATE, HEIGHT: 3 FT ; DIAMETER: 2 FT<br>A/N: 395732 | D247 | | | | |
| ACCUMULATOR, RPV 2599, TRIMER TOWER OVERHEAD, LENGTH: 12 FT ; DIAMETER: 3 FT<br>A/N: 395732 | D248 | | | | |
| DRUM, RPV 2640, CONDENSATE, HEIGHT: 3 FT ; DIAMETER: 2 FT<br>A/N: 395732 | D249 | | | | |
| FUGITIVE EMISSIONS, MISCELLANEOUS<br>A/N: 395732 | D2475 | | | **HAP**: (10) [**40CFR 63 Subpart CC, #5A, 6-23-2003**] | H23.3 |
| **System 7: FLUID CATALYTIC CRACKING UNIT HEATERS** | | | | | S56.1 |
| HEATER, FLUID CATALYTIC CRACKING FEED, REFINERY GAS, BORN ENGINEERING, MODEL CIRCULAR TYPE, WITH LOW NOX BURNER, 89 MMBTU/HR WITH<br>A/N: 395974<br><br>BURNER, EIGHT(8) BURNERS, JOHN ZINK, MODEL PSMR-16M, WITH LOW NOX BURNER, 89 MMBTU/HR | D250 | | 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, C1.18, D90.4, D328.1, H23.1 |
| FILTER, GAS FILTER, RPV 5652, HEIGHT: 7 FT ; DIAMETER: 10 FT<br>A/N: 395974 | D1363 | | | | |

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

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|---|---|---|---|---|---|
| **Process 3: FLUID CATALYTIC CRACKING** | | | | | |
| HEATER, PROPYLENE TETRAMER REBOILER, REFINERY GAS, WITH LOW NOX BURNER, 4.9 MMBTU/HR WITH<br>A/N: 395648<br><br>BURNER, REFINERY GAS, CALLIDUS TECHNOLOGIES, MODEL LE-CSG-6W, WITH LOW NOX BURNER, 4.9 MMBTU/HR | D252 | | NOX: PROCESS UNIT**; SOX: MAJOR SOURCE** | **CO**: 400 PPMV (5A) [RULE 1146, 9-5-2008; **RULE 1146.1, 5-13-1994**]; **CO**: 2000 PPMV (5) [**RULE 407, 4-2-1982**]; **NOX**: 0.1 LBS/MMBTU REFINERY GAS (1) [**RULE 2012, 5-6-2005**]; **PM**: (9) [**RULE 404, 2-7-1986**]; **PM**: 0.1 GRAINS/SCF (5) [**RULE 409, 8-7-1981**] | A63.21, B61.4, D29.3, D90.4, D332.1, H23.1, K67.2 |
| HEATER, RPV 2319, REGENERATOR STARTUP AIR HEATER, REFINERY GAS, PEABODY, 2 BURNERS, 165 MMBTU/HR<br>A/N: 542863 | D2837 | | NOX: MAJOR SOURCE**; SOX: MAJOR SOURCE** | **CO**: 2000 PPMV (5) [**RULE 407, 4-2-1982**]; **NOX**: 0.64 LBS/MMBTU REFINERY GAS (1) [**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, D90.4, E71.24, H23.1, K67.26 |
| **Process 4: FRACTIONATION** | | | | | |
| **System 1: SUPERFRACTIONATION UNIT** | | | | | S4.3, S4.4, S13.2, S56.1 |
| COLUMN, STABILIZER, NO.1 DEBUTANIZER, RPV-1035, HEIGHT: 77 FT ; DIAMETER: 6 FT 6 IN<br>A/N: | D253 | | | | |
| COLUMN, STABILIIZER, NO. 2 DEBUTANIZER, RPV-1040, HEIGHT: 117 FT 9 IN; DIAMETER: 6 FT 6 IN<br>A/N: | D254 | | | | |

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(5) (5A) (5B) Denotes command and control emission limit
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(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
# BP WEST COAST PROD.LLC BP CARSON REF.

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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|---|---|---|---|---|---|
| **Process 4: FRACTIONATION** | | | | | |
| COLUMN, SOUTH AREA DISOBUTANIZER, RPV-1101, HEIGHT: 127 FT ; DIAMETER: 8 FT 6 IN<br>A/N: | D255 | | | | |
| COLUMN, NO.4 DEBUTANIZER, RPV-1117, WITH 40 TRAYS, HEIGHT: 84 FT ; DIAMETER: 8 FT<br>A/N: | D256 | | | | |
| COLUMN, STABILIZER, NO. 7, RPV-1118, HEIGHT: 62 FT ; DIAMETER: 3 FT 6 IN<br>A/N: | D257 | | | | |
| COLUMN, DEPENTANIZER, RPV-1133, HEIGHT: 112 FT ; DIAMETER: 11 FT<br>A/N: | D258 | | | | |
| COLUMN, STABILIZER, NO. 9, RPV-1183, HEIGHT: 136 FT ; DIAMETER: 12 FT 6 IN<br>A/N: | D259 | | | | |
| COLUMN, STABILIZER, NO. 10, RPV-1190, HEIGHT: 110 FT ; DIAMETER: 7 FT<br>A/N: | D260 | | | | |
| COLUMN, STABILIZER, NO. 11, RPV-1199, HEIGHT: 134 FT ; DIAMETER: 8 FT<br>A/N: | D261 | | | | |
| COLUMN, NO.3 DEBUTANIZER, RPV-1208, HEIGHT: 110 FT ; DIAMETER: 6 FT<br>A/N: | D262 | | | | |

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## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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|---|---|---|---|---|---|
| **Process 4: FRACTIONATION** | | | | | |
| ACCUMULATOR, NO.1 DEBUTANIZER, RPV-5574,STABILIZER OVERHEAD, LENGTH: 20 FT ; DIAMETER: 5 FT A/N: | D263 | | | | |
| TANK, SURGE, NO.1 DEBUTANIZER FEED, RPV 5573, LENGTH: 40 FT ; DIAMETER: 8 FT A/N: | D264 | | | | |
| ACCUMULATOR, NO.2 DEBUTANIZER, RPV-1041, OVERHEAD, HEIGHT: 18 FT 9.5 IN; DIAMETER: 6 FT A/N: | D265 | | | **BENZENE**: (10) [**40CFR 61 Subpart FF, #2, 12-4-2003**] | H23.12 |
| ACCUMULATOR, RPV-5474, SOUTH AREA DIB OVERHEAD, HEIGHT: 18 FT ; DIAMETER: 6 FT A/N: | D267 | | | | |
| TANK, SURGE, SOUTH AREA DIB FEED, #5 STABILIZER, RPV-1226, HEIGHT: 30 FT 8 IN; DIAMETER: 10 FT A/N: | D268 | | | | |
| ACCUMULATOR, NO. 4 DEBUTANIZER OVERHEAD, RPV-5575, HEIGHT: 20 FT ; DIAMETER: 5 FT A/N: | D269 | | | | |
| TANK, SURGE, NO. 258, RPV-1073, NO. 4 DEBUTANIZER FEED, HEIGHT: 32 FT 6 IN; DIAMETER: 10 FT A/N: | D270 | | | | |

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| Equipment | ID No. | Connected To | RECLAIM Source Type/ Monitoring Unit | Emissions * And Requirements | Conditions |
|---|---|---|---|---|---|
| **Process 4: FRACTIONATION** | | | | | |
| TANK, SURGE, RPV 1181, NO.3 DEBUTANIZER FEED, HEIGHT: 32 FT ; DIAMETER: 9 FT<br>A/N: | D272 | | | | |
| ACCUMULATOR, NO. 9, RPV-1185, STABILIZER REFLUX, LENGTH: 16 FT ; DIAMETER: 6 FT<br>A/N: | D274 | | | | |
| ACCUMULATOR, NO.10, RPV-1189, STABILIZER OVERHEAD, LENGTH: 7 FT 11.5 IN; DIAMETER: 6 FT<br>A/N: | D275 | | | | |
| ACCUMULATOR, NO. 9 STABILIZER OVERHEAD, RPV-1189A, LENGTH: 15 FT 8 IN; DIAMETER: 6 FT<br>A/N: | D276 | | | | |
| ACCUMULATOR, RPV 1639, DEBUTANIZER OVERHEAD, LENGTH: 12 FT ; DIAMETER: 6 FT<br>A/N: | D277 | | | **BENZENE**: (10) [**40CFR 61 Subpart FF, #2, 12-4-2003**];<br>**VOC**: 500 PPMV (8) [**40CFR 61 Subpart FF, 12-4-2003**] | H23.12 |
| TANK, SURGE, RPV 1182, #10 STABILIZER FEED, LENGTH: 32 FT ; DIAMETER: 9 FT<br>A/N: | D278 | | | | |
| TANK, SURGE, RPV-1180, # 11 STABILIZER FEED, HEIGHT: 32 FT ; DIAMETER: 9 FT<br>A/N: | D280 | | | | |
| ACCUMULATOR, RPV 1205, NO. 11 STABILIZER OVERHEAD, LENGTH: 16 FT ; DIAMETER: 6 FT<br>A/N: | D281 | | | | |

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## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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|---|---|---|---|---|---|
| **Process 4: FRACTIONATION** | | | | | |
| ACCUMULATOR, RPV 1213, NO.3 DEBUTANIZER OVERHEAD, LENGTH: 16 FT ; DIAMETER: 6 FT<br>A/N: | D282 | | | | |
| POT, RPV 2092, LPG VAPORIZER CONDENSATE, HEIGHT: 4 FT ; DIAMETER: 2 FT<br>A/N: | D283 | | | | |
| TOWER, DEBUTANIZER, (RPV-1638), HEIGHT: 76 FT 8 IN; DIAMETER: 7 FT<br>A/N: | D284 | | | | |
| SCRUBBER, RPV 1293, SFIA FUEL GAS, HEIGHT: 30 FT ; DIAMETER: 3 FT 4 IN<br>A/N: | D287 | | | | |
| FUGITIVE EMISSIONS, MISCELLANEOUS<br>A/N: | D2476 | | | **HAP**: (10) [**40CFR 63 Subpart CC, #5A, 6-23-2003**] | H23.3 |
| **System 2: NAPHTHA SPLITTER UNIT** | | | | | S13.2, S46.1, S46.2, S56.1 |
| TANK, SURGE, RPV 1241, NAPHTHA SPLITTER FEED, HEIGHT: 26 FT 6 IN; DIAMETER: 7 FT 6 IN<br>A/N: | D290 | | | | |
| ACCUMULATOR, RPV 1238, NO.2 NAPHTHA SPLITTER OVERHEAD, HEIGHT: 20 FT ; DIAMETER: 7 FT 6 IN<br>A/N: | D291 | | | | |

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(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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|---|---|---|---|---|---|
| **Process 4: FRACTIONATION** | | | | | |
| TOWER, RPV 1234, NO. 2, NAPHTHA SPLITTER, HEIGHT: 72 FT 8 IN; DIAMETER: 10 FT<br>A/N: | D1400 | | | | |
| KNOCK OUT POT, RPV 5517, NO. 2 NAPHTHA SPLITTER FEED SURGE WATER, HEIGHT: 2 FT 8 IN; DIAMETER: 1 FT 2 IN<br>A/N: | D1401 | | | | |
| KNOCK OUT POT, RPV 5516, NO. 2 NAPHTHA SPLITTER OVERHEAD ACCUMULATOR WATER, LENGTH: 2 FT 11 IN; DIAMETER: 1 FT 2 IN<br>A/N: | D1402 | | | **BENZENE**: (10) [**40CFR 61 Subpart FF, #2, 12-4-2003**];<br>**VOC**: 500 PPMV (8) [**40CFR 61 Subpart FF, 12-4-2003**] | H23.12 |
| KNOCK OUT POT, RPV 5719, NO. 2 NAPHTHA SPLITTER REBOILER CONDENSATE WATER, LENGTH: 3 FT ; DIAMETER: 2 FT 6 IN<br>A/N: | D1403 | | | | |
| FUGITIVE EMISSIONS, MISCELLANEOUS<br>A/N: | D2474 | | | **HAP**: (10) [**40CFR 63 Subpart CC, #5A, 6-23-2003**] | H23.3 |
| **System 3: LIGHT ENDS DEPROPANIZER** | | | | | S13.2, S15.6, S56.1 |
| ABSORBER, MDEA, RPV-3045, HEIGHT: 55 FT ; DIAMETER: 3 FT<br>A/N: | D292 | | | | |
| TOWER, DEPROPANIZER, RPV-3170, HEIGHT: 114 FT 6 IN; DIAMETER: 7 FT 6 IN<br>A/N: | D293 | | | | |

* (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
# BP WEST COAST PROD.LLC BP CARSON REF.

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

| Equipment | ID No. | Connected To | RECLAIM Source Type/ Monitoring Unit | Emissions * And Requirements | Conditions |
|---|---|---|---|---|---|
| **Process 4: FRACTIONATION** | | | | | |
| ACCUMULATOR, RPV 3171, DEPROPANIZER OVERHEAD, HEIGHT: 21 FT ; DIAMETER: 7 FT<br>A/N: | D296 | | | | |
| TANK, FLASH, RPV-3172, LED FEED, HEIGHT: 25 FT ; DIAMETER: 8 FT<br>A/N: | D297 | | | | |
| COMPRESSOR, RW 009 08732, NORTH LED VAPOR FEED<br>A/N: | D299 | | | | |
| COMPRESSOR, RW 0010 08731, SOUTH LED VAPOR FEED, WITH PACKED GLANDS<br>A/N: | D300 | | | | |
| POT, RPV-5454, REBOILER CONDENSATE, HEIGHT: 2 FT 6 IN; DIAMETER: 2 FT<br>A/N: | D301 | | | | |
| FUGITIVE EMISSIONS, MISCELLANEOUS<br>A/N: | D2477 | | | **HAP**: (10) [**40CFR 63 Subpart CC, #5A, 6-23-2003**] | H23.3 |
| **System 4: STRAIGHT RUN LIGHT ENDS DEPROPANIZER** | | | | | S13.2, S56.1 |
| TOWER, STRAIGHT RUN DEPROPANIZER, RPV-2594, HEIGHT: 127 FT ; DIAMETER: 6 FT<br>A/N: 395786 | D302 | | | | |
| ACCUMULATOR, RPV 2596, STRAIGHT RUN DEPROPANIZER OVERHEAD, LENGTH: 20 FT ; DIAMETER: 4 FT 6 IN<br>A/N: 395786 | D303 | | | | |

* (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
# BP WEST COAST PROD.LLC BP CARSON REF.

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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|---|---|---|---|---|---|
| **Process 4: FRACTIONATION** | | | | | |
| TANK, SURGE, RPV 4028, SRD FEED, LENGTH: 29 FT ; DIAMETER: 8 FT 6 IN<br>A/N: 395786 | D304 | | | | |
| POT, RPV 5153, REBOILER CONDENSATE, HEIGHT: 3 FT ; DIAMETER: 2 FT<br>A/N: 395786 | D307 | | | | |
| FUGITIVE EMISSIONS, MISCELLANEOUS<br>A/N: 395786 | D2478 | | | **HAP**: (10) [**40CFR 63 Subpart CC, #5A, 6-23-2003**] | H23.3 |
| **System 5: NORTH AREA DEISOBUTANIZER UNIT** | | | | | S13.2, S56.1 |
| TOWER, DEISOBUTANIZER, RPV-2595, HEIGHT: 123 FT 6 IN; DIAMETER: 6 FT<br>A/N: 395777 | D308 | | | | |
| POT, RPV 5151, DIB REBOILER CONDENSATE, HEIGHT: 4 FT ; DIAMETER: 2 FT<br>A/N: 395777 | D309 | | | | |
| ACCUMULATOR, RPV 5154, DEISOBUTANIZER OVERHEAD, HEIGHT: 20 FT ; DIAMETER: 7 FT 6 IN<br>A/N: 395777 | D310 | | | | |
| DRUM, BUTANE DEGASSING, RPV-5160, HEIGHT: 8 FT 6 IN; DIAMETER: 3 FT<br>A/N: 395777 | D311 | | | | |
| FUGITIVE EMISSIONS, MISCELLANEOUS<br>A/N: 395777 | D2479 | | | **HAP**: (10) [**40CFR 63 Subpart CC, #5A, 6-23-2003**] | H23.3 |
| **System 7: COKER GASOLINE FRACTIONATION UNIT** | | | | | S13.2, S56.1 |

* (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
# BP WEST COAST PROD.LLC BP CARSON REF.

## 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 |
|---|---|---|---|---|---|
| **Process 4: FRACTIONATION** | | | | | |
| VESSEL, RECEIVER, RPV 1403, LOW PRESSURE GAS, HEIGHT: 20 FT ; DIAMETER: 8 FT<br>A/N: | D1974 | | | | |
| TOWER, RPV 1618, DEHEXANIZER, HEIGHT: 19 FT 3 IN; DIAMETER: 9 FT<br>A/N: | D1975 | | | | |
| TOWER, RPV 1626, SWING, HEIGHT: 19 FT 3 IN; DIAMETER: 9 FT<br>A/N: | D1977 | | | | |
| ACCUMULATOR, RPV 1627, SWING OVERHEAD, HEIGHT: 20 FT ; DIAMETER: 6 FT<br>A/N: | D1978 | | | **BENZENE**: (10) [**40CFR 61 Subpart FF, #2, 12-4-2003**];<br>**VOC**: 500 PPMV (8) [**40CFR 61 Subpart FF, 12-4-2003**] | H23.12 |
| TOWER, RPV 16239, DEBUTANIZER, HEIGHT: 82 FT 6 IN; DIAMETER: 8 FT 4 IN<br>A/N: | D1979 | | | | |
| ACCUMULATOR, RPV 1640, DEBUTANIZER OVERHEAD, LENGTH: 16 FT ; DIAMETER: 6 FT<br>A/N: | D1980 | | | | |
| DRUM, RPV 1645, FEED (NIS), HEIGHT: 39 FT 6 IN; DIAMETER: 10 FT<br>A/N: | D1982 | | | | |
| TANK, RPV 1663, FEED(NIS), HEIGHT: 15 FT 6 IN; DIAMETER: 6 FT<br>A/N: | D1983 | | | | |

* (1) (1A) (1B) Denotes RECLAIM emission factor
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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
(10) See section J for NESHAP/MACT requirements

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

## 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 |
|---|---|---|---|---|---|
| **Process 4: FRACTIONATION** | | | | | |
| DRUM, RPV 1672, FUEL GAS MIXING, HEIGHT: 10 FT ; DIAMETER: 6 FT<br>A/N: | D1984 | | | | |
| KNOCK OUT POT, RPV 1677, ABSORBER, HEIGHT: 8 IN; DIAMETER: 4 FT<br>A/N: | D1985 | | | | |
| FUGITIVE EMISSIONS, MISCELLANEOUS<br>A/N: | D2481 | | | **HAP**: (10) [**40CFR 63 Subpart CC, #5A, 6-23-2003**] | H23.3 |
| **System 8: LIQUID RECOVERY UNIT** | | | | | S13.2, S46.1, S46.2, S56.1 |
| KNOCK OUT POT, RW-6473-289-02, COKER GAS COMPRESSOR SUCTION, HEIGHT: 11 FT 6 IN; DIAMETER: 7 FT 6 IN<br>A/N: 396012 | D2307 | | | | |
| KNOCK OUT POT, RW-6474-289-02, DRIER FEED, LENGTH: 15 FT ; DIAMETER: 7 FT<br>A/N: 396012 | D2308 | | | | |
| KNOCK OUT POT, RW-6475-289-02, REGENERATION GAS, HEIGHT: 9 FT ; DIAMETER: 4 FT 6 IN<br>A/N: 396012 | D2309 | | | | |
| DRYER, DEHYDRATOR, RW-6476-289-02, INLET GAS, LENGTH: 30 FT ; DIAMETER: 10 FT 6 IN<br>A/N: 396012 | D2310 | | | | |

* (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
# BP WEST COAST PROD.LLC BP CARSON REF.

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

| Equipment | ID No. | Connected To | RECLAIM Source Type/ Monitoring Unit | Emissions * And Requirements | Conditions |
|---|---|---|---|---|---|
| **Process 4: FRACTIONATION** | | | | | |
| DRYER, DEHYDRATOR, RW-6477-289-02, INLET GAS, LENGTH: 30 FT ; DIAMETER: 10 FT 6 IN<br>A/N: 396012 | D2311 | | | | |
| VESSEL, ECONOMIZER, RW-6486-289.02, REFRIGERANT INTERSTAGE, HEIGHT: 17 FT 6 IN; DIAMETER: 6 FT 6 IN<br>A/N: 396012 | D2312 | | | | |
| VESSEL, RECLAIMER, RW-6478-289-02, REFRIGERANT(PROPANE), HEIGHT: 4 FT ; DIAMETER: 1 FT 1 IN<br>A/N: 396012 | D2313 | | | | |
| VESSEL, COLD SEPARATOR, RW-6479-289-02, DRY GAS, HEIGHT: 17 FT 6 IN; DIAMETER: 6 FT 6 IN<br>A/N: 396012 | D2314 | | | | |
| KNOCK OUT POT, RW-6480-289-02, REFRIGERANT(PROPANE) COMPRESSOR SUCTION, HEIGHT: 11 FT 6 IN; DIAMETER: 8 FT 6 IN<br>A/N: 396012 | D2315 | | | | |
| VESSEL, ECONOMIZER, RW-6481-289-02, REFRIGERANT(PROPANE), LENGTH: 16 FT ; DIAMETER: 7 FT<br>A/N: 396012 | D2316 | | | | |
| DRUM, SURGE, RW-6482-289-02, REFRIGERANT(PROPANE), LENGTH: 20 FT ; DIAMETER: 6 FT<br>A/N: 396012 | D2317 | | | | |

* (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
# BP WEST COAST PROD.LLC BP CARSON REF.

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

| Equipment | ID No. | Connected To | RECLAIM Source Type/ Monitoring Unit | Emissions * And Requirements | Conditions |
|---|---|---|---|---|---|
| **Process 4: FRACTIONATION** | | | | | |
| COLUMN, FRACTIONATING, RW-6456-289-01, PROPYLENE RECOVERY, HEIGHT: 32 FT ; DIAMETER: 6 FT<br>A/N: 396012 | D2318 | | | | |
| COLUMN, DEETHANIZER, RW-6457-289-01, HEIGHT: 88 FT ; DIAMETER: 6 FT<br>A/N: 396012 | D2319 | | | | |
| FILTER, SEPARATOR, RW-6598-289.02, DRIER FEED<br>A/N: 396012 | D2320 | | | | |
| FILTER, RW-6599-289.02, DRIER OUTLET<br>A/N: 396012 | D2321 | | | | |
| COMPRESSOR, RW-0050-087.05, REFRIGERANT(PROPANE), SCREW TYPE WITH DUAL MECHANICAL SEALS<br>A/N: 396012 | D2326 | | | | |
| SCRUBBER, RW-6485-289.02, REFRIGERANT COMPRESSOR INTERSTAGE, HEIGHT: 11 FT 6 IN; DIAMETER: 5 FT 6 IN<br>A/N: 396012 | D2327 | | | | |
| COMPRESSOR, RW-0055-87.06, COKER GAS, CENTRIFUGAL TYPE, WITH PRESSURIZED DRY GAS TANDEM SEALS<br>A/N: 396012 | D2329 | | | | |

* (1) (1A) (1B) Denotes RECLAIM emission factor
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(3) Denotes RECLAIM concentration limit
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(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
# BP WEST COAST PROD.LLC BP CARSON REF.

## 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 |
|---|---|---|---|---|---|
| **Process 4: FRACTIONATION** | | | | | |
| COMPRESSOR, EXPANDER, RW-0056-87.06, CENTRIFUGAL TYPE, WITH PRESSURIZED DRY GAS TANDEM SEALS<br>A/N: 396012 | D2330 | | | | |
| POT, DRAIN, RW-6484-289-02, FLARE HEADER, HEIGHT: 6 FT ; DIAMETER: 3 FT<br>A/N: 396012 | D2395 | | | **BENZENE**: (10) [**40CFR 61 Subpart FF, #2, 12-4-2003**];<br>**VOC**: 500 PPMV (8) [**40CFR 61 Subpart FF, 12-4-2003**] | H23.12 |
| KNOCK OUT POT, RW-6487-289-02, TURBOEXPANDER COMPRESSOR SUCTION, HEIGHT: 11 FT 6 IN; DIAMETER: 5 FT 6 IN<br>A/N: 396012 | D2396 | | | | |
| FILTER, RW 6600-289.02, DRIER OUTLET<br>A/N: 396012 | D2397 | | | | |
| TANK, RW-6588-289.02, METHANOL ANTIFREEZE INJECTION TANK, 500 GALS<br>A/N: 396012 | D2398 | | | | |
| KNOCK OUT POT, RW-6473-289-02, COKER GAS COMPRESSOR, LENGTH: 11 FT 6 IN; DIAMETER: 7 FT 6 IN<br>A/N: 396012 | D2399 | | | | |
| FUGITIVE EMISSIONS, MISCELLANEOUS<br>A/N: 396012 | D2486 | | | **HAP**: (10) [**40CFR 63 Subpart CC, #5A, 6-23-2003**] | H23.3 |
| **System 9: PROPANE/PROPYLENE SPLITTER UNIT** | | | | | S13.2, S46.1, S46.2, S56.1 |

* (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
# BP WEST COAST PROD.LLC BP CARSON REF.

## 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 |
|---|---|---|---|---|---|
| **Process 4: FRACTIONATION** | | | | | |
| TOWER, C3 SPLITTER, RW 6431-289.01, HEIGHT: 259 FT 2 IN; DIAMETER: 16 FT 9 IN<br>A/N: 433305 | D2331 | | | | |
| TOWER, DEETHANIZER, RW-6436-289.01, HEIGHT: 121 FT 10 IN; DIAMETER: 9 FT<br>A/N: 433305 | D2332 | | | | |
| TOWER, ENRICHER, RW 6439-289.01, HEIGHT: 58 FT 6 IN; DIAMETER: 9 FT<br>A/N: 433305 | D2333 | | | | |
| TOWER, COS ADSORBER, RW 6575-289.06, HEIGHT: 39 FT ; DIAMETER: 7 FT 6 IN<br>A/N: 433305 | D2334 | | | | |
| TOWER, COS ADSORBER, RW 6576-289.06, HEIGHT: 39 FT ; DIAMETER: 7 FT 6 IN<br>A/N: 433305 | D2335 | | | | |
| TOWER, COS ADSORBER, RW 6577-289.06, HEIGHT: 39 FT ; DIAMETER: 7 FT 6 IN<br>A/N: 433305 | D2336 | | | | |
| TOWER, ARSINE REMOVAL REACTOR, RW 6452- 289.06, HEIGHT: 24 FT 9 IN; DIAMETER: 8 FT<br>A/N: 433305 | D2337 | | | | |
| DRUM, C3 SPLITTER SURGE, RW-6434-289.02, LENGTH: 20 FT ; DIAMETER: 11 FT 6 IN<br>A/N: 433305 | D2338 | | | | |

* (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
# BP WEST COAST PROD.LLC BP CARSON REF.

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

| Equipment | ID No. | Connected To | RECLAIM Source Type/ Monitoring Unit | Emissions * And Requirements | Conditions |
|---|---|---|---|---|---|
| **Process 4: FRACTIONATION** | | | | | |
| DRUM, KNOCK OUT, RW 6450-289.02-, FLARE, LENGTH: 24 FT ; DIAMETER: 10 FT<br>A/N: 433305 | D2340 | | | **BENZENE**: (10) [**40CFR 61 Subpart FF, #2, 12-4-2003**];<br>**VOC**: 500 PPMV (8) [**40CFR 61 Subpart FF, 12-4-2003**] | H23.12 |
| DRUM, RW 6443-289.02, COMPRESSOR SUCTION SCRUBBER, LENGTH: 17 FT ; DIAMETER: 17 FT<br>A/N: 433305 | D2351 | | | | |
| COMPRESSOR, RW 0054-087.06, C3 SPLITTER OVERHEAD, CENTRIFUGAL TYPE, WITH PRESSURIZED DRY GAS SEAL<br>A/N: 433305 | D2352 | | | | |
| ADSORBER, 1, RW 6573- 289.06, DEHYDRATION, HEIGHT: 23 FT ; DIAMETER: 6 FT 2 IN<br>A/N: 433305 | D2400 | | | | |
| ADSORBER, 2, RW 6574- 289.06, DEHYDRATION, HEIGHT: 23 FT ; DIAMETER: 6 FT 2 IN<br>A/N: 433305 | D2401 | | | | |
| VESSEL, COALESCER, RW 6578-289.06, DEHYDRATION REGENERATION, LENGTH: 7 FT 10 IN; DIAMETER: 2 FT 4 IN<br>A/N: 433305 | D2402 | | | | |
| FILTER, GUARD, RW 6579-289.02, HEIGHT: 4 FT 2 IN; DIAMETER: 2 FT<br>A/N: 433305 | D2403 | | | | |
| FUGITIVE EMISSIONS, MISCELLANEOUS<br>A/N: 433305 | D2487 | | | **HAP**: (10) [**40CFR 63 Subpart CC, #5A, 6-23-2003**] | H23.3 |

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

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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|---|---|---|---|---|---|
| **Process 5: HYDROTREATING** | | | | | |
| **System 1: JET FUEL HYDROTREATING UNIT** | | | | | S13.2, S15.7, S56.1 |
| SCRUBBER, MDEA COLUMN, RPV-3700, HEIGHT: 56 FT 10 IN; DIAMETER: 3 FT<br>A/N: 429509 | D314 | | | | |
| COLUMN, STABILIZER, RPV-3701, HEIGHT: 47 FT 6 IN; DIAMETER: 4 FT<br>A/N: 429509 | D315 | | | | |
| COLUMN, DESULFIRIZER STRIPPER COLUMN STABILIZER, RPV 3702, HEIGHT: 45 FT 2 IN; DIAMETER: 3 FT<br>A/N: 429509 | D316 | | | | |
| TANK, FLASH, RPV 3703,( HOT), HEIGHT: 18 FT 6 IN; DIAMETER: 4 FT 6 IN<br>A/N: 429509 | D317 | | | | |
| DRUM, KNOCK OUT, RPV 3711, STABILIZER VAPOR, HEIGHT: 4 FT ; DIAMETER: 1 FT<br>A/N: 429509 | D318 | | | | |
| TANK, FLASH, RPV 3712,, HEIGHT: 11 FT ; DIAMETER: 5 FT 6 IN<br>A/N: 429509 | D319 | | | | |
| KNOCK OUT POT, RPV 3714, MDEA, HEIGHT: 10 FT ; DIAMETER: 2 FT 6 IN<br>A/N: 429509 | D320 | | | | |

* (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
# BP WEST COAST PROD.LLC BP CARSON REF.

## 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 |
|---|---|---|---|---|---|
| **Process 5: HYDROTREATING** | | | | | |
| DRUM, KNOCK OUT, RPV 3713, RECYCLE GAS, HEIGHT: 10 FT ; DIAMETER: 2 FT 6 IN<br>A/N: 429509 | D321 | | | | |
| DRUM, KNOCK OUT, RPV 3715, FEED GAS, HEIGHT: 6 FT 6 IN; DIAMETER: 1 FT 8 IN<br>A/N: 429509 | D322 | | | | |
| REACTOR, RPV 3706, R3, HEIGHT: 10 FT ; DIAMETER: 6 FT<br>A/N: 429509 | D323 | | | | |
| REACTOR, RPV 3707, R2, HEIGHT: 30 FT ; DIAMETER: 7 FT 6 IN<br>A/N: 429509 | D324 | | | | |
| REACTOR, RPV 3708, R1, HEIGHT: 11 FT 4 IN; DIAMETER: 4 FT 6 IN<br>A/N: 429509 | D325 | | | | |
| ACCUMULATOR, RPV 3722, STABILIZER OVERHEAD, LENGTH: 11 FT ; DIAMETER: 2 FT 6 IN<br>A/N: 429509 | D326 | | | | |
| ACCUMULATOR, RPV 3723, STRIPPER OVERHEAD, LENGTH: 14 FT ; DIAMETER: 3 FT<br>A/N: 429509 | D327 | | | | |
| COMPRESSOR, RW 14 087.32, STABILIZER VAPOR, RECIPROCATING WITH PACKED GLANDS<br>A/N: 429509 | D328 | | | | |

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

## 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 |
|---|---|---|---|---|---|
| **Process 5: HYDROTREATING** | | | | | |
| COMPRESSOR, RW 15 087.32, HYDROGEN FEED, RECIPROCATING WITH PACKED GLANDS A/N: 429509 | D329 | | | | |
| COMPRESSOR, HYDROGEN/DESULFURIZER/HYDROTREATER,RW 0053 087.32, RECYCLE GAS, RECIPROCATING WITH PACKED GLANDS A/N: 429509 | D330 | | | | |
| FILTER, RPV 3731, STRIPPER BOTTOMS, HEIGHT: 5 FT 8 IN; DIAMETER: 8 FT 7 IN A/N: 429509 | D331 | | | | |
| FILTER, RPV 3732, STRIPPER BOTTOMS, HEIGHT: 5 FT 8 IN; DIAMETER: 8 FT 7 IN A/N: 429509 | D332 | | | | |
| FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 429509 | D2482 | | | **HAP**: (10) [**40CFR 63 Subpart CC, #5A, 6-23-2003**] | H23.3 |
| **System 2: MID-BARREL DESULFURIZER** | | | | | S13.2, S15.6, S56.1 |
| REACTOR, RPV 3900, HEIGHT: 27 FT 9 IN; DIAMETER: 8 FT 6 IN A/N: 429510 | D334 | | | | |
| SCRUBBER, RPV 3901, RECYCLE GAS MDEA, HEIGHT: 59 FT 6 IN; DIAMETER: 4 FT 6 IN A/N: 429510 | D335 | | | | |

* (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
# BP WEST COAST PROD.LLC BP CARSON REF.

## 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 |
|---|---|---|---|---|---|
| **Process 5: HYDROTREATING** | | | | | |
| COLUMN, STRIPPER, RPV 3902, STABILIZER SIDESTREAM, HEIGHT: 28 FT 6 IN; DIAMETER: 2 FT 6 IN<br>A/N: 429510 | D336 | | | | |
| COLUMN, STABILIZER, RPV 3903, HEIGHT: 70 FT 8 IN; DIAMETER: 8 FT<br>A/N: 429510 | D337 | | | | |
| SCRUBBER, RPV 3904, STABILIZER OFF-GASES MDEA, HEIGHT: 49 FT ; DIAMETER: 2 FT 6 IN<br>A/N: 429510 | D338 | | | | |
| TANK, FLASH, RPV 3909, REACTOR EFFLUENT, HEIGHT: 20 FT ; DIAMETER: 7 FT<br>A/N: 429510 | D339 | | | | |
| VESSEL, SEPARATOR, RPV 3910, DESULFURIZER OIL-WATER, LENGTH: 10 FT ; DIAMETER: 3 FT<br>A/N: 429510 | D340 | | | | |
| ACCUMULATOR, RPV 3911, STABILIZER OVERHEAD, HEIGHT: 10 FT ; DIAMETER: 4 FT<br>A/N: 429510 | D341 | | | | |
| POT, COMPRESSOR SUCTION, RPV 3912, STABILIZER OFF-GAS, HEIGHT: 5 FT 10 IN; DIAMETER: 2 FT<br>A/N: 429510 | D342 | | | | |
| KNOCK OUT POT, RPV 3913, HYDROGEN FEED GAS, HEIGHT: 4 FT ; DIAMETER: 2 FT<br>A/N: 429510 | D343 | | | | |

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

## 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 |
|---|---|---|---|---|---|
| **Process 5: HYDROTREATING** | | | | | |
| DRUM, KNOCK OUT, RPV 3915, RECYCLE GAS MDEA, HEIGHT: 7 FT ; DIAMETER: 2 FT 6 IN A/N: 429510 | D345 | | | | |
| DRUM, KNOCK OUT, RPV 3916, STABILIZER RELEASE OFF GAS, HEIGHT: 6 FT ; DIAMETER: 2 FT A/N: 429510 | D346 | | | | |
| VESSEL, SEPARATOR, RPV 3917, STABILIZER OFF-GAS, HEIGHT: 4 FT ; DIAMETER: 2 FT A/N: 429510 | D347 | | | | |
| FILTER, RPV 5654, FEED S, HEIGHT: 3 FT 10 IN; DIAMETER: 2 FT 6 IN A/N: 429510 | D348 | | | | |
| FILTER, RPV 5655, FEED N, HEIGHT: 3 FT 10 IN; DIAMETER: 2 FT 6 IN A/N: 429510 | D349 | | | | |
| COMPRESSOR, RW 0033 08732, THREE STAGE RECYCLE & MAKEUP HYDROGEN, INGERSOLL-RAND 13075 SCFM. WITH PACKED GLAND A/N: 429510 | D350 | | | | |
| COMPRESSOR, RW 36 087.32, THREE STAGE RECYCLE & MAKEUP HYDROGEN, INGERSOLL-RAND 13075 SCFM. WITH PACKED GLAND A/N: 429510 | D351 | | | | |
| COMPRESSOR, RW 003508732, OFF GAS, INGERSOLL-RAND 622 SCFM. WITH PACKED GLAND A/N: 429510 | D352 | | | | |

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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
# BP WEST COAST PROD.LLC BP CARSON REF.

## 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 |
|---|---|---|---|---|---|
| **Process 5: HYDROTREATING** | | | | | |
| COMPRESSOR, RW 003408732, OFF GAS, INGERSOLL-RAND 622 SCFM. WITH PACKED GLAND<br>A/N: 429510 | D353 | | | | |
| FUGITIVE EMISSIONS, MISCELLANEOUS<br>A/N: 429510 | D2483 | | | **HAP**: (10) [**40CFR 63 Subpart CC, #5A, 6-23-2003**] | H23.3 |
| **System 3: FLUID FEED HDS UNIT** | | | | | S13.2, S15.6, S31.9, S46.1, S46.2, S56.1 |
| ACCUMULATOR, RPV 4018, STRIPPER OVERHEAD, HEIGHT: 16 FT ; DIAMETER: 7 FT 6 IN<br>A/N: | D354 | | | **BENZENE**: (10) [**40CFR 61 Subpart FF, #2, 12-4-2003**];<br>**VOC**: 500 PPMV (8) [**40CFR 61 Subpart FF, 12-4-2003**] | H23.12 |
| MIST ELIMINATOR, RPV 5642<br>A/N: | D1404 | | | | |
| KNOCK OUT POT, RPV 4019, STRIPPER RELEASE MDEA, HEIGHT: 8 FT ; DIAMETER: 5 FT<br>A/N: | D355 | | | | |
| VESSEL, H2 SEPARATOR, RPV 5634, (PRISM), HEIGHT: 10 FT ; DIAMETER: 8 IN<br>A/N: | D1405 | | | | |
| TANK, SURGE, RPV 4027, FEED, LENGTH: 36 FT ; DIAMETER: 11 FT<br>A/N: | D356 | | | | |
| VESSEL, H2 SEPARATOR, RPV 5635, (PRISM), HEIGHT: 10 FT ; DIAMETER: 8 IN<br>A/N: | D1406 | | | | |

* (1) (1A) (1B) Denotes RECLAIM emission factor
(2) (2A) (2B) Denotes RECLAIM emission rate
(3) Denotes RECLAIM concentration limit
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(5) (5A) (5B) Denotes command and control emission limit
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(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
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## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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|---|---|---|---|---|---|
| **Process 5: HYDROTREATING** | | | | | |
| REACTOR, HDS, RPV 4400, HEIGHT: 60 FT ; DIAMETER: 16 FT<br>A/N: | D357 | | | | |
| VESSEL, H2 SEPARATOR, RPV 5636, (PRISM), HEIGHT: 10 FT ; DIAMETER: 8 IN<br>A/N: | D1407 | | | | |
| COLUMN, STRIPPER, RPV 4405, HEIGHT: 30 FT 6 IN; DIAMETER: 9 FT 6 IN<br>A/N: | D358 | | | | |
| VESSEL, H2 SEPARATOR , RPV 5637,(PRISM), HEIGHT: 10 FT ; DIAMETER: 8 IN<br>A/N: | D1408 | | | | |
| VESSEL, MDEA CONTACTOR, RPV 4406, RECYCLE GAS, HEIGHT: 19 FT 8 IN; DIAMETER: 7 FT 6 IN<br>A/N: | D359 | | | | |
| VESSEL, H2 SEPARATOR, RPV 5638, (PRISM), HEIGHT: 10 FT ; DIAMETER: 8 IN<br>A/N: | D1409 | | | | |
| VESSEL, MDEA CONTACTOR, RPV 4407, STRIPPER RELEASE, HEIGHT: 49 FT ; DIAMETER: 4 FT 6 IN<br>A/N: | D360 | | | | |
| VESSEL, H2 SEPARATOR, RPV 5639, (PRISM), HEIGHT: 10 FT ; DIAMETER: 8 IN<br>A/N: | D1410 | | | | |

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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.)
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# FACILITY PERMIT TO OPERATE
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## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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|---|---|---|---|---|---|
| **Process 5: HYDROTREATING** | | | | | |
| TANK, RPV 4411, HOT FLASH, HEIGHT: 22 FT ; DIAMETER: 10 FT A/N: | D361 | | | | |
| VESSEL, H2 SEPARATOR, RPV 5640, (PRISM), HEIGHT: 10 FT ; DIAMETER: 8 IN A/N: | D1411 | | | | |
| TANK, FLASH, RPV 4412, COLD, HEIGHT: 16 FT ; DIAMETER: 7 FT 6 IN A/N: | D362 | | | | |
| VESSEL, H2 SEPARATOR, RPV 5641, (PRISM), HEIGHT: 10 FT ; DIAMETER: 8 IN A/N: | D1412 | | | | |
| COMPRESSOR, RW 0057, RECIPROCATING TYPE A/N: | D1413 | | | | |
| FILTER, RPV 4471, FEED, BANK 1 (14 FILTERS), HEIGHT: 14 FT ; DIAMETER: 6 IN A/N: | D372 | | | | |
| FILTER, RPV 4472, FEED, BANK 2 (14 FILTERS), HEIGHT: 14 FT ; DIAMETER: 6 IN A/N: | D373 | | | | |
| FILTER, RPV 4473, FEED, BANK 3 (14 FILTERS), HEIGHT: 14 FT ; DIAMETER: 6 IN A/N: | D374 | | | | |

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(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
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|---|---|---|---|---|---|
| **Process 5: HYDROTREATING** | | | | | |
| FILTER, RPV 4474, FEED, BANK 4 (14 FILTERS), HEIGHT: 14 FT ; DIAMETER: 6 IN A/N: | D375 | | | | |
| FILTER, RPV 4475, FEED, BANK 5 (14 FILTERS), HEIGHT: 14 FT ; DIAMETER: 6 IN A/N: | D376 | | | | |
| VESSEL, H2 SEPARATOR, RPV 4500, TRAIN A, HEIGHT: 10 FT ; DIAMETER: 8 IN A/N: | D377 | | | | |
| VESSEL, H2 SEPARATOR, RPV 4501, TRAIN A, HEIGHT: 10 FT ; DIAMETER: 8 IN A/N: | D378 | | | | |
| VESSEL, H2 SEPARATOR, RPV 4502, TRAIN A, HEIGHT: 10 FT ; DIAMETER: 8 IN A/N: | D379 | | | | |
| VESSEL, H2 SEPARATOR, RPV 4503, TRAIN A, HEIGHT: 10 FT ; DIAMETER: 8 IN A/N: | D380 | | | | |
| VESSEL, H2 SEPARATOR , RPV 4504, TRAIN A, HEIGHT: 10 FT ; DIAMETER: 8 IN A/N: | D381 | | | | |
| VESSEL, H2 SEPARATOR, RPV 4505, TRAIN A, HEIGHT: 10 FT ; DIAMETER: 8 IN A/N: | D382 | | | | |

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(5) (5A) (5B) Denotes command and control emission limit
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# FACILITY PERMIT TO OPERATE
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## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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|---|---|---|---|---|---|
| **Process 5: HYDROTREATING** | | | | | |
| VESSEL, H2 SEPARATOR, RPV 4506, TRAIN B, HEIGHT: 10 FT ; DIAMETER: 8 IN A/N: | D383 | | | | |
| VESSEL, H2 SEPARATOR, RPV 4507, TRAIN B, HEIGHT: 10 FT ; DIAMETER: 8 IN A/N: | D384 | | | | |
| VESSEL, H2 SEPARATOR, RPV 4508, TRAIN B, HEIGHT: 10 FT ; DIAMETER: 8 IN A/N: | D385 | | | | |
| VESSEL, H2 SEPARATOR, RPV 4509, TRAIN B, HEIGHT: 10 FT ; DIAMETER: 8 IN A/N: | D386 | | | | |
| VESSEL, H2 SEPARATOR, RPV 4510, TRAIN B, HEIGHT: 10 FT ; DIAMETER: 8 IN A/N: | D387 | | | | |
| VESSEL, H2 SEPARATOR, RPV 4511, TRAIN B, HEIGHT: 10 FT ; DIAMETER: 8 IN A/N: | D388 | | | | |
| VESSEL, H2 SEPARATOR, RPV 4512, TRAIN C, HEIGHT: 10 FT ; DIAMETER: 8 IN A/N: | D389 | | | | |
| VESSEL, H2 SEPARATOR, RPV 4513, TRAIN C, HEIGHT: 10 FT ; DIAMETER: 8 IN A/N: | D390 | | | | |

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(3) Denotes RECLAIM concentration limit
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(5) (5A) (5B) Denotes command and control emission limit
(6) Denotes air toxic control rule limit
(7) Denotes NSR applicability limit
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# FACILITY PERMIT TO OPERATE
# BP WEST COAST PROD.LLC BP CARSON REF.

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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|---|---|---|---|---|---|
| **Process 5: HYDROTREATING** | | | | | |
| VESSEL, H2 SEPARATOR, RPV 4514, TRAIN C, HEIGHT: 10 FT ; DIAMETER: 8 IN A/N: | D391 | | | | |
| VESSEL, H2 SEPARATOR, RPV 4515, TRAIN C, HEIGHT: 10 FT ; DIAMETER: 8 IN A/N: | D392 | | | | |
| VESSEL, H2 SEPARATOR, RPV 4516, TRAIN C, HEIGHT: 10 FT ; DIAMETER: 8 IN A/N: | D393 | | | | |
| VESSEL, H2 SEPARATOR, RPV 4517, TRAIN C, HEIGHT: 10 FT ; DIAMETER: 8 IN A/N: | D394 | | | | |
| KNOCK OUT POT, RPV 4520, H2 PURIFICATION, HEIGHT: 4 FT ; DIAMETER: 2 FT 6 IN A/N: | D395 | | | | |
| POT, RPV 4521, H2 DEMISTER, HEIGHT: 8 FT ; DIAMETER: 2 FT A/N: | D396 | | | | |
| COMPRESSOR, RW 0018 08706, RECYCLE GAS, CENTRIFUGAL A/N: | D397 | | | | |
| COMPRESSOR, RW 0051 08732, MAKE UP GAS A, RECIPROCATING WITH PACKED SEALS A/N: | D398 | | | | |

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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
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(8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
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# FACILITY PERMIT TO OPERATE
# BP WEST COAST PROD.LLC BP CARSON REF.

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

| Equipment | ID No. | Connected To | RECLAIM Source Type/ Monitoring Unit | Emissions * And Requirements | Conditions |
|---|---|---|---|---|---|
| **Process 5: HYDROTREATING** | | | | | |
| COMPRESSOR, RW 0052 08732, MAKE UP GAS B, RECIPROCATING WITH PACKED SEALS<br>A/N: | D399 | | | | |
| KNOCK OUT POT, RPV 5563, HYDROGEN PURIFICATION, HEIGHT: 14 FT ; DIAMETER: 2 FT 5 IN<br>A/N: | D400 | | | | |
| FUGITIVE EMISSIONS, MISCELLANEOUS<br>A/N: | D2484 | | | **HAP**: (10) [**40CFR 63 Subpart CC, #5A, 6-23-2003**] | H23.3 |
| **System 4: No. 1 LIGHT HYDROTREATING UNIT** | | | | | S11.1, S13.2, S15.6, S31.1, S56.1 |
| TANK, SURGE, RPV 0207, LENGTH: 30 FT ; DIAMETER: 10 FT<br>A/N: | D401 | | | | |
| POT, RPV 3010, STABILIZER REBOILER CONDENSATE, HEIGHT: 2 FT 8 IN; DIAMETER: 1 FT 4 IN<br>A/N: | D402 | | | | |
| REACTOR, RPV 3000, NO.1, HEIGHT: 12 FT ; DIAMETER: 5 FT 6 IN<br>A/N: | D403 | | | | |
| REACTOR, RPV 3001, NO.2, HEIGHT: 70 FT ; DIAMETER: 15 FT<br>A/N: | D404 | | | | |
| REACTOR, RPV 3002, NO.3, HEIGHT: 7 FT 9 IN; DIAMETER: 5 FT 6 IN<br>A/N: | D405 | | | | |

* (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
# BP WEST COAST PROD.LLC BP CARSON REF.

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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|---|---|---|---|---|---|
| **Process 5: HYDROTREATING** | | | | | |
| TANK, FLASH, RPV 3007, EFFLUENT, LENGTH: 15 FT ; DIAMETER: 5 FT<br>A/N: | D406 | | | **BENZENE**: (10) [**40CFR 61 Subpart FF, #2, 12-4-2003**];<br>**VOC**: 500 PPMV (8) [**40CFR 61 Subpart FF, 12-4-2003**] | H23.12 |
| COLUMN, STABILIZER, RPV 3012, HEIGHT: 49 FT ; DIAMETER: 6 FT 6 IN<br>A/N: | D407 | | | | |
| ACCUMULATOR, RPV 3013, STABILIZER OVERHEAD, HEIGHT: 23 FT 7 IN; DIAMETER: 4 FT<br>A/N: | D408 | | | **BENZENE**: (10) [**40CFR 61 Subpart FF, #2, 12-4-2003**];<br>**VOC**: 500 PPMV (8) [**40CFR 61 Subpart FF, 12-4-2003**] | H23.12 |
| ABSORBER, RPV 3020, HEIGHT: 61 FT 9 IN; DIAMETER: 3 FT<br>A/N: | D411 | | | | |
| VESSEL, MDEA CONTACTOR, RPV 3026, HEIGHT: 37 FT ; DIAMETER: 2 FT 6 IN<br>A/N: | D412 | | | | |
| KNOCK OUT POT, RPV 3022, HYDROGEN RELEASE MDEA, HEIGHT: 6 FT ; DIAMETER: 2 FT<br>A/N: | D413 | | | | |
| REACTOR, RPV 3027, NO.4, HEIGHT: 14 FT 9 IN; DIAMETER: 5 FT 6 IN<br>A/N: | D414 | | | | |
| COMPRESSOR, RW 0001 08731, STABILIZER OVERHEAD VAPOR, 3050 MSCFD CAPACITY, WITH METALLIC PACKING<br>A/N: | D415 | | | | |

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

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|---|---|---|---|---|---|
| **Process 5: HYDROTREATING** | | | | | |
| FUGITIVE EMISSIONS, MISCELLANEOUS<br>A/N: | D2485 | | | **HAP**: (10) [**40CFR 63 Subpart CC, #5A, 6-23-2003**] | H23.3 |
| **System 5: NAPHTHA HDS UNIT** | | | | | S13.2, S46.1, S46.2, S56.1 |
| TOWER, STRIPPER, RW 5809, DIA: 3 FT 6 IN/6 FT 6 IN, HEIGHT: 54 FT 5 IN<br>A/N: 504702 | D1420 | | | | |
| COLUMN, CONTACTOR, RW 5810, RELEASE HYDROGEN MDEA, HEIGHT: 50 FT 11 IN; DIAMETER: 3 FT<br>A/N: 504702 | D1421 | | | | |
| REACTOR, RW 5832, HEIGHT: 21 FT 1 IN; DIAMETER: 7 FT<br>A/N: 504702 | D1422 | | | | |
| KNOCK OUT POT, RW 5833, MAKE-UP HYDROGEN, HEIGHT: 7 FT 6 IN; DIAMETER: 2 FT<br>A/N: 504702 | D1423 | | | | |
| ACCUMULATOR, RW 5836, STRIPPER OVERHEAD, HEIGHT: 13 FT 9 IN; DIAMETER: 4 FT 3 IN<br>A/N: 504702 | D1424 | | | **BENZENE**: (10) [**40CFR 61 Subpart FF, #2, 12-4-2003**];<br>**VOC**: 500 PPMV (8) [**40CFR 61 Subpart FF, 12-4-2003**] | H23.12 |
| POT, CONDENSATE, RW 5834, STRIPPER REBOILER, HEIGHT: 3 FT ; DIAMETER: 1 FT 6 IN<br>A/N: 504702 | D1425 | | | | |
| TANK, FLASH, RW 5838, HEIGHT: 29 FT ; DIAMETER: 7 FT<br>A/N: 504702 | D1426 | | | | |

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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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# BP WEST COAST PROD.LLC BP CARSON REF.

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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|---|---|---|---|---|---|
| **Process 5: HYDROTREATING** | | | | | |
| TANK, SURGE, RW 5839, FEED, HEIGHT: 42 FT ; DIAMETER: 10 FT<br>A/N: 504702 | D1427 | | | | |
| KNOCK OUT POT, NATURAL GAS FILTER, RW 5837, HEIGHT: 5 FT ; DIAMETER: 2 FT<br>A/N: 504702 | D1432 | | | | |
| FUGITIVE EMISSIONS, MISCELLANEOUS<br>A/N: 504702 | D2488 | | | **HAP**: (10) [**40CFR 63 Subpart CC, #5A, 6-23-2003**] | H23.3 |
| **System 6: HYDROTREATING UNIT HEATERS** | | | | | |
| HEATER, JET TREATER, R-1, REFINERY GAS, WITH LOW NOX BURNER, 24 MMBTU/HR WITH<br>A/N: 463810<br><br>BURNER, FOUR(4) BURNERS, REFINERY GAS, JOHN ZINK, MODEL NDR-16, WITH LOW NOX BURNER, 24 MMBTU/HR | D416 | | 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**: 36 PPMV REFINERY 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, C1.58, D90.4, D328.1, H23.1, K67.2 |

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

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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|---|---|---|---|---|---|
| **Process 5: HYDROTREATING** | | | | | |
| HEATER, JET TREATER STABILIZER REBOILER, R-2, REFINERY GAS, WITH LOW NOX BURNER, 10 MMBTU/HR WITH A/N: 396029<br><br>BURNER, THREE(3) BURNERS, REFINERY GAS, JOHN ZINK, MODEL NDR-14, WITH LOW NOX BURNER, 10 MMBTU/HR | D417 | | 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**: 36 PPMV REFINERY 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**] | A63.23, A63.26, B61.4, D29.3, D90.4, D328.1, E51.4, E51.5, H23.1, K67.2, K67.11 |
| HEATER, JET TREATER, R-3, REFINERY GAS, WITH LOW NOX BURNER, 11 MMBTU/HR WITH A/N: 450593<br><br>BURNER, THREE(3) BURNERS, REFINERY GAS, JOHN ZINK, MODEL NDR-16, WITH LOW NOX BURNER, 11 MMBTU/HR | D418 | | 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**: 36 PPMV REFINERY 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, C1.46, D90.4, D328.1, H23.1, K67.2, 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
# BP WEST COAST PROD.LLC BP CARSON REF.

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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|---|---|---|---|---|---|
| **Process 5: HYDROTREATING** | | | | | |
| HEATER, NO. 018, MID BARREL STABILIZER REBOILER, REFINERY GAS, BORN ENGINEERING, WITH LOW NOX BURNER, 52 MMBTU/HR WITH<br>A/N: 395831<br><br>BURNER, FOUR(4) BURNERS, REFINERY GAS, CALLIDUS, MODEL CUB-12W, WITH LOW NOX BURNER, 52 MMBTU/HR | D419 | | 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, C1.22, D90.4, D328.1, H23.1, K67.2 |
| HEATER, 019, MID BARREL FEED, REFINERY GAS, WITH LOW NOX BURNER, 82 MMBTU/HR WITH<br>A/N: 395830<br><br>BURNER, EIGHT(8) BURNERS, REFINERY GAS, CALLIDUS, MODEL CUB-8W, WITH LOW NOX BURNER, 82 MMBTU/HR | D421 | | 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, C1.21, D90.4, D328.1, H23.1, K67.2 |
| HEATER, FCC HDS, REFINERY GAS, WITH LOW NOX BURNER, 80 MMBTU/HR WITH<br>A/N: 396079<br><br>BURNER, SIXTEEN (16) BURNERS, REFINERY GAS, JOHN ZINK, WITH LOW NOX BURNER, 80 MMBTU/HR | D423 | | 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, D90.4, D328.1, H23.1 |

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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
(10) See section J for NESHAP/MACT requirements

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

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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|---|---|---|---|---|---|
| **Process 5: HYDROTREATING** | | | | | |
| HEATER, LIGHT GASOLINE HYDROGENATION FEED, REFINERY GAS, WITH LOW NOX BURNER, 22 MMBTU/HR WITH<br>A/N: 450597<br><br>BURNER, FOUR(4) BURNERS, REFINERY GAS, JOHN ZINK, MODEL VPMR NO.22, WITH LOW NOX BURNER, 22 MMBTU/HR | D425 | | 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**: 36 PPMV REFINERY 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, C1.47, D90.4, D328.1, H23.1, K67.2 |

* (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.)
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## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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|---|---|---|---|---|---|
| **Process 5: HYDROTREATING** | | | | | |
| HEATER, RW 0053, NAPHTHA HDS REACTOR FEED, NATURAL GAS, MODEL HORIZONTAL CABIN TYPE, WITH LOW NOX BURNER, 12.5 MMBTU/HR WITH<br>A/N:<br><br>BURNER, FOUR BURNERS, NATURAL GAS, WITH LOW NOX BURNER, 12.5 MMBTU/HR | D1433 | | NOX: LARGE SOURCE** | **CO**: 0.46 LBS/HR NATURAL GAS (4) [**RULE 1303(a)(1) -BACT, 5-10-1996**]; **CO**: 50 PPMV NATURAL GAS (4) [**RULE 1303(a)(1)-BACT, 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**]; **NOX**: 25 PPMV NATURAL GAS (4) [**RULE 2005, 4-20-2001; RULE 2005, 5-6-2005**]; **NOX**: 25 PPMV (3) [**RULE 2012, 5-6-2005**]; **PM**: (9) [**RULE 404, 2-7-1986**]; **PM**: 0.1 GRAINS/SCF (5) [**RULE 409, 8-7-1981**]; **PM**: 0.25 LBS/HR NATURAL GAS (4) [**RULE 1303(a)(1)-BACT, 5-10-1996**]; **PM**: 21 LBS/MMSCF NATURAL GAS (4) [**RULE 1303(a)(1)-BACT, 5-10-1996**] | A63.19, D29.3, D328.1, E71.13, E193.1 |
| **Process 6: CATALYTIC REFORMING** | | | | | |
| **System 1: NO.1 CATALYTIC REFORMER UNIT** | | | | | S13.2, S15.6, S46.1, S46.2, S56.1 |
| DRYER, WEST HYDROGEN, RW 6109, HEIGHT: 16 FT ; DIAMETER: 3 FT<br>A/N: | D1434 | | | | |

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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.)
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|---|---|---|---|---|---|
| **Process 6: CATALYTIC REFORMING** | | | | | |
| COLUMN, DESULFURIZER STRIPPER, RPV 2713, HEIGHT: 50 FT ; DIAMETER: 5 FT 6 IN<br>A/N: | D426 | | | | |
| DRYER, EAST HYDROGEN, RW 6110, HEIGHT: 16 FT ; DIAMETER: 3 FT<br>A/N: | D1435 | | | | |
| VESSEL, HIGH PRESSURE MDEA CONTACTOR, RPV 2716, HEIGHT: 48 FT ; DIAMETER: 5 FT 6 IN<br>A/N: | D427 | | | | |
| KNOCK OUT POT, HYDROGEN DRYER, RW6111, HEIGHT: 8 FT ; DIAMETER: 2 FT<br>A/N: | D1436 | | | | |
| REACTOR, DESULFURIZER, RPV 2702, HEIGHT: 24 FT 4 IN; DIAMETER: 11 FT<br>A/N: | D428 | | | | |
| KNOCK OUT POT, HIGH PRESSURE MDEA, RPV 2755, HEIGHT: 12 FT ; DIAMETER: 4 FT<br>A/N: | D429 | | | | |
| ACCUMULATOR, RPV 2715, DESULFURIZER STRIPPER OVERHEAD, LENGTH: 10 FT ; DIAMETER: 4 FT<br>A/N: | D430 | | | **BENZENE**: (10) [**40CFR 61 Subpart FF, #2, 12-4-2003**];<br>**VOC**: 500 PPMV (8) [**40CFR 61 Subpart FF, 12-4-2003**] | H23.12 |
| KNOCK OUT POT, RPV 2718, FUEL GAS, HEIGHT: 8 FT ; DIAMETER: 4 FT<br>A/N: | D431 | | | | |

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(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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|---|---|---|---|---|---|
| **Process 6: CATALYTIC REFORMING** | | | | | |
| FILTER, REFORMER CHARGE, RPV 2711, MORLANE COMPANY, MODEL TYPE 600-R-6, HEIGHT: 5 FT ; DIAMETER: 1 FT 6 IN<br>A/N: | D432 | | | | |
| FILTER, REFORMER CHARGE, RPV 2712, MORLANE COMPANY, MODEL TYPE 600-R-6, HEIGHT: 5 FT ; DIAMETER: 1 FT 6 IN<br>A/N: | D433 | | | | |
| COMPRESSOR, RW 0005 087.03, DESULFURIZER FEED GAS, INGERSOLL-RAND<br>A/N: | D434 | | | | |
| COMPRESSOR, RW 0006 087.3, DESULFURIZER RECYCLE GAS, INGERSOLL-RAND<br>A/N: | D435 | | | | |
| VESSEL, LOW PRESSURE MDEA CONTACTOR, RPV 2717, HEIGHT: 53 FT 5 IN; DIAMETER: 3 FT 6 IN<br>A/N: | D437 | | | | |
| KNOCK OUT POT, LOW PRESSURE MDEA, RPV 2719, HEIGHT: 6 FT ; DIAMETER: 6 FT 6 IN<br>A/N: | D438 | | | | |
| REACTOR, HYDROGENATION, RPV 2701, HEIGHT: 13 FT ; DIAMETER: 5 FT 6 IN<br>A/N: | D439 | | | | |

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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.)
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|---|---|---|---|---|---|
| **Process 6: CATALYTIC REFORMING** | | | | | |
| TANK, FLASH, REFORMER, RPV 2739, HEIGHT: 15 FT ; DIAMETER: 6 FT 5 IN<br>A/N: | D440 | | | | |
| DRUM, RPV 2728, CONTAMINATED WATER, HEIGHT: 6 FT ; DIAMETER: 3 FT<br>A/N: | D444 | | | | |
| COLUMN, REFORMER STABILIZER, RPV 2743, HEIGHT: 96 FT 6 IN; DIAMETER: 5 FT 6 IN<br>A/N: | D445 | | | | |
| REACTOR, NO.1 REFORMER, RPV 2748, HEIGHT: 20 FT ; DIAMETER: 5 FT 4 IN<br>A/N: | D446 | | | **HAP**: (10) [**40CFR 63 Subpart UUU, #1, 4-20-2006**] | |
| REACTOR, NO.2 REFORMER, RPV 2747, HEIGHT: 20 FT 9 IN; DIAMETER: 5 FT 4 IN<br>A/N: | D447 | | | **HAP**: (10) [**40CFR 63 Subpart UUU, #1, 4-20-2006**] | |
| REACTOR, NO.3 REFORMER, RPV 2750, HEIGHT: 19 FT 3 IN; DIAMETER: 7 FT 4 IN<br>A/N: | D448 | | | **HAP**: (10) [**40CFR 63 Subpart UUU, #1, 4-20-2006**] | |
| REACTOR, NO.4 REFORMER, RPV 2751, HEIGHT: 13 FT ; DIAMETER: 11 FT 10 IN<br>A/N: | D449 | | | **HAP**: (10) [**40CFR 63 Subpart UUU, #1, 4-20-2006**] | |
| COMPRESSOR, RW 22 08706, DESULFURIZER RECYCLE<br>A/N: | D451 | | | | |

* (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
# BP WEST COAST PROD.LLC BP CARSON REF.

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

| Equipment | ID No. | Connected To | RECLAIM Source Type/ Monitoring Unit | Emissions * And Requirements | Conditions |
|---|---|---|---|---|---|
| **Process 6: CATALYTIC REFORMING** | | | | | |
| EJECTOR, DESULFURIZER-HYDROGENATION EVACUATOR, RW 19 15401<br>A/N: | D452 | | | | |
| EJECTOR, REFORMER EVACUATOR, RW 20 154.02<br>A/N: | D453 | | | | |
| COMPRESSOR, RW 0004 087.06, REFORMER RECYCLE GAS, RECIPROCATING, SIX STAGES<br>A/N: | D454 | | | | |
| DRUM, RPV 0235, FUEL GAS NORTH AREA, HEIGHT: 12 FT ; DIAMETER: 6 FT<br>A/N: | D455 | | | | |
| TANK, RPV 2775, TCA INJECTION, HEIGHT: 3 FT ; DIAMETER: 2 FT<br>A/N: | D456 | | | | |
| REACTOR, RPV 3286, R4B, HEIGHT: 12 FT 5 IN; DIAMETER: 11 FT 10 IN<br>A/N: | D457 | | | **HAP**: (10) [**40CFR 63 Subpart UUU, #1, 4-20-2006**] | |
| DRUM, TRAP, RPV 4016, HYDROGEN SYSTEM CHLORIDE, HEIGHT: 7 FT 10 IN; DIAMETER: 5 FT<br>A/N: | D458 | | | | |
| DRUM, RPV 4030, STABILIZER REFLUX, HEIGHT: 16 FT ; DIAMETER: 4 FT<br>A/N: | D459 | | | | |
| DRUM, TRAP, RPV 5106, SULFUR, HEIGHT: 10 FT 9 IN; DIAMETER: 6 FT<br>A/N: | D460 | | | | |

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

## 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 |
|---|---|---|---|---|---|
| **Process 6: CATALYTIC REFORMING** | | | | | |
| FUGITIVE EMISSIONS, MISCELLANEOUS<br>A/N: | D2489 | | | **HAP**: (10) [**40CFR 63 Subpart CC, #5A, 6-23-2003**] | H23.3 |
| **System 2: NO.2 CATALYTIC REFORMER UNIT** | | | | | S13.2, S15.6, S56.1 |
| REACTOR, REFORMER NO.2, RPV 3100, HEIGHT: 18 FT ; DIAMETER: 8 FT 6 IN<br>A/N: | D461 | | | **HAP**: (10) [**40CFR 63 Subpart UUU, #1, 4-20-2006**] | |
| REACTOR, DESULFURIZER , RPV 3101, HEIGHT: 25 FT ; DIAMETER: 12 FT 6 IN<br>A/N: | D462 | | | | |
| REACTOR, REFORMER NO.3-B, RPV 3103, HEIGHT: 14 FT 10 IN; DIAMETER: 15 FT<br>A/N: | D463 | | | **HAP**: (10) [**40CFR 63 Subpart UUU, #1, 4-20-2006**] | |
| REACTOR, REFORMER NO.3-A, RPV 3104, HEIGHT: 14 FT 10 IN; DIAMETER: 15 FT<br>A/N: | D464 | | | **HAP**: (10) [**40CFR 63 Subpart UUU, #1, 4-20-2006**] | |
| REACTOR, REFORMER NO.1, RPV 3105, HEIGHT: 16 FT 6 IN; DIAMETER: 7 FT<br>A/N: | D465 | | | **HAP**: (10) [**40CFR 63 Subpart UUU, #1, 4-20-2006**] | |
| VESSEL, MDEA CONTACTOR, RPV 3108, HEIGHT: 56 FT 11 IN; DIAMETER: 5 FT 6 IN<br>A/N: | D468 | | | | |
| VESSEL, SEPARATOR, RPV 3133, SOUR WATER OIL, HEIGHT: 6 FT ; DIAMETER: 2 FT<br>A/N: | D469 | | | | |

* (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
# BP WEST COAST PROD.LLC BP CARSON REF.

## 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 |
|---|---|---|---|---|---|
| **Process 6: CATALYTIC REFORMING** | | | | | |
| ACCUMULATOR, RPV 3134, DESULFURIZER STRIPPER, OVERHEAD, HEIGHT: 13 FT ; DIAMETER: 3 FT 6 IN<br>A/N: | D470 | | | | |
| COLUMN, DESULFURIZER STRIPPER, RPV 3135, HEIGHT: 53 FT 6 IN; DIAMETER: 5 FT 6 IN<br>A/N: | D471 | | | | |
| FILTER, RPV 5863, CATALYST, MOORLANE, MODEL 246, HEIGHT: 7 FT ; DIAMETER: 2 FT 2 IN<br>A/N: | D472 | | | | |
| FILTER, RPV 5864, CATALYST, MOORLANE, MODEL 246, HEIGHT: 7 FT ; DIAMETER: 2 FT 2 IN<br>A/N: | D473 | | | | |
| TANK, FLASH, REFORMER, RPV 3137, HEIGHT: 15 FT ; DIAMETER: 10 FT<br>A/N: | D474 | C1308 | | **HAP**: (10) [**40CFR 63 Subpart CC, #2, 6-23-2003**] | |
| POT, RPV 3146, STABILIZER REBOILER CONDENSATE, HEIGHT: 2 FT 6 IN; DIAMETER: 1 FT 8 IN<br>A/N: | D475 | | | | |
| COMPRESSOR, RW 0007 087.06, REFORMER RECYCLE, CENTRIFUGAL, WITH TWO OIL SEALS<br>A/N: | D476 | | | | |

* (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
# BP WEST COAST PROD.LLC BP CARSON REF.

## 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 |
|---|---|---|---|---|---|
| **Process 6: CATALYTIC REFORMING** | | | | | |
| COMPRESSOR, RW 0009 087.03, DESULFURIZER FEED, RECIPROCATING<br>A/N: | D477 | | | | |
| COMPRESSOR, RW 0010 087.03, DESULFURIZER RECYCLE, RECIPROCATING, TWO CYLINDERS<br>A/N: | D478 | | | | |
| EJECTOR, REFORMER EVACUATER JET, RW 0051 154.01<br>A/N: | D479 | | | | |
| EJECTOR, SURFACE CONDENSER EVACUATER JETS, RW 0052 154.01<br>A/N: | D480 | | | | |
| COLUMN, STABILIZER, RPV 3143, HEIGHT: 69 FT 6 IN; DIAMETER: 7 FT<br>A/N: | D481 | | | | |
| ACCUMULATOR, RPV 3142, REFORMER STABILIZER OVERHEAD, HEIGHT: 16 FT ; DIAMETER: 5 FT 6 IN<br>A/N: | D482 | | | | |
| KNOCK OUT POT, RPV 2893, FUEL GAS, HEIGHT: 8 FT ; DIAMETER: 5 FT<br>A/N: | D483 | | | | |
| KNOCK OUT POT, CHLORIDE TRAP, RPV 3293, HEIGHT: 11 IN; DIAMETER: 4 IN<br>A/N: | D485 | | | | |

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

## 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 |
|---|---|---|---|---|---|
| **Process 6: CATALYTIC REFORMING** | | | | | |
| DRUM, CHLORIDE TRAP, RPV 4017, HEIGHT: 36 FT ; DIAMETER: 7 FT 6 IN<br>A/N: | D486 | | | | |
| FUGITIVE EMISSIONS, MISCELLANEOUS<br>A/N: | D2490 | | | **HAP**: (10) [**40CFR 63 Subpart CC, #5A, 6-23-2003**] | H23.3 |
| **System 3: NO. 3 CATALYTIC REFORMER UNIT** | | | | | S13.2, S31.4, S56.1 |
| KNOCK OUT POT, RPV 2366, HYDROGEN RECYCLE, HEIGHT: 10 FT ; DIAMETER: 7 FT<br>A/N: | D487 | | | | |
| DRUM, RPV 2781, STABILIZER REBOILER CONDENSATE, HEIGHT: 2 FT 4 IN; DIAMETER: 1 FT 8 IN<br>A/N: | D488 | | | | |
| ACCUMULATOR, RPV 2849, STABILIZER OVERHEAD, HEIGHT: 8 FT ; DIAMETER: 4 FT<br>A/N: | D489 | | | | |
| TOWER, REFORMATE STABILIZER, RPV 2850, HEIGHT: 77 FT ; DIAMETER: 6 FT<br>A/N: | D490 | | | | |
| COLUMN, WASH, RPV 2800, RAFFINATE WATER, HEIGHT: 24 FT ; DIAMETER: 3 FT<br>A/N: | D491 | | | | |
| COLUMN, WASH, RPV 2801, RAFFINATE WATER, HEIGHT: 24 FT ; DIAMETER: 3 FT<br>A/N: | D492 | | | | |

* (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
# BP WEST COAST PROD.LLC BP CARSON REF.

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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|---|---|---|---|---|---|
| **Process 6: CATALYTIC REFORMING** | | | | | |
| VESSEL, EXTRACTOR, RPV 2806, HEIGHT: 77 FT ; DIAMETER: 8 FT A/N: | D493 | | | | |
| COLUMN, STRIPPER, RPV 2807A, HEIGHT: 118 FT ; DIAMETER: 7 FT A/N: | D494 | | | | |
| TANK, STRIPPER FLASH, RPV 2807 B, HEIGHT: 9 FT 7 IN; DIAMETER: 7 FT A/N: | D495 | | | | |
| VESSEL, RECEIVER, EXTRACTOR, RPV 2810, LENGTH: 16 FT ; DIAMETER: 4 FT A/N: | D496 | | | | |
| VESSEL, RECEIVER, RPV 2816, STRIPPER OVERHEAD, LENGTH: 16 FT ; DIAMETER: 5 FT 6 IN A/N: | D497 | | | | |
| VESSEL, RECEIVER, RPV 2819, WATER, LENGTH: 16 FT ; DIAMETER: 3 FT A/N: | D498 | | | | |
| REGENERATOR, RPV 2822, SOLVENT, HEIGHT: 27 FT 6 IN; DIAMETER: 6 FT A/N: | D499 | | | | |
| COLUMN, RPV 2823, WATER, HEIGHT: 32 FT ; DIAMETER: 3 FT 6 IN A/N: | D500 | | | | |

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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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(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
# BP WEST COAST PROD.LLC BP CARSON REF.

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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|---|---|---|---|---|---|
| **Process 6: CATALYTIC REFORMING** | | | | | |
| DRUM, TRAP, RPV 2872, SULFUR, HEIGHT: 6 FT 9 IN; DIAMETER: 9 FT 10 IN<br>A/N: | D501 | | | | |
| KNOCK OUT POT, RPV 2896, FUEL GAS<br>A/N: | D503 | | | | |
| FILTER, RPV 2948, SOLVENT W, HEIGHT: 2 FT 8 IN; DIAMETER: 10 IN<br>A/N: | D504 | | | | |
| FILTER, RPV 2949, SOLVENT E, HEIGHT: 2 FT 8 IN; DIAMETER: 10 IN<br>A/N: | D505 | | | | |
| DRUM, CHLORIDE TRAP, RPV 4015, HEIGHT: 7 FT 10 IN; DIAMETER: 5 FT 10 IN<br>A/N: | D506 | | | | |
| TANK, SURGE, RPV 2836, FEED, LENGTH: 32 FT ; DIAMETER: 9 FT<br>A/N: | D507 | | | | |
| COLUMN, NO. 3 REFORMER FRACTIONATOR DEISOPENTANIZER, RPV 2845, HEIGHT: 93 FT 6 IN; DIAMETER: 8 FT<br>A/N: | D509 | | | | |
| POT, INJECTION, RPV 4045, CHLORIDE, HEIGHT: 5 FT 8 IN; DIAMETER: 2 FT<br>A/N: | D510 | | | | |

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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
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(8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
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# FACILITY PERMIT TO OPERATE
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## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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|---|---|---|---|---|---|
| **Process 6: CATALYTIC REFORMING** | | | | | |
| VESSEL, RECEIVER, RPV 5109,WATER COLUMN, HEIGHT: 12 FT ; DIAMETER: 2 FT<br>A/N: | C511 | | | | |
| TANK, FLASH, RPV 2863, REFORMATE, HEIGHT: 15 FT ; DIAMETER: 6 FT 6 IN<br>A/N: | D512 | | | | |
| KNOCK OUT POT, RPV 2864, HYDROGEN GAS, HEIGHT: 6 FT ; DIAMETER: 2 FT 6 IN<br>A/N: | D513 | | | | |
| REACTOR, RPV 2871, NO.1, HEIGHT: 11 FT 6 IN; DIAMETER: 6 FT 6 IN<br>A/N: | D514 | | | **HAP**: (10) [**40CFR 63 Subpart UUU, #1, 4-20-2006**] | |
| REACTOR, RPV 5115, NO.4, HEIGHT: 12 FT 7 IN; DIAMETER: 15 FT 6 IN<br>A/N: | D515 | | | **HAP**: (10) [**40CFR 63 Subpart UUU, #1, 4-20-2006**] | |
| REACTOR, RPV 2873, NO.2, HEIGHT: 11 FT 6 IN; DIAMETER: 5 FT 6 IN<br>A/N: | D516 | | | **HAP**: (10) [**40CFR 63 Subpart UUU, #1, 4-20-2006**] | |
| REACTOR, RPV 2874, NO.3, HEIGHT: 11 FT 1 IN; DIAMETER: 7 FT<br>A/N: | D517 | | | **HAP**: (10) [**40CFR 63 Subpart UUU, #1, 4-20-2006**] | |
| KNOCK OUT POT, RPV 2876, HEIGHT: 8 FT ; DIAMETER: 2 FT<br>A/N: | D518 | | | | |
| POT, STRIPPER REBOILER CONDENSATE, RPV 5110, HEIGHT: 3 FT ; DIAMETER: 1 FT 8 IN<br>A/N: | D519 | | | | |

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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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(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
# BP WEST COAST PROD.LLC BP CARSON REF.

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|---|---|---|---|---|---|
| **Process 6: CATALYTIC REFORMING** | | | | | |
| FILTER, RPV 5754, FUEL GAS, HEIGHT: 10 FT ; DIAMETER: 1 FT 5 IN<br>A/N: | D520 | | | | |
| KNOCK OUT POT, VAPOR RECOVERY, RPV 2891, HEIGHT: 12 FT ; DIAMETER: 6 FT<br>A/N: | D521 | | | | |
| DRUM, RPV 5108, FRACTIONATOR REBOILER CONDENSATE, HEIGHT: 2 FT 2 IN; DIAMETER: 1 FT 10 IN<br>A/N: | D522 | | | | |
| COMPRESSOR, RW 0005 087.06, RECYCLE GAS, CENTRIFUGAL<br>A/N: | D523 | | | | |
| TANK, HOLDING, NO.930, SODA ASH, 300 BBL; DIAMETER: 13 FT 6 IN; HEIGHT: 12 FT<br>A/N: | D525 | D1313 D1314 D1656 D2807 | | | |
| TANK, HOLDING, NO.931, UDEX FEED, 1570 BBL; DIAMETER: 25 FT ; HEIGHT: 18 FT<br>A/N: | D526 | D1313 D1314 D1656 D2807 | | | |
| TANK, HOLDING, NO.932, PLANT SOLVENT, 1000 BBL; DIAMETER: 20 FT ; HEIGHT: 18 FT<br>A/N: | D527 | D1313 D1314 D1656 D2807 | | | |
| TANK, HOLDING, NO.934, WET SOLVENT, 300 BBL; DIAMETER: 12 FT 3 IN; HEIGHT: 12 FT<br>A/N: | D528 | D1313 D1314 D1656 D2807 | | | |

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

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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|---|---|---|---|---|---|
| **Process 6: CATALYTIC REFORMING** | | | | | |
| SUMP, CONCRETE, SOLVENT, WITH METAL COVER, WIDTH: 6 FT ; DEPTH: 8 FT ; LENGTH: 6 FT<br>A/N: | D529 | | | | |
| ADSORBER, DRIER, SECONDARY EAST, RPV 2981, HEIGHT: 10 FT 6 IN; DIAMETER: 3 FT 6 IN<br>A/N: | D530 | | | | |
| ADSORBER, DRIER, SECONDARY WEST, RPV 2982, HEIGHT: 10 FT 6 IN; DIAMETER: 3 FT 6 IN<br>A/N: | D531 | | | | |
| FUGITIVE EMISSIONS, MISCELLANEOUS<br>A/N: | D2491 | | | **HAP**: (10) [**40CFR 63 Subpart CC, #5A, 6-23-2003**] | H23.3 |
| **System 4: CATALYTIC REFORMING UNIT HEATERS** | | | | | |
| HEATER, NO.1 REFORMER, NO. 014, REFINERY GAS, ALCORN COMBUSTION COMPANY, WITH LOW NOX BURNER, 255 MMBTU/HR WITH<br>A/N: 453163<br><br>BURNER, 75 BURNERS, REFINERY GAS, ZEECO, MODEL ZEECO, GLSF-9, WITH LOW NOX BURNER, 255 MMBTU/HR | D532 | S533 S534 D2915 | 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, C1.19, D90.4, D328.1, H23.1, K67.1 |
| STACK, HEIGHT: 40 FT ; DIAMETER: 7 FT<br>A/N: 453163 | S533 | D532 | | | |
| STACK, HEIGHT: 40 FT ; DIAMETER: 7 FT<br>A/N: 453163 | S534 | D532 | | | |

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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
(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
# BP WEST COAST PROD.LLC BP CARSON REF.

## 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 |
|---|---|---|---|---|---|
| **Process 6: CATALYTIC REFORMING** | | | | | |
| HEATER, NO.2 REFORMER, # 015, REFINERY GAS, ALCORN COMBUSTION COMPANY, WITH LOW NOX BURNER, 310 MMBTU/HR WITH<br>A/N: 453164<br><br>BURNER, 72 BURNERS, REFINERY GAS, JOHN ZINK, MODEL PSMR-12R(32 BURNERS), MODEL PSMR-15R(40 BURNERS), WITH LOW NOX BURNER, 310 MMBTU/HR | D535 | S536 S537 D2921 | 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, C1.20, D90.4, D328.1, H23.1, K67.1 |
| STACK<br>A/N: 453164 | S536 | D535 | | | |
| STACK<br>A/N: 453164 | S537 | D535 | | | |
| HEATER, NO.3 REFORMER, NO.016, REFINERY GAS, ALCORN COMBUSTION COMPANY, WITH LOW NOX BURNER, 171 MMBTU/HR WITH<br>A/N: 453165<br><br>BURNER, 40 BURNERS, REFINERY GAS, CALLIDUS, MODEL LE-CSG-4W, WITH LOW NOX BURNER, 171 MMBTU/HR | D1439 | D2923 | 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, D90.4, D328.1, H23.1, K67.1 |

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(5) (5A) (5B) Denotes command and control emission limit
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(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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# BP WEST COAST PROD.LLC BP CARSON REF.

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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|---|---|---|---|---|---|
| **Process 6: CATALYTIC REFORMING** | | | | | |
| HEATER, NO.2 A, PROCESS REFORMER, REFINERY GAS, FOSTER WHEELER, WITH LOW NOX BURNER, 39 MMBTU/HR WITH<br>A/N: 395668<br><br>BURNER, 5 BURNERS, REFINERY GAS, JOHN ZINK, MODEL PNDR-16, 39 MMBTU/HR | D538 | | 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**: 36 PPMV REFINERY 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**] | A63.28, B61.4, D12.3, D12.4, D29.3, D90.4, D328.1, H23.1 |
| HEATER, NO.1 REFORMER DESULFURIZER, REFINERY GAS, ALCORN COMBUSTION COMPANY, WITH LOW NOX BURNER, 52 MMBTU/HR WITH<br>A/N: 395673<br><br>BURNER, 12 BURNERS, REFINERY GAS, JOHN ZINK, MODEL PNDR 16/14, WITH LOW NOX BURNER, 52 MMBTU/HR | D539 | | 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**] | A63.27, B61.4, D29.3, D90.4, D328.1, H23.1, K67.1 |

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(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
# BP WEST COAST PROD.LLC BP CARSON REF.

## 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 |
|---|---|---|---|---|---|
| **Process 6: CATALYTIC REFORMING** | | | | | |
| HEATER, NO.2 REFORMER DESULFURIZER NO.2B, REFINERY GAS, FOSTER WHEELER, MODEL NO.1379, VERTICAL TUBE, WITH LOW NOX BURNER, 39 MMBTU/HR WITH<br>A/N: 395718<br><br>BURNER, 5 BURNERS, REFINERY GAS, JOHN ZINK, WITH LOW NOX BURNER, 39 MMBTU/HR | D541 | | 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**: 36 PPMV REFINERY 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**] | A63.28, B61.4, D29.3, D90.4, D328.1, H23.1, K67.1 |
| **Process 7: HYDROGEN PRODUCTION** | | | | | |
| **System 1: HYDROGEN PLANT** | | | | | S2.1, S13.2, S13.4, S46.1, S46.2, S56.1 |
| COLUMN, SATURATOR, RPV 3040, HEIGHT: 63 FT 6 IN; DIAMETER: 6 FT<br>A/N: 429513 | D542 | | | | |
| ABSORBER, CATACARB, RPV 3041, BOTTOM, HEIGHT: 133 FT ; DIAMETER: 10 FT 6 IN<br>A/N: 429513 | D543 | | | | |
| COLUMN, LEAN CATACARB REGENERATION, RPV 3042, HEIGHT: 68 FT ; DIAMETER: 6 FT 6 IN<br>A/N: 429513 | D544 | | | | |
| COLUMN, SEMI-LEAN CATACARB REGENERATOR, RPV 3043, HEIGHT: 89 FT ; DIAMETER: 12 FT 6 IN<br>A/N: 429513 | D545 | | | | |

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

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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|---|---|---|---|---|---|
| **Process 7: HYDROGEN PRODUCTION** | | | | | |
| COLUMN, RPV 3045, FEED GAS MEA, COMMON TO LIGHT ENDS DEPROPANIZER UNIT, HEIGHT: 55 FT ; DIAMETER: 3 FT<br>A/N: 429513 | D546 | | | | |
| FILTER, CATACARB, RPV 3047, LENGTH: 6 FT 10 IN; DIAMETER: 5 FT<br>A/N: 429513 | D547 | | | | |
| DRUM, RPV 3048, CATACARB REFLUX, HEIGHT: 8 FT 10 IN; DIAMETER: 6 FT<br>A/N: 429513 | D548 | | | | |
| KNOCK OUT POT, RPV 3049, PROCESS GAS COOLER, HEIGHT: 11 FT ; DIAMETER: 4 FT 6 IN<br>A/N: 429513 | D549 | | | | |
| KNOCK OUT POT, RPV 3050, SEMI-LEAN CATACARB REBOILER CONDENSATE, HEIGHT: 14 FT ; DIAMETER: 4 FT 6 IN<br>A/N: 429513 | D550 | | | | |
| KNOCK OUT POT, RPV 3051, LEAN CATACARB REBOILER CONDENSATE, LENGTH: 15 FT ; DIAMETER: 5 FT<br>A/N: 429513 | D551 | | | | |
| DRUM, RPV 3052, ZINC OXIDE, LENGTH: 13 FT 4 IN; DIAMETER: 6 FT<br>A/N: 429513 | D552 | | | | |

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

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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|---|---|---|---|---|---|
| **Process 7: HYDROGEN PRODUCTION** | | | | | |
| DRUM, RPV 3053, ZINC OXIDE, LENGTH: 13 FT 4 IN; DIAMETER: 6 FT<br>A/N: 429513 | D553 | | | | |
| REACTOR, HOT SHIFT CONVERTER, RPV 3055, LENGTH: 15 FT 10 IN; DIAMETER: 12 FT<br>A/N: 429513 | D554 | | | | |
| REACTOR, METHANATOR, RPV 3056, HEIGHT: 18 FT 3 IN; DIAMETER: 7 FT<br>A/N: 429513 | D555 | | | | |
| VESSEL, DEAERATOR, RPV 3071, HORIZONTAL SECTION, LENGTH: 6 FT ; DIAMETER: 6 FT<br>A/N: 429513 | D556 | | | | |
| VESSEL, DEAERATOR, RPV 3057, VERTICAL SECTION, LENGTH: 18 FT ; DIAMETER: 9 FT<br>A/N: 429513 | D557 | | | | |
| REACTOR, COLD SHIFT CONVERTER, RPV 3058, LENGTH: 9 FT 5 IN; DIAMETER: 13 FT 6 IN<br>A/N: 429513 | D558 | | | | |
| KNOCK OUT POT, RPV 3059, LOW PRESSURE STEAM GENERATOR CONDENSATE, LENGTH: 15 FT ; DIAMETER: 5 FT 6 IN<br>A/N: 429513 | D559 | | | | |
| KNOCK OUT POT, COMPRESSOR DISCHARGE, RPV 3062, FEED GAS, LENGTH: 10 FT ; DIAMETER: 3 FT<br>A/N: 429513 | D560 | | | | |

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## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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|---|---|---|---|---|---|
| **Process 7: HYDROGEN PRODUCTION** | | | | | |
| DRUM, KNOCK-OUT, RPV 3063, FEED GAS COMPRESSOR SUCTION, HEIGHT: 10 FT ; DIAMETER: 3 FT 6 IN<br>A/N: 429513 | D561 | | | | |
| KNOCK OUT POT, RPV 3064, CHEVIOT HILLS GAS, LENGTH: 9 FT 6 IN; DIAMETER: 3 FT 6 IN<br>A/N: 429513 | D562 | | | | |
| FILTER, RPV 5751, REFORMIND HEATER FUEL GAS, HEIGHT: 14 FT ; DIAMETER: 3 FT<br>A/N: 429513 | D563 | | | | |
| COMPRESSOR, RW 0028, FEED GAS, WORTHINGTON, RECIPROCATING TYPE, PACKED GLAND, SERIAL NO. L81808<br>A/N: 429513 | D564 | | | | E71.2 |
| COMPRESSOR, RW 0029 27.4, FEED GAS, WORTHINGTON, RECIPROCATING TYPE, PACKED GLAND, SERIAL NO. L81809<br>A/N: 429513 | D565 | | | | E71.2 |
| COMPRESSOR, RW 0030, FEED GAS, WORTHINGTON, RECIPROCATING WITH PACKED GLAND<br>A/N: 429513 | D566 | | | | E71.2 |
| REACTOR, COBALT- MOLY CATALYTIC, RPV 3099, HEIGHT: 20 FT ; DIAMETER: 7 FT 6 IN<br>A/N: 429513 | D567 | | | | |

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|---|---|---|---|---|---|
| **Process 7: HYDROGEN PRODUCTION** | | | | | |
| KNOCK OUT POT, CO2 CONDENSER, RPV 5252, HEIGHT: 8 FT ; DIAMETER: 5 FT<br>A/N: 429513 | D568 | | | | |
| TANK, SURGE, TK NO. 0922, CATACARB, HEIGHT: 20 FT ; DIAMETER: 25 FT<br>A/N: 429513 | D569 | | | **HAP**: (10) [**40CFR 63 Subpart CC, #2, 6-23-2003**] | |
| FUGITIVE EMISSIONS, MISCELLANEOUS<br>A/N: 429513 | D2492 | | | | H23.3 |
| **System 2: HYDROGEN PRODUCTION NO.2 PLANT( KTI SYSTEM)** | | | | | S2.1, S13.2, S13.4, S46.1, S46.2, S56.1 |
| COMPRESSOR, RW 0052, FEED GAS, MECHANICAL SEAL, OIL FILLED,W/BUFFER GAS<br>A/N: | D1443 | | | | |
| TANK, SURGE, RW 6123, PENTANE, LENGTH: 14 FT ; DIAMETER: 4 FT<br>A/N: | D1444 | | | | |
| REACTOR, COMO, RW 6158, LENGTH: 14 FT ; DIAMETER: 5 FT<br>A/N: | D1446 | | | | |
| REACTOR, CHLORIDE/SULFUR GUARD, RW 6159, LENGTH: 28 FT ; DIAMETER: 8 FT<br>A/N: | D1447 | | | | |
| REACTOR, CHLORIDE/SULFUR GUARD, RW 6160, LENGTH: 28 FT ; DIAMETER: 8 FT<br>A/N: | D1448 | | | | |

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|---|---|---|---|---|---|
| **Process 7: HYDROGEN PRODUCTION** | | | | | |
| REACTOR, HIGH TEMPERATURE SHIFT, RW 6161, LENGTH: 14 FT ; DIAMETER: 9 FT<br>A/N: | D1449 | | | | |
| KNOCK OUT POT, RW 6114, HOT CONDENSATE, LENGTH: 9 FT 6 IN; DIAMETER: 5 FT<br>A/N: | D1450 | | | | |
| KNOCK OUT POT, RW 6115, COLD CONDENSATE, LENGTH: 12 FT ; DIAMETER: 4 FT<br>A/N: | D1451 | | | | |
| VESSEL, RW 6122, DEAERATOR, PROCESS CONDENSATE, LENGTH: 7 FT 4 IN; DIAMETER: 8 FT<br>A/N: | D1452 | | | | |
| DRUM, RW 6119, FLARE CONDENSATE, LENGTH: 9 FT ; DIAMETER: 3 FT 6 IN<br>A/N: | D1453 | | | | |
| ADSORBER, PRESSURE SWING, RW 6145, HEIGHT: 21 FT ; DIAMETER: 8 FT 6 IN<br>A/N: | D1455 | | | | |
| ADSORBER, PRESSURE SWING, RW 6146, HEIGHT: 21 FT ; DIAMETER: 8 FT 6 IN<br>A/N: | D1456 | | | | |
| ADSORBER, PRESSURE SWING, RW 6147, HEIGHT: 21 FT ; DIAMETER: 8 FT 6 IN<br>A/N: | D1457 | | | | |

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(8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
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|---|---|---|---|---|---|
| **Process 7: HYDROGEN PRODUCTION** | | | | | |
| ADSORBER, PRESSURE SWING, RW 6148, HEIGHT: 21 FT ; DIAMETER: 8 FT 6 IN<br>A/N: | D1458 | | | | |
| ADSORBER, PRESSURE SWING, RW 6149, HEIGHT: 21 FT ; DIAMETER: 8 FT 6 IN<br>A/N: | D1459 | | | | |
| ADSORBER, PRESSURE SWING, RW 6150, HEIGHT: 21 FT ; DIAMETER: 8 FT 6 IN<br>A/N: | D1460 | | | | |
| ADSORBER, PRESSURE SWING, RW 6151, HEIGHT: 21 FT ; DIAMETER: 8 FT 6 IN<br>A/N: | D1461 | | | | |
| ADSORBER, PRESSURE SWING, RW 6152, HEIGHT: 21 FT ; DIAMETER: 8 FT 6 IN<br>A/N: | D1462 | | | | |
| DRUM, RW 6118, PSA TAIL GAS, LENGTH: 80 FT ; DIAMETER: 12 FT<br>A/N: | D1463 | | | | |
| FILTER, RW 6153, FUEL GAS, BASKET TYPE<br>A/N: | D1464 | | | | |
| FILTER, RW 6245, PRODUCT HYDROGEN, BASKET TYPE<br>A/N: | D2049 | | | | |
| DRUM, SILENCER, RW 0006, PSA PURGE GAS, LENGTH: 5 FT ; DIAMETER: 5 FT 6 IN<br>A/N: | D2055 | | | | |

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(5) (5A) (5B) Denotes command and control emission limit
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(7) Denotes NSR applicability limit
(8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
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|---|---|---|---|---|---|
| **Process 7: HYDROGEN PRODUCTION** | | | | | |
| FUGITIVE EMISSIONS, MISCELLANEOUS<br>A/N: | D2493 | | | **HAP**: (10) [**40CFR 63 Subpart CC, #5A, 6-23-2003**] | H23.3 |
| **System 3: HYDROGEN PRODUCTION UNIT HEATERS** | | | | | |
| HEATER, HYDROGEN PLANT, PRIMARY REFORMER, NATURAL GAS, REFINERY GAS, STOCKER AND SO. CAL NATURAL GAS, UP-FIRED NATURAL DRAFT BOX TYPE, WITH LOW NOX BURNER, 650 MMBTU/HR WITH<br>A/N: 396047<br><br>BURNER, 144 BURNERS, REFINERY GAS, JOHN ZINK, MODEL GO-33-40, WITH LOW NOX BURNER, 650 MMBTU/HR | D570 | C571 | 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, D90.4, D328.1, H23.1 |

* (1) (1A) (1B) Denotes RECLAIM emission factor
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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.)
(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
# BP WEST COAST PROD.LLC BP CARSON REF.

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

| Equipment | ID No. | Connected To | RECLAIM Source Type/ Monitoring Unit | Emissions * And Requirements | Conditions |
|---|---|---|---|---|---|
| **Process 7: HYDROGEN PRODUCTION** | | | | | |
| HEATER, RW 0054, HYDROGEN REFORMING, NATURAL GAS, PSA GAS, WITH LOW NOX BURNER, 427 MMBTU/HR WITH<br>A/N: 498084<br><br>BURNER, WITH 55 BURNERS, NATURAL GAS, PSA GAS, JOHN ZINK, MODEL PSFG-30 & PSFFG-60, WITH LOW NOX BURNER, 427 MMBTU/HR | D1465 | C1466 | NOX: MAJOR SOURCE**; SOX: PROCESS UNIT** | **CO**: 8.56 LBS/HR NATURAL GAS (4) ; **CO**: 25 PPMV NATURAL GAS (4) ; **CO**: 2000 PPMV (5) [**RULE 407, 4-2-1982**]; **NOX**: 6.75 LBS/HR NATURAL GAS (4) [**RULE 2005, 4-20-2001; RULE 2005, 5-6-2005**]; **NOX**: 12 PPMV NATURAL GAS (4) [**RULE 2005, 4-20-2001; RULE 2005, 5-6-2005**]; **PM**: (9) [**RULE 404, 2-7-1986**]; **PM**: 0.1 GRAINS/SCF (5) [**RULE 409, 8-7-1981**]; **PM10**: 8.54 LBS/HR NATURAL GAS (4) [**RULE 1303(b)(2)-Offset, 5-10-1996**]; **ROG**: 2.85 LBS/HR NATURAL GAS (4) [**RULE 1303(b)(2) -Offset, 5-10-1996**] | A63.33, B61.4, C1.24, C8.1, D12.12, D12.13, D29.3, D328.1, E71.7, E74.1, E175.1, E193.1, H23.1 |
| **System 4: SELECTIVE CATALYTIC CONTROL SYSTEM** | | | | | |
| SELECTIVE CATALYTIC REDUCTION, USING IHI HONEYCOMB TYPE CATALYST, 1152 CU.FT.; WIDTH: 7 FT ; HEIGHT: 11 FT ; LENGTH: 57 FT<br>A/N: | C571 | D570 S573 S574 S575 | | | E57.1 |
| AMMONIA INJECTION<br>A/N: | D572 | | | | |

* (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
# BP WEST COAST PROD.LLC BP CARSON REF.

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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|---|---|---|---|---|---|
| **Process 7: HYDROGEN PRODUCTION** | | | | | |
| STACK<br>A/N: | S573 | C571 | | | |
| STACK<br>A/N: | S574 | C571 | | | |
| STACK<br>A/N: | S575 | C571 | | | |
| SELECTIVE CATALYTIC REDUCTION, 369 CU.FT.; WIDTH: 8 FT 1.5 IN; HEIGHT: 9 FT 4 IN; LENGTH: 35 FT .5 IN<br>A/N: 395576 | C1466 | D1465 S1468 | | **NH3**: 20 PPMV (4) [**RULE 1303(a)(1)-BACT, 5-10-1996**] | D12.14, D28.4, E71.8 |
| AMMONIA INJECTION, WITH AMMONIA MIXER AND TWO BLOWERS, EACH WITH A 5 HP MOTOR<br>A/N: 395576 | D1467 | | | | |
| STACK, WITH A 520 HP BLOWER, HEIGHT: 150 FT ; DIAMETER: 7 FT 11 IN<br>A/N: 395576 | S1468 | C1466 | | | |
| **Process 8: HYDROCRACKING** | | | | | |
| **System 1: HYDROCRACKER UNIT(REACTION SECTION)** | | | | | S13.2, S31.9, S56.1 |
| REACTOR, FIRST STAGE, RPV 3500, R-1<br>A/N: | D576 | | | | |
| REACTOR, FIRST STAGE, RPV 3501, R-2<br>A/N: | D577 | | | | |
| REACTOR, FIRST STAGE, RPV 3502, R-3<br>A/N: | D578 | | | | |

* (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
# BP WEST COAST PROD.LLC BP CARSON REF.

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

| Equipment | ID No. | Connected To | RECLAIM Source Type/ Monitoring Unit | Emissions * And Requirements | Conditions |
|---|---|---|---|---|---|
| **Process 8: HYDROCRACKING** | | | | | |
| REACTOR, SECOND STAGE, RPV 3503, R-4<br>A/N: | D579 | | | | |
| VESSEL, SEPARATOR, HIGH PRESSURE, RPV 3511<br>A/N: | D581 | | | | |
| VESSEL, COALESCER, RPV 3512, HPS WATER COALESCER<br>A/N: | D582 | | | | |
| VESSEL, SEPARATOR, LOW PRESSURE, RPV 3513, HEIGHT: 44 FT ; DIAMETER: 10 FT<br>A/N: | D583 | | | | |
| TANK, SURGE, RPV-5631, FEED, HEIGHT: 40 FT ; DIAMETER: 10 FT<br>A/N: | D584 | | | | |
| KNOCK OUT POT, EAST FUEL GAS, RPV 3211, HEIGHT: 7 FT 9 IN; DIAMETER: 5 FT<br>A/N: | D593 | | | | |
| KNOCK OUT POT, SEPARATOR, EAST, INSTRUMENT AIR, RPV 3636, HEIGHT: 1 FT 8 IN; DIAMETER: 1 FT 2 IN<br>A/N: | D594 | | | | |
| TANK, FLASH, RPV 5649, SOUR WATER, HEIGHT: 5 FT 9 IN; DIAMETER: 2 FT 6 IN<br>A/N: | D595 | | | | |
| FILTER, RPV 5752, FRACTIONATOR/JET FUEL, HEIGHT: 12 FT ; DIAMETER: 24 FT<br>A/N: | D596 | | | | |

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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
(10) See section J for NESHAP/MACT requirements

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

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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|---|---|---|---|---|---|
| **Process 8: HYDROCRACKING** | | | | | |
| FILTER, REACTOR HEATER FUEL GAS, RPV-5753, HEIGHT: 10 FT ; DIAMETER: 2 FT<br>A/N: | D597 | | | | |
| DRUM, KNOCK OUT, MAKE UP COMPRESSOR, WITH NITROGEN BLANKET, HEIGHT: 6 FT ; DIAMETER: 1 FT<br>A/N: | D598 | | | | |
| TANK, SURGE, NO. 913, RECYCLE SURGE, 3750 BBL; DIAMETER: 30 FT ; HEIGHT: 30 FT<br>A/N: | D599 | | | **HAP**: (10) [**40CFR 63 Subpart CC, #2, 6-23-2003**] | |
| TANK, NORTH MAKE UP COMPRESSOR OIL RESERVOIR, WITH NITROGEN BLANKET, 60 GALS; DIAMETER: 1 FT 8 IN; HEIGHT: 4 FT<br>A/N: | D600 | | | | |
| TANK, SOUTH MAKE UP COMPRESSOR RESEVOIR, WITH NITROGEN BLANKET, 600 GALS; DIAMETER: 2 FT 6 IN; HEIGHT: 16 FT<br>A/N: | D601 | | | | |
| COMPRESSOR, RW 10 087.6 RECYCLE GAS, CENTRIFUGAL, CLARK MODEL 2 BA<br>A/N: | D602 | | | | |
| COMPRESSOR, RW 20 087.32, NO. 1, MAKE-UP GAS, RECIPROCATING TYPE, WORTHINGTON 4 STAGE NO. L-81794 B, MODEL BDO-4<br>A/N: | D603 | | | | |

* (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
# BP WEST COAST PROD.LLC BP CARSON REF.

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

* (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
# BP WEST COAST PROD.LLC BP CARSON REF.

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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|---|---|---|---|---|---|
| **Process 8: HYDROCRACKING** | | | | | |
| COLUMN, TREATER, RPV 3604, LIQUID AMINE, HEIGHT: 27 FT ; DIAMETER: 7 FT<br>A/N: | D611 | | | | |
| SCRUBBER, RPV 3605, LP MDEA, HEIGHT: 52 FT ; DIAMETER: 3 FT<br>A/N: | D612 | | | | |
| SCRUBBER, RPV 3606, AMINE, HEIGHT: 66 FT 6 IN; DIAMETER: 3 FT<br>A/N: | D613 | | | | |
| ACCUMULATOR, RPV 3610, DEBUTANIZER OVERHEAD, LENGTH: 22 FT ; DIAMETER: 7 FT<br>A/N: | D614 | | | | |
| ACCUMULATOR, RPV 3611, FRACTIONATOR OVERHEAD, LENGTH: 21 FT ; DIAMETER: 7 FT<br>A/N: | D615 | | | | |
| ACCUMULATOR, RPV 3612, FRACTIONATOR HOT REFLUX, LENGTH: 32 FT ; DIAMETER: 8 FT<br>A/N: | D616 | | | | |
| SETTLING TANK, RPV 3614, AMINE, LENGTH: 24 FT ; DIAMETER: 6 FT 6 IN<br>A/N: | D617 | | | | |
| KNOCK OUT POT, RPV 3617, OVERHEAD GAS, HEIGHT: 10 FT 6 IN; DIAMETER: 3 FT<br>A/N: | D619 | | | | |

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

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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|---|---|---|---|---|---|
| **Process 8: HYDROCRACKING** | | | | | |
| COMPRESSOR, RW 22 087.32, NO. 3, FRACTIONATOR OVERHEAD GAS, UNIT L-83247<br>A/N: | D622 | | | | |
| COMPRESSOR, RW 23 087.32, NO. 2, FRACTIONATOR OVERHEAD GAS, UNIT L-83248<br>A/N: | D623 | | | | |
| COMPRESSOR, RW 24 087.32 NO. 1, FRACTIONATOR OVERHEAD GAS, UNIT L-83249<br>A/N: | D624 | | | | |
| TOWER, STRIPPER, RPV 6233, DISTILLATE HYDROCRACKATE, HEIGHT: 52 FT 9 IN; DIAMETER: 7 FT<br>A/N: | D2070 | | | | |
| FUGITIVE EMISSIONS, MISCELLANEOUS<br>A/N: | D2495 | | | **HAP**: (10) [**40CFR 63 Subpart CC, #5A, 6-23-2003**] | H23.3 |
| **System 3: HYDROCRACKING UNIT HEATERS** | | | | | |

* (1) (1A) (1B) Denotes RECLAIM emission factor
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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.)
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# FACILITY PERMIT TO OPERATE
# BP WEST COAST PROD.LLC BP CARSON REF.

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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|---|---|---|---|---|---|
| **Process 8: HYDROCRACKING** | | | | | |
| HEATER, NO.R1, RECYCLE GAS, REFINERY GAS, WITH LOW NOX BURNER, 39 MMBTU/HR WITH A/N: 395671<br><br>BURNER, FOUR(4) BURNERS, REFINERY GAS, JOHN ZINK, MODEL NO.PNDR-20, WITH LOW NOX BURNER, 39 MMBTU/HR | D625 | | 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**: 36 PPMV REFINERY 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**] | A63.28, B61.4, D12.7, D29.3, D90.4, D328.1, H23.1 |
| HEATER, NO.R4, RECYCLE GAS, REFINERY GAS, WITH LOW NOX BURNER, 39 MMBTU/HR WITH A/N:<br><br>BURNER, THREE(3) BURNERS, REFINERY GAS, JOHN ZINK, MODEL PNDR-16, WITH LOW NOX BURNER, 39 MMBTU/HR | D626 | | 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**: 36 PPMV REFINERY 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, C1.48, D12.7, D90.4, D328.1, H23.1 |

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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
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## 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 |
|---|---|---|---|---|---|
| **Process 8: HYDROCRACKING** | | | | | |
| HEATER, NO.R2 RECYCLE GAS, REFINERY GAS, WITH LOW NOX BURNER, 39 MMBTU/HR WITH A/N: 395669<br><br>BURNER, FOUR(4) BURNERS, REFINERY GAS, JOHN ZINK, MODEL NO. PNDR-18, WITH LOW NOX BURNER, 39 MMBTU/HR | D627 | | 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**: 36 PPMV REFINERY 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**] | A63.28, B61.4, D12.7, D29.3, D90.4, D328.1, H23.1 |
| HEATER, NO.R3 RECYCLE GAS, REFINERY GAS, WITH LOW NOX BURNER, 39 MMBTU/HR WITH A/N: 395672<br><br>BURNER, THREE(3)BURNERS, REFINERY GAS, JOHN ZINK, MODEL NO.PNDR-16, WITH LOW NOX BURNER, 39 MMBTU/HR | D628 | | 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**: 36 PPMV REFINERY 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**] | A63.28, B61.4, D12.7, D29.3, D90.4, D328.1, 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.)
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# FACILITY PERMIT TO OPERATE
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## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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|---|---|---|---|---|---|
| **Process 8: HYDROCRACKING** | | | | | |
| HEATER, REBOILER NO.017, HYDROCRACKER FRACTIONATOR, REFINERY GAS, BORN ENGINEERING COMPANY, MODEL VERTICAL TYPE, WITH LOW NOX BURNER, 173 MMBTU/HR WITH A/N: 396048<br><br>BURNER, TWELVE(12) BURNERS, REFINERY GAS, JOHN ZINK, MODEL PSMR-18RM, WITH LOW NOX BURNER, 173 MMBTU/HR | D629 | | 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**] | A63.14, B61.4, D29.3, D90.4, D328.1, H23.1, K40.3, K67.2 |
| **Process 9: ALKYLATION AND POLYMERIZATION** | | | | | |
| **System 1: C4 ALKYLATION UNIT** | | | | | S13.2, S15.31, S31.1, S46.1, S46.2, S56.1 |
| TANK, SETTLING,RPV-5299, ACID, HEIGHT: 70 FT ; DIAMETER: 15 FT A/N: | D1479 | | | | |
| TANK, SETTLING, RPV-5300, ACID, HEIGHT: 70 FT ; DIAMETER: 15 FT A/N: | D1480 | | | | |
| TANK, SETTLING, RPV-5301, ACID, HEIGHT: 70 FT ; DIAMETER: 15 FT A/N: | D1481 | | | | |
| DRUM, SUCTION TRAP/FLASH, RPV 5303, HEIGHT: 56 FT ; DIAMETER: 16 FT A/N: | D1482 | | | | |

* (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
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# FACILITY PERMIT TO OPERATE
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## 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 |
|---|---|---|---|---|---|
| **Process 9: ALKYLATION AND POLYMERIZATION** | | | | | |
| ACCUMULATOR, RPV-5313, REFRIGERANT, HEIGHT: 16 FT 6 IN; DIAMETER: 5 FT 6 IN<br>A/N: | D1483 | | | | |
| VESSEL, SEPARATOR, REFRIGERANT, RPV-5308,, HEIGHT: 27 FT ; DIAMETER: 9 FT<br>A/N: | D1484 | | | | |
| VESSEL, COALESCER, RPV-5290, FEED, HEIGHT: 4 FT 4 IN; DIAMETER: 4 FT 6 IN<br>A/N: | D1485 | | | | |
| TANK, WASH, RPV-5316, ACID, HEIGHT: 49 FT 6 IN; DIAMETER: 16 FT<br>A/N: | D1486 | | | | |
| TANK, WASH, RPV-5317, ALKALINE WATER, LENGTH: 45 FT ; DIAMETER: 15 FT<br>A/N: | D1487 | | | | |
| VESSEL, ECONOMIZER, RPV 5310, HEIGHT: 26 FT 6 IN; DIAMETER: 8 FT 6 IN<br>A/N: | D1488 | | | | |
| ACCUMULATOR, RPV-5325, DEISOBUTANIZER OVERHEAD, LENGTH: 42 FT ; DIAMETER: 14 FT<br>A/N: | D1489 | | | | |
| TANK, WASH, RPV-5314, ALKY, DEPROPANIZER CAUSTIC, LENGTH: 25 FT 6 IN; DIAMETER: 8 FT 6 IN<br>A/N: | D1490 | | | | |

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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
# BP WEST COAST PROD.LLC BP CARSON REF.

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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|---|---|---|---|---|---|
| **Process 9: ALKYLATION AND POLYMERIZATION** | | | | | |
| VESSEL, COALESCER, RPV-5315, DEPROPANIZER FEED, LENGTH: 10 FT ; DIAMETER: 1 FT 10 IN<br>A/N: | D1491 | | | | |
| DRUM, K.O., RPV-5340, ACID, HEIGHT: 3 FT ; DIAMETER: 2 FT<br>A/N: | D1492 | | | | |
| STORAGE TANK, FIXED ROOF, RPV-5380,, FRESH ACID, LENGTH: 50 FT ; DIAMETER: 13 FT<br>A/N: | D1493 | | | | |
| STORAGE TANK, FIXED ROOF, RPV-5381, FRESH ACID, LENGTH: 50 FT ; DIAMETER: 13 FT<br>A/N: | D1494 | | | | |
| TOWER, DEISOBUTANIZER, RPV 5318, HEIGHT: 162 FT 6 IN; DIAMETER: 12 FT 6 IN<br>A/N: | D1495 | | | | |
| REACTOR, CONTACTOR STRATCO, RPV 5291, WITH A 500 H.P. AGITATOR<br>A/N: | D1496 | | | | |
| REACTOR, CONTACTOR STRATCO, RPV 5292, WITH A 500 H.P. AGITATOR<br>A/N: | D1497 | | | | |
| REACTOR, CONTACTOR STRATCO, RPV 5293, WITH A 500 H.P. AGITATOR<br>A/N: | D1498 | | | | |

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(2) (2A) (2B) Denotes RECLAIM emission rate
(3) Denotes RECLAIM concentration limit
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(5) (5A) (5B) Denotes command and control emission limit
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# BP WEST COAST PROD.LLC BP CARSON REF.

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| **Process 9: ALKYLATION AND POLYMERIZATION** | | | | | |
| REACTOR, CONTACTOR STRATCO, RPV 5294, WITH A 500 H.P. AGITATOR<br>A/N: | D1499 | | | | |
| REACTOR, CONTACTOR STRATCO, RPV 5295, WITH A 500 H.P. AGITATOR<br>A/N: | D1500 | | | | |
| REACTOR, CONTACTOR STRATCO, RPV 5296, WITH A 500 H.P. AGITATOR<br>A/N: | D1501 | | | | |
| COMPRESSOR, RW 47 087.05, REFRIGERATION (EFFLUENT), CENTRIFUGAL MULTI-STAGE<br>A/N: | D1502 | | | | |
| VESSEL, COALESCER, SAND FILTER, RPV 5285<br>A/N: | D1520 | | | | |
| TOWER, RW 5965, C5 SIDESTRIPPER FOR DEBUTANIZER, HEIGHT: 32 FT ; DIAMETER: 4 FT<br>A/N: | D1522 | | | | |
| TOWER, ALKY DEP, RPV 842, HEIGHT: 85 FT 2 IN; DIAMETER: 4 FT 6 IN<br>A/N: | D631 | | | | |
| TOWER, ALKY DEB, RPV-843, NO. 1A, HEIGHT: 121 FT 1 IN; DIAMETER: 8 FT<br>A/N: | D632 | | | | |

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(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
# BP WEST COAST PROD.LLC BP CARSON REF.

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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|---|---|---|---|---|---|
| **Process 9: ALKYLATION AND POLYMERIZATION** | | | | | |
| COLUMN, DEISOBUTANIZER, RPV 875, NO.1B, HEIGHT: 120 FT ; DIAMETER: 5 FT A/N: | D634 | | | | |
| TANK, SURGE, RPV 0211, NAPHTHA, HEIGHT: 8 FT ; DIAMETER: 3 FT 5 IN A/N: | D635 | | | | |
| TOWER, COKER DEPROP, RPV 951, HEIGHT: 75 FT 8 IN; DIAMETER: 4 FT A/N: | D638 | | | | |
| TANK, EMERGENCY ALKYLATION, RPV 830, HEIGHT: 32 FT ; DIAMETER: 10 FT A/N: | D639 | | | | |
| TANK, EMERGENCY ALKYLATION, RPV 831, HEIGHT: 32 FT ; DIAMETER: 10 FT A/N: | D640 | | | | |
| TANK, EMERGENCY ALKYLATION, RPV 832, HEIGHT: 32 FT ; DIAMETER: 10 FT A/N: | D641 | | | | |
| TANK, EMERGENCY ALKYLATION, RPV 834, HEIGHT: 36 FT ; DIAMETER: 8 FT A/N: | D642 | | | | |
| TANK, EMERGENCY ALKYLATION , RPV 835, HEIGHT: 36 FT ; DIAMETER: 8 FT A/N: | D643 | | | | |

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

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|---|---|---|---|---|---|
| **Process 9: ALKYLATION AND POLYMERIZATION** | | | | | |
| TANK, EMERGENCY ALKYLATION , RPV 836, HEIGHT: 36 FT ; DIAMETER: 8 FT A/N: | D644 | | | | |
| TANK, EMERGENCY ALKYLATION , RPV 837, HEIGHT: 36 FT ; DIAMETER: 8 FT A/N: | D645 | | | | |
| ACCUMULATOR, RPV 847, NO. 1A, ALKYLATION DEBUT OVERHEAD, LENGTH: 20 FT ; DIAMETER: 5 FT A/N: | D646 | | | | |
| DRUM, SPENT CAUSTIC DEGASSING , RPV 859, LENGTH: 20 FT ; DIAMETER: 5 FT A/N: | D647 | | | | |
| DRUM, DEGASSING, RPV 0884, PROCESS WASTE WATER, HEIGHT: 10 FT ; DIAMETER: 5 FT A/N: | D648 | | | | |
| DRUM, ACID BLOWDOWN NEUTRALIZING, RPV 972, HEIGHT: 10 FT ; DIAMETER: 8 FT A/N: | D649 | | | | |
| TANK, SURGE, RPV 890, ISOBUTANE FEED, HEIGHT: 40 FT ; DIAMETER: 12 FT 11 IN A/N: | D650 | | | | |
| DRUM, ACID RELIEF BLOWDOWN, RPV 892, LENGTH: 40 FT ; DIAMETER: 13 FT A/N: | D651 | | | | |

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## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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|---|---|---|---|---|---|
| **Process 9: ALKYLATION AND POLYMERIZATION** | | | | | |
| DRUM, DEGASSING, RPV-985, MEROX W/W WATER, LENGTH: 13 FT 6 IN; DIAMETER: 8 FT<br>A/N: | D652 | | | | |
| DRUM, RPV-966, SPENT ACID, LENGTH: 39 FT 6 IN; DIAMETER: 13 FT<br>A/N: | D659 | | | | |
| DRUM, RPV-967, SPENT ACID, LENGTH: 39 FT 6 IN; DIAMETER: 13 FT<br>A/N: | D660 | | | | |
| STORAGE TANK, RPV-969, NO.2 ALKYLATION ACID, LENGTH: 44 FT ; DIAMETER: 12 FT<br>A/N: | D661 | | | | |
| STORAGE TANK, RPV-970, NO. A-371, NO.2 ALKYLATION ACID, LENGTH: 44 FT ; DIAMETER: 12 FT<br>A/N: | D662 | | | | |
| DRUM, BLOWDOWN, RPV 971, MTBE/MEROX HYDROCARBON, HEIGHT: 9 FT 8 IN; DIAMETER: 8 FT<br>A/N: | D663 | | | **BENZENE**: (10) [**40CFR 61 Subpart FF, #2, 12-4-2003**];<br>**VOC**: 500 PPMV (8) [**40CFR 61 Subpart FF, 12-4-2003**] | H23.12 |
| TOWER, OXIDIZER, RPV 994, MEROX SOLUTION, HEIGHT: 30 FT ; DIAMETER: 3 FT<br>A/N: | D665 | | | | |
| POT, RPV 5385, MEROX CATALYST ADDITION, HEIGHT: 4 FT ; DIAMETER: 1 FT<br>A/N: | D666 | | | | |

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(3) Denotes RECLAIM concentration limit
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(5) (5A) (5B) Denotes command and control emission limit
(6) Denotes air toxic control rule limit
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## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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|---|---|---|---|---|---|
| **Process 9: ALKYLATION AND POLYMERIZATION** | | | | | |
| DRUM, BLOWDOWN, RPV 891, ACID, LENGTH: 40 FT ; DIAMETER: 13 FT<br>A/N: | D667 | | | | |
| DRUM, BLOWDOWN, RPV 989, ALKY HYDROCARBON, HEIGHT: 16 FT 9 IN; DIAMETER: 8 FT 1 IN<br>A/N: | D668 | | | **BENZENE**: (10) [**40CFR 61 Subpart FF, #2, 12-4-2003**];<br>**VOC**: 500 PPMV (8) [**40CFR 61 Subpart FF, 12-4-2003**] | H23.12 |
| KNOCK OUT POT, RPV 2244, DRIP, SOUR GAS, HEIGHT: 6 FT 6 IN; DIAMETER: 6 IN<br>A/N: | D669 | | | | |
| ACCUMULATOR, RPV 5494, NO. 1, ALKYLATION DEBUT OVERHEAD, LENGTH: 12 FT ; DIAMETER: 4 FT<br>A/N: | D670 | | | | |
| DRUM, RPV 5302, ATMOSPHERIC FLASH, HEIGHT: 11 FT 8 IN; DIAMETER: 6 FT 6 IN<br>A/N: | D1527 | | | | |
| KNOCK OUT POT, RPV 5339, DEPROPANIZER OVERHEAD WATER, HEIGHT: 5 FT ; DIAMETER: 2 FT<br>A/N: | D1528 | | | | |
| TANK, SURGE, RPV 5350, #314 , COKER DEPROPANIZER FEED, HEIGHT: 30 FT ; DIAMETER: 8 FT<br>A/N: | D1529 | | | | |
| KNOCK OUT POT, RPV 5377, COKER DEPROPANIZER, HEIGHT: 11 FT 8 IN; DIAMETER: 6 FT 6 IN<br>A/N: | D1531 | | | | |

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# FACILITY PERMIT TO OPERATE
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## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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| **Process 9: ALKYLATION AND POLYMERIZATION** | | | | | |
| TOWER, RPV 5551, WATER KNOCKOUT DRUM, HEIGHT: 17 FT 9 IN; DIAMETER: 6 FT A/N: | D1532 | | | | |
| KNOCK OUT POT, RPV 5609, C4/ OLEFIN FEED WATER(TK 314), HEIGHT: 4 FT ; DIAMETER: 1 FT A/N: | D1533 | | | | |
| KNOCK OUT POT, RPV 5611, C4/OLEFIN FEED WATER(TK311), HEIGHT: 4 FT ; DIAMETER: 1 FT A/N: | D1535 | | | | |
| KNOCK OUT POT, RPV 5612, IC4/OLEFIN FEED WATER(TK330) A/N: | D1536 | | | | |
| KNOCK OUT POT, RPV 5614, DEPROPANIZER FEED WATER(TK314), HEIGHT: 3 FT ; DIAMETER: 1 FT A/N: | D1538 | | | | |
| VESSEL, SEPARATOR, RPV 5336, HYDROCARBON/CONDENSATE, HEIGHT: 6 FT 8 IN; DIAMETER: 7 FT 6 IN A/N: | D2019 | | | | |
| ACCUMULATOR, RPV 956, SOLVENT RERUN TOWER OVERHEAD, LENGTH: 20 FT ; DIAMETER: 5 FT A/N: | D2044 | | | | |

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|---|---|---|---|---|---|
| **Process 9: ALKYLATION AND POLYMERIZATION** | | | | | |
| REACTOR, CONTACTOR STRATCO 4A, RW 6366, WITH A 500 H.P. AGITATOR<br>A/N: | D2146 | | | | |
| REACTOR, CONTACTOR STRATCO 4B, RW 6367, WITH A 500 H.P. AGITATOR<br>A/N: | D2147 | | | | |
| TANK, SETTLING, RW-6368, ACID, HEIGHT: 70 FT ; DIAMETER: 15 FT<br>A/N: | D2148 | | | | |
| TOWER, RPV-5351, WATER WASH, BY ADDING NEW TRAYS, HEIGHT: 74 FT ; DIAMETER: 7 FT<br>A/N: | D1517 | | | | |
| TOWER, EXTRACTOR, RPV-5284, BY ADDING NEW TRAYS, HEIGHT: 33 FT ; DIAMETER: 7 FT<br>A/N: | D1521 | | | | |
| DRUM, WASH NAPHTHA SETTLER, RW 0059, HEIGHT: 10 FT ; DIAMETER: 7 FT<br>A/N: | D2369 | | | | |
| VESSEL, COALESCER, RW 6430, MIXED C4 FEED, HEIGHT: 4 FT 4 IN; DIAMETER: 2 FT 8 IN<br>A/N: | D2370 | | | | |
| DRUM, CAUSTIC PREWASH, RW 6424, HEIGHT: 20 FT ; DIAMETER: 11 FT<br>A/N: | D2371 | | | | |

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| **Process 9: ALKYLATION AND POLYMERIZATION** | | | | | |
| VESSEL, DISULFIDE SEPARATOR, RW 6425, LENGTH: 24 FT ; DIAMETER: 6 FT 6 IN<br>A/N: | D2372 | | | **HAP**: (10) [**40CFR 63 Subpart CC, #2, 6-23-2003**] | |
| FILTER, DISULFIDE SAND, RW-6426, HEIGHT: 7 FT ; DIAMETER: 2 FT<br>A/N: | D2373 | | | | |
| FUGITIVE EMISSIONS, MISCELLANEOUS<br>A/N: | D2496 | | | **HAP**: (10) [**40CFR 63 Subpart CC, #5A, 6-23-2003**] | H23.3 |
| **System 2: CATALYTIC POLYMERIZATION UNIT** | | | | | S13.2, S31.3, S56.1 |
| VESSEL, POLY FEED BULLET , RPV 2464, LENGTH: 32 FT ; DIAMETER: 9 FT<br>A/N: | D671 | | | | |
| REACTOR, POLY, RPV 5269, HEIGHT: 33 FT 7 IN; DIAMETER: 4 FT 10 IN<br>A/N: | D672 | | | | |
| REACTOR, POLY, RPV 5270, HEIGHT: 33 FT 7 IN; DIAMETER: 4 FT 10 IN<br>A/N: | D673 | | | | |
| REACTOR, POLY, RPV 5271, HEIGHT: 33 FT 7 IN; DIAMETER: 4 FT 10 IN<br>A/N: | D674 | | | | |
| REACTOR, POLY, RPV 5272, HEIGHT: 33 FT 7 IN; DIAMETER: 4 FT 10 IN<br>A/N: | D675 | | | | |
| REACTOR, POLY, RPV 5273, HEIGHT: 33 FT 7 IN; DIAMETER: 4 FT 10 IN<br>A/N: | D676 | | | | |

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|---|---|---|---|---|---|
| **Process 9: ALKYLATION AND POLYMERIZATION** | | | | | |
| REACTOR, POLY, RPV 5274, HEIGHT: 33 FT 7 IN; DIAMETER: 4 FT 10 IN A/N: | D677 | | | | |
| REACTOR, POLY, RPV 5275, HEIGHT: 33 FT 7 IN; DIAMETER: 4 FT 10 IN A/N: | D678 | | | | |
| REACTOR, POLY, RPV 5276, HEIGHT: 33 FT 7 IN; DIAMETER: 4 FT 10 IN A/N: | D679 | | | | |
| REACTOR, POLY, RPV 5277, HEIGHT: 33 FT 7 IN; DIAMETER: 4 FT 10 IN A/N: | D680 | | | | |
| REACTOR, POLY, RPV 5278, HEIGHT: 33 FT 7 IN; DIAMETER: 4 FT 10 IN A/N: | D681 | | | | |
| TOWER, DEPROPANIZER, RPV 2469, HEIGHT: 87 FT ; DIAMETER: 6 FT 6 IN A/N: | D682 | | | | |
| ACCUMULATOR, RPV 2461, DEPROPANIZER OVERHEAD, LENGTH: 12 FT ; DIAMETER: 6 FT A/N: | D683 | | | | |
| VESSEL, RPV 2466, WATER WASH SETTLER, LENGTH: 11 FT 6 IN; DIAMETER: 8 FT A/N: | D684 | | | | |
| KNOCK OUT POT, VAPOR RECOVERY, RPV 2467, HEIGHT: 7 FT 6 IN; DIAMETER: 6 FT A/N: | D685 | | | | |

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| Equipment | ID No. | Connected To | RECLAIM Source Type/ Monitoring Unit | Emissions * And Requirements | Conditions |
|---|---|---|---|---|---|
| **Process 9: ALKYLATION AND POLYMERIZATION** | | | | | |
| FUGITIVE EMISSIONS, MISCELLANEOUS<br>A/N: | D2497 | | | **HAP**: (10) [**40CFR 63 Subpart CC, #5A, 6-23-2003**] | H23.3 |
| **System 6: C5 ALKY DEPENTANIZER SYSTEM** | | | | | S13.2, S46.1, S46.2, S56.1 |
| TOWER, RW 5954, DEPENTANIZER, HEIGHT: 160 FT 6 IN; DIAMETER: 12 FT<br>A/N: 429519 | D1539 | | | | |
| ACCUMULATOR, RW 5955, DEPENTANIZER OVERHEAD, HEIGHT: 33 FT ; DIAMETER: 11 FT<br>A/N: 429519 | D1541 | | | | |
| DRUM, RW 5963, C5 ALKY DEPENTANIZER FLARE KNOCKOUT, LENGTH: 19 FT 6 IN; DIAMETER: 6 FT 6 IN<br>A/N: 429519 | D2056 | | | **BENZENE**: (10) [**40CFR 61 Subpart FF, #2, 12-4-2003**];<br>**VOC**: 500 PPMV (8) [**40CFR 61 Subpart FF, 12-4-2003**] | H23.12 |
| DRUM, RW 5966, C5 ALKY DEPENTANIZER OILY WATER SEWER, LENGTH: 8 FT 10 IN; DIAMETER: 4 FT<br>A/N: 429519 | D2057 | | | | |
| DRUM, RW 5967, C5 ALKY DEPENTANIZER OILY WATER SEWER, LENGTH: 8 FT 10 IN; DIAMETER: 4 FT<br>A/N: 429519 | D2058 | | | **BENZENE**: (10) [**40CFR 61 Subpart FF, #2, 12-4-2003**];<br>**VOC**: 500 PPMV (8) [**40CFR 61 Subpart FF, 12-4-2003**] | H23.12 |
| VESSEL, COALESCER, RW 5970, C5 ALKY DEPENTANIZER HYDROCARBON/CONDENSATE, LENGTH: 8 FT ; DIAMETER: 3 FT<br>A/N: 429519 | D2059 | | | | |

* (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
# BP WEST COAST PROD.LLC BP CARSON REF.

## 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 |
|---|---|---|---|---|---|
| **Process 9: ALKYLATION AND POLYMERIZATION** | | | | | |
| DRUM, ATMOSPHERIC FLASH, RPV 5969, HEIGHT: 15 FT 10 IN; DIAMETER: 7 FT 10 IN<br>A/N: 429519 | D2891 | | | | |
| FUGITIVE EMISSIONS, MISCELLANEOUS<br>A/N: 429519 | D2501 | | | **HAP**: (10) [**40CFR 63 Subpart CC, #5A, 6-23-2003**] | H23.3 |
| **System 8: NAPHTHA ISOMERIZATION UNIT** | | | | | S13.2, S15.6, S46.1, S46.2, S56.1 |
| SCRUBBER, RW 5829, OFF GAS, HEIGHT: 48 FT 6 IN; DIAMETER: 5 FT<br>A/N: 438642 | D1585 | | | | |
| TOWER, ISOM STABILIZER, RW 5831, HEIGHT: 100 FT 11 IN; DIAMETER: 8 FT 6 IN<br>A/N: 438642 | D1586 | | | | |
| REACTOR, BENSAT, RW 5841, HEIGHT: 20 FT 9 IN; DIAMETER: 6 FT 6 IN<br>A/N: 438642 | D1588 | | | | |
| TANK, SURGE, RW 5842, ISOM FEED, HEIGHT: 36 FT ; DIAMETER: 9 FT<br>A/N: 438642 | D1589 | | | | |
| VESSEL, SULFUR TRAP, RW 5844, BENSAT REACTOR, HEIGHT: 13 FT ; DIAMETER: 7 FT<br>A/N: 438642 | D1590 | | | | |

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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
(10) See section J for NESHAP/MACT requirements

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

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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|---|---|---|---|---|---|
| **Process 9: ALKYLATION AND POLYMERIZATION** | | | | | |
| TANK, SURGE, RW 5846, BENSAT FEED, HEIGHT: 36 FT ; DIAMETER: 9 FT<br>A/N: 438642 | D1591 | | | | |
| VESSEL, SULFUR TRAP, RW 5847, FEED HYDROGEN, HEIGHT: 14 FT 4 IN; DIAMETER: 5 FT 6 IN<br>A/N: 438642 | D1592 | | | | |
| VESSEL, SULFUR TRAP, RW 6083, FEED HYDROGEN, HEIGHT: 14 FT 4 IN; DIAMETER: 5 FT 6 IN<br>A/N: 438642 | D1593 | | | | |
| REACTOR, ISOM, RW 5848, HEIGHT: 40 FT 9 IN; DIAMETER: 9 FT<br>A/N: 438642 | D1594 | | | | |
| REACTOR, ISOM, RW 5849, HEIGHT: 40 FT 9 IN; DIAMETER: 9 FT<br>A/N: 438642 | D1595 | | | | |
| KNOCK OUT POT, FLARE, RW 5850-289.02, HEIGHT: 24 FT ; DIAMETER: 8 FT<br>A/N: 438642 | D1596 | | | **BENZENE**: (10) [**40CFR 61 Subpart FF, #2, 12-4-2003**]; **HAP**: (10) [**40CFR 63 Subpart CC, #2, 6-23-2003**]; **VOC**: 500 PPMV (8) [**40CFR 61 Subpart FF, 12-4-2003**] | H23.12 |
| ACCUMULATOR, OVERHEAD, RW 5853, ISOM STABILIZER, HEIGHT: 26 FT ; DIAMETER: 6 FT 6 IN<br>A/N: 438642 | D1597 | | | | |
| KNOCK OUT POT, RW 6082, FEED HYDROGEN, HEIGHT: 8 FT ; DIAMETER: 2 FT<br>A/N: 438642 | D1598 | | | | |

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

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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|---|---|---|---|---|---|
| **Process 9: ALKYLATION AND POLYMERIZATION** | | | | | |
| STORAGE TANK, RW 5855, CHLORIDE INJECTION, HEIGHT: 22 FT ; DIAMETER: 5 FT 6 IN<br>A/N: 438642 | D1599 | | | | H23.30 |
| DRYER, RW 5857, LIQUID FEED, HEIGHT: 15 FT ; DIAMETER: 7 FT<br>A/N: 438642 | D1600 | | | | |
| DRYER, RW 5858, LIQUID FEED, HEIGHT: 15 FT ; DIAMETER: 7 FT<br>A/N: 438642 | D1601 | | | | |
| DRYER, RW 5859, FEED HYDROGEN, HEIGHT: 16 FT ; DIAMETER: 4 FT<br>A/N: 438642 | D1602 | | | | |
| DRYER, RW 5860, FEED HYDROGEN, HEIGHT: 16 FT ; DIAMETER: 4 FT<br>A/N: 438642 | D1603 | | | | |
| STORAGE TANK, RW 5891, PUMP-OUT/ VACUUM, HEIGHT: 8 FT 10 IN; DIAMETER: 4 FT<br>A/N: 438642 | D1604 | | | **BENZENE**: (10) [**40CFR 61 Subpart FF, #2, 12-4-2003**];<br>**VOC**: 500 PPMV (8) [**40CFR 61 Subpart FF, 12-4-2003**] | H23.12 |
| POT, RW 6102, DRYER VENT, HEIGHT: 3 FT ; DIAMETER: 2 FT<br>A/N: 438642 | D2888 | | | | |
| FUGITIVE EMISSIONS, MISCELLANEOUS<br>A/N: 438642 | D2502 | | | **HAP**: (10) [**40CFR 63 Subpart CC, #5A, 6-23-2003**] | H23.3 |
| **System 9: ISO-OCTENE UNIT** | | | | | S13.2, S31.4, S46.1, S46.2, S56.1 |
| TOWER, METHANOL STRIPPER, RPV 935, HEIGHT: 98 FT 4 IN; DIAMETER: 4 FT<br>A/N: | D636 | | | | |

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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
# BP WEST COAST PROD.LLC BP CARSON REF.

## 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 |
|---|---|---|---|---|---|
| **Process 9: ALKYLATION AND POLYMERIZATION** | | | | | |
| TANK, SURGE, RPV 922, FEED, METHANOL, HEIGHT: 31 FT 6 IN; DIAMETER: 9 FT<br>A/N: | D653 | | | | |
| ACCUMULATOR, RPV-936,METHANOL STRIPPER OVERHEAD, LENGTH: 11 FT 8 IN; DIAMETER: 5 FT<br>A/N: | D655 | | | | |
| ACCUMULATOR, RPV 942, MTBE DEBUTANIZER OVERHEAD, LENGTH: 31 FT 6 IN; DIAMETER: 9 FT<br>A/N: | D656 | | | | |
| ACCUMULATOR, RPV 952, DEPROPANIZER OVERHEAD, LENGTH: 11 FT 6 IN; DIAMETER: 5 FT<br>A/N: | D657 | | | | |
| VESSEL, VAPORIZER, RPV 3232, NO.2 ALKYLATION AMMONIA, HEIGHT: 5 FT 4 IN; DIAMETER: 4 FT<br>A/N: | D664 | | | | |
| KNOCK OUT POT, VAPOR RECOVERY, RPV-912, HEIGHT: 7 FT ; DIAMETER: 5 FT<br>A/N: | D1508 | | | | |
| REACTOR, MTBE, RPV 5355, HEIGHT: 28 FT ; DIAMETER: 12 FT<br>A/N: | D1509 | | | | |

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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
# BP WEST COAST PROD.LLC BP CARSON REF.

## 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 |
|---|---|---|---|---|---|
| **Process 9: ALKYLATION AND POLYMERIZATION** | | | | | |
| FILTER, RPV-5356, REACTOR EFFLUENT, HEIGHT: 4 FT ; DIAMETER: 2 FT 2 IN<br>A/N: | D1512 | | | | |
| FILTER, RPV-5357, REACTOR EFFLUENT, HEIGHT: 8 FT 4 IN; DIAMETER: 2 FT<br>A/N: | D1513 | | | | |
| KNOCK OUT POT, RPV 5613, MIXED OLEFIN FEED WATER(TK316)<br>A/N: | D1537 | | | | |
| TOWER, MTBE DEBUTANIZER, RPV 941, BY REPLACING THE TRAYS AND THE NOZZLES, HEIGHT: 127 FT 8 IN; DIAMETER: 9 FT<br>A/N: | D637 | | | | |
| DRUM, RPV 955, MIXED BUTANE FEED, HEIGHT: 36 FT ; DIAMETER: 11 FT<br>A/N: | D658 | | | | |
| FUGITIVE EMISSIONS, MISCELLANEOUS<br>A/N: | D2503 | | | **HAP**: (10) [**40CFR 63 Subpart CC, #5A, 6-23-2003**] | H23.3 |
| **System 10: BUTANE ISOMERIZATION UNIT** | | | | | S13.2, S46.1, S46.2, S56.1 |
| REACTOR, RW 6317, BUTAMER, NORTH, HEIGHT: 10 FT ; DIAMETER: 5 FT 6 IN<br>A/N: 433309 | D2092 | | | | |
| REACTOR, RW 6318, BUTAMER, SOUTH, HEIGHT: 10 FT ; DIAMETER: 5 FT 6 IN<br>A/N: 433309 | D2093 | | | | |

* (1) (1A) (1B) Denotes RECLAIM emission factor
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(3) Denotes RECLAIM concentration limit
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(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
# BP WEST COAST PROD.LLC BP CARSON REF.

## 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 |
|---|---|---|---|---|---|
| **Process 9: ALKYLATION AND POLYMERIZATION** | | | | | |
| TOWER, RW 6331, STABILIZER, HEIGHT: 85 FT ; DIAMETER: 6 FT<br>A/N: 433309 | D2094 | | | | |
| TANK, SURGE, RW 6322, BUTAMER FEED, HEIGHT: 24 FT ; DIAMETER: 6 FT<br>A/N: 433309 | D2096 | | | | |
| POT, RW 6308, DRYER VENT, HEIGHT: 3 FT ; DIAMETER: 2 FT<br>A/N: 433309 | D2097 | | | | |
| DRYER, RW6306, BUTAMER LIQUID FEED, NORTH, HEIGHT: 18 FT ; DIAMETER: 5 FT 6 IN<br>A/N: 433309 | D2100 | | | | |
| DRYER, RW 6307, BUTAMER LIQUID FEED, SOUTH, HEIGHT: 18 FT ; DIAMETER: 5 FT 6 IN<br>A/N: 433309 | D2101 | | | | |
| ACCUMULATOR, RW 6330, STABILIZER OVERHEAD, HEIGHT: 13 FT 6 IN; DIAMETER: 4 FT 6 IN<br>A/N: 433309 | D2102 | | | | |
| VESSEL, COALESCER, RW 6324, BUTAMER REGENERANT, LENGTH: 8 FT ; DIAMETER: 1 FT 4 IN<br>A/N: 433309 | D2105 | | | | |
| POT, RPV 6337, BUTAMER FLARE DRIP, LENGTH: 2 FT ; DIAMETER: 1 FT 6 IN<br>A/N: 433309 | D2887 | | | | |
| FUGITIVE EMISSIONS, MISCELLANEOUS<br>A/N: 433309 | D2504 | | | **HAP**: (10) [**40CFR 63 Subpart CC, #5A, 6-23-2003**] | H23.3 |

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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
(10) See section J for NESHAP/MACT requirements

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

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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|---|---|---|---|---|---|
| **Process 10: GAS PRODUCTION** | | | | | |
| **System 1: FUEL GAS MIX SYSTEM** | | | | | S13.2, S31.10, S56.1 |
| DRUM, NORTH AREA MIX, RPV 3276, FUEL GAS, HEIGHT: 17 FT 7 IN; DIAMETER: 13 FT 6 IN<br>A/N: | D706 | D608 | | | |
| SCRUBBER, RPV 2290, FUEL GAS, HEIGHT: 55 FT ; DIAMETER: 6 FT 6 IN<br>A/N: | D708 | | | | |
| ABSORBER, RPV 2861, HEIGHT: 42 FT 6 IN; DIAMETER: 4 FT<br>A/N: | D2005 | | | | |
| ABSORBER, RPV 2862, OFF-GAS CAUSTIC SCRUBBER, HEIGHT: 15 FT ; DIAMETER: 1 FT .75 IN<br>A/N: | D2006 | | | | |
| FUGITIVE EMISSIONS, MISCELLANEOUS<br>A/N: | D2505 | | | | H23.3 |
| **System 2: LPG RECOVERY SYSTEM** | | | | | S13.2, S56.1 |
| TANK, FLASH, PROPANE COMPRESSOR, RPV 3302, HEIGHT: 60 FT ; DIAMETER: 3 FT<br>A/N: 396078 | D709 | | | | |
| VESSEL, PRODUCT DRYER, RPV 3313, HEIGHT: 28 FT 8 IN; DIAMETER: 4 FT<br>A/N: 396078 | D710 | | | | |
| DRUM, PROPANE COMPRESSOR SUCTION, RPV 3319, HEIGHT: 8 FT 3 IN; DIAMETER: 4 FT 6 IN<br>A/N: 396078 | D711 | | | | |

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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
# BP WEST COAST PROD.LLC BP CARSON REF.

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| Equipment | ID No. | Connected To | RECLAIM Source Type/ Monitoring Unit | Emissions * And Requirements | Conditions |
|---|---|---|---|---|---|
| **Process 10: GAS PRODUCTION** | | | | | |
| KNOCK OUT POT, FLASH, RPV 3320, FLARE, HEIGHT: 10 FT ; DIAMETER: 4 FT 6 IN<br>A/N: 396078 | D712 | | | **BENZENE**: (10) [**40CFR 61 Subpart FF, #2, 12-4-2003**];<br>**VOC**: 500 PPMV (8) [**40CFR 61 Subpart FF, 12-4-2003**] | H23.12 |
| ACCUMULATOR, RPV-3325, PROPANE, HEIGHT: 16 FT ; DIAMETER: 6 FT<br>A/N: 396078 | D713 | | | | |
| DRUM, PROPANE DEOILING, RPV 3327, HEIGHT: 6 FT 3.75 IN; DIAMETER: 2 FT 6 IN<br>A/N: 396078 | D714 | | | | |
| DRUM, FEED KNOCKOUT, RPV 3329, HEIGHT: 7 FT ; DIAMETER: 3 FT<br>A/N: 396078 | D715 | | | | |
| VESSEL, RPV 3332, PROPANE DRYER, HEIGHT: 6 FT ; DIAMETER: 1 FT 6 IN<br>A/N: 396078 | D716 | | | | |
| FILTER, RPV 3465, LIQUID PROPANE, HEIGHT: 3 FT 8 IN; DIAMETER: 1 FT 4 IN<br>A/N: 396078 | D717 | | | | |
| DRUM, DECANTER, RPV 3334, WATER, HEIGHT: 14 FT ; DIAMETER: 4 FT<br>A/N: 396078 | D718 | | | | |
| DRUM, DAMPENER, RPV 3468, PROPANE COMPRESSOR SUCTION, LENGTH: 5 FT 5 IN; DIAMETER: 2 FT 6 IN<br>A/N: 396078 | D719 | | | | |

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

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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|---|---|---|---|---|---|
| **Process 10: GAS PRODUCTION** | | | | | |
| DRUM, DAMPENER, RPV 3470, PROPANE COMPRESSOR DISCHARGE, LENGTH: 5 FT 1 IN; DIAMETER: 2 FT 6 IN<br>A/N: 396078 | D720 | | | | |
| COMPRESSOR, RW-3087.32, ETHYLENE AND PROPANE (WEST), COOPER-BESSEMER RECIPROCATING TYPE<br>A/N: 396078 | D721 | | | | |
| FUGITIVE EMISSIONS, MISCELLANEOUS<br>A/N: 396078 | D2506 | | | | H23.3 |
| **System 3: LIQUID PETROLEUM GAS DRYING FACILITIES** | | | | | S13.2, S56.1 |
| VESSEL, SOUTH DRYER, RPV 2415, LPG, WITH INTERNAL STEAM COILS AND WITH RELIEF VALVE, HEIGHT: 12 FT 9 IN; DIAMETER: 4 FT<br>A/N: 396108 | D722 | | | | |
| VESSEL, NORTH DRYER, RPV 2416, LPG, WITH INTERNAL STEAM COILS AND WITH RELIEF VALVE, HEIGHT: 12 FT 9 IN; DIAMETER: 4 FT<br>A/N: 396108 | D723 | | | | |
| VESSEL, VAPORIZER, RPV 2417, WITH BROWN FINTUBE HEATER TYPE TF 8, HEIGHT: 7 FT ; DIAMETER: 2 FT<br>A/N: 396108 | D724 | | | | |

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(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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# BP WEST COAST PROD.LLC BP CARSON REF.

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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|---|---|---|---|---|---|
| **Process 10: GAS PRODUCTION** | | | | | |
| VESSEL, VAPORIZER, RPV 2418, LPG, HEIGHT: 8 FT ; DIAMETER: 2 FT<br>A/N: 396108 | D725 | | | | |
| FUGITIVE EMISSIONS, MISCELLANEOUS<br>A/N: 396108 | D2507 | | | | H23.3 |
| **Process 11: BLENDING** | | | | | |
| **System 1: GASOLINE BLENDING UNIT** | | | | | S13.2, S56.1 |
| STORAGE TANK, NO.981, DIESEL CONDUCTIVITY ADDITIVE<br>A/N: 475066 | D730 | | | | H23.30 |
| STORAGE TANK, FIXED ROOF, HOLDING AND TRANSFER, RPV 2940, WITH INTERNAL JET MIXER, 500 GALS; DIAMETER: 4 FT 6 IN; HEIGHT: 4 FT 6 IN<br>A/N: 475066 | D739 | | | | |
| STORAGE TANK, RPV-2941, NO.1, 500 GALS; DIAMETER: 4 FT 6 IN; HEIGHT: 4 FT 6 IN<br>A/N: 475066 | D740 | | | | |
| STORAGE TANK, FIXED ROOF, RPV-2942, NO. 2, 500 GALS; DIAMETER: 4 FT 6 IN; HEIGHT: 4 FT 6 IN<br>A/N: 475066 | D741 | | | | |
| STORAGE TANK, FIXED ROOF, RPV-2943, NO. 3, 500 GALS; DIAMETER: 4 FT 6 IN; HEIGHT: 4 FT 6 IN<br>A/N: 475066 | D742 | | | | |

* (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
# BP WEST COAST PROD.LLC BP CARSON REF.

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

| Equipment | ID No. | Connected To | RECLAIM Source Type/ Monitoring Unit | Emissions * And Requirements | Conditions |
|---|---|---|---|---|---|
| **Process 11: BLENDING** | | | | | |
| STORAGE TANK, FIXED ROOF, RPV-5485, NO. 4, 500 GALS; DIAMETER: 4 FT 6 IN; HEIGHT: 4 FT 6 IN<br>A/N: 475066 | D743 | | | | |
| STORAGE TANK, FIXED ROOF, RPV-5486, NO. 5, 500 GALS; DIAMETER: 4 FT 6 IN; HEIGHT: 4 FT 6 IN<br>A/N: 475066 | D744 | | | | |
| STORAGE TANK, FIXED ROOF, RECOVERY, RPV 2944, 250 GALS; DIAMETER: 3 FT ; HEIGHT: 6 FT 6 IN<br>A/N: 475066 | D745 | | | | |
| TEST CELL, ENGINE, RW 0106 158.03, NO. 3, OCTANE, 4 H.P.<br>A/N: 475066 | D752 | | | | |
| TEST CELL, ENGINE, RW 0107 158.03, NO. 4, OCTANE, 4 H.P.<br>A/N: 475066 | D753 | | | | |
| STORAGE TANK, FIXED ROOF, NO. 278, ADDITIVE, COCKTAIL MIX, 560 BBL; DIAMETER: 15 FT ; HEIGHT: 18 FT<br>A/N: 475066 | D1620 | | | **HAP**: (10) [**40CFR 63 Subpart CC, #2, 6-23-2003**] | |
| FUGITIVE EMISSIONS, MISCELLANEOUS<br>A/N: 475066 | D2508 | | | **HAP**: (10) [**40CFR 63 Subpart CC, #5A, 6-23-2003**] | H23.3 |
| **Process 12: TREATING/STRIPPING** | | | | | |
| **System 1: NO.1 PETRECO STOVE OIL-TREATER** | | | | | S56.1 |

* (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
# BP WEST COAST PROD.LLC BP CARSON REF.

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

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|---|---|---|---|---|---|
| **Process 12: TREATING/STRIPPING** | | | | | |
| VESSEL, TREATER, RPV 749, STOVE OIL, HEIGHT: 20 FT ; DIAMETER: 8 FT<br>A/N: 395365 | D756 | | | | |
| SETTLING TANK, STOVE OIL RPV 772, CAUSTIC, LENGTH: 40 FT ; DIAMETER: 9 FT<br>A/N: 395365 | D757 | | | | |
| TOWER, SALT, RPV 711, HEIGHT: 39 FT 8 IN; DIAMETER: 8 FT 6 IN<br>A/N: 395365 | D758 | | | | |
| TOWER, CLAY, RPV 2611, HEIGHT: 14 FT ; DIAMETER: 7 FT<br>A/N: 395365 | D759 | | | | |
| TOWER, CLAY, RPV 2753, (SPARE, COMMON TO #1 AND #2 UNIT), HEIGHT: 13 FT 6 IN; DIAMETER: 7 FT<br>A/N: 395366 | D760 | | | | |
| FUGITIVE EMISSIONS, MISCELLANEOUS<br>A/N: 395365 | D2509 | | | **HAP**: (10) [**40CFR 63 Subpart CC, #5A, 6-23-2003**] | H23.3 |
| **System 2: NO.2 PETRECO STOVE OIL-TREATER** | | | | | S56.1 |
| VESSEL, TREATER, RPV 719, TWO-STAGE PETRECO, HEIGHT: 20 FT ; DIAMETER: 8 FT<br>A/N: 395366 | D761 | | | | |
| TANK, WASH, CAUSTIC, RPV 771, NO.2, STOVE OIL, LENGTH: 44 FT ; DIAMETER: 9 FT<br>A/N: 395366 | D762 | | | | |

* (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
# BP WEST COAST PROD.LLC BP CARSON REF.

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

| Equipment | ID No. | Connected To | RECLAIM Source Type/ Monitoring Unit | Emissions * And Requirements | Conditions |
|---|---|---|---|---|---|
| **Process 12: TREATING/STRIPPING** | | | | | |
| TOWER, SALT, RPV 2615, HEIGHT: 33 FT 3 IN; DIAMETER: 8 FT 6 IN<br>A/N: 395366 | D763 | | | | |
| TOWER, CLAY, RPV 2754, HEIGHT: 13 FT 6 IN; DIAMETER: 7 FT<br>A/N: 395366 | D764 | | | | |
| TOWER, CLAY, RPV 2753, (SPARE, COMMON TO #1 AND #2 UNIT), HEIGHT: 13 FT 6 IN; DIAMETER: 7 FT<br>A/N: 395366 | D760 | | | | |
| FUGITIVE EMISSIONS, MISCELLANEOUS<br>A/N: 395366 | D2510 | | | **HAP**: (10) [**40CFR 63 Subpart CC, #5A, 6-23-2003**] | H23.3 |
| **System 3: NO.4 STOVE OIL-TREATER** | | | | | S56.1 |
| POT, WATER WASH PRECIPITATOR, RPV 5624, LENGTH: 14 FT ; DIAMETER: 10 FT<br>A/N: 395503 | D765 | | | | |
| TOWER, SOUTH SALT, RPV 5625, LENGTH: 26 FT ; DIAMETER: 13 FT<br>A/N: 395503 | D766 | | | | |
| TOWER, NORTH SALT,RPV 5626, LENGTH: 26 FT ; DIAMETER: 13 FT<br>A/N: 395503 | D767 | | | | |
| TOWER, SOUTH CLAY, RPV 5627, LENGTH: 21 FT ; DIAMETER: 12 FT 6 IN<br>A/N: 395503 | D768 | | | | |
| TOWER, NORTH CLAY, RPV 5628, LENGTH: 21 FT ; DIAMETER: 12 FT 6 IN<br>A/N: 395503 | D769 | | | | |

* (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
# BP WEST COAST PROD.LLC BP CARSON REF.

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

| Equipment | ID No. | Connected To | RECLAIM Source Type/ Monitoring Unit | Emissions * And Requirements | Conditions |
|---|---|---|---|---|---|
| **Process 12: TREATING/STRIPPING** | | | | | |
| DRUM, RPV 5647, STEAMOUT<br>A/N: 395503 | D770 | | | | |
| FUGITIVE EMISSIONS, MISCELLANEOUS<br>A/N: 395503 | D2511 | | | **HAP**: (10) [**40CFR 63 Subpart CC, #5A, 6-23-2003**] | H23.3 |
| **System 4: CATALYTIC RERUN GASOLINE TREATING UNIT** | | | | | S13.2, S56.1 |
| VESSEL, RERUN BOTTOM CAUSTIC WASH, RPV 734, LENGTH: 38 FT ; DIAMETER: 12 FT<br>A/N: 396115 | D771 | | | | |
| VESSEL, RERUN BOTTOM CAUSTIC WASH, RPV 733, LENGTH: 38 FT ; DIAMETER: 12 FT<br>A/N: 396115 | D772 | | | | |
| VESSEL, COALESCER, RPV 0797, GASOLINE, HEIGHT: 8 FT 8 IN; DIAMETER: 3 FT<br>A/N: 396115 | D773 | | | | |
| TOWER, WATER WASH, RERUN BOTTOM, RPV 732, HEIGHT: 38 FT ; DIAMETER: 12 FT<br>A/N: 396115 | D774 | | | | |
| FUGITIVE EMISSIONS, MISCELLANEOUS<br>A/N: 396115 | D2512 | | | **HAP**: (10) [**40CFR 63 Subpart CC, #5A, 6-23-2003**] | H23.3 |
| **System 5: STRAIGHT RUN GASOLINE TREATING UNIT** | | | | | S13.2, S56.1 |
| VESSEL, TREATER, 2 STAGE PETRECO CAUSTIC , RPV 5050, HEIGHT: 21 FT ; DIAMETER: 12 FT<br>A/N: 395492 | D778 | | | | |

* (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
# BP WEST COAST PROD.LLC BP CARSON REF.

## 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 |
|---|---|---|---|---|---|
| **Process 12: TREATING/STRIPPING** | | | | | |
| VESSEL, TREATER, 2 STAGE PETRECO CAUSTIC, RPV 5051, HEIGHT: 21 FT ; DIAMETER: 12 FT A/N: 395492 | D779 | | | | |
| FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 395492 | D2513 | | | **HAP**: (10) [**40CFR 63 Subpart CC, #5A, 6-23-2003**] | H23.3 |
| **System 7: FIXED BED MEROX TREATING UNIT** | | | | | S13.2, S56.1 |
| TOWER, LCO SALT, RVP-5004, HEIGHT: 20 FT ; DIAMETER: 6 FT A/N: 395356 | D782 | | | | |
| TOWER, LCO SALT, RVP-5005, HEIGHT: 20 FT ; DIAMETER: 6 FT A/N: 395356 | D783 | | | | |
| FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 395356 | D2515 | | | | H23.3 |
| **System 8: UOP MEROX TREATING UNIT** | | | | | S13.2, S46.1, S46.2, S56.1 |
| DRUM, FEED SURGE, RPV-1777, HEIGHT: 57 FT ; DIAMETER: 5 FT A/N: 396014 | D785 | | | | |
| MIXER, ACETIC ACID AND CATALYST, HEIGHT: 16 FT ; DIAMETER: 3 FT A/N: 396014 | D786 | | | | |
| POT, DRAIN, REACTOR WATER, HEIGHT: 5 FT 6 IN; DIAMETER: 2 FT 6 IN A/N: 396014 | D788 | | | | |
| TOWER, OXIDIZER, RPV-1778, HEIGHT: 23 FT ; DIAMETER: 4 FT A/N: 396014 | D789 | | | | |

* (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
# BP WEST COAST PROD.LLC BP CARSON REF.

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

| Equipment | ID No. | Connected To | RECLAIM Source Type/ Monitoring Unit | Emissions * And Requirements | Conditions |
|---|---|---|---|---|---|
| **Process 12: TREATING/STRIPPING** | | | | | |
| VESSEL, SEPARATOR, DISULFIDE, RPV-1783, LENGTH: 30 FT ; DIAMETER: 5 FT A/N: 396014 | D790 | C910 C2413 | | **HAP**: (10) [**40CFR 63 Subpart CC, #2, 6-23-2003**] | |
| REACTOR, HYDROLYSIS, RW-6519-289.06, HEIGHT: 20 FT ; DIAMETER: 6 FT A/N: 396014 | D2363 | | | | |
| REACTOR, HYDROLYSIS, RW-6520-289.06, HEIGHT: 20 FT ; DIAMETER: 6 FT A/N: 396014 | D2364 | | | | |
| TOWER, CAUSTIC PREWASH, RW-6521-289.02, HEIGHT: 20 FT ; DIAMETER: 6 FT A/N: 396014 | D2365 | | | | |
| FILTER, SAND, RW-6523-289.02, HEIGHT: 14 FT 6 IN; DIAMETER: 7 FT A/N: 396014 | D2366 | | | | |
| KNOCK OUT POT, RPV-1779, FLARE GAS, LENGTH: 16 FT ; DIAMETER: 7 FT A/N: 396014 | D2368 | | | **BENZENE**: (10) [**40CFR 61 Subpart FF, #2, 12-4-2003**]; **VOC**: 500 PPMV (8) [**40CFR 61 Subpart FF, 12-4-2003**] | H23.12 |
| TOWER, EXTRACTOR, RW-6522-289.01, HEIGHT: 58 FT ; DIAMETER: 4 FT 6 IN A/N: 396014 | D2404 | | | | |
| MIXER, STATIC, RW--, HYDROLYSIS REACTOR FEED, HEIGHT: 16 FT ; DIAMETER: 3 FT A/N: 396014 | D2367 | | | | |

* (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
# BP WEST COAST PROD.LLC BP CARSON REF.

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

| Equipment | ID No. | Connected To | RECLAIM Source Type/ Monitoring Unit | Emissions * And Requirements | Conditions |
|---|---|---|---|---|---|
| **Process 12: TREATING/STRIPPING** | | | | | |
| FUGITIVE EMISSIONS, MISCELLANEOUS<br>A/N: 396014 | D2516 | | | **HAP**: (10) [**40CFR 63 Subpart CC, #5A, 6-23-2003**] | H23.3 |
| **System 9: METHYLDIETHANOLAMINE REGENERATION SYSTEM NO.1** | | | | | S13.2, S15.1, S56.1 |
| ACCUMULATOR, RPV 2479, REGENERATOR OVERHEAD, LENGTH: 12 FT ; DIAMETER: 5 FT 6 IN<br>A/N: 515388 | D793 | | | | |
| POT, RPV 2482,REBOILER CONDENSATE, LENGTH: 5 FT ; DIAMETER: 2 FT<br>A/N: 515388 | D794 | | | | |
| COLUMN, REGENERATOR, RPV-2683, HEIGHT: 44 FT ; DIAMETER: 7 FT<br>A/N: 515388 | D795 | | | | |
| TANK, FLASH, MAIN RICH MDEA, RPV 2685, HYDROCARBON/RICH MDEA, SOUR WATER BACKUP, (COMMON WITH NO. 1 & 2 MDEA REGENERATION UNIT), LENGTH: 40 FT ; DIAMETER: 12 FT<br>A/N: 515388 | D796 | | | **BENZENE**: (10) [**40CFR 61 Subpart FF, #2, 12-4-2003**];<br>**VOC**: 500 PPMV (8) [**40CFR 61 Subpart FF, 12-4-2003**] | E193.11, H23.12 |
| FILTER, ACTIVATED CARBON, RPV-2686, (COMMON WITH MDEA REGENERATION UNITS NOS. 1-5), LENGTH: 9 FT ; DIAMETER: 6 FT 6 IN<br>A/N: 515388 | D797 | | | | |

* (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
# BP WEST COAST PROD.LLC BP CARSON REF.

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

| Equipment | ID No. | Connected To | RECLAIM Source Type/ Monitoring Unit | Emissions * And Requirements | Conditions |
|---|---|---|---|---|---|
| **Process 12: TREATING/STRIPPING** | | | | | |
| FILTER, CARTRIDGE PREFILTER, RPV-5908, (COMMON WITH MDEA REGENERATION UNITS NOS. 1-5) A/N: 515388 | D798 | | | | |
| FILTER, CARTRIDGE AFTERFILTER, RPV-5909, (COMMON WITH MDEA REGENERATION UNITS NOS. 1-5) A/N: 515388 | D799 | | | | |
| FILTER, NORTH AREA HIGH CAPACITY FILTER, RPV-6741, (COMMON WITH MDEA REGENERATION UNITS NOS. 1-5) A/N: 515388 | D2936 | | | | |
| FILTER, SOUTH AREA HIGH CAPACITY FILTER, RPV-6837, (COMMON WITH MDEA REGENERATION UNITS NOS. 1-5) A/N: 515388 | D2937 | | | | |
| DRUM, RICH MDEA FLASH, RPV 2668, HYDROCARBON/RICH MDEA, (STANDBY, COMMON WITH NO.1& 2 MDEA REGENERATION UNITS), LENGTH: 20 FT ; DIAMETER: 6 FT A/N: 460582 | D2712 | | | **BENZENE**: (10) [**40CFR 61 Subpart FF, #2, 12-4-2003**]; **VOC**: 500 PPMV (8) [**40CFR 61 Subpart FF, 12-4-2003**] | E193.12, H23.12 |
| FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 515388 | D2517 | | | **HAP**: (10) [**40CFR 63 Subpart CC, #5A, 6-23-2003**] | H23.3 |
| **System 10: METHYLDIETHANOLAMINE REGENERATION SYSTEM NO.2** | | | | | S13.2, S15.1, S56.1 |
| DRUM, FLASH, HYDROCARBON, RPV 2655, LENGTH: 20 FT ; DIAMETER: 6 FT A/N: 460582 | D802 | | | | |

* (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
# BP WEST COAST PROD.LLC BP CARSON REF.

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

| Equipment | ID No. | Connected To | RECLAIM Source Type/ Monitoring Unit | Emissions * And Requirements | Conditions |
|---|---|---|---|---|---|
| **Process 12: TREATING/STRIPPING** | | | | | |
| ACCUMULATOR, RPV 2662, MDEA REGENERATOR OVERHEAD, LENGTH: 12 FT ; DIAMETER: 5 FT 7 IN<br>A/N: 460582 | D804 | | | | |
| FILTER, ACTIVATED CARBON, RPV-2686, (COMMON WITH MDEA REGENERATION UNITS NOS. 1-5), LENGTH: 9 FT ; DIAMETER: 6 FT 6 IN<br>A/N: 515388 | D797 | | | | |
| FILTER, CARTRIDGE PREFILTER, RPV-5908, (COMMON WITH MDEA REGENERATION UNITS NOS. 1-5)<br>A/N: 515388 | D798 | | | | |
| FILTER, CARTRIDGE AFTERFILTER, RPV-5909, (COMMON WITH MDEA REGENERATION UNITS NOS. 1-5)<br>A/N: 515388 | D799 | | | | |
| FILTER, NORTH AREA HIGH CAPACITY FILTER, RPV-6741, (COMMON WITH MDEA REGENERATION UNITS NOS. 1-5)<br>A/N: 515388 | D2936 | | | | |
| FILTER, SOUTH AREA HIGH CAPACITY FILTER, RPV-6837, (COMMON WITH MDEA REGENERATION UNITS NOS. 1-5)<br>A/N: 515388 | D2937 | | | | |
| POT, RPV 2666, MDEA REGENERATOR REBOILER CONDENSATE, LENGTH: 4 FT ; DIAMETER: 3 FT<br>A/N: 460582 | D806 | | | | |

* (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
# BP WEST COAST PROD.LLC BP CARSON REF.

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

| Equipment | ID No. | Connected To | RECLAIM Source Type/ Monitoring Unit | Emissions * And Requirements | Conditions |
|---|---|---|---|---|---|
| **Process 12: TREATING/STRIPPING** | | | | | |
| COLUMN, MDEA REGENERATOR, RPV-2667, HEIGHT: 44 FT ; DIAMETER: 7 FT<br>A/N: 460582 | D807 | | | | |
| TANK, FLASH, MAIN RICH MDEA, RPV 2685, HYDROCARBON/RICH MDEA, SOUR WATER BACKUP, (COMMON WITH NO. 1 & 2 MDEA REGENERATION UNIT), LENGTH: 40 FT ; DIAMETER: 12 FT<br>A/N: 515388 | D796 | | | **BENZENE**: (10) [**40CFR 61 Subpart FF, #2, 12-4-2003**];<br>**VOC**: 500 PPMV (8) [**40CFR 61 Subpart FF, 12-4-2003**] | E193.11, H23.12 |
| DRUM, RICH MDEA FLASH, RPV 2668, HYDROCARBON/RICH MDEA, (STANDBY, COMMON WITH NO.1& 2 MDEA REGENERATION UNITS), LENGTH: 20 FT ; DIAMETER: 6 FT<br>A/N: 460582 | D2712 | | | **BENZENE**: (10) [**40CFR 61 Subpart FF, #2, 12-4-2003**];<br>**VOC**: 500 PPMV (8) [**40CFR 61 Subpart FF, 12-4-2003**] | E193.12, H23.12 |
| FUGITIVE EMISSIONS, MISCELLANEOUS<br>A/N: 460582 | D2518 | | | **HAP**: (10) [**40CFR 63 Subpart CC, #5A, 6-23-2003**] | H23.3 |
| **System 11: METHYLDIETHANOLAMINE REGENERATION SYSTEM NO.3** | | | | | S13.2, S15.1, S56.1 |
| COLUMN, MDEA REGENERATOR, RPV-1450, HEIGHT: 44 FT 3 IN; DIAMETER: 7 FT<br>A/N: 435126 | D808 | | | | |
| TANK, FLASH, RPV 1451, HYDROCARBON, (COMMON TO NO. 3 AND NO. 4 MDEA REGENERATION UNIT), LENGTH: 40 FT ; DIAMETER: 12 FT<br>A/N: 435126 | D809 | C1302 | | **HAP**: (10) [**40CFR 63 Subpart CC, #2, 6-23-2003**] | |

* (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
# BP WEST COAST PROD.LLC BP CARSON REF.

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

| Equipment | ID No. | Connected To | RECLAIM Source Type/ Monitoring Unit | Emissions * And Requirements | Conditions |
|---|---|---|---|---|---|
| **Process 12: TREATING/STRIPPING** | | | | | |
| TANK, FLASH, RPV 1453, HYDROCARBON, LENGTH: 25 FT ; DIAMETER: 8 FT<br>A/N: 435126 | D810 | | | | |
| ACCUMULATOR, RPV 1455, MDEA REGENERATOR OVERHEAD, LENGTH: 12 FT 3 IN; DIAMETER: 5 FT 7 IN<br>A/N: 435126 | D812 | | | **BENZENE**: (10) [**40CFR 61 Subpart FF, #2, 12-4-2003**];<br>**VOC**: 500 PPMV (8) [**40CFR 61 Subpart FF, 12-4-2003**] | H23.12 |
| POT, RPV 1456, MDEA REGENERATOR REBOILER CONDENSATE, LENGTH: 4 FT 9 IN; DIAMETER: 2 FT<br>A/N: 435126 | D813 | | | | |
| FILTER, ACTIVATED CARBON, RPV-2686, (COMMON WITH MDEA REGENERATION UNITS NOS. 1-5), LENGTH: 9 FT ; DIAMETER: 6 FT 6 IN<br>A/N: 515388 | D797 | | | | |
| FILTER, CARTRIDGE PREFILTER, RPV-5908, (COMMON WITH MDEA REGENERATION UNITS NOS. 1-5)<br>A/N: 515388 | D798 | | | | |
| FILTER, CARTRIDGE AFTERFILTER, RPV-5909, (COMMON WITH MDEA REGENERATION UNITS NOS. 1-5)<br>A/N: 515388 | D799 | | | | |
| FILTER, NORTH AREA HIGH CAPACITY FILTER, RPV-6741, (COMMON WITH MDEA REGENERATION UNITS NOS. 1-5)<br>A/N: 515388 | D2936 | | | | |

* (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
# BP WEST COAST PROD.LLC BP CARSON REF.

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

| Equipment | ID No. | Connected To | RECLAIM Source Type/ Monitoring Unit | Emissions * And Requirements | Conditions |
|---|---|---|---|---|---|
| **Process 12: TREATING/STRIPPING** | | | | | |
| FILTER, SOUTH AREA HIGH CAPACITY FILTER, RPV-6837, (COMMON WITH MDEA REGENERATION UNITS NOS. 1-5) A/N: 515388 | D2937 | | | | |
| FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 435126 | D2519 | | | **HAP**: (10) [**40CFR 63 Subpart CC, #5A, 6-23-2003**] | H23.3 |
| **System 12: METHYLDIETHANOLAMINE REGENERATION SYSTEM NO.4** | | | | | S13.2, S15.1, S56.1 |
| COLUMN, MDEA REGENERATOR, RPV-1475, HEIGHT: 44 FT 3 IN; DIAMETER: 7 FT A/N: 435128 | D814 | | | | |
| TANK, FLASH, RPV 1478, HYDROCARBON, LENGTH: 25 FT ; DIAMETER: 8 FT A/N: 435128 | D815 | C1302 | | **BENZENE**: (10) [**40CFR 61 Subpart FF, #2, 12-4-2003**]; **HAP**: (10) [**40CFR 63 Subpart CC, #2, 6-23-2003**]; **VOC**: 500 PPMV (8) [**40CFR 61 Subpart FF, 12-4-2003**] | H23.12 |
| ACCUMULATOR, RPV 1480, MDEA REGENERATOR OVERHEAD, LENGTH: 12 FT 3 IN; DIAMETER: 5 FT 7 IN A/N: 435128 | D817 | | | **BENZENE**: (10) [**40CFR 61 Subpart FF, #2, 12-4-2003**]; **VOC**: 500 PPMV (8) [**40CFR 61 Subpart FF, 12-4-2003**] | H23.12 |
| POT, RPV 1481, CONDENSATE, LENGTH: 4 FT 9 IN; DIAMETER: 2 FT A/N: 435128 | D818 | | | | |

* (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
# BP WEST COAST PROD.LLC BP CARSON REF.

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

| Equipment | ID No. | Connected To | RECLAIM Source Type/ Monitoring Unit | Emissions * And Requirements | Conditions |
|---|---|---|---|---|---|
| **Process 12: TREATING/STRIPPING** | | | | | |
| TANK, FLASH, RPV 1451, HYDROCARBON, (COMMON TO NO. 3 AND NO. 4 MDEA REGENERATION UNIT), LENGTH: 40 FT ; DIAMETER: 12 FT<br>A/N: 435126 | D809 | C1302 | | **HAP**: (10) [**40CFR 63 Subpart CC, #2, 6-23-2003**] | |
| FILTER, ACTIVATED CARBON, RPV-2686, (COMMON WITH MDEA REGENERATION UNITS NOS. 1-5), LENGTH: 9 FT ; DIAMETER: 6 FT 6 IN<br>A/N: 515388 | D797 | | | | |
| FILTER, CARTRIDGE PREFILTER, RPV-5908, (COMMON WITH MDEA REGENERATION UNITS NOS. 1-5)<br>A/N: 515388 | D798 | | | | |
| FILTER, CARTRIDGE AFTERFILTER, RPV-5909, (COMMON WITH MDEA REGENERATION UNITS NOS. 1-5)<br>A/N: 515388 | D799 | | | | |
| FILTER, NORTH AREA HIGH CAPACITY FILTER, RPV-6741, (COMMON WITH MDEA REGENERATION UNITS NOS. 1-5)<br>A/N: 515388 | D2936 | | | | |
| FILTER, SOUTH AREA HIGH CAPACITY FILTER, RPV-6837, (COMMON WITH MDEA REGENERATION UNITS NOS. 1-5)<br>A/N: 515388 | D2937 | | | | |
| FUGITIVE EMISSIONS, MISCELLANEOUS<br>A/N: 435128 | D2520 | | | **HAP**: (10) [**40CFR 63 Subpart CC, #5A, 6-23-2003**] | H23.3 |

* (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
# BP WEST COAST PROD.LLC BP CARSON REF.

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

| Equipment | ID No. | Connected To | RECLAIM Source Type/ Monitoring Unit | Emissions * And Requirements | Conditions |
|---|---|---|---|---|---|
| **Process 12: TREATING/STRIPPING** | | | | | |
| **System 13: METHYLDIETHANOLAMINE REGENERATION SYSTEM NO.5** | | | | | S13.2, S15.1, S56.1 |
| TOWER, REGENERATOR, RPV-5421, HEIGHT: 60 FT ; DIAMETER: 8 FT 6 IN<br>A/N: 520936 | D822 | | | | |
| TANK, RPV 5422, #5 RICH MDEA SURGE DRUM, HEIGHT: 47 FT ; DIAMETER: 14 FT<br>A/N: 520936 | D823 | | | | |
| ACCUMULATOR, RPV-5423, REGENERATOR OVERHEAD, HEIGHT: 18 FT ; DIAMETER: 5 FT<br>A/N: 520936 | D824 | | | | |
| DRUM, ATMOSPHERIC, RPV 5449, CONDENSATE, HEIGHT: 13 FT 9 IN; DIAMETER: 7 FT<br>A/N: 520936 | D827 | | | | |
| DRUM, BLOWDOWN, RPV-5460, HEIGHT: 8 FT ; DIAMETER: 4 FT<br>A/N: 520936 | D828 | | | | |
| FILTER, ACTIVATED CARBON, RPV-2686, (COMMON WITH MDEA REGENERATION UNITS NOS. 1-5), LENGTH: 9 FT ; DIAMETER: 6 FT 6 IN<br>A/N: 515388 | D797 | | | | |
| FILTER, CARTRIDGE PREFILTER, RPV-5908, (COMMON WITH MDEA REGENERATION UNITS NOS. 1-5)<br>A/N: 515388 | D798 | | | | |

* (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
# BP WEST COAST PROD.LLC BP CARSON REF.

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

| Equipment | ID No. | Connected To | RECLAIM Source Type/ Monitoring Unit | Emissions * And Requirements | Conditions |
|---|---|---|---|---|---|
| **Process 12: TREATING/STRIPPING** | | | | | |
| FILTER, CARTRIDGE AFTERFILTER, RPV-5909, (COMMON WITH MDEA REGENERATION UNITS NOS. 1-5) A/N: 515388 | D799 | | | | |
| FILTER, NORTH AREA HIGH CAPACITY FILTER, RPV-6741, (COMMON WITH MDEA REGENERATION UNITS NOS. 1-5) A/N: 515388 | D2936 | | | | |
| FILTER, SOUTH AREA HIGH CAPACITY FILTER, RPV-6837, (COMMON WITH MDEA REGENERATION UNITS NOS. 1-5) A/N: 515388 | D2937 | | | | |
| FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 520936 | D2521 | | | **HAP**: (10) [**40CFR 63 Subpart CC, #5A, 6-23-2003**] | H23.3 |
| **System 14: NORTH SOUR WATER TREATMENT SYSTEM** | | | | | S13.2, S31.6 |
| VESSEL, FLASH, RPV 2257, SOUR WATER, 1000 BBL; DIAMETER: 12 FT ; LENGTH: 48 FT A/N: 519284 | D780 | | | **BENZENE**: (10) [**40CFR 61 Subpart FF, #2, 12-4-2003**]; **VOC**: 500 PPMV (8) [**40CFR 61 Subpart FF, 12-4-2003**] | E336.5, E336.12, H23.12 |
| KNOCK OUT POT, RPV 2624, FLASH VESSEL, HEIGHT: 12 FT ; DIAMETER: 6 FT A/N: 519284 | D781 | | | | E336.5, E336.12 |
| TANK, SPHERE, NO.710, SOUR WATER, WITH FUEL GAS BLANKET,COMMON TO NORTH & SOUTH SOUR WATER TREATMENT SYSTEMS, 40600 BBL; DIAMETER: 75 FT 9 IN A/N: 519284 | D2728 | | | **BENZENE**: (10) [**40CFR 61 Subpart FF, #2, 12-4-2003**]; **VOC**: 500 PPMV (8) [**40CFR 61 Subpart FF, 12-4-2003**] | E71.18, E336.8, E336.10, H23.12, K67.15 |

* (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
# BP WEST COAST PROD.LLC BP CARSON REF.

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

| Equipment | ID No. | Connected To | RECLAIM Source Type/ Monitoring Unit | Emissions * And Requirements | Conditions |
|---|---|---|---|---|---|
| **Process 12: TREATING/STRIPPING** | | | | | |
| TANK, SURGE/FEED, FIXED ROOF, NO.774, SOUR WATER, WITH FUEL GAS BLANKET, COMMON TO NORTH & SOUTH SOUR WATER TREATMENT SYSTEMS, 54000 BBL; DIAMETER: 90 FT ; HEIGHT: 48 FT A/N: 519284 | D1113 | | | **BENZENE**: (10) [**40CFR 61 Subpart FF, #2, 12-4-2003**]; **VOC**: 500 PPMV (8) [**40CFR 61 Subpart FF, 12-4-2003**] | E71.17, E336.2, H23.12, K67.15 |
| TANK, SURGE/FEED, FIXED ROOF, NO.775, SOUR WATER, WITH FUEL GAS BLANKET, COMMON TO NORTH & SOUTH SOUR WATER TREATMENT SYSTEMS, 54000 BBL; DIAMETER: 90 FT ; HEIGHT: 48 FT A/N: 519284 | D1114 | | | **BENZENE**: (10) [**40CFR 61 Subpart FF, #2, 12-4-2003**]; **VOC**: 500 PPMV (8) [**40CFR 61 Subpart FF, 12-4-2003**] | E336.2, H23.12, K67.15 |
| COLUMN, STRIPPER A, RPV 4101, SOUR WATER, COMMON TO NORTH & SOUTH SOUR WATER TREATMENT SYSTEMS, HEIGHT: 74 FT ; DIAMETER: 8 FT A/N: 519284 | D838 | | | | E336.8 |
| ACCUMULATOR, STRIPPER A OVERHEAD, RPV 6809, COMMON TO NORTH & SOUTH SOUR WATER TREATMENT SYSTEMS, LENGTH: 10 FT ; DIAMETER: 4 FT A/N: 519284 | D840 | | | | |
| VESSEL, STRIPPER A OVERHEAD SEPARATOR, RPV 4104, COMMON TO NORTH & SOUTH SOUR WATER TREATMENT SYSTEMS, HEIGHT: 10 FT ; DIAMETER: 4 FT A/N: 519284 | D839 | | | | E336.6 |

* (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
# BP WEST COAST PROD.LLC BP CARSON REF.

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

| Equipment | ID No. | Connected To | RECLAIM Source Type/ Monitoring Unit | Emissions * And Requirements | Conditions |
|---|---|---|---|---|---|
| **Process 12: TREATING/STRIPPING** | | | | | |
| COLUMN, STRIPPER B, RPV 4100, SOUR WATER, COMMON TO NORTH & SOUTH SOUR WATER TREATMENT SYSTEMS, HEIGHT: 74 FT ; DIAMETER: 8 FT<br>A/N: 519284 | D841 | | | | E336.8 |
| ACCUMULATOR, STRIPPER B OVERHEAD, RPV 6807, COMMON TO NORTH & SOUTH SOUR WATER TREATMENT SYSTEMS, LENGTH: 8 FT 9 IN; DIAMETER: 4 FT<br>A/N: 519284 | D843 | | | | |
| VESSEL, STRIPPER B OVERHEAD SEPARATOR, RPV 4105, COMMON TO NORTH & SOUTH SOUR WATER TREATMENT SYSTEMS, HEIGHT: 10 FT ; DIAMETER: 4 FT<br>A/N: 519284 | D842 | | | | E336.6 |
| FUGITIVE EMISSIONS, MISCELLANEOUS<br>A/N: 519284 | D2514 | | | **HAP**: (10) [**40CFR 63 Subpart CC, #5A, 6-23-2003**] | H23.3 |
| **System 15: SOUTH SOUR WATER TREATMENT SYSTEM** | | | | | S13.2, S31.6 |
| VESSEL, FLASH, RPV 2293, SOUR WATER, 1000 BBL; DIAMETER: 12 FT ; LENGTH: 48 FT<br>A/N: 448770 | D844 | | | **BENZENE**: (10) [**40CFR 61 Subpart FF, #2, 12-4-2003**];<br>**VOC**: 500 PPMV (8) [**40CFR 61 Subpart FF, 12-4-2003**] | E336.5, E336.12, H23.12 |
| VESSEL, FLASH, RPV 5924, SOUR WATER, SPARE, LENGTH: 18 FT 4 IN; DIAMETER: 10 FT<br>A/N: 448770 | D2938 | | | **BENZENE**: (10) [**40CFR 61 Subpart FF, #2, 12-4-2003**];<br>**VOC**: 500 PPMV (8) [**40CFR 61 Subpart FF, 12-4-2003**] | E336.5, E336.12, H23.12 |

* (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
# BP WEST COAST PROD.LLC BP CARSON REF.

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

| Equipment | ID No. | Connected To | RECLAIM Source Type/ Monitoring Unit | Emissions * And Requirements | Conditions |
|---|---|---|---|---|---|
| **Process 12: TREATING/STRIPPING** | | | | | |
| TANK, SPHERE, NO.710, SOUR WATER, WITH FUEL GAS BLANKET,COMMON TO NORTH & SOUTH SOUR WATER TREATMENT SYSTEMS, 40600 BBL; DIAMETER: 75 FT 9 IN<br>A/N: 519284 | D2728 | | | **BENZENE**: (10) [**40CFR 61 Subpart FF, #2, 12-4-2003**];<br>**VOC**: 500 PPMV (8) [**40CFR 61 Subpart FF, 12-4-2003**] | E71.18, E336.8, E336.10, H23.12, K67.15 |
| TANK, SURGE/FEED, FIXED ROOF, NO.774, SOUR WATER, WITH FUEL GAS BLANKET, COMMON TO NORTH & SOUTH SOUR WATER TREATMENT SYSTEMS, 54000 BBL; DIAMETER: 90 FT ; HEIGHT: 48 FT<br>A/N: 519284 | D1113 | | | **BENZENE**: (10) [**40CFR 61 Subpart FF, #2, 12-4-2003**];<br>**VOC**: 500 PPMV (8) [**40CFR 61 Subpart FF, 12-4-2003**] | E71.17, E336.2, H23.12, K67.15 |
| TANK, SURGE/FEED, FIXED ROOF, NO.775, SOUR WATER, WITH FUEL GAS BLANKET, COMMON TO NORTH & SOUTH SOUR WATER TREATMENT SYSTEMS, 54000 BBL; DIAMETER: 90 FT ; HEIGHT: 48 FT<br>A/N: 519284 | D1114 | | | **BENZENE**: (10) [**40CFR 61 Subpart FF, #2, 12-4-2003**];<br>**VOC**: 500 PPMV (8) [**40CFR 61 Subpart FF, 12-4-2003**] | E336.2, H23.12, K67.15 |
| COLUMN, STRIPPER A, RPV 4101, SOUR WATER, COMMON TO NORTH & SOUTH SOUR WATER TREATMENT SYSTEMS, HEIGHT: 74 FT ; DIAMETER: 8 FT<br>A/N: 519284 | D838 | | | | E336.8 |
| ACCUMULATOR, STRIPPER A OVERHEAD, RPV 6809, COMMON TO NORTH & SOUTH SOUR WATER TREATMENT SYSTEMS, LENGTH: 10 FT ; DIAMETER: 4 FT<br>A/N: 519284 | D840 | | | | |

* (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
# BP WEST COAST PROD.LLC BP CARSON REF.

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

| Equipment | ID No. | Connected To | RECLAIM Source Type/ Monitoring Unit | Emissions * And Requirements | Conditions |
|---|---|---|---|---|---|
| **Process 12: TREATING/STRIPPING** | | | | | |
| VESSEL, STRIPPER A OVERHEAD SEPARATOR, RPV 4104, COMMON TO NORTH & SOUTH SOUR WATER TREATMENT SYSTEMS, HEIGHT: 10 FT ; DIAMETER: 4 FT<br>A/N: 519284 | D839 | | | | E336.6 |
| COLUMN, STRIPPER B, RPV 4100, SOUR WATER, COMMON TO NORTH & SOUTH SOUR WATER TREATMENT SYSTEMS, HEIGHT: 74 FT ; DIAMETER: 8 FT<br>A/N: 519284 | D841 | | | | E336.8 |
| ACCUMULATOR, STRIPPER B OVERHEAD, RPV 6807, COMMON TO NORTH & SOUTH SOUR WATER TREATMENT SYSTEMS, LENGTH: 8 FT 9 IN; DIAMETER: 4 FT<br>A/N: 519284 | D843 | | | | |
| VESSEL, STRIPPER B OVERHEAD SEPARATOR, RPV 4105, COMMON TO NORTH & SOUTH SOUR WATER TREATMENT SYSTEMS, HEIGHT: 10 FT ; DIAMETER: 4 FT<br>A/N: 519284 | D842 | | | | E336.6 |
| FUGITIVE EMISSIONS, MISCELLANEOUS<br>A/N: 448770 | D2527 | | | **HAP**: (10) [**40CFR 63 Subpart CC, #5A, 6-23-2003**] | H23.3 |
| **System 16: SOUR WATER OXIDIZER NO.2** | | | | | S13.12, S56.1 |
| TANK, FEED, SODIUM HYPOCHLORITE/BLEACH INJECTION, RW0036, 119 BBL, HEIGHT: 9 FT ; DIAMETER: 10 FT<br>A/N: 457431 | D2743 | | | | |

* (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
# BP WEST COAST PROD.LLC BP CARSON REF.

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

| Equipment | ID No. | Connected To | RECLAIM Source Type/ Monitoring Unit | Emissions * And Requirements | Conditions |
|---|---|---|---|---|---|
| **Process 12: TREATING/STRIPPING** | | | | | |
| TANK, SURGE TANK, FIXED ROOF, TK-823, 5000 BBL,, HEIGHT: 40 FT ; DIAMETER: 25 FT<br>A/N: 457431 | D2744 | | | | |
| COLUMN, OXIDIZER NO. 2, RPV-1931,, HEIGHT: 52 FT ; DIAMETER: 9 FT<br>A/N: 457431 | D829 | | | | |
| VESSEL, FLASH, RPV-1933,, HEIGHT: 17 FT ; DIAMETER: 5 FT 6 IN<br>A/N: 457431 | D830 | | | **HAP**: (10) [**40CFR 63 Subpart CC, #2, 6-23-2003**] | E336.13 |
| FUGITIVE EMISSIONS, MISCELLANEOUS<br>A/N: 457431 | D2882 | | | **HAP**: (10) [**40CFR 63 Subpart CC, #5A, 6-23-2003**] | H23.3 |
| **System 17: SOUR WATER OXIDIZER NO.3** | | | | | S13.12, S56.1 |
| COLUMN, OXIDIZER NO. 3, RPV-3190,, HEIGHT: 42 FT 1 IN; DIAMETER: 12 FT<br>A/N: 433067 | D831 | | | | |
| VESSEL, FLASH DRUM, RPV-3191, HEIGHT: 24 FT ; DIAMETER: 8 FT<br>A/N: 433067 | D832 | | | **HAP**: (10) [**40CFR 63 Subpart CC, #2, 6-23-2003**] | E336.13 |
| TANK, FIXED ROOF, FEED (SOUR WATER), TK-210B, (COMMON TO NO. 2 AND 3 OXIDIZER UNIT), 1200 BBL; DIAMETER: 24 FT ; HEIGHT: 15 FT<br>A/N: 433067 | D833 | | | | E336.2, K67.14 |
| FUGITIVE EMISSIONS, MISCELLANEOUS<br>A/N: 433067 | D2883 | | | **HAP**: (10) [**40CFR 63 Subpart CC, #5A, 6-23-2003**] | H23.3 |
| **System 20: SPENT CAUSTIC SEPARATION SYSTEM** | | | | | S56.1 |

* (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
# BP WEST COAST PROD.LLC BP CARSON REF.

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

| Equipment | ID No. | Connected To | RECLAIM Source Type/ Monitoring Unit | Emissions * And Requirements | Conditions |
|---|---|---|---|---|---|
| **Process 12: TREATING/STRIPPING** | | | | | |
| STORAGE TANK, FIXED ROOF, NO. 634, 1063 BBL; DIAMETER: 20 FT ; HEIGHT: 20 FT<br>A/N: 395496 | D847 | D1313 D1314 D1656 D2807 | | | |
| STORAGE TANK, FIXED ROOF, NO. 635, 1063 BBL; DIAMETER: 20 FT ; HEIGHT: 20 FT<br>A/N: 395496 | D848 | D1313 D1314 D1656 D2807 | | | |
| FUGITIVE EMISSIONS, MISCELLANEOUS<br>A/N: 395496 | D2528 | | | **HAP**: (10) [**40CFR 63 Subpart CC, #5A, 6-23-2003**] | H23.3 |
| **System 22: DIESEL OIL DEHAZING FACILITY** | | | | | S56.1 |
| TOWER, SALT, RPV-702, NORTH, HEIGHT: 22 FT ; DIAMETER: 8 FT<br>A/N: 395731 | D853 | | | | |
| TOWER, SALT, RPV-768, SOUTH, HEIGHT: 25 FT 6 IN; DIAMETER: 10 FT<br>A/N: 395731 | D854 | | | | |
| FUGITIVE EMISSIONS, MISCELLANEOUS<br>A/N: 395731 | D2529 | | | | H23.3 |
| **System 23: GAS SCRUBBER SYSTEM (NEXT TO # 9 COOLING TOWER)** | | | | | |
| KNOCK OUT POT, RPV-2290, HEIGHT: 6 FT 6 IN; DIAMETER: 2 FT 6 IN<br>A/N: 435133 | D855 | | | | |
| SCRUBBER, GAS, RPV-3214, CAPACITY 1500 GALLONS, HEIGHT: 16 FT ; DIAMETER: 4 FT<br>A/N: 435133 | D857 | | | | |

* (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
# BP WEST COAST PROD.LLC BP CARSON REF.

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

| Equipment | ID No. | Connected To | RECLAIM Source Type/ Monitoring Unit | Emissions * And Requirements | Conditions |
|---|---|---|---|---|---|
| **Process 12: TREATING/STRIPPING** | | | | | |
| KNOCK OUT POT, RPV-3215, CAPACITY 340 GALLONS, HEIGHT: 6 FT 6 IN; DIAMETER: 3 FT<br>A/N: 435133 | D858 | | | | |
| SETTLING TANK, 155 GALS; DIAMETER: 3 FT ; HEIGHT: 3 FT<br>A/N: 435133 | D859 | | | | |
| FUGITIVE EMISSIONS, MISCELLANEOUS<br>A/N: 435133 | D2530 | | | | H23.3 |
| **System 24: REFINERY GAS TREATING( NO.1 MEROX TRAIN)** | | | | | S56.1 |
| ABSORBER, MEROX, RPV 4962, HEIGHT: 102 FT 9 IN; DIAMETER: 5 FT<br>A/N: 414404 | D860 | | | | D12.11, D90.3, E71.5 |
| KNOCK OUT POT, RPV-4963, HEIGHT: 11 FT 6 IN; DIAMETER: 5 FT<br>A/N: 414404 | D861 | | | | |
| COLUMN, OXIDIZER, RPV-4964, HEIGHT: 15 FT 6 IN; DIAMETER: 2 FT<br>A/N: 414404 | D862 | D863 | | | |
| VESSEL, SEPARATOR, RPV 4965, DISULFIDE OIL, HORIZONTAL SECTION, VERTICAL SECTION: DIA 1 FT 4 IN; HEIGHT 6 FT, LENGTH: 19 FT 6 IN; DIAMETER: 4 FT<br>A/N: 414404 | D863 | D862 D2003 | | | |
| FILTER, SAND, RPV-4823, HEIGHT: 7 FT ; DIAMETER: 2 FT<br>A/N: 414404 | D864 | | | | |

* (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
# BP WEST COAST PROD.LLC BP CARSON REF.

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

| Equipment | ID No. | Connected To | RECLAIM Source Type/ Monitoring Unit | Emissions * And Requirements | Conditions |
|---|---|---|---|---|---|
| **Process 12: TREATING/STRIPPING** | | | | | |
| DRUM, SPENT CAUSTIC DEGASSING, RPV-4972, HEIGHT: 10 FT ; DIAMETER: 2 FT 6 IN<br>A/N: 414404 | D865 | | | | |
| TANK, VENT, RPV-4971, COMMON TO REFINERY GAS TREATING( NO.1 AND NO.2 MEROX TRAIN), HEIGHT: 6 FT ; DIAMETER: 2 FT<br>A/N: 414404 | D2003 | D863 D869 | | | E71.20 |
| FUGITIVE EMISSIONS, MISCELLANEOUS<br>A/N: 414404 | D2531 | | | | H23.3 |
| **System 25: REFINERY GAS TREATING( NO.2 MEROX TRAIN)** | | | | | S56.1 |
| ABSORBER, MEROX, RPV 4967, HEIGHT: 102 FT 9 IN; DIAMETER: 5 FT<br>A/N: 414405 | D866 | | | | D12.11, D90.3, E71.5 |
| KNOCK OUT POT, RPV-4968, HEIGHT: 11 FT 6 IN; DIAMETER: 5 FT<br>A/N: 414405 | D867 | | | | |
| COLUMN, OXIDIZER, RPV-4969, HEIGHT: 15 FT 6 IN; DIAMETER: 2 FT<br>A/N: 414405 | D868 | D869 | | | |
| VESSEL, SEPARATOR, RPV 4970, DISULFIDE OIL, HORIZONTAL SECTION, VERTICAL SECTION: DIA 1 FT 4 IN; HEIGHT 6 FT, HEIGHT: 19 FT 6 IN; DIAMETER: 4 FT<br>A/N: 414405 | D869 | D868 D2003 | | | |

* (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
# BP WEST COAST PROD.LLC BP CARSON REF.

## 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 |
|---|---|---|---|---|---|
| **Process 12: TREATING/STRIPPING** | | | | | |
| FILTER, SAND, RPV-4825, HEIGHT: 7 FT ; DIAMETER: 2 FT<br>A/N: 414405 | D870 | | | | |
| DRUM, SPENT CAUSTIC DEGASSING, RPV-4973, HEIGHT: 10 FT ; DIAMETER: 2 FT 6 IN<br>A/N: 414405 | D871 | | | | |
| TANK, VENT, RPV-4971, COMMON TO REFINERY GAS TREATING( NO.1 AND NO.2 MEROX TRAIN), HEIGHT: 6 FT ; DIAMETER: 2 FT<br>A/N: 414404 | D2003 | D863 D869 | | | E71.20 |
| FUGITIVE EMISSIONS, MISCELLANEOUS<br>A/N: 414405 | D2532 | | | | H23.3 |
| **System 26: CAUSTIC NEUTRALIZATION BASIN** | | | | | |
| SUMP, CAUSTIC NEUTRALIZATION BASIN, 24,923 GALLONS CAPACITY, WIDTH: 14 FT ; DEPTH: 8 FT 6 IN; LENGTH: 28 FT 1 IN<br>A/N: 395785 | D872 | | | | |
| FUGITIVE EMISSIONS, MISCELLANEOUS<br>A/N: 395785 | D2536 | | | | H23.3 |
| **System 27: SPENT ACID STORAGE FACILITY** | | | | | S56.1 |
| STORAGE TANK, FIXED ROOF, RPV 180, SPENT ACID, WITH NITROGEN BLANKET, 906 BBL; DIAMETER: 12 FT ; HEIGHT: 37 FT<br>A/N: 415670 | D873 | D875 | | | |

* (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
# BP WEST COAST PROD.LLC BP CARSON REF.

## 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 |
|---|---|---|---|---|---|
| **Process 12: TREATING/STRIPPING** | | | | | |
| STORAGE TANK, FIXED ROOF, RPV 280, SPENT ACID, WITH NITROGEN BLANKET, 906 BBL; DIAMETER: 12 FT ; HEIGHT: 37 FT<br>A/N: 415670 | D874 | D875 | | | |
| VESSEL, DUAL CHAMBER, FOAM TANK AND CAUSTIC SCRUBBER, HEIGHT: 38 FT ; DIAMETER: 5 FT<br>A/N: 415670 | D875 | D873 D874<br>D1313 D1314<br>D1656 D2807 | | | |
| FUGITIVE EMISSIONS, MISCELLANEOUS<br>A/N: 415670 | D2500 | | | **HAP**: (10) [**40CFR 63 Subpart CC, #5A, 6-23-2003**] | H23.3 |
| **Process 13: SULFUR RECOVERY** | | | | | |
| **System 1: CLAUS SULFUR RECOVERY UNIT "A"** | | | | | S13.10, S15.30, S18.5, S53.1 |
| FURNACE, MUFFLE, RPV-4146, ACID GAS, NATURAL GAS, PROCESS GAS, WITH WASTE HEAT BOILER, 22.165 MMBTU/HR<br>A/N: 397368 | D2654 | C896 C2406 | | **H2S**: 10 PPMV (5) [**RULE 468, 10-8-1976**] | |
| REACTOR, CLAUS A, RPV-4128, HYDROGEN SULFIDE, THREE STAGES, LENGTH: 44 FT 6 IN; DIAMETER: 13 FT<br>A/N: 397368 | D879 | | | | |
| CONDENSER, SULFUR, RPV-4143, THREE STAGES, SHELL AND TUBE TYPE, LENGTH: 18 FT ; DIAMETER: 2 FT 6 IN<br>A/N: 397368 | D2602 | | | | |

* (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
# BP WEST COAST PROD.LLC BP CARSON REF.

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

| Equipment | ID No. | Connected To | RECLAIM Source Type/ Monitoring Unit | Emissions * And Requirements | Conditions |
|---|---|---|---|---|---|
| **Process 13: SULFUR RECOVERY** | | | | | |
| CONDENSER, FINAL SULFUR, RPV-4149, SHELL AND TUBE TYPE, LENGTH: 18 FT ; DIAMETER: 2 FT 6 IN<br>A/N: 397368 | D881 | | | **H2S**: 10 PPMV (5) [**RULE 468, 10-8-1976**]; **HAP**: (10) [**40CFR 63 Subpart UUU, #4, 4-20-2006**]; **SOX**: 250 PPMV (8) [**40CFR 60 Subpart J, 6-24-2008**]; **SOX**: 500 PPMV (5) [**RULE 407, 4-2-1982**] | |
| TANK, SULFUR DEGASSING, RW-6844, PRESSURIZED WITH TWO SULFUR CIRCULATION PUMPS; VENTED TO TAIL GAS UNIT, LENGTH: 13 FT 6 IN; DIAMETER: 6 FT 6 IN<br>A/N: 397368 | D2645 | C896 C2406 | | **H2S**: 10 PPMV (5) [**RULE 468, 10-8-1976**] | |
| KNOCK OUT POT, RPV 4125, ACID GAS, SOUTH AREA, COMMON TO CLAUS PLANTS A, B, C & D, HEIGHT: 12 FT ; DIAMETER: 4 FT 6 IN<br>A/N: 397368 | D877 | | | | |
| KNOCK OUT POT, RPV 4126, ACID GAS, NORTH AREA, COMMON TO CLAUS PLANTS A, B, C & D, HEIGHT: 12 FT ; DIAMETER: 4 FT 6 IN<br>A/N: 397368 | D878 | | | | |
| VESSEL, COS/CS2 CONVERTER, "A", RPV-4134, LENGTH: 19 FT ; DIAMETER: 10 FT<br>A/N: 397368 | D880 | | | | |
| VESSEL, RPV 5497, FUEL GAS, HEIGHT: 18 FT ; DIAMETER: 4 FT<br>A/N: 397368 | D882 | | | | |

* (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
# BP WEST COAST PROD.LLC BP CARSON REF.

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

| Equipment | ID No. | Connected To | RECLAIM Source Type/ Monitoring Unit | Emissions * And Requirements | Conditions |
|---|---|---|---|---|---|
| **Process 13: SULFUR RECOVERY** | | | | | |
| FUGITIVE EMISSIONS, MISCELLANEOUS<br>A/N: 397368 | D2613 | | | **HAP**: (10) [**40CFR 63 Subpart CC, #5A, 6-23-2003**] | H23.3 |
| **System 2: CLAUS SULFUR RECOVERY UNIT "B"** | | | | | S13.10, S15.30, S18.5, S53.1 |
| FURNACE, MUFFLE, RPV-4147, ACID GAS, NATURAL GAS, PROCESS GAS, WITH WASTE HEAT BOILER, 22.165 MMBTU/HR<br>A/N: 397363 | D2655 | C896 C2406 | | **H2S**: 10 PPMV (5) [**RULE 468, 10-8-1976**] | |
| REACTOR, CLAUS B, RPV-4130, HYDROGEN SULFIDE, THREE STAGES, LENGTH: 44 FT 6 IN; DIAMETER: 13 FT<br>A/N: 397363 | D883 | | | | |
| CONDENSER, SULFUR, RPV-4144, SHELL AND TUBE TYPE, LENGTH: 18 FT ; DIAMETER: 2 FT 6 IN<br>A/N: 397363 | D2604 | | | | |
| CONDENSER, FINAL SULFUR, RPV-4150, SHELL AND TUBE TYPE, LENGTH: 18 FT ; DIAMETER: 2 FT 6 IN<br>A/N: 397363 | D885 | | | **H2S**: 10 PPMV (5) [**RULE 468, 10-8-1976**]; **HAP**: (10) [**40CFR 63 Subpart UUU, #4, 4-20-2006**]; **SOX**: 250 PPMV (8) [**40CFR 60 Subpart J, 6-24-2008**]; **SOX**: 500 PPMV (5) [**RULE 407, 4-2-1982**] | |
| TANK, SULFUR DEGASSING, RW-6842, PRESSURIZED WITH TWO SULFUR CIRCULATION PUMPS; VENTED TO TAIL GAS UNIT, LENGTH: 13 FT 6 IN; DIAMETER: 6 FT 6 IN<br>A/N: 397363 | D2646 | C896 C2406 | | **H2S**: 10 PPMV (5) [**RULE 468, 10-8-1976**] | |

* (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
# BP WEST COAST PROD.LLC BP CARSON REF.

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

| Equipment | ID No. | Connected To | RECLAIM Source Type/ Monitoring Unit | Emissions * And Requirements | Conditions |
|---|---|---|---|---|---|
| **Process 13: SULFUR RECOVERY** | | | | | |
| KNOCK OUT POT, RPV 4125, ACID GAS, SOUTH AREA, COMMON TO CLAUS PLANTS A, B, C & D, HEIGHT: 12 FT ; DIAMETER: 4 FT 6 IN<br>A/N: 397368 | D877 | | | | |
| KNOCK OUT POT, RPV 4126, ACID GAS, NORTH AREA, COMMON TO CLAUS PLANTS A, B, C & D, HEIGHT: 12 FT ; DIAMETER: 4 FT 6 IN<br>A/N: 397368 | D878 | | | | |
| VESSEL, COS/CS2 CONVERTER, RPV-4135, LENGTH: 19 FT ; DIAMETER: 10 FT<br>A/N: 397363 | D884 | | | | |
| FUGITIVE EMISSIONS, MISCELLANEOUS<br>A/N: 397363 | D2614 | | | **HAP**: (10) [**40CFR 63 Subpart CC, #5A, 6-23-2003**] | H23.3 |
| **System 3: CLAUS SULFUR RECOVERY UNIT "C"** | | | | | S13.10, S15.30, S18.5, S53.1 |
| FURNACE, MUFFLE, RPV-4148, ACID GAS, NATURAL GAS, PROCESS GAS, OXYGEN ENRICHMENT, WITH WASTE HEAT BOILER, 29 MMBTU/HR<br>A/N: 461441 | D2656 | C896 C2406 | | **H2S**: 10 PPMV (5) [**RULE 468, 10-8-1976**] | |
| REACTOR, CLAUS C, RPV-4132, HYDROGEN SULFIDE, THREE STAGES, LENGTH: 44 FT 6 IN; DIAMETER: 13 FT<br>A/N: 461441 | D886 | | | | |

* (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
# BP WEST COAST PROD.LLC BP CARSON REF.

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

| Equipment | ID No. | Connected To | RECLAIM Source Type/ Monitoring Unit | Emissions * And Requirements | Conditions |
|---|---|---|---|---|---|
| **Process 13: SULFUR RECOVERY** | | | | | |
| CONDENSER, SULFUR, RW-6687, SHELL AND TUBE TYPE, LENGTH: 18 FT ; DIAMETER: 2 FT 6 IN<br>A/N: 461441 | D2605 | | | | |
| CONDENSER, FINAL SULFUR, RW-6688, SHELL AND TUBE TYPE, LENGTH: 18 FT ; DIAMETER: 2 FT 6 IN<br>A/N: 461441 | D889 | | | **H2S**: 10 PPMV (5) [**RULE 468, 10-8-1976**]; **HAP**: (10) [**40CFR 63 Subpart UUU, #4, 4-20-2006**]; **SOX**: 250 PPMV (8) [**40CFR 60 Subpart J, 6-24-2008**]; **SOX**: 500 PPMV (5) [**RULE 407, 4-2-1982**] | |
| TANK, SULFUR DEGASSING, RW-6845, PRESSURIZED WITH TWO SULFUR CIRCULATION PUMPS; VENTED TO TAIL GAS UNITS, LENGTH: 13 FT 6 IN; DIAMETER: 6 FT 6 IN<br>A/N: 461441 | D888 | C896 C2406 | | **H2S**: 10 PPMV (5) [**RULE 468, 10-8-1976**] | |
| KNOCK OUT POT, RPV 4125, ACID GAS, SOUTH AREA, COMMON TO CLAUS PLANTS A, B, C & D, HEIGHT: 12 FT ; DIAMETER: 4 FT 6 IN<br>A/N: 397368 | D877 | | | | |
| KNOCK OUT POT, RPV 4126, ACID GAS, NORTH AREA, COMMON TO CLAUS PLANTS A, B, C & D, HEIGHT: 12 FT ; DIAMETER: 4 FT 6 IN<br>A/N: 397368 | D878 | | | | |
| FUGITIVE EMISSIONS, MISCELLANEOUS<br>A/N: 461441 | D2675 | | | **HAP**: (10) [**40CFR 63 Subpart CC, #5A, 6-23-2003**] | H23.3 |
| **System 4: CLAUS SULFUR RECOVERY FACILITY "D"** | | | | | S13.10, S15.30, S18.5, S53.1 |

* (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
# BP WEST COAST PROD.LLC BP CARSON REF.

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

| Equipment | ID No. | Connected To | RECLAIM Source Type/ Monitoring Unit | Emissions * And Requirements | Conditions |
|---|---|---|---|---|---|
| **Process 13: SULFUR RECOVERY** | | | | | |
| KNOCK OUT POT, RPV 5438, AMINE ACID, HEIGHT: 16 FT 6 IN; DIAMETER: 5 FT<br>A/N: 461442 | D890 | | | | |
| VESSEL, CATALYTIC CONVERTER, RPV 5439, HEIGHT: 44 FT ; DIAMETER: 12 FT<br>A/N: 461442 | D891 | | | | |
| REACTOR, RW-0005440.01, REACTION FURNACE, OXYGEN INJECTION, HYDROGEN SULFIDE, WITH ONE BABCOCK DUIKER SIZE 300 BURNER<br>A/N: 461442 | D892 | | | | |
| CONDENSER, SHELL AND TUBE TYPE, RPV-5442, NO. 1, SULFUR, "D", LENGTH: 18 FT ; DIAMETER: 2 FT 6 IN<br>A/N: 461442 | D2606 | | | | |
| CONDENSER, SHELL AND TUBE TYPE, RPV-5444, NO. 2, SULFUR, "D", LENGTH: 18 FT ; DIAMETER: 2 FT 6 IN<br>A/N: 461442 | D2607 | | | | |
| CONDENSER, SHELL AND TUBE TYPE, RPV-5446, NO. 3, SULFUR, "D", LENGTH: 18 FT ; DIAMETER: 2 FT 6 IN<br>A/N: 461442 | D2608 | | | | |
| PIT, ACCUMULATOR, SULFUR, 130 LONG TONS CAPACITY, WIDTH: 8 FT ; DEPTH: 14 FT 8 IN; LENGTH: 38 FT<br>A/N: 461442 | D893 | C910 C2413 | | **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**] | |

* (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
# BP WEST COAST PROD.LLC BP CARSON REF.

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

| Equipment | ID No. | Connected To | RECLAIM Source Type/ Monitoring Unit | Emissions * And Requirements | Conditions |
|---|---|---|---|---|---|
| **Process 13: SULFUR RECOVERY** | | | | | |
| CONDENSER, SHELL AND TUBE, RPV-5448, NO.4, SULFUR FINAL, LENGTH: 15 FT ; DIAMETER: 2 FT 8 IN<br>A/N: 461442 | D894 | | | **H2S**: 10 PPMV (5) [**RULE 468, 10-8-1976**]; **HAP**: (10) [**40CFR 63 Subpart UUU, #4, 4-20-2006**]; **SOX**: 250 PPMV (8) [**40CFR 60 Subpart J, 6-24-2008**]; **SOX**: 500 PPMV (5) [**RULE 407, 4-2-1982**] | |
| FUGITIVE EMISSIONS, MISCELLANEOUS<br>A/N: 461442 | D2615 | | | **HAP**: (10) [**40CFR 63 Subpart CC, #5A, 6-23-2003**] | H23.3 |
| KNOCK OUT POT, RPV 4125, ACID GAS, SOUTH AREA, COMMON TO CLAUS PLANTS A, B, C & D, HEIGHT: 12 FT ; DIAMETER: 4 FT 6 IN<br>A/N: 397368 | D877 | | | | |
| KNOCK OUT POT, RPV 4126, ACID GAS, NORTH AREA, COMMON TO CLAUS PLANTS A, B, C & D, HEIGHT: 12 FT ; DIAMETER: 4 FT 6 IN<br>A/N: 397368 | D878 | | | | |
| **System 5: CLAUS TAIL GAS TREATING UNIT NO. 2** | | | | | S18.1 |
| KNOCK OUT POT, RPV 4121, CLAUS TAIL GAS, HEIGHT: 11 FT ; DIAMETER: 10 FT<br>A/N: | D899 | | | | |
| HEATER, NATURAL GAS, CLAUS TAIL GAS, INLINE TYPE, 9.33 MMBTU/HR<br>A/N: | D907 | | | | |
| REACTOR, NO. 2 TGU, RPV 4117, LENGTH: 23 FT ; DIAMETER: 13 FT<br>A/N: | D895 | | | | |

* (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
# BP WEST COAST PROD.LLC BP CARSON REF.

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

| Equipment | ID No. | Connected To | RECLAIM Source Type/ Monitoring Unit | Emissions * And Requirements | Conditions |
|---|---|---|---|---|---|
| **Process 13: SULFUR RECOVERY** | | | | | |
| ABSORBER, RPV 4118, HEIGHT: 40 FT 3 IN; DIAMETER: 9 FT<br>A/N: | C896 | C910 C2413 | | **HAP**: (10) [**40CFR 63 Subpart UUU, #4, 4-20-2006**] | |
| TOWER, QUENCH, RPV 4119, HEIGHT: 39 FT 6 IN; DIAMETER: 9 FT<br>A/N: | D897 | | | | |
| FILTER, QUENCH TOWER, RPV 4196, FRAM, LENGTH: 3 FT 11 IN; DIAMETER: 1 FT 4 IN<br>A/N: | D903 | | | | |
| REGENERATOR, RPV 4120, COMMON TO TGU NO. 1 & 2, HEIGHT: 56 FT 6 IN; DIAMETER: 7 FT<br>A/N: | D898 | | | | |
| ACCUMULATOR, RPV 4122, REGENERATOR OVERHEAD, COMMON TO TGU NO. 1 & 2, HEIGHT: 5 FT 6 IN; DIAMETER: 3 FT<br>A/N: | D900 | | | | |
| TANK, SURGE, RPV 4123, LEAN MDEA, COMMON TO TGU NO. 1 & 2, HEIGHT: 17 FT ; DIAMETER: 10 FT<br>A/N: | D901 | | | | |
| STORAGE TANK, FIXED ROOF, TK-617, AMINE, COMMON TO TGU NO. 1 & 2, 700 BBL; DIAMETER: 15 FT ; HEIGHT: 24 FT<br>A/N: | D908 | | | **HAP**: (10) [**40CFR 63 Subpart CC, #2, 6-23-2003**] | |

* (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
# BP WEST COAST PROD.LLC BP CARSON REF.

## 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 |
|---|---|---|---|---|---|
| **Process 13: SULFUR RECOVERY** | | | | | |
| STORAGE TANK, FIXED ROOF, TK-618, AMINE, COMMON TO TGU NO. 1 & 2, 700 BBL; DIAMETER: 15 FT ; HEIGHT: 24 FT<br>A/N: | D909 | | | **HAP**: (10) [**40CFR 63 Subpart CC, #2, 6-23-2003**] | K67.5 |
| FUGITIVE EMISSIONS, MISCELLANEOUS<br>A/N: | D2676 | | | **HAP**: (10) [**40CFR 63 Subpart CC, #5A, 6-23-2003**] | H23.3 |
| **System 6: THERMAL OXIDIZERS** | | | | | |
| KNOCK OUT POT, RPV-0656, WASTE GAS, HEIGHT: 12 FT ; DIAMETER: 9 FT<br>A/N: 457434 | D835 | | | | |
| OXIDIZER, THERMAL, NO. 2, WASTE GAS, REFINERY GAS OR NATURAL GAS, J.T.THORPE, 44.5 MMBTU/HR WITH<br>A/N: 457434<br><br>BURNER, JOHN ZINK, WITH 2 BURNERS | C910 | D790 D893 C896 S912 C2406 | 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, C8.2, D82.2, D90.4, D328.1, H23.1 |
| KNOCK OUT POT, SFIA, WASTE GAS, RW-1009, LENGTH: 25 FT ; DIAMETER: 9 FT<br>A/N: 457434 | D2745 | | | | |
| KNOCK OUT POT, SFIA, WASTE GAS BLOWCASE, RW-5196, LENGTH: 6 FT 6 IN; DIAMETER: 2 FT 6 IN<br>A/N: 457434 | D2746 | | | | |

* (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
# BP WEST COAST PROD.LLC BP CARSON REF.

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

| Equipment | ID No. | Connected To | RECLAIM Source Type/ Monitoring Unit | Emissions * And Requirements | Conditions |
|---|---|---|---|---|---|
| **Process 13: SULFUR RECOVERY** | | | | | |
| FILTER, QUENCH TOWER, RPV 4197, FRAM, HEIGHT: 5 FT 5 IN; DIAMETER: 2 FT 8 IN A/N: 457434 | D904 | | | | |
| STACK, HEIGHT: 200 FT ; DIAMETER: 6 FT A/N: 457434 | S912 | C910 C2413 | | | |
| OXIDIZER, THERMAL, NO. 1 WASTE GAS, REFINERY GAS OR NATURAL GAS, 39.5 MMBTU/HR A/N: 457433 | C2413 | D790 D893 C896 S912 C2406 S2415 | NOX: MAJOR SOURCE**; SOX: MAJOR SOURCE** | **CO**: 2000 PPMV (5) [**RULE 407, 4-2-1982**]; **NOX**: 0.06 LBS/MMBTU NATURAL GAS (4) [**RULE 2005, 4-20-2001; RULE 2005, 5-6-2005**]; **PM**: (9) [**RULE 404, 2-7-1986**]; **PM**: 0.1 GRAINS/SCF (5) [**RULE 409, 8-7-1981**]; **SOX**: 21.1 LBS/HR (2) | A72.1, A99.6, B61.4, C8.2, D82.2, D90.4, D328.1, H23.1, K40.1 |
| STACK, HEIGHT: 200 FT ; DIAMETER: 6 FT A/N: 457433 | S2415 | C2413 | | | |
| FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 457433 | D2678 | | | **HAP**: (10) [**40CFR 63 Subpart CC, #5A, 6-23-2003**] | H23.3 |
| **System 7: CLAUS TAIL GAS TREATING UNIT NO. 1** | | | | | S18.1 |
| REGENERATOR, RPV 4120, COMMON TO TGU NO. 1 & 2, HEIGHT: 56 FT 6 IN; DIAMETER: 7 FT A/N: | D898 | | | | |
| ACCUMULATOR, RPV 4122, REGENERATOR OVERHEAD, COMMON TO TGU NO. 1 & 2, HEIGHT: 5 FT 6 IN; DIAMETER: 3 FT A/N: | D900 | | | | |

* (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
# BP WEST COAST PROD.LLC BP CARSON REF.

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

| Equipment | ID No. | Connected To | RECLAIM Source Type/ Monitoring Unit | Emissions * And Requirements | Conditions |
|---|---|---|---|---|---|
| **Process 13: SULFUR RECOVERY** | | | | | |
| TANK, SURGE, RPV 4123, LEAN MDEA, COMMON TO TGU NO. 1 & 2, HEIGHT: 17 FT ; DIAMETER: 10 FT<br>A/N: | D901 | | | | |
| STORAGE TANK, FIXED ROOF, TK-617, AMINE, COMMON TO TGU NO. 1 & 2, 700 BBL; DIAMETER: 15 FT ; HEIGHT: 24 FT<br>A/N: | D908 | | | **HAP**: (10) [**40CFR 63 Subpart CC, #2, 6-23-2003**] | |
| STORAGE TANK, FIXED ROOF, TK-618, AMINE, COMMON TO TGU NO. 1 & 2, 700 BBL; DIAMETER: 15 FT ; HEIGHT: 24 FT<br>A/N: | D909 | | | **HAP**: (10) [**40CFR 63 Subpart CC, #2, 6-23-2003**] | K67.5 |
| FUGITIVE EMISSIONS, MISCELLANEOUS<br>A/N: | D2677 | | | **HAP**: (10) [**40CFR 63 Subpart CC, #5A, 6-23-2003**] | H23.3 |
| **Process 14: LOADING AND UNLOADING** | | | | | |
| **System 1: TWO POSITION LPG TANK TRUCK LOADING/UNLOADING NOS.13 & 9A** | | | | | |
| UNLOADING ARM, TANK TRUCK, TWO(2), ISO BUTANE, WITH TWIN SEAL 4" PLUG SHUT-OFF VALVE, DIAMETER: 2 IN<br>A/N: 396061 | D913 | | | | |
| FUGITIVE EMISSIONS, MISCELLANEOUS<br>A/N: 396061 | D2533 | | | | H23.3 |
| **System 2: MIXED LIGHT ENDS TANK CAR LOADING/UNLOADING** | | | | | S13.13, S46.2, S46.3, S56.1 |
| LOADING AND UNLOADING ARM, TANK CAR, SIX (6), BUTANE, WITH DRY BREAK CONNECTIONS<br>A/N: | D917 | | | | |

* (1) (1A) (1B) Denotes RECLAIM emission factor
(2) (2A) (2B) Denotes RECLAIM emission rate
(3) Denotes RECLAIM concentration limit
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(5) (5A) (5B) Denotes command and control emission limit
(6) Denotes air toxic control rule limit
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(9) See App B for Emission Limits
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# FACILITY PERMIT TO OPERATE
# BP WEST COAST PROD.LLC BP CARSON REF.

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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|---|---|---|---|---|---|
| **Process 14: LOADING AND UNLOADING** | | | | | |
| TANK, SURGE, RPV-4345, BUTANE, HEIGHT: 9 FT 6 IN; DIAMETER: 6 FT A/N: | D923 | | | | |
| KNOCK OUT POT, LOW LINE, RPV-2746, HEIGHT: 8 FT ; DIAMETER: 4 FT A/N: | D924 | | | | |
| FUGITIVE EMISSIONS, MISCELLANEOUS A/N: | D2534 | | | | H23.3 |
| **System 5: SULFUR LOADING** | | | | | |
| LOADING ARM, TANK TRUCK, TWO (2), SULFUR, DIAMETER: 3 IN A/N: 395498 | D960 | | | **SOX**: 500 PPMV (5) [**RULE 407, 4-2-1982**] | |
| LOADING ARM, TANK CAR, TWO (2), SULFUR, DIAMETER: 3 IN A/N: 395498 | D962 | | | **SOX**: 500 PPMV (5) [**RULE 407, 4-2-1982**] | |
| LOADING ARM, TOP, FUEL OIL, WITH SUBMERGED FILL EXTENSION, DIAMETER: 1.5 IN A/N: 395498 | D964 | | | | |
| **System 10: LPG TANK TRUCK LOADING/UNLOADING RACK** | | | | | S46.2, S46.3, S56.1 |
| LOADING AND UNLOADING ARM, TANK TRUCK, FOUR (4), PROPANE/BUTANE, WITH ONE FLEXIBLE LOADING HOSE & ONE INCH FLEXIBLE REPRESSURIZING HOSE TO VRS, DIAMETER: 2 IN A/N: 419005 | D2121 | | | | |
| FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 419005 | D2538 | | | **HAP**: (10) [**40CFR 63 Subpart CC, #5A, 6-23-2003**] | H23.3 |

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

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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|---|---|---|---|---|---|
| **Process 14: LOADING AND UNLOADING** | | | | | |
| **System 11: LPG RAIL CAR LOADING/UNLOADING RACK** | | | | | S46.2, S46.3, S56.1 |
| LOADING AND UNLOADING ARM, RAIL CAR, EIGHT (8), PROPYLENE/PROPANE/BUTANE, WITH TWO FLEXIBLE HOSES & ONE TWO INCH REPRESSURIZING HOSE TO VRS, DIAMETER: 2 IN A/N: 419006 | D2131 | | | | |
| FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 419006 | D2539 | | | | H23.3 |
| **System 12: ODORIZING SYSTEM SERVING LPG LOADING/UNLOADING SYSTEMS** | | | | | S46.2, S46.3 |
| TANK, ODORANT, 1000 GALS A/N: 419007 | D2139 | | | | |
| FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 419007 | D2540 | | | | H23.3 |
| **Process 15: OIL WATER SEPARATION** | | | | | |
| **System 1: WASTE WATER TREATMENT SYSTEM NO.1** | | | | | S13.6 |
| OIL WATER SEPARATOR, FIXED ROOF, LIFT STATION NO.1 , TWO COMPARTMENTS, WITH 108"H OVERFLOW WEIR, WIDTH: 25 FT ; DEPTH: 10 FT ; LENGTH: 96 FT A/N: 471302 | D1627 | C1628 | | **VOC**: 500 PPMV (5) [**RULE 1176, 9-13-1996**] | C266.1, E127.1, E166.1, H23.14, H23.21 |
| FUGITIVE EMISSIONS, DRAINS A/N: 471302 | D2600 | | | **HAP**: (10) [**40CFR 63 Subpart CC, #4, 6-23-2003**] | H23.22 |
| CARBON ADSORBER, TWO(2) IN SERIES, 1000 LBS CARBON EACH A/N: 471302 | C1628 | D1627 | | | D90.1, E128.1, E153.1, K67.16 |
| **System 2: WASTE WATER TREATMENT SYSTEM NO.4** | | | | | S13.6 |

* (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
# BP WEST COAST PROD.LLC BP CARSON REF.

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

| Equipment | ID No. | Connected To | RECLAIM Source Type/ Monitoring Unit | Emissions * And Requirements | Conditions |
|---|---|---|---|---|---|
| **Process 15: OIL WATER SEPARATION** | | | | | |
| OIL WATER SEPARATOR, FIXED ROOF, LIFT STATION NO.4, TWO COMPARTMENTS, WITH 108" OVERRFLOW WEIR, WIDTH: 21 FT ; DEPTH: 12 FT 9 IN; LENGTH: 96 FT A/N: 471303 | D992 | C1630 | | **VOC**: 500 PPMV (5) [**RULE 1176, 9-13-1996**] | E127.1, E166.1, H23.14, H23.21 |
| CARBON ADSORBER, TWO(2) IN SERIES, 1000 LBS CARBON EACH A/N: 471303 | C1630 | D992 | | | D90.1, E128.1, E153.1, K67.16 |
| **System 4: WASTE WATER TREATMENT SYSTEM NO.7** | | | | | S13.6 |
| OIL WATER SEPARATOR, INLET FLUME, COVERED, WIDTH: 8 FT ; DEPTH: 6 FT 6 IN; LENGTH: 63 FT A/N: 471290 | D994 | | | | H23.14 |
| OIL WATER SEPARATOR, FIXED COVER, FOREBAY, WITH OIL SKIMMER, WIDTH: 10 FT ; DEPTH: 6 FT 6 IN; LENGTH: 10 FT A/N: 471290 | D995 | C1002 | | **VOC**: 500 PPMV (5) [**RULE 1176, 9-13-1996**] | H23.14 |
| OIL WATER SEPARATOR, FIXED ROOF, LIFT STATION NO.7, TWO COMPARTMENTS, WITH 108" H OVERFLOW WEIR, WIDTH: 40 FT ; DEPTH: 12 FT 9 IN; LENGTH: 79 FT A/N: 471290 | D997 | C1632 | | **VOC**: 500 PPMV (5) [**RULE 1176, 9-13-1996**] | C266.1, E127.1, E166.1, H23.14, H23.21 |
| OIL WATER SEPARATOR, OUTLET FLUME, COVERED, WIDTH: 6 FT ; DEPTH: 12 FT 9 IN; LENGTH: 40 FT A/N: 471290 | D998 | | | | H23.14 |
| SUMP, WEST RETENTION BASIN, WIDTH: 250 FT ; DEPTH: 23 FT 6 IN; LENGTH: 300 FT A/N: 471290 | D999 | | | | B89.1, D90.9 |

* (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
# BP WEST COAST PROD.LLC BP CARSON REF.

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

| Equipment | ID No. | Connected To | RECLAIM Source Type/ Monitoring Unit | Emissions * And Requirements | Conditions |
|---|---|---|---|---|---|
| **Process 15: OIL WATER SEPARATION** | | | | | |
| STORAGE TANK, DOMED EXTERNAL FLOATING ROOF, N0.19, WASTE WATER, 143000 BBL; DIAMETER: 160 FT ; HEIGHT: 40 FT WITH<br>A/N: 448845<br><br>DOME COVER, GEODESIC<br><br>FLOATING ROOF, PONTOON, WELDED SHELL<br><br>PRIMARY SEAL, CATEGORY A, METALLIC SHOE<br><br>SECONDARY SEAL, RIM MOUNTED, CATEGORY B<br><br>GUIDEPOLE, GASKETED COVER, WITH POLE SLEEVE, WIPER, SLOTTED | D1000 | | | **BENZENE**: (10) [**40CFR 61 Subpart FF, #2, 12-4-2003**] | C1.50, C6.2, H23.4, H23.5, H23.12, H23.14, K67.21 |

* (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
# BP WEST COAST PROD.LLC BP CARSON REF.

## 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 |
|---|---|---|---|---|---|
| **Process 15: OIL WATER SEPARATION** | | | | | |
| STORAGE TANK, DOMED EXTERNAL FLOATING ROOF, N0.20, WASTE WATER, WITH 50 HP MIXER, 143400 BBL; DIAMETER: 160 FT ; HEIGHT: 40 FT WITH<br>A/N: 448846<br><br>DOME COVER, GEODESIC<br><br>FLOATING ROOF, PONTOON, WELDED SHELL<br><br>PRIMARY SEAL, CATEGORY A, METALLIC SHOE<br><br>SECONDARY SEAL, RIM MOUNTED, CATEGORY B<br><br>GUIDEPOLE, GASKETED COVER, WITH POLE SLEEVE, WIPER, SLOTTED | D1001 | | | **BENZENE**: (10) [**40CFR 61 Subpart FF, #2, 12-4-2003**] | C1.50, C6.2, H23.4, H23.5, H23.12, H23.14, K67.21 |
| CARBON ADSORBER, TWO(2) IN SERIES, 1000 LBS CARBON EACH<br>A/N: 471290 | C1002 | D995 | | | D90.1, E128.1, E153.1, K67.16 |
| CARBON ADSORBER, TWO(2) IN SERIES, 1000 LBS CARBON EACH<br>A/N: 471290 | C1632 | D997 | | | D90.1, E128.1, E153.1, K67.16 |
| VESSEL, V101, TANKS 19 & 20 CONTAINMENT SURGE, HEIGHT: 40 FT ; DIAMETER: 10 FT<br>A/N: 471290 | D1634 | | | | |
| **System 5: WASTE WATER TREATMENT SYSTEM NO.8** | | | | | S13.6 |

* (1) (1A) (1B) Denotes RECLAIM emission factor
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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
(10) See section J for NESHAP/MACT requirements

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

## 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 |
|---|---|---|---|---|---|
| **Process 15: OIL WATER SEPARATION** | | | | | |
| OIL WATER SEPARATOR, FIXED COVER, DISTRIBUTION SECTION, WIDTH: 5 FT ; DEPTH: 10 FT 10 IN; LENGTH: 3 FT<br>A/N: 471291 | D1004 | C1635 | | **VOC**: 500 PPMV (5) [**RULE 1176, 9-13-1996**] | H23.21 |
| OIL WATER SEPARATOR, FIXED COVER, SEPARATION SECTION, WIDTH: 5 FT ; DEPTH: 10 FT 10 IN; LENGTH: 24 FT 6 IN<br>A/N: 471291 | D1005 | C1635 | | **VOC**: 500 PPMV (5) [**RULE 1176, 9-13-1996**] | H23.21 |
| OIL WATER SEPARATOR, FIXED COVER, SUMP SECTION, WIDTH: 5 FT ; DEPTH: 10 FT 10 IN; LENGTH: 3 FT<br>A/N: 471291 | D1006 | C1635 | | **VOC**: 500 PPMV (5) [**RULE 1176, 9-13-1996**] | H23.21 |
| CARBON ADSORBER, TWO(2) IN SERIES, 1000 LBS CARBON EACH<br>A/N: 471291 | C1635 | D1004 D1005 D1006 | | | D90.1, E128.1, E153.1, K67.16 |
| **System 6: WASTE WATER FINAL TREATMENT SYSTEM NO.9 &5** | | | | | S13.6 |
| OIL WATER SEPARATOR, FLOATING ROOF, FOUR CHANNELS, WITH AN ADJUSTABLE PIPE SKIMMER (NO. 9 LIFT STATION), WIDTH: 96 FT ; DEPTH: 11 FT ; LENGTH: 150 FT<br>A/N: 471306 | D1007 | | | **VOC**: 500 PPMV (5) [**RULE 1176, 9-13-1996**] | H23.14 |
| OIL WATER SEPARATOR, FIXED ROOF, EFFLUENT FLUME (NO. 9 LIFT STATION), WIDTH: 6 FT ; DEPTH: 11 FT ; LENGTH: 49 FT 6 IN<br>A/N: 471306 | D1008 | C1638 C1640 | | **VOC**: 500 PPMV (5) [**RULE 1176, 9-13-1996**] | E127.1, E166.1, H23.14, H23.21 |

* (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
# BP WEST COAST PROD.LLC BP CARSON REF.

## 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 |
|---|---|---|---|---|---|
| **Process 15: OIL WATER SEPARATION** | | | | | |
| OIL WATER SEPARATOR, FIXED ROOF, EFFLUENT FLUME, WIDTH: 6 FT ; DEPTH: 11 FT ; LENGTH: 49 FT 6 IN<br>A/N: 471306 | D1009 | C1638 C1640 | | **VOC**: 500 PPMV (5) [**RULE 1176, 9-13-1996**] | E127.1, E166.1, H23.14, H23.21 |
| SUMP, FIXED COVER, NO. 5 TRAP FOREBAY, WIDTH: 8 FT ; DEPTH: 17 FT ; LENGTH: 9 FT<br>A/N: 471306 | D1010 | C1638 C1640 | | **VOC**: 500 PPMV (5) [**RULE 1176, 9-13-1996**] | H23.14, H23.21 |
| SUMP, FLOCCULATION TANK FEED FOREBAY, (LOCATED AT NO. 5 TRAP), WIDTH: 16 FT ; DEPTH: 17 FT ; LENGTH: 23 FT<br>A/N: 471306 | D1011 | | | | |
| SUMP, COMBINATION SPARE PUMP BAY, (LOCATED AT NO. 5 TRAP), WIDTH: 16 FT ; DEPTH: 17 FT ; LENGTH: 16 FT<br>A/N: 471306 | D1012 | | | | |
| SUMP, TANK 95 PUMP BAY, (LOCATED AT NO. 5 TRAP), WIDTH: 9 FT ; DEPTH: 17 FT ; LENGTH: 16 FT<br>A/N: 471306 | D1013 | | | | H23.14 |
| SUMP, DAF AFTERBAY/SPLITTER BOX, (LOCATED AT NO. 5 TRAP), WIDTH: 9 FT ; DEPTH: 17 FT ; LENGTH: 19 FT<br>A/N: 471306 | D1014 | | | | H23.14 |
| PIT, BINGHAM PUMP, (LOCATED AT NO. 5 TRAP), WIDTH: 9 FT ; DEPTH: 17 FT ; LENGTH: 28 FT<br>A/N: 471306 | D1015 | | | | H23.14 |

* (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
# BP WEST COAST PROD.LLC BP CARSON REF.

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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|---|---|---|---|---|---|
| **Process 15: OIL WATER SEPARATION** | | | | | |
| SUMP, SKIM OIL, WIDTH: 4 FT ; DEPTH: 5 FT ; LENGTH: 8 FT A/N: 471306 | D1016 | | | | H23.14 |
| TANK, HOLDING, TK 95, EFFLUENT WATER, OPEN TOP WITH CONCRETE VIEW BOX, 20000 BBL; DIAMETER: 60 FT ; HEIGHT: 40 FT A/N: 471306 | D1021 | | | | |
| OIL WATER SEPARATOR, LIFT STATION NO.9, TWO FIXED ROOF COMPARTEMENTS, WITH 108" H OVERFLOW WEIR, WIDTH: 17 FT ; DEPTH: 11 FT ; LENGTH: 60 FT A/N: 471306 | D1637 | C1638 C1640 | | **VOC**: 500 PPMV (5) [**RULE 1176, 9-13-1996**] | C266.1, E127.1, H23.14, H23.21 |
| CARBON ADSORBER, TWO(2) IN SERIES, (LOCATED AT NO. 5 TRAP), 1000 LBS CARBON EACH A/N: 471306 | C1638 | D1008 D1009 D1010 D1637 | | | D90.1, E128.1, E153.1, K67.16 |
| CARBON ADSORBER, TWO(2) IN SERIES, (LOCATED AT NO. 9 LIFT STATION), 1000 LBS CARBON EACH A/N: 471306 | C1640 | D1008 D1009 D1010 D1637 | | | D90.1, E128.1, E153.1, K67.16 |
| AIR FLOATATION UNIT, INDUCED GAS FLOATATION (IGF) UNIT, NO.1, UNICEL, MODEL UC-17, 2500 GPM, 12 FT DIA X 10 FT HEIGHT A/N: 471306 | D2008 | D2011 | | | H23.14, H23.21 |
| AIR FLOATATION UNIT, INDUCED GAS FLOATATION (IGF) UNIT, NO.2, UNICEL, MODEL UC-17, 2500 GPM, 12 FT DIA X 10 FT HEIGHT A/N: 471306 | D2009 | D2012 | | | H23.14, H23.21 |

* (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
# BP WEST COAST PROD.LLC BP CARSON REF.

## 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 |
|---|---|---|---|---|---|
| **Process 15: OIL WATER SEPARATION** | | | | | |
| AIR FLOATATION UNIT, INDUCED GAS FLOATATION (IGF) UNIT, NO.3, UNICEL, MODEL UC-17, 2500 GPM, 12 FT DIA X 10 FT HEIGHT<br>A/N: 471306 | D2010 | D2013 | | | H23.14, H23.21 |
| VESSEL, SKIM OIL, NO.1, RW6222, 90 BBL CAPACITY, HEIGHT: 8 FT ; DIAMETER: 8 FT<br>A/N: 471306 | D2011 | D2008 C2014 | | **VOC**: 500 PPMV (5) [**RULE 1176, 9-13-1996**] | H23.14, H23.21 |
| VESSEL, SKIM OIL, NO.2, RW6223, 90 BBL CAPACITY, HEIGHT: 8 FT ; DIAMETER: 8 FT<br>A/N: 471306 | D2012 | D2009 C2014 | | **VOC**: 500 PPMV (5) [**RULE 1176, 9-13-1996**] | H23.14, H23.21 |
| VESSEL, SKIM OIL, NO.3, RW6224, 90 BBL CAPACITY, HEIGHT: 8 FT ; DIAMETER: 8 FT<br>A/N: 471306 | D2013 | D2010 C2014 | | **VOC**: 500 PPMV (5) [**RULE 1176, 9-13-1996**] | H23.14, H23.21 |
| CARBON ADSORBER, TWO(2) IN SERIES, 1000 LBS CARBON EACH<br>A/N: 471306 | C2014 | D2011 D2012 D2013 | | | D90.1, E128.1, E153.1, K67.16 |
| DRAIN SYSTEM COMPONENT, HEIGHT: 7 FT 11 IN; DIAMETER: 6 FT<br>A/N: 471306 | D2601 | | | | H23.14 |
| **System 7: OIL WATER TREATING SYSTEM (BENZENE NESHAP)** | | | | | S13.6, S56.1 |
| COLUMN, STRIPPER, RPV 5543, OIL WATER, HEIGHT: 65 FT ; DIAMETER: 8 FT<br>A/N: 435613 | D1644 | | | **HAP**: (10) [**40CFR 63 Subpart CC, #4, 6-23-2003**] | H23.12 |
| COLUMN, STRIPPER, RPV 5544, OIL WATER, HEIGHT: 65 FT ; DIAMETER: 8 FT<br>A/N: 435613 | D1645 | | | **HAP**: (10) [**40CFR 63 Subpart CC, #4, 6-23-2003**] | H23.12 |

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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
(10) See section J for NESHAP/MACT requirements

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

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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|---|---|---|---|---|---|
| **Process 15: OIL WATER SEPARATION** | | | | | |
| VESSEL, SEPARATOR, RPV 5545, OIL WATER, HEIGHT: 15 FT ; DIAMETER: 7 FT 6 IN A/N: 435613 | D1646 | | | **BENZENE**: (10) [**40CFR 61 Subpart FF, #2, 12-4-2003**]; **HAP**: (10) [**40CFR 63 Subpart CC, #4, 6-23-2003**]; **VOC**: 500 PPMV (8) [**40CFR 61 Subpart FF, 12-4-2003**] | H23.12 |
| DRUM, RELIEF QUENCH, RPV 5546, HEIGHT: 13 FT ; DIAMETER: 5 FT A/N: 435613 | D1647 | | | | |
| DRUM, RPV 5571, TANK FARM WATER COLLECTION, LENGTH: 24 FT ; DIAMETER: 8 FT A/N: 435613 | D1648 | | | **BENZENE**: (10) [**40CFR 61 Subpart FF, #2, 12-4-2003**]; **VOC**: 500 PPMV (8) [**40CFR 61 Subpart FF, 12-4-2003**] | H23.12 |
| VESSEL, SEPARATOR, RPV 5549, HYDROCYCLONE, LENGTH: 7 FT 7 IN; DIAMETER: 3 FT A/N: 435613 | D1649 | | | **BENZENE**: (10) [**40CFR 61 Subpart FF, #2, 12-4-2003**]; **HAP**: (10) [**40CFR 63 Subpart CC, #4, 6-23-2003**]; **VOC**: 500 PPMV (8) [**40CFR 61 Subpart FF, 12-4-2003**] | H23.12 |
| PUMP, RW 2808 295.02, OIL WATER TRANSFER, CENTRIFUGAL TYPE, WITH DUAL TANDEM SEALS A/N: 435613 | D2157 | | | | |
| PUMP, RW 2809 295.02, OIL WATER TRANSFER, CENTRIFUGAL TYPE, WITH DUAL TANDEM SEALS A/N: 435613 | D2158 | | | | |
| FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 435613 | D2541 | | | **HAP**: (10) [**40CFR 63 Subpart CC, #5A, 6-23-2003**] | H23.3 |
| **System 8: WASTE OIL RECOVERY UNIT** | | | | | S13.6 |

* (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
# BP WEST COAST PROD.LLC BP CARSON REF.

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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|---|---|---|---|---|---|
| **Process 15: OIL WATER SEPARATION** | | | | | |
| TANK, TK-309, OIL-WATER, WITH LIGHTNIN MIXER, 4120 BBL; DIAMETER: 35 FT ; HEIGHT: 24 FT WITH<br>A/N: 409264<br><br>FLOATING ROOF, PONTOON<br><br>PRIMARY SEAL | D1030 | | | **BENZENE**: (10) [**40CFR 61 Subpart FF, #2, 12-4-2003**]; **HAP**: (10) [**40CFR 63 Subpart CC, #2, 6-23-2003**] | H23.4, H23.12, H23.14 |
| STORAGE TANK, WELDED SHELL, TK-310, OIL-WATER, WITH LIGHTNIN MIXER, 4120 BBL; DIAMETER: 35 FT ; HEIGHT: 24 FT WITH<br>A/N: 409264<br><br>FLOATING ROOF, DOUBLE DECK<br><br>PRIMARY SEAL, CATEGORY A, METALLIC SHOE | D1032 | | | **BENZENE**: (10) [**40CFR 61 Subpart FF, #2, 12-4-2003**]; **HAP**: (10) [**40CFR 63 Subpart CC, #2, 6-23-2003**] | H23.4, H23.12, H23.14 |
| **System 9: STORM WATER HANDLING AND TREATING SYSTEM** | | | | | S13.6 |
| SUMP, V-15, CTBD/#JB-X25, INTERCONNECTED WITH V-16 AND V-20,, LIFT STATION, FIXED COVER, WIDTH: 12 FT ; DEPTH: 23 FT 6 IN; LENGTH: 36 FT<br>A/N: 474554 | D1058 | C2886 | | **VOC**: 50 PPMV (4) [**RULE 1303(a)(1)-BACT, 5-10-1996;** *RULE 1303(a)(1)-BACT, 12-6-2002*] | |
| SUMP, V-16, CTBD/#JB-X25, INTERCONNECTED WITH V-15 AND V-20, LIFT STATION, FIXED COVER, WIDTH: 6 FT ; DEPTH: 23 FT 6 IN; LENGTH: 12 FT<br>A/N: 474554 | D1059 | C2886 | | **VOC**: 50 PPMV (4) [**RULE 1303(a)(1)-BACT, 5-10-1996;** *RULE 1303(a)(1)-BACT, 12-6-2002*] | |

* (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
# BP WEST COAST PROD.LLC BP CARSON REF.

## 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 |
|---|---|---|---|---|---|
| **Process 15: OIL WATER SEPARATION** | | | | | |
| SUMP, V-20, CTBD/#JB-X25, INTERCONNECTED WITH V-15 AND V-16, LIFT STATION, FIXED COVER, WIDTH: 6 FT ; DEPTH: 23 FT 6 IN; LENGTH: 12 FT<br>A/N: 474554 | D2834 | C2886 | | **VOC**: 50 PPMV (4) [**RULE 1303(a)(1)-BACT, 5-10-1996;** *RULE 1303(a)(1)-BACT, 12-6-2002*] | |
| CARBON ADSORBER, TWO CANISTERS IN SERIES, 1000 LBS CARBON PER CANISTER<br>A/N: 474554 | C2886 | D1058 D1059 D2834 | | | D90.8, E128.1, E153.6, K67.16 |
| SUMP, WEST IGF EFFLUENT, LIFT STATION, FIXED COVER, WIDTH: 11 FT ; DEPTH: 9 FT 6 IN; LENGTH: 12 FT<br>A/N: 474553 | D2835 | C2446 | | **VOC**: 500 PPMV (5) [**RULE 1176, 9-13-1996**] | H23.14 |
| CARBON ADSORBER, TWO CARBON TRAINS, EACH TRAIN WITH TWO 1000 LB CANISTERS IN SERIES, ONE CARBON TRAIN FUNCTIONING AS BACKUP, SERVING WEST IGF EFFLUENT SUMP<br>A/N: 474553 | C2446 | D2835 | | | D90.8, E128.1, E153.7, K67.16 |
| SUMP, FIXED COVER, SHOPS AREA, 2418 CUBIC FEET CAPACITY, WIDTH: 16 FT 6 IN; DEPTH: 9 FT 5.75 IN; LENGTH: 21 FT 6 IN<br>A/N: 471293 | D2747 | C2748 | | **VOC**: 50 PPMV (4) [**RULE 1303(a)(1)-BACT, 5-10-1996**] | H23.26 |
| CARBON ADSORBER, TWO CANISTERS IN SERIES, 1000 LBS CARBON EACH<br>A/N: 471293 | C2748 | D2747 | | | D90.8, E128.1, E153.2, K67.16 |

* (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
# BP WEST COAST PROD.LLC BP CARSON REF.

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

| Equipment | ID No. | Connected To | RECLAIM Source Type/ Monitoring Unit | Emissions * And Requirements | Conditions |
|---|---|---|---|---|---|
| **Process 15: OIL WATER SEPARATION** | | | | | |
| SUMP, SUMP (MANIFOLD) 95 SUMP, 245 CUBIC FEET CAPACITY, WIDTH: 7 FT ; DEPTH: 5 FT ; LENGTH: 7 FT A/N: 428173 | D2750 | | | | B59.2, D90.9 |
| SUMP, FCC GAS FLARE SUMP, 27 CUBIC FEET CAPACITY, WIDTH: 3 FT ; DEPTH: 3 FT ; LENGTH: 3 FT A/N: 428168 | D2751 | | | | B59.2, D90.9 |
| SUMP, FIXED COVER, SERVING TANK 19/20 BASIN, 2040 CUBIC FEET CAPACITY, WIDTH: 11 FT 4 IN; DEPTH: 10 FT ; LENGTH: 18 FT A/N: 471295 | D2752 | C2753 | | **VOC**: 50 PPMV (4) [**RULE 1303(a)(1)-BACT, 5-10-1996**] | H23.21 |
| CARBON ADSORBER, TWO CANISTERS IN SERIES, 1000 LBS CARBON EACH A/N: 471295 | C2753 | D2752 | | | D90.8, E128.1, E153.2, K67.16 |
| SUMP, FIXED COVER, PUMPSLAB TAG #000 SUMP, 117.5 CUBIC FEET CAPACITY, WIDTH: 3 FT ; DEPTH: 5 FT ; LENGTH: 7 FT 10 IN A/N: 471300 | D2754 | C2756 | | **VOC**: 50 PPMV (4) [**RULE 1303(a)(1)-BACT, 5-10-1996**] | H23.21 |
| SUMP, FIXED COVER, PUMPSLAB TAG #0217 SUMP, 905.4 CUBIC FEET CAPACITY, WIDTH: 6 FT 10 IN; DEPTH: 15 FT ; LENGTH: 8 FT 10 IN A/N: 471300 | D2755 | C2756 | | **VOC**: 50 PPMV (4) [**RULE 1303(a)(1)-BACT, 5-10-1996**] | H23.21 |
| CARBON ADSORBER, TWO CANISTERS IN SERIES, 1000 LBS CARBON EACH A/N: 471300 | C2756 | D2754 D2755 | | | D90.8, E128.1, E153.2, K67.16 |

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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
# BP WEST COAST PROD.LLC BP CARSON REF.

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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|---|---|---|---|---|---|
| **Process 15: OIL WATER SEPARATION** | | | | | |
| SUMP, FIXED COVER, #4 STEAM PLANT TAG #0100 SUMP, 866.8 CUBIC FEET CAPACITY, WIDTH: 8 FT 3 IN; DEPTH: 10 FT 3 IN; LENGTH: 10 FT 3 IN<br>A/N: 471296 | D2757 | C2758 | | **VOC**: 50 PPMV (4) [**RULE 1303(a)(1)-BACT, 5-10-1996**] | H23.21 |
| CARBON ADSORBER, TWO CANISTERS IN SERIES, 1000 LBS CARBON EACH<br>A/N: 471296 | C2758 | D2757 | | | D90.8, E128.1, E153.2, K67.16 |
| SUMP, FIXED COVER, SERVING RESERVOIR 502 VALVE BOXES AND/OR DRAIN BOX, 756 CUBIC FEET CAPACITY, WIDTH: 7 FT ; DEPTH: 12 FT ; LENGTH: 9 FT<br>A/N: 471298 | D2759 | C2760 | | **VOC**: 50 PPMV (4) [**RULE 1303(a)(1)-BACT, 5-10-1996**] | H23.21 |
| CARBON ADSORBER, TWO CANISTERS IN SERIES, 1000 LBS CARBON EACH<br>A/N: 471298 | C2760 | D2759 | | | D90.8, E128.1, E153.2, K67.16 |
| SUMP, FIXED COVER, S&H TAG #0182S SUMP, 304.4 CUBIC FEET CAPACITY, WIDTH: 5 FT 4 IN; DEPTH: 5 FT ; LENGTH: 11 FT 5 IN<br>A/N: 471299 | D2761 | C2762 | | **VOC**: 50 PPMV (4) [**RULE 1303(a)(1)-BACT, 5-10-1996**] | H23.21 |
| CARBON ADSORBER, TWO CANISTERS IN SERIES, 1000 LBS CARBON EACH<br>A/N: 471299 | C2762 | D2761 | | | D90.8, E128.1, E153.2, K67.16 |
| SUMP, FIXED COVER, NO. 5 FLARE PIT, 63 CUBIC FEET CAPACITY, HEIGHT: 5 FT ; DIAMETER: 4 FT<br>A/N: 471301 | D2787 | C2788 | | **VOC**: 50 PPMV (4) [**RULE 1303(a)(1)-BACT, 5-10-1996**] | H23.14, H23.21 |

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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
# BP WEST COAST PROD.LLC BP CARSON REF.

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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|---|---|---|---|---|---|
| **Process 15: OIL WATER SEPARATION** | | | | | |
| CARBON ADSORBER, TWO CANISTERS IN SERIES, 1000 LBS CARBON EACH<br>A/N: 471301 | C2788 | D2787 | | | D90.8, E128.1, E153.2, K67.16 |
| SUMP, FIXED COVER, OILY WATER STRIPPER UNIT, 680 CUBIC FEET CAPACITY, WIDTH: 6 FT 8 IN; DEPTH: 12 FT 2 IN; LENGTH: 17 FT<br>A/N: 471305 | D2811 | C2812 | | **VOC**: 50 PPMV (4) [**RULE 1303(a)(1)-BACT, 5-10-1996**] | H23.14, H23.26 |
| CARBON ADSORBER, TWO CANISTERS IN SERIES, 1000 LBS CARBON EACH<br>A/N: 471305 | C2812 | D2811 | | | D90.8, E128.1, E153.2, K67.16 |
| SUMP, NO. 2 HYDROGEN PLANT STORMWATER LIFT STATION, FIXED COVER, WIDTH: 14 FT ; DEPTH: 12 FT ; LENGTH: 23 FT 8 IN<br>A/N: 474774 | D2880 | C2881 | | **VOC**: 50 PPMV (4) [**RULE 1303(a)(1)-BACT, 5-10-1996;** *RULE 1303(a)(1)-BACT, 12-6-2002*]; **VOC**: 500 PPMV (5) [**RULE 1176, 9-13-1996**] | H23.14 |
| CARBON ADSORBER, TWO CANISTERS IN SERIES, 1000 LBS CARBON PER CANISTER<br>A/N: 474774 | C2881 | D2880 | | | D90.8, E128.1, E153.1, K67.16 |
| **System 12: SUMPS, OTHER** | | | | | |
| SUMP, FIRE TRAINING SUMP, 82.7 CUBIC FEET CAPACITY, WIDTH: 3 FT ; DEPTH: 9 FT 2.25 IN; LENGTH: 3 FT<br>A/N: | D2749 | | | | B59.2, D90.9 |
| **Process 16: PETROLEUM STORAGE TANKS** | | | | | |
| **System 1: FIXED ROOF TANKS** | | | | | S13.8 |

* (1) (1A) (1B) Denotes RECLAIM emission factor
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(3) Denotes RECLAIM concentration limit
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(5) (5A) (5B) Denotes command and control emission limit
(6) Denotes air toxic control rule limit
(7) Denotes NSR applicability limit
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# FACILITY PERMIT TO OPERATE
# BP WEST COAST PROD.LLC BP CARSON REF.

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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|---|---|---|---|---|---|
| **Process 16: PETROLEUM STORAGE TANKS** | | | | | |
| TANK, FIXED ROOF, TK-824, SLOP, 1100 BBL; DIAMETER: 20 FT ; HEIGHT: 20 FT<br>A/N: 448854 | D80 | D1313 D1314 D1656 D2807 | | **BENZENE**: (10) [**40CFR 61 Subpart FF, #2, 12-4-2003**];<br>**VOC**: 500 PPMV (8) [**40CFR 61 Subpart FF, 12-4-2003**] | B22.6, C1.49, H23.12, H23.13, K67.21 |
| STORAGE TANK, FIXED ROOF, WEST NO. 916, LEAN MDEA, 1120 BBL., HEIGHT: 20 FT ; DIAMETER: 20 FT<br>A/N: 465929 | D800 | | | **HAP**: (10) [**40CFR 63 Subpart CC, #2, 6-23-2003**] | K67.5 |
| STORAGE TANK, FIXED ROOF, EAST NO. 917, LEAN MDEA, 1120 BBL., HEIGHT: 20 FT ; DIAMETER: 20 FT<br>A/N: 465930 | D801 | | | **HAP**: (10) [**40CFR 63 Subpart CC, #2, 6-23-2003**] | K67.5 |
| STORAGE TANK, FIXED ROOF, TK-173R, OCTEL ADDITIVE RA-560, 12500 GALS; DIAMETER: 13 FT ; HEIGHT: 12 FT 8 IN<br>A/N: 395836 | D2612 | | | **HAP**: (10) [**40CFR 63 Subpart CC, #2, 6-23-2003**] | B22.10, C1.41, K67.20, K67.21 |
| STORAGE TANK, FIXED ROOF, NO.83, 55000 BBL; DIAMETER: 90 FT ; HEIGHT: 48 FT<br>A/N: 396082 | D1067 | D1313 D1314 D1316 D2807 | | **BENZENE**: (10) [**40CFR 61 Subpart FF, #2, 12-4-2003**];<br>**VOC**: 500 PPMV (8) [**40CFR 61 Subpart FF, 12-4-2003**] | E336.2, H23.12, K67.5 |
| STORAGE TANK, FIXED ROOF, NO.773, NATURAL GAS BLANKET, 100000 BBL; DIAMETER: 134 FT ; HEIGHT: 40 FT<br>A/N: 467510 | D1069 | | | | B22.17, C1.62, E336.2, K67.5, K67.21 |
| STORAGE TANK, FIXED ROOF, NO.84, 55000 BBL; DIAMETER: 90 FT ; HEIGHT: 48 FT<br>A/N: 449868 | D1070 | | | **HAP**: (10) [**40CFR 63 Subpart CC, #2, 6-23-2003**] | B22.9, K67.5, K67.21 |

* (1) (1A) (1B) Denotes RECLAIM emission factor
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(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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** Refer to section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.

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

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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|---|---|---|---|---|---|
| **Process 16: PETROLEUM STORAGE TANKS** | | | | | |
| STORAGE TANK, FIXED ROOF, NO.24, EQUIPPED WITH A MIXER, JENSEN, MODEL 680-60, SIDE MOUNTED, 60 HP MOTOR, 80000 BBL; DIAMETER: 117 FT ; HEIGHT: 41 FT 8 IN<br>A/N: 449866 | D1071 | | | **HAP**: (10) [**40CFR 63 Subpart CC, #2, 6-23-2003**] | B22.9, K67.5, K67.21 |
| STORAGE TANK, FIXED ROOF, NO.191, 24192 BBL; DIAMETER: 60 FT ; HEIGHT: 48 FT<br>A/N: 475055 | D1072 | D1313 D1314 D2807 | | **BENZENE**: (10) [**40CFR 61 Subpart FF, #2, 12-4-2003**];<br>**VOC**: 500 PPMV (8) [**40CFR 61 Subpart FF, 12-4-2003**] | B22.6, C1.69, H23.12, H23.30, K67.5, K67.21 |
| STORAGE TANK, FIXED ROOF, NO.284, 8950 BBL; DIAMETER: 40 FT ; HEIGHT: 40 FT<br>A/N: 395779 | D1073 | D1313 D1314 D2807 | | | E336.2, K67.5 |
| STORAGE TANK, FIXED ROOF, NO.289, 3780 BBL; DIAMETER: 30 FT ; HEIGHT: 30 FT<br>A/N: 395803 | D1074 | D1313 D1314 D2807 | | | E336.2, K67.5 |
| STORAGE TANK, FIXED ROOF, NO.16, 96690 BBL; DIAMETER: 120 FT ; HEIGHT: 48 FT<br>A/N: 475032 | D1075 | D1313 D1314 D2807 | | | H23.30, K67.5 |
| STORAGE TANK, FIXED ROOF, NO.93, WITH WATER SEAL TYPE ROOF, 80000 BBL; DIAMETER: 117 FT 2 IN; HEIGHT: 41 FT 10 IN<br>A/N: 475054 | D1078 | D1313 D1314 D2807 | | | H23.30, K67.5 |
| STORAGE TANK, FIXED ROOF, NO.90, WITH WATER SEAL TYPE ROOF, 80000 BBL; DIAMETER: 117 FT 2 IN; HEIGHT: 41 FT 10 IN<br>A/N: 475053 | D1079 | D1313 D1314 D2807 | | | H23.30, K67.5 |

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(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
# BP WEST COAST PROD.LLC BP CARSON REF.

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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|---|---|---|---|---|---|
| **Process 16: PETROLEUM STORAGE TANKS** | | | | | |
| STORAGE TANK, FIXED ROOF, NO.61, WITH WATER SEAL TYPE, 100000 BBL; DIAMETER: 134 FT 8 IN; HEIGHT: 40 FT 7 IN<br>A/N: 396105 | D1080 | | | | E336.2, K67.5 |
| STORAGE TANK, FIXED ROOF, NO.44, 100000 BBL; DIAMETER: 134 FT 8 IN; HEIGHT: 40 FT 7 IN<br>A/N: 396106 | D1081 | | | | E336.2, K67.5 |
| STORAGE TANK, FIXED ROOF, NO.43, WITH NATURAL GAS BLANKET, 80000 BBL; DIAMETER: 117 FT 2 IN; HEIGHT: 40 FT 2 IN<br>A/N: 396107 | D1083 | | | | E336.2, K67.5 |
| STORAGE TANK, FIXED ROOF, NO.958, 150000 BBL; DIAMETER: 160 FT ; HEIGHT: 42 FT<br>A/N: 462667 | D1084 | | | | B22.17, C1.75, E336.2, K67.5, K67.21 |
| STORAGE TANK, FIXED ROOF, STEAM HEATED, NO.959, 164000 BBL; DIAMETER: 150 FT ; HEIGHT: 52 FT<br>A/N: 395964 | D1085 | D1313 D1314 D2807 | | | B22.4, E336.2, K67.5, K67.21 |
| STORAGE TANK, FIXED ROOF, NO.968, 150000 BBL; DIAMETER: 160 FT ; HEIGHT: 42 FT<br>A/N: 395965 | D1086 | | | **HAP**: (10) [**40CFR 63 Subpart CC, #2, 6-23-2003**] | E54.3, E336.2, K67.5 |
| STORAGE TANK, FIXED ROOF, HEATED, NO.1, 80200 BBL; DIAMETER: 117 FT 2 IN; HEIGHT: 41 FT 10 IN<br>A/N: 395497 | D1087 | | | **BENZENE**: (10) [**40CFR 61 Subpart FF, #2, 12-4-2003**];<br>**VOC**: 500 PPMV (8) [**40CFR 61 Subpart FF, 12-4-2003**] | E54.3, E336.2, H23.12, K67.5 |

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(4) Denotes BACT emission limit
(5) (5A) (5B) Denotes command and control emission limit
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(7) Denotes NSR applicability limit
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# FACILITY PERMIT TO OPERATE
# BP WEST COAST PROD.LLC BP CARSON REF.

## 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 |
|---|---|---|---|---|---|
| **Process 16: PETROLEUM STORAGE TANKS** | | | | | |
| STORAGE TANK, FIXED ROOF, NO.18, 80000 BBL; DIAMETER: 117 FT 2 IN; HEIGHT: 41 FT 9 IN<br>A/N: 475048 | D1089 | D1313 D1314 D2807 | | | H23.30, K67.5 |
| STORAGE TANK, FIXED ROOF, NO. 22, WITH TWO 20 H.P. AGITATORS, 74600 BBL; DIAMETER: 117 FT 2 IN; HEIGHT: 41 FT 10 IN<br>A/N: 449856 | D1090 | | | **HAP**: (10) [**40CFR 63 Subpart CC, #2, 6-23-2003**] | B22.9, K67.5, K67.21 |
| STORAGE TANK, FIXED ROOF, NO. 23, WITH TWO 20 H.P. AGITATORS, 80000 BBL; DIAMETER: 117 FT 2 IN; HEIGHT: 41 FT<br>A/N: 449865 | D1091 | | | **HAP**: (10) [**40CFR 63 Subpart CC, #2, 6-23-2003**] | B22.21, C1.78, K67.5, K67.21 |
| STORAGE TANK, FIXED ROOF, NO.62, 100600 BBL; DIAMETER: 135 FT 7 IN; HEIGHT: 40 FT 7 IN<br>A/N: 475050 | D1092 | D1313 D1314 D2807 | | | H23.30, K67.5 |
| STORAGE TANK, FIXED ROOF, NO.63, 100600 BBL; DIAMETER: 135 FT 7 IN; HEIGHT: 40 FT 7 IN<br>A/N: 475051 | D1093 | D1313 D1314 D2807 | | | H23.30, K67.5 |
| STORAGE TANK, FIXED ROOF, NO. 192, 24192 BBL; DIAMETER: 60 FT ; HEIGHT: 48 FT<br>A/N: 475056 | D1098 | D1313 D1314 D2807 | | **BENZENE**: (10) [**40CFR 61 Subpart FF, #2, 12-4-2003**];<br>**VOC**: 500 PPMV (8) [**40CFR 61 Subpart FF, 12-4-2003**] | C1.3, H23.12, H23.30, K67.5, K67.20 |
| STORAGE TANK, FIXED ROOF, NO.277, 500 BBL; DIAMETER: 15 FT ; HEIGHT: 18 FT<br>A/N: 395817 | D1099 | | | **HAP**: (10) [**40CFR 63 Subpart CC, #2, 6-23-2003**] | K67.5 |

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(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
# BP WEST COAST PROD.LLC BP CARSON REF.

## 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 |
|---|---|---|---|---|---|
| **Process 16: PETROLEUM STORAGE TANKS** | | | | | |
| STORAGE TANK, FIXED ROOF, NO.288, 3780 BBL; DIAMETER: 30 FT ; HEIGHT: 30 FT<br>A/N: 395794 | D1102 | | | | E54.3, E336.2, K67.5 |
| STORAGE TANK, FIXED ROOF, NO. 426, WASTEWATER, RECOVERED OIL, 24400 BBL; DIAMETER: 76 FT ; HEIGHT: 30 FT<br>A/N: 475058 | D1103 | D1313 D1314 D2807 | | | B22.6, C1.70, H23.31, K67.5, K67.21 |
| STORAGE TANK, FIXED ROOF, HEATED, NO.501, CONCRETE, 1200000 BBL<br>A/N: 395637 | D1104 | | | **HAP**: (10) [**40CFR 63 Subpart CC, #2, 6-23-2003**] | B22.4, C1.5, K67.5, K67.20, K67.21 |
| STORAGE TANK, FIXED ROOF, NO.614, OILY SLUDGE, HEATED WITH STEAM COILS, 1200 BBL; DIAMETER: 25 FT ; HEIGHT: 13 FT<br>A/N: 433622 | D1106 | D1313 D1314 D2807 | | | C1.64, E336.2, K67.5 |
| STORAGE TANK, FIXED ROOF, NO.677, 16800 BBL; DIAMETER: 50 FT ; HEIGHT: 48 FT<br>A/N: 449869 | D1107 | | | **HAP**: (10) [**40CFR 63 Subpart CC, #2, 6-23-2003**] | B22.15, C1.59, K67.5 |
| STORAGE TANK, FIXED ROOF, NO.678, 16800 BBL; DIAMETER: 50 FT ; HEIGHT: 48 FT<br>A/N: 449870 | D1108 | | | **HAP**: (10) [**40CFR 63 Subpart CC, #2, 6-23-2003**] | B22.15, C1.59, K67.5 |
| STORAGE TANK, FIXED ROOF, NO.679, 16800 BBL; DIAMETER: 50 FT ; HEIGHT: 48 FT<br>A/N: 449895 | D1109 | | | **HAP**: (10) [**40CFR 63 Subpart CC, #2, 6-23-2003**] | B22.15, C1.59, K67.5 |

* (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
# BP WEST COAST PROD.LLC BP CARSON REF.

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

| Equipment | ID No. | Connected To | RECLAIM Source Type/ Monitoring Unit | Emissions * And Requirements | Conditions |
|---|---|---|---|---|---|
| **Process 16: PETROLEUM STORAGE TANKS** | | | | | |
| STORAGE TANK, FIXED ROOF, NO.680, 16800 BBL; DIAMETER: 50 FT ; HEIGHT: 48 FT<br>A/N: 449871 | D1110 | | | **HAP**: (10) [**40CFR 63 Subpart CC, #2, 6-23-2003**] | B22.15, C1.59, K67.5 |
| STORAGE TANK, FIXED ROOF, NO.700, RECOVERED OIL, 15000 BBL; DIAMETER: 60 FT ; HEIGHT: 30 FT<br>A/N: 475062 | D1111 | D1313 D1314 D2807 | | | B22.6, C1.70, H23.31, K67.5, K67.21 |
| STORAGE TANK, FIXED ROOF, NO.933, TETRAETHYLENE GLYCOL, 250 BBL; DIAMETER: 12 FT 3 IN; HEIGHT: 12 FT<br>A/N: 395512 | D1115 | | | | B22.2, C1.28, E336.2, K67.20, K67.21 |
| STORAGE TANK, FIXED ROOF, NO.956, 151200 BBL; DIAMETER: 150 FT ; HEIGHT: 48 FT<br>A/N: 395746 | D1116 | | | **HAP**: (10) [**40CFR 63 Subpart CC, #2, 6-23-2003**] | E54.3, E336.2, K67.5 |
| STORAGE TANK, FIXED ROOF, NO.957, 150000 BBL; DIAMETER: 160 FT ; HEIGHT: 42 FT 10 IN<br>A/N: 395635 | D1117 | | | | B22.4, C1.6, E336.2, K67.20, K67.21 |
| STORAGE TANK, FIXED ROOF, NO.R-11, 80200 BBL; DIAMETER: 117 FT ; HEIGHT: 41 FT 2 IN<br>A/N: 395739 | D1119 | | | **HAP**: (10) [**40CFR 63 Subpart CC, #2, 6-23-2003**] | B22.5, K67.21 |
| STORAGE TANK, FIXED ROOF, NO.R-12, RECOVERED OIL, 79800 BBL; DIAMETER: 117 FT ; HEIGHT: 41 FT 2 IN<br>A/N: 475031 | D1120 | D1313 D1314 D2807 | | **BENZENE**: (10) [**40CFR 61 Subpart FF, #2, 12-4-2003**];<br>**VOC**: 500 PPMV (8) [**40CFR 60 Subpart Kb, 10-15-2003; 40CFR 61 Subpart FF, 12-4-2003**] | B22.6, C1.71, H23.5, H23.12, H23.31, K67.5, K67.21 |

* (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
# BP WEST COAST PROD.LLC BP CARSON REF.

## 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 |
|---|---|---|---|---|---|
| **Process 16: PETROLEUM STORAGE TANKS** | | | | | |
| STORAGE TANK, FIXED ROOF, NO.R-26, FUEL OIL, DIESEL OIL NO. 2, EQUIPPED WITH A MIXER, JENSEN, MODEL 680-60, SIDE MOUNTED, 60 HP, 96100 BBL; DIAMETER: 120 FT ; HEIGHT: 48 FT A/N: 395926 | D1121 | | | **HAP**: (10) [**40CFR 63 Subpart CC, #2, 6-23-2003**] | K67.5 |
| STORAGE TANK, FIXED ROOF, NO.R-49, 102800 BBL; DIAMETER: 134 FT 9 IN; HEIGHT: 40 FT 7 IN A/N: 395753 | D1122 | | | **HAP**: (10) [**40CFR 63 Subpart CC, #2, 6-23-2003**] | B22.3, K67.5, K67.21 |
| STORAGE TANK, FIXED ROOF, NO.R-56, FUEL OIL, DIESEL OIL NO. 2, 102800 BBL; DIAMETER: 134 FT 9 IN; HEIGHT: 40 FT 7 IN A/N: 395752 | D1123 | | | **HAP**: (10) [**40CFR 63 Subpart CC, #2, 6-23-2003**] | K67.5 |
| STORAGE TANK, FIXED ROOF, NO.R-58, FUEL OIL, DIESEL OIL NO. 2, 102800 BBL; DIAMETER: 134 FT 9 IN; HEIGHT: 40 FT 7 IN A/N: 395749 | D1124 | | | **HAP**: (10) [**40CFR 63 Subpart CC, #2, 6-23-2003**] | K67.5 |
| STORAGE TANK, FIXED ROOF, NO.R-59, FUEL OIL, DIESEL OIL NO. 2, 102800 BBL; DIAMETER: 134 FT 9 IN; HEIGHT: 40 FT 7 IN A/N: 395748 | D1125 | | | **HAP**: (10) [**40CFR 63 Subpart CC, #2, 6-23-2003**] | K67.5 |
| STORAGE TANK, FIXED ROOF, NO.R-60, FUEL OIL, DIESEL OIL NO. 2, 102800 BBL; DIAMETER: 134 FT 8 IN; HEIGHT: 40 FT 7 IN A/N: 395745 | D1126 | | | **HAP**: (10) [**40CFR 63 Subpart CC, #2, 6-23-2003**] | K67.5 |

* (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
# BP WEST COAST PROD.LLC BP CARSON REF.

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

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|---|---|---|---|---|---|
| **Process 16: PETROLEUM STORAGE TANKS** | | | | | |
| STORAGE TANK, FIXED ROOF, NO.101, RECOVERED GROUNDWATER, 15150 BBL; DIAMETER: 60 FT ; HEIGHT: 30 FT<br>A/N: 395507 | D1127 | | | **BENZENE**: (10) [**40CFR 61 Subpart FF, #2, 12-4-2003**];<br>**VOC**: 500 PPMV (8) [**40CFR 61 Subpart FF, 12-4-2003**] | C1.36, E336.2, H23.12, K67.20 |
| STORAGE TANK, FIXED ROOF, NO. R-157, 12000 BBL; DIAMETER: 60 FT ; HEIGHT: 24 FT<br>A/N: 395735 | D1128 | | | | B22.3, E336.2, K67.5, K67.21 |
| STORAGE TANK, FIXED ROOF, NO.R-399, 3750 BBL; DIAMETER: 30 FT ; HEIGHT: 30 FT<br>A/N: 395733 | D1130 | | | **HAP**: (10) [**40CFR 63 Subpart CC, #2, 6-23-2003**] | B22.5, K67.5, K67.21 |
| STORAGE TANK, FIXED ROOF, NO.102, PROCESS WATER, 15000 BBL; DIAMETER: 60 FT ; HEIGHT: 30 FT<br>A/N: 395506 | D1134 | | | **BENZENE**: (10) [**40CFR 61 Subpart FF, #2, 12-4-2003**];<br>**VOC**: 500 PPMV (8) [**40CFR 61 Subpart FF, 12-4-2003**] | C1.29, E336.2, H23.12, K67.20 |
| STORAGE TANK, FIXED ROOF, NO.103, PROCESS WATER, 15000 BBL; DIAMETER: 60 FT ; HEIGHT: 30 FT<br>A/N: 395505 | D1135 | | | **BENZENE**: (10) [**40CFR 61 Subpart FF, #2, 12-4-2003**];<br>**VOC**: 500 PPMV (8) [**40CFR 61 Subpart FF, 12-4-2003**] | C1.30, E336.2, H23.12, K67.20 |
| STORAGE TANK, FIXED ROOF, NO.610, LEAN MDEA, 1080 BBL; DIAMETER: 22 FT ; HEIGHT: 16 FT<br>A/N: 460586 | D1136 | | | **HAP**: (10) [**40CFR 63 Subpart CC, #2, 6-23-2003**] | C1.7, K67.20 |
| STORAGE TANK, FIXED ROOF, STEAM HEATED, NO.619, SULFUR, 12500 BBL; DIAMETER: 50 FT ; HEIGHT: 36 FT<br>A/N: 419002 | D1137 | | | **SOX**: 500 PPMV (5) [**RULE 407, 4-2-1982**] | E336.3 |

* (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
# BP WEST COAST PROD.LLC BP CARSON REF.

## 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 |
|---|---|---|---|---|---|
| **Process 16: PETROLEUM STORAGE TANKS** | | | | | |
| STORAGE TANK, FIXED ROOF, STEAM HEATED, NO.620, SULFUR, 12500 BBL; DIAMETER: 50 FT ; HEIGHT: 36 FT<br>A/N: 419003 | D1138 | | | **SOX**: 500 PPMV (5) [**RULE 407, 4-2-1982**] | E336.3 |
| STORAGE TANK, FIXED ROOF, NO.969, 164000 BBL; DIAMETER: 150 FT ; HEIGHT: 52 FT 10 IN<br>A/N: 475063 | D1139 | D1313 D1314 D2807 | | | H23.30, K67.5 |
| STORAGE TANK, FIXED ROOF, NO.25, WITH A JENSEN MODEL FIXED-ANGLE SIDE-MOUNTED MIXER, 94507 BBL; DIAMETER: 120 FT ; HEIGHT: 48 FT<br>A/N: 449867 | D1140 | | | **HAP**: (10) [**40CFR 63 Subpart CC, #2, 6-23-2003**] | B22.9, K67.5, K67.21 |
| STORAGE TANK, FIXED ROOF, NO.17, WITH A JENSEN, VARI-ANGLE SIDE-MOUNTED MIXER, 93667 BBL; DIAMETER: 120 FT ; HEIGHT: 48 FT<br>A/N: 475046 | D1141 | D1313 D1314 D2807 | | | C1.8, H23.30, K67.5, K67.20 |
| FUGITIVE EMISSIONS, MISCELLANEOUS<br>A/N: 475046 | D2589 | | | **HAP**: (10) [**40CFR 63 Subpart CC, #5A, 6-23-2003**] | H23.3 |
| STORAGE TANK, RPV 3230, AMMONIA, HEIGHT: 35 FT 9 IN; DIAMETER: 8 FT<br>A/N: | D1986 | | | | |
| **System 2: FLOATING ROOF TANKS** | | | | | S13.3 |

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

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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|---|---|---|---|---|---|
| **Process 16: PETROLEUM STORAGE TANKS** | | | | | |
| STORAGE TANK, EXTERNAL FLOATING ROOF, NO.2, WITH A JENSEN SIDE-MOUNTED MIXER, 96700 BBL; DIAMETER: 120 FT ; HEIGHT: 48 FT WITH A/N: 395596<br><br>FLOATING ROOF, WELDED SHELL<br><br>PRIMARY SEAL, CATEGORY A, METALLIC SHOE<br><br>SECONDARY SEAL, CATEGORY B OR BETTER PER RULE 219(C)(4), RIM MOUNTED | D1142 | | | **HAP**: (10) [**40CFR 63 Subpart CC, #3A, 6-23-2003**] | C1.9, K67.5, K67.20 |
| STORAGE TANK, EXTERNAL FLOATING ROOF, NO.394, SLOP OIL/ SLUDGE, 4910 BBL; DIAMETER: 30 FT ; HEIGHT: 39 FT WITH A/N: 539146<br><br>FLOATING ROOF, WELDED SHELL<br><br>PRIMARY SEAL, CATEGORY A, METALLIC SHOE<br><br>SECONDARY SEAL, WIPER TYPE | D1143 | | | **BENZENE**: (10) [**40CFR 61 Subpart FF, #2, 12-4-2003**]; **HAP**: (10) [**40CFR 63 Subpart CC, #2, 6-23-2003**] | B22.20, C1.35, H23.5, H23.12, K67.13 |

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

## 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 |
|---|---|---|---|---|---|
| **Process 16: PETROLEUM STORAGE TANKS** | | | | | |
| STORAGE TANK, EXTERNAL FLOATING ROOF, NO.3, 84700 BBL; DIAMETER: 120 FT ; HEIGHT: 42 FT WITH<br>A/N: 395667<br><br>PRIMARY SEAL, CATEGORY A, METALLIC SHOE<br><br>FLOATING ROOF, DOUBLE DECK, WELDED SHELL<br><br>SECONDARY SEAL, CATEGORY B OR BETTER PER RULE 219(C)(4), WIPER TYPE | D1144 | | | **HAP**: (10) [**40CFR 63 Subpart CC, #3A, 6-23-2003**] | C1.4, K67.5, K67.20 |
| STORAGE TANK, EXTERNAL FLOATING ROOF, NO.4, 80000 BBL; DIAMETER: 117 FT 2 IN; HEIGHT: 41 FT 8 IN WITH<br>A/N: 395755<br><br>FLOATING ROOF, PONTOON<br><br>PRIMARY SEAL, CATEGORY A, METALLIC SHOE<br><br>SECONDARY SEAL, CATEGORY B OR BETTER PER RULE 219(C)(4) | D1145 | | | **HAP**: (10) [**40CFR 63 Subpart CC, #2, 6-23-2003**] | K67.5 |

* (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
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(9) See App B for Emission Limits
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# FACILITY PERMIT TO OPERATE
# BP WEST COAST PROD.LLC BP CARSON REF.

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

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|---|---|---|---|---|---|
| **Process 16: PETROLEUM STORAGE TANKS** | | | | | |
| STORAGE TANK, EXTERNAL FLOATING ROOF, NO.5, 80000 BBL; DIAMETER: 117 FT 2 IN; HEIGHT: 41 FT 10 IN WITH<br>A/N: 396083<br><br>FLOATING ROOF, DOUBLE DECK, RIVETED SHELL<br><br>PRIMARY SEAL, CATEGORY A<br><br>SECONDARY SEAL, CATEGORY A | D1146 | | | **HAP**: (10) [**40CFR 63 Subpart CC, #3A, 6-23-2003**] | K67.5 |
| STORAGE TANK, EXTERNAL FLOATING ROOF, NO.6, 240000 BBL; DIAMETER: 176 FT 6 IN; HEIGHT: 58 FT WITH<br>A/N: 395666<br><br>FLOATING ROOF, PONTOON, WELDED SHELL<br><br>PRIMARY SEAL, CATEGORY A, METALLIC SHOE<br><br>SECONDARY SEAL, CATEGORY B OR BETTER PER RULE 219(C)(4), WIPER TYPE | D1147 | | | **HAP**: (10) [**40CFR 63 Subpart CC, #3A, 6-23-2003**] | B22.6, C1.31, H23.13, K67.20, K67.21 |

* (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
# BP WEST COAST PROD.LLC BP CARSON REF.

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

| Equipment | ID No. | Connected To | RECLAIM Source Type/ Monitoring Unit | Emissions * And Requirements | Conditions |
|---|---|---|---|---|---|
| **Process 16: PETROLEUM STORAGE TANKS** | | | | | |
| STORAGE TANK, EXTERNAL FLOATING ROOF, NO.8, 240000 BBL; DIAMETER: 176 FT 6 IN; HEIGHT: 58 FT WITH<br>A/N: 395665<br><br>FLOATING ROOF, PONTOON, WELDED SHELL<br><br>PRIMARY SEAL, CATEGORY A, METALLIC SHOE<br><br>SECONDARY SEAL, CATEGORY B OR BETTER PER RULE 219(C)(4), WIPER TYPE | D1148 | | | **HAP**: (10) [**40CFR 63 Subpart CC, #3A, 6-23-2003**] | B22.6, C1.31, H23.13, K67.20, K67.21 |

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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
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# FACILITY PERMIT TO OPERATE
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## 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 |
|---|---|---|---|---|---|
| **Process 16: PETROLEUM STORAGE TANKS** | | | | | |
| STORAGE TANK, INTERNAL FLOATING ROOF, NO.14, GASOLINE, SOUR NAPHTHA, ISOOCTANE, ALKYLATE, TOLUENE, GAS OIL, UNTREATED WASTEWATER, 360000 BBL; DIAMETER: 200 FT ; HEIGHT: 64 FT WITH A/N: 513832<br><br>FLOATING ROOF, PONTOON, WELDED SHELL<br><br>PRIMARY SEAL, CATEGORY A, METALLIC SHOE<br><br>SECONDARY SEAL, CATEGORY A, RIM MOUNTED<br><br>GUIDEPOLE, SLOTTED, WITH GASKETED SLIDING COVER, POLE SLEEVE AND POLE WIPER | D1150 | | | **BENZENE**: (10) [**40CFR 61 Subpart FF, #2, 12-4-2003**]; **HAP**: (10) [**40CFR 63 Subpart CC, #3A, 6-23-2003**] | C1.10, C6.1, E71.16, E193.10, H23.12, H23.25 |
| STORAGE TANK, EXTERNAL FLOATING ROOF, NO.33, 80000 BBL; DIAMETER: 117 FT 2 IN; HEIGHT: 42 FT 10 IN WITH A/N: 406117<br><br>FLOATING ROOF, RIVETED SHELL<br><br>PRIMARY SEAL, CATEGORY A | D1159 | | | **HAP**: (10) [**40CFR 63 Subpart CC, #2, 6-23-2003**] | B22.9, C1.72, K67.5 |

* (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
# BP WEST COAST PROD.LLC BP CARSON REF.

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

| Equipment | ID No. | Connected To | RECLAIM Source Type/ Monitoring Unit | Emissions * And Requirements | Conditions |
|---|---|---|---|---|---|
| **Process 16: PETROLEUM STORAGE TANKS** | | | | | |
| STORAGE TANK, EXTERNAL FLOATING ROOF, NO.34, 100000 BBL WITH<br>A/N: 406118<br><br>FLOATING ROOF, DOUBLE DECK<br><br>PRIMARY SEAL, CATEGORY A | D1160 | | | **HAP**: (10) [**40CFR 63 Subpart CC, #2, 6-23-2003**] | B22.9, C1.72, K67.5 |
| STORAGE TANK, INTERNAL FLOATING ROOF, NO.36, 24000 BBL; DIAMETER: 60 FT ; HEIGHT: 48 FT WITH<br>A/N: 395723<br><br>FLOATING ROOF<br><br>PRIMARY SEAL, CATEGORY A, METALLIC SHOE<br><br>SECONDARY SEAL, CATEGORY B OR BETTER PER RULE 219(C)(4), WIPER TYPE | D1162 | | | **HAP**: (10) [**40CFR 63 Subpart CC, #3A, 6-23-2003**] | B22.7, C1.26, C6.1, H23.5, K67.20, K67.21 |

* (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
# BP WEST COAST PROD.LLC BP CARSON REF.

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

| Equipment | ID No. | Connected To | RECLAIM Source Type/ Monitoring Unit | Emissions * And Requirements | Conditions |
|---|---|---|---|---|---|
| **Process 16: PETROLEUM STORAGE TANKS** | | | | | |
| STORAGE TANK, INTERNAL FLOATING ROOF, NO.37, 15000 BBL; DIAMETER: 60 FT ; HEIGHT: 32 FT WITH<br>A/N: 395724<br><br>FLOATING ROOF<br><br>PRIMARY SEAL, CATEGORY A, METALLIC SHOE<br><br>SECONDARY SEAL, CATEGORY B OR BETTER PER RULE 219(C)(4), WIPER TYPE | D1163 | | | **HAP**: (10) [**40CFR 63 Subpart CC, #3A, 6-23-2003**] | B22.7, C1.26, C6.1, H23.5, K67.20, K67.21 |
| STORAGE TANK, EXTERNAL FLOATING ROOF, NO.39, 32900 BBL; DIAMETER: 70 FT ; HEIGHT: 48 FT WITH<br>A/N: 487104<br><br>FLOATING ROOF, DOUBLE DECK, WELDED SHELL<br><br>PRIMARY SEAL, CATEGORY A, METALLIC SHOE<br><br>SECONDARY SEAL, RIM MOUNTED, CATEGORY B<br><br>GUIDEPOLE, GASKETED SLIDING COVER, WITH WIPER, UNSLOTTED | D1164 | | | **HAP**: (10) [**40CFR 63 Subpart CC, #3A, 6-23-2003**] | B22.19, K67.5, K67.21, 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
# BP WEST COAST PROD.LLC BP CARSON REF.

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

| Equipment | ID No. | Connected To | RECLAIM Source Type/ Monitoring Unit | Emissions * And Requirements | Conditions |
|---|---|---|---|---|---|
| **Process 16: PETROLEUM STORAGE TANKS** | | | | | |
| STORAGE TANK, EXTERNAL FLOATING ROOF, NO.40, JET FUEL (JP4), WITH A HORIZONTALLY MOUNTED CHEMINEER MIXER, 100000 BBL; DIAMETER: 135 FT ; HEIGHT: 41 FT WITH<br>A/N: 395784<br><br>FLOATING ROOF, DOUBLE DECK, RIVETED SHELL<br><br>PRIMARY SEAL, CATEGORY A, METALLIC SHOE<br><br>SECONDARY SEAL, CATEGORY B OR BETTER PER RULE 219(C)(4) | D1165 | | | **HAP**: (10) [**40CFR 63 Subpart CC, #2, 6-23-2003**] | K67.5 |
| STORAGE TANK, EXTERNAL FLOATING ROOF, NO.57, 97650 BBL; DIAMETER: 134 FT 9 IN; HEIGHT: 40 FT 7 IN WITH<br>A/N: 395713<br><br>FLOATING ROOF, PONTOON<br><br>PRIMARY SEAL, CATEGORY A, METALLIC SHOE<br><br>SECONDARY SEAL, CATEGORY B OR BETTER PER RULE 219(C)(4), WIPER TYPE | D1175 | | | **HAP**: (10) [**40CFR 63 Subpart CC, #2, 6-23-2003**] | K67.5 |

* (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
# BP WEST COAST PROD.LLC BP CARSON REF.

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

| Equipment | ID No. | Connected To | RECLAIM Source Type/ Monitoring Unit | Emissions * And Requirements | Conditions |
|---|---|---|---|---|---|
| **Process 16: PETROLEUM STORAGE TANKS** | | | | | |
| STORAGE TANK, EXTERNAL FLOATING ROOF, NO.96, 24000 BBL; DIAMETER: 60 FT ; HEIGHT: 48 FT WITH<br>A/N: 395307<br><br>FLOATING ROOF, DOUBLE DECK, WELDED SHELL<br><br>PRIMARY SEAL, CATEGORY A, METALLIC SHOE<br><br>SECONDARY SEAL | D1185 | | | **HAP**: (10) [**40CFR 63 Subpart CC, #2, 6-23-2003**] | K67.5 |
| STORAGE TANK, EXTERNAL FLOATING ROOF, NO.97, 24000 BBL; DIAMETER: 60 FT ; HEIGHT: 48 FT WITH<br>A/N: 395311<br><br>FLOATING ROOF, DOUBLE DECK, WELDED SHELL<br><br>PRIMARY SEAL, CATEGORY A, METALLIC SHOE<br><br>SECONDARY SEAL | D1186 | | | **HAP**: (10) [**40CFR 63 Subpart CC, #2, 6-23-2003**] | K67.5 |

* (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
# BP WEST COAST PROD.LLC BP CARSON REF.

## 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 |
|---|---|---|---|---|---|
| **Process 16: PETROLEUM STORAGE TANKS** | | | | | |
| STORAGE TANK, EXTERNAL FLOATING ROOF, NO.152, 9000 BBL; DIAMETER: 40 FT ; HEIGHT: 40 FT WITH<br>A/N: 395844<br><br>FLOATING ROOF, DOUBLE DECK, WELDED SHELL<br><br>PRIMARY SEAL, CATEGORY A, METALLIC SHOE<br><br>SECONDARY SEAL | D1187 | | | **HAP**: (10) [**40CFR 63 Subpart CC, #2, 6-23-2003**] | K67.5 |
| STORAGE TANK, EXTERNAL FLOATING ROOF, NO.187, WITH HORIZONTALLY MOUNTED LIGHTNIN MIXER, 24170 BBL; DIAMETER: 60 FT ; HEIGHT: 48 FT WITH<br>A/N: 487105<br><br>FLOATING ROOF, DOUBLE DECK, WELDED SHELL<br><br>PRIMARY SEAL, CATEGORY A, METALLIC SHOE<br><br>SECONDARY SEAL, RIM MOUNTED, CATEGORY B<br><br>GUIDEPOLE, SLOTTED, WITH GASKETED SLIDING COVER, POLE SLEEVE, AND POLE WIPER | D1193 | | | **HAP**: (10) [**40CFR 63 Subpart CC, #2, 6-23-2003**] | B22.19, K67.5, K67.21, 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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** Refer to section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.

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

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

| Equipment | ID No. | Connected To | RECLAIM Source Type/ Monitoring Unit | Emissions * And Requirements | Conditions |
|---|---|---|---|---|---|
| **Process 16: PETROLEUM STORAGE TANKS** | | | | | |
| STORAGE TANK, WELDED SHELL, INTERNAL FLOATING ROOF, NO.21, 333731 BBL; DIAMETER: 186 FT ; HEIGHT: 69 FT WITH<br>A/N: 448851<br><br>FLOATING ROOF, PONTOON<br><br>PRIMARY SEAL, CATEGORY A, METALLIC SHOE<br><br>SECONDARY SEAL, CATEGORY A, RIM MOUNTED, WIPER TYPE<br><br>GUIDEPOLE, GASKETED COVER, WITH POLE SLEEVE, WIPER, SLOTTED | D1199 | | | **BENZENE**: (10) [**40CFR 61 Subpart FF, #2, 12-4-2003**] | C1.51, C6.1, E193.19, H23.12, H23.25 |
| STORAGE TANK, EXTERNAL FLOATING ROOF, NO.13, CRUDE OIL, 460000 BBL; DIAMETER: 230 FT ; HEIGHT: 69 FT WITH<br>A/N: 396027<br><br>FLOATING ROOF, PONTOON, WELDED SHELL<br><br>PRIMARY SEAL, CATEGORY A, METALLIC SHOE<br><br>SECONDARY SEAL, CATEGORY B OR BETTER PER RULE 219(C)(4), RIM MOUNTED | D2153 | | | **HAP**: (10) [**40CFR 63 Subpart CC, #3A, 6-23-2003**] | C1.39, H23.5, K67.20 |

* (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
# BP WEST COAST PROD.LLC BP CARSON REF.

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

| Equipment | ID No. | Connected To | RECLAIM Source Type/ Monitoring Unit | Emissions * And Requirements | Conditions |
|---|---|---|---|---|---|
| **Process 16: PETROLEUM STORAGE TANKS** | | | | | |
| FUGITIVE EMISSIONS, MISCELLANEOUS<br>A/N: 448851 | D2590 | | | **HAP**: (10) [**40CFR 63 Subpart CC, #5A, 6-23-2003**] | H23.3 |
| **System 3: PRESSURIZED TANKS** | | | | | S13.3, S15.51, S46.2, S46.3, S56.1 |
| STORAGE TANK, PRESSURIZED, NO.75, SPHERICAL, 15000 BBL; DIAMETER: 60 FT 5 IN<br>A/N: 414402 | D1200 | | | | |
| STORAGE TANK, PRESSURIZED, TK NO.138, PENTANE, 9000 BBL; DIAMETER: 40 FT ; HEIGHT: 40 FT<br>A/N: 395605 | D1650 | | | | |
| STORAGE TANK, PRESSURIZED, NO.194, 3000 BBL; DIAMETER: 32 FT<br>A/N: 414420 | D1201 | | | **BENZENE**: (10) [**40CFR 61 Subpart FF, #2, 12-4-2003**];<br>**VOC**: 500 PPMV (8) [**40CFR 61 Subpart FF, 12-4-2003**] | H23.12 |
| STORAGE TANK, PRESSURIZED, TK NO.139, PENTANE, WITH 1 PRESSURE RELIEF VALVE, 9000 BBL; DIAMETER: 40 FT ; HEIGHT: 40 FT<br>A/N: 395607 | D1651 | | | | |
| STORAGE TANK, PRESSURIZED, NO.78, SPHERE, MIXED BUTANES, 10200 BBL; DIAMETER: 46 FT<br>A/N: 395658 | D1202 | | | | |

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

## 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 |
|---|---|---|---|---|---|
| **Process 16: PETROLEUM STORAGE TANKS** | | | | | |
| STORAGE TANK, PRESSURIZED, # 681, SPHERE, WELDED SHELL, WITH THREE EMERGENCY PRESSURE RELIEF VALVES VENTED TO ATMOSPHERE, 30000 BBL; DIAMETER: 69 FT A/N: 414440 | D1652 | | | | |
| STORAGE TANK, PRESSURIZED, # 682, SPHERE, WELDED SHELL, WITH THREE EMERGENCY PRESSURE RELIEF VALVES VENTED TO ATMOSPHERE, 30000 BBL; DIAMETER: 69 FT A/N: 414441 | D1653 | | | | |
| STORAGE TANK, PRESSURIZED, NO.86, SPHERE, BUTANE, 15000 BBL A/N: 395299 | D1203 | | | | |
| STORAGE TANK, PRESSURIZED, # 683, SPHERE, WELDED SHELL, WITH THREE EMERGENCY PRESSURE RELIEF VALVES VENTED TO ATMOSPHERE, 30000 BBL; DIAMETER: 69 FT A/N: 414442 | D1654 | | | | |
| STORAGE TANK, PRESSURIZED, NO.88, HORTONSPHERE, BUTANE-BUTYLENE, 15000 BBL; DIAMETER: 54 FT 9 IN A/N: 395305 | D1204 | | | | |

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

## 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 |
|---|---|---|---|---|---|
| **Process 16: PETROLEUM STORAGE TANKS** | | | | | |
| STORAGE TANK, PRESSURIZED, # 684, SPHERE, WELDED SHELL, WITH THREE EMERGENCY PRESSURE RELIEF VALVES VENTED TO ATMOSPHERE, 30000 BBL; DIAMETER: 69 FT A/N: 414444 | D1655 | | | | |
| STORAGE TANK, PRESSURIZED, NO.89, HORTONSPHERE, ISO-BUTANE, 15000 BBL; DIAMETER: 54 FT 9 IN A/N: 396117 | D1205 | | | | |
| STORAGE TANK, PRESSURIZED, NO.274, PROPANE, 1000 BBL; DIAMETER: 9 FT 8 IN; LENGTH: 67 FT 10 IN A/N: 395661 | D1206 | | | | |
| STORAGE TANK, PRESSURIZED, NO.275, PROPANE, 1000 BBL; DIAMETER: 9 FT 8 IN; LENGTH: 64 FT 6 IN A/N: 395660 | D1207 | | | | |
| STORAGE TANK, PRESSURIZED, NO.276, PROPANE, 1000 BBL; DIAMETER: 9 FT 8 IN; LENGTH: 64 FT 6 IN A/N: 395659 | D1208 | | | | |
| STORAGE TANK, PRESSURIZED, NO.301, 940 BBL; DIAMETER: 9 FT 8 IN; LENGTH: 67 FT 10 IN A/N: 396111 | D1209 | | | | |

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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.)
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# BP WEST COAST PROD.LLC BP CARSON REF.

## 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 |
|---|---|---|---|---|---|
| **Process 16: PETROLEUM STORAGE TANKS** | | | | | |
| STORAGE TANK, PRESSURIZED, NO.302, 940 BBL; DIAMETER: 9 FT 8 IN; LENGTH: 67 FT 10 IN<br>A/N: 395327 | D1210 | | | | |
| STORAGE TANK, PRESSURIZED, NO.303, 940 BBL; DIAMETER: 9 FT 8 IN; LENGTH: 67 FT 10 IN<br>A/N: 395329 | D1211 | | | | |
| STORAGE TANK, PRESSURIZED, NO.325, PROPANE, 1000 BBL; DIAMETER: 9 FT 8 IN; LENGTH: 67 FT 10 IN<br>A/N: 395664 | D1212 | | | | |
| STORAGE TANK, PRESSURIZED, NO.326, PROPANE, 1000 BBL; DIAMETER: 9 FT 8 IN; LENGTH: 67 FT 10 IN<br>A/N: 395663 | D1213 | | | | |
| STORAGE TANK, PRESSURIZED, NO. 327, PROPANE, 1000 BBL; DIAMETER: 10 FT 8 IN; LENGTH: 64 FT 8 IN<br>A/N: 395662 | D1214 | | | | |
| STORAGE TANK, PRESSURIZED, NO.340, CYLINDRICAL, LIQUIFIED PROPANE, 720 BBL; DIAMETER: 10 FT 1 IN; LENGTH: 43 FT 8 IN<br>A/N: 395714 | D1215 | | | | |
| STORAGE TANK, PRESSURIZED, NO.341, CYLINDRICAL, LIQUIFIED PROPANE, 720 BBL; DIAMETER: 10 FT 1 IN; LENGTH: 43 FT 8 IN<br>A/N: 395715 | D1216 | | | | |

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

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

| Equipment | ID No. | Connected To | RECLAIM Source Type/ Monitoring Unit | Emissions * And Requirements | Conditions |
|---|---|---|---|---|---|
| **Process 16: PETROLEUM STORAGE TANKS** | | | | | |
| STORAGE TANK, PRESSURIZED, NO.342, CYLINDRICAL, LIQUIFIED PROPANE, 720 BBL; DIAMETER: 10 FT 1 IN; LENGTH: 43 FT 8 IN A/N: 395716 | D1217 | | | | |
| STORAGE TANK, PRESSURIZED, NO.73, SPHERE, MIXED BUTANE, 30000 BBL; DIAMETER: 69 FT A/N: 395782 | D1218 | | | | |
| STORAGE TANK, PRESSURIZED, NO.76, SPHERE, BUTANE-BUTYLENE, 30000 BBL; DIAMETER: 69 FT A/N: 414403 | D1219 | | | | |
| STORAGE TANK, PRESSURIZED, NO.87, SPHERE, BUTANE, 15000 BBL A/N: 396118 | D1220 | | | | |
| STORAGE TANK, PRESSURIZED, NO.343, CYLINDRICAL, LIQUIFIED PROPANE, 720 BBL; DIAMETER: 10 FT 1 IN; LENGTH: 43 FT 8 IN A/N: 395717 | D1221 | | | | |
| STORAGE TANK, PRESSURIZED, NO.79, SPHERE, MIXED BUTANES, 5000 BBL; DIAMETER: 38 FT A/N: 395657 | D1222 | | | | |
| STORAGE TANK, PRESSURIZED, NO.74, SPHERICAL, 15000 BBL; DIAMETER: 60 FT 5 IN A/N: 414401 | D1223 | | | | |

* (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
# BP WEST COAST PROD.LLC BP CARSON REF.

## 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 |
|---|---|---|---|---|---|
| **Process 16: PETROLEUM STORAGE TANKS** | | | | | |
| STORAGE TANK, PRESSURIZED, NO.955, 40000 BBL; DIAMETER: 75 FT 6 IN<br>A/N: 419008 | D1225 | | | | E54.3 |
| STORAGE TANK, PRESSURIZED, TK.350, PROPANE/PROPYLENE, 1550 BBL; DIAMETER: 12 FT ; LENGTH: 84 FT<br>A/N: 414421 | D2115 | | | | |
| STORAGE TANK, PRESSURIZED, TK.351, PROPANE/PROPYLENE, 1550 BBL; DIAMETER: 12 FT ; LENGTH: 84 FT<br>A/N: 414427 | D2116 | | | | |
| STORAGE TANK, PRESSURIZED, TK.352, PROPANE/PROPYLENE, 1550 BBL; DIAMETER: 12 FT ; LENGTH: 84 FT<br>A/N: 414429 | D2117 | | | | |
| STORAGE TANK, PRESSURIZED, TK. 353, PROPANE/PROPYLENE, 1550 BBL; DIAMETER: 12 FT ; LENGTH: 84 FT<br>A/N: 414430 | D2118 | | | | |
| STORAGE TANK, PRESSURIZED, TK.354, PROPANE/PROPYLENE, 1550 BBL; DIAMETER: 12 FT ; LENGTH: 84 FT<br>A/N: 414431 | D2119 | | | | |
| STORAGE TANK, PRESSURIZED, TK.355, PROPANE/PROPYLENE, 1550 BBL; DIAMETER: 12 FT ; LENGTH: 84 FT<br>A/N: 414433 | D2120 | | | | |

* (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
# BP WEST COAST PROD.LLC BP CARSON REF.

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

| Equipment | ID No. | Connected To | RECLAIM Source Type/ Monitoring Unit | Emissions * And Requirements | Conditions |
|---|---|---|---|---|---|
| **Process 16: PETROLEUM STORAGE TANKS** | | | | | |
| STORAGE TANK, PRESSURIZED, RW 1016-367.02, PROPYLENE, SPHERE, 6000 BBL; DIAMETER: 42 FT<br>A/N: 414437 | D2353 | | | | |
| STORAGE TANK, PRESSURIZED, RW 1017-367.02, PROPYLENE, SPHERE, 6000 BBL; DIAMETER: 42 FT<br>A/N: 414438 | D2394 | | | | |
| FUGITIVE EMISSIONS, MISCELLANEOUS<br>A/N: 419008 | D2591 | | | **HAP**: (10) [**40CFR 63 Subpart CC, #5A, 6-23-2003**] | H23.3 |
| **System 4: DOMED FLOATING ROOF TANKS** | | | | | S13.11 |
| STORAGE TANK, DOMED EXTERNAL FLOATING ROOF, NO.27, 24170 BBL; DIAMETER: 60 FT ; HEIGHT: 48 FT WITH<br>A/N: 411587<br><br>FLOATING ROOF, DOUBLE DECK, WELDED SHELL<br><br>PRIMARY SEAL, CATEGORY A<br><br>SECONDARY SEAL, CATEGORY A, MATRIX A<br><br>DOME COVER, GEODESIC | D1153 | | | **HAP**: (10) [**40CFR 63 Subpart CC, #3A, 6-23-2003**] | C6.2, K67.5 |

* (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
# BP WEST COAST PROD.LLC BP CARSON REF.

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

| Equipment | ID No. | Connected To | RECLAIM Source Type/ Monitoring Unit | Emissions * And Requirements | Conditions |
|---|---|---|---|---|---|
| **Process 16: PETROLEUM STORAGE TANKS** | | | | | |
| STORAGE TANK, DOMED EXTERNAL FLOATING ROOF, NO.28, 24170 BBL; DIAMETER: 60 FT ; HEIGHT: 48 FT WITH A/N: 411588<br><br>FLOATING ROOF, DOUBLE DECK, WELDED SHELL<br><br>PRIMARY SEAL, CATEGORY A, MECHANICAL SHOE<br><br>SECONDARY SEAL, CATEGORY A, MATRIX FLEX "A"<br><br>DOME COVER, GEODESIC | D1154 | | | **HAP**: (10) [**40CFR 63 Subpart CC, #3A, 6-23-2003**] | C6.2, K67.12 |
| STORAGE TANK, DOMED EXTERNAL FLOATING ROOF, NO.29, 24170 BBL; DIAMETER: 60 FT ; HEIGHT: 48 FT WITH A/N: 411589<br><br>FLOATING ROOF, DOUBLE DECK, WELDED SHELL<br><br>PRIMARY SEAL, CATEGORY A, MECHANICAL SHOE<br><br>SECONDARY SEAL, CATEGORY A, MATRIX FLEX "A"<br><br>DOME COVER, GEODESIC | D1155 | | | **HAP**: (10) [**40CFR 63 Subpart CC, #3A, 6-23-2003**] | C6.2, K67.12 |

* (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
# BP WEST COAST PROD.LLC BP CARSON REF.

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

| Equipment | ID No. | Connected To | RECLAIM Source Type/ Monitoring Unit | Emissions * And Requirements | Conditions |
|---|---|---|---|---|---|
| **Process 16: PETROLEUM STORAGE TANKS** | | | | | |
| STORAGE TANK, DOMED EXTERNAL FLOATING ROOF, NO.30, 24170 BBL; DIAMETER: 60 FT ; HEIGHT: 48 FT WITH A/N: 411590<br><br>FLOATING ROOF, DOUBLE DECK, WELDED SHELL<br><br>PRIMARY SEAL, CATEGORY A, MECHANICAL SHOE<br><br>SECONDARY SEAL, CATEGORY A, MATRIX FLEX "A"<br><br>DOME COVER, GEODESIC | D1156 | | | **HAP**: (10) [**40CFR 63 Subpart CC, #3A, 6-23-2003**] | C6.2, K67.12 |
| STORAGE TANK, DOMED EXTERNAL FLOATING ROOF, NO.31, 78700 BBL; DIAMETER: 117 FT ; HEIGHT: 42 FT WITH A/N: 443344<br><br>FLOATING ROOF, DOUBLE DECK, RIVETED SHELL<br><br>PRIMARY SEAL, CATEGORY A, METALLIC SHOE<br><br>SECONDARY SEAL, CATEGORY A, RIM MOUNTED<br><br>DOME COVER, GEODESIC | D1157 | | | **HAP**: (10) [**40CFR 63 Subpart CC, #3A, 6-23-2003**] | C6.2, K67.12 |

* (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
# BP WEST COAST PROD.LLC BP CARSON REF.

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

| Equipment | ID No. | Connected To | RECLAIM Source Type/ Monitoring Unit | Emissions * And Requirements | Conditions |
|---|---|---|---|---|---|
| **Process 16: PETROLEUM STORAGE TANKS** | | | | | |
| STORAGE TANK, DOMED EXTERNAL FLOATING ROOF, NO.32, 75600 BBL; DIAMETER: 117 FT 2 IN; HEIGHT: 41 FT 10 IN WITH A/N: 443346<br><br>FLOATING ROOF, DOUBLE DECK, RIVETED SHELL<br><br>PRIMARY SEAL, CATEGORY A, MECHANICAL SHOE<br><br>SECONDARY SEAL, CATEGORY A, WIPER TYPE<br><br>DOME COVER, GEODESIC | D1158 | | | **HAP**: (10) [**40CFR 63 Subpart CC, #3A, 6-23-2003**] | C6.2, K67.12 |
| STORAGE TANK, DOMED EXTERNAL FLOATING ROOF, NO.35, 100000 BBL; DIAMETER: 135 FT ; HEIGHT: 41 FT WITH A/N: 430580<br><br>FLOATING ROOF, DOUBLE DECK, RIVETED SHELL<br><br>DOME COVER, GEODESIC<br><br>PRIMARY SEAL, CATEGORY A, MECHANICAL SHOE<br><br>SECONDARY SEAL, CATEGORY B OR BETTER, WIPER TYPE | D1161 | | | **HAP**: (10) [**40CFR 63 Subpart CC, #3A, 6-23-2003**] | C1.43, C6.2, K67.12 |

* (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
# BP WEST COAST PROD.LLC BP CARSON REF.

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

| Equipment | ID No. | Connected To | RECLAIM Source Type/ Monitoring Unit | Emissions * And Requirements | Conditions |
|---|---|---|---|---|---|
| **Process 16: PETROLEUM STORAGE TANKS** | | | | | |
| STORAGE TANK, DOMED EXTERNAL FLOATING ROOF, NO.41, GASOLINE, WITH A HORIZONTALLY MOUNTED MIXER, 120000 BBL; DIAMETER: 135 FT ; HEIGHT: 48 FT WITH A/N: 411568<br><br>FLOATING ROOF, DOUBLE DECK, WELDED SHELL<br><br>PRIMARY SEAL, CATEGORY A, MECHANICAL SHOE<br><br>SECONDARY SEAL, CATEGORY A, RIM MOUNTED, WIPER TYPE<br><br>DOME COVER, GEODESIC | D1166 | | | **HAP**: (10) [**40CFR 63 Subpart CC, #3A, 6-23-2003**] | C6.2, K67.12 |

* (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
# BP WEST COAST PROD.LLC BP CARSON REF.

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

| Equipment | ID No. | Connected To | RECLAIM Source Type/ Monitoring Unit | Emissions * And Requirements | Conditions |
|---|---|---|---|---|---|
| **Process 16: PETROLEUM STORAGE TANKS** | | | | | |
| STORAGE TANK, DOMED EXTERNAL FLOATING ROOF, NO.42, 91400 BBL; DIAMETER: 117 FT ; HEIGHT: 48 FT WITH A/N: 458858<br><br>FLOATING ROOF, DOUBLE DECK, WELDED SHELL<br><br>PRIMARY SEAL, CATEGORY A, METALLIC SHOE<br><br>SECONDARY SEAL, CATEGORY A, RIM MOUNTED<br><br>DOME COVER, GEODESIC<br><br>GUIDEPOLE, SLOTTED, WITH GASKETED SLIDING COVER, POLE SLEEVE AND POLE WIPER | D1167 | | | **HAP**: (10) [**40CFR 63 Subpart CC, #3A, 6-23-2003**] | C1.52, C6.2, K67.12 |

* (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
# BP WEST COAST PROD.LLC BP CARSON REF.

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

| Equipment | ID No. | Connected To | RECLAIM Source Type/ Monitoring Unit | Emissions * And Requirements | Conditions |
|---|---|---|---|---|---|
| **Process 16: PETROLEUM STORAGE TANKS** | | | | | |
| STORAGE TANK, EXTERNAL FLOATING ROOF, NO.45, WITH A SIDE MOUNTED-AGITATOR/MIXER, 99600 BBL; DIAMETER: 134 FT 10 IN; HEIGHT: 40 FT 7 IN WITH A/N: 421124<br><br>FLOATING ROOF, DOUBLE DECK, RIVETED SHELL<br><br>PRIMARY SEAL, CATEGORY A, MECHANICAL SHOE<br><br>SECONDARY SEAL, CATEGORY A, MATRIX FLEX "A"<br><br>DOME COVER, GEODESIC | D1168 | | | **HAP**: (10) [**40CFR 63 Subpart CC, #3A, 6-23-2003**] | C6.2, K67.12 |

* (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
# BP WEST COAST PROD.LLC BP CARSON REF.

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

| Equipment | ID No. | Connected To | RECLAIM Source Type/ Monitoring Unit | Emissions * And Requirements | Conditions |
|---|---|---|---|---|---|
| **Process 16: PETROLEUM STORAGE TANKS** | | | | | |
| STORAGE TANK, DOMED EXTERNAL FLOATING ROOF, NO.50, WITH HORIZONTALLY MOUNTED MIXER, 120000 BBL; DIAMETER: 134 FT ; HEIGHT: 48 FT WITH<br>A/N: 421117<br><br>FLOATING ROOF, DOUBLE DECK, WELDED SHELL<br><br>PRIMARY SEAL, CATEGORY A, MECHANICAL SHOE<br><br>SECONDARY SEAL, RIM MOUNTED, CATEGORY B<br><br>DOME COVER, GEODESIC | D1169 | | | **HAP**: (10) [**40CFR 63 Subpart CC, #3A, 6-23-2003**] | C6.2, K67.12 |

* (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
# BP WEST COAST PROD.LLC BP CARSON REF.

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

| Equipment | ID No. | Connected To | RECLAIM Source Type/ Monitoring Unit | Emissions * And Requirements | Conditions |
|---|---|---|---|---|---|
| **Process 16: PETROLEUM STORAGE TANKS** | | | | | |
| STORAGE TANK, DOMED EXTERNAL FLOATING ROOF, NO.51, RIVETED SHELL, WITH SIDE MOUNTED AGITATOR/MIXER, 100000 BBL; DIAMETER: 134 FT 9 IN; HEIGHT: 40 FT 7 IN WITH A/N: 430581<br><br>FLOATING ROOF, DOUBLE DECK, RIVETED SHELL<br><br>PRIMARY SEAL, CATEGORY A, MECHANICAL SHOE<br><br>SECONDARY SEAL, CATEGORY B OR BETTER, WIPER TYPE<br><br>DOME COVER, GEODESIC | D1170 | | | **HAP**: (10) [**40CFR 63 Subpart CC, #3A, 6-23-2003**] | C6.2, K67.12 |

* (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
# BP WEST COAST PROD.LLC BP CARSON REF.

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

| Equipment | ID No. | Connected To | RECLAIM Source Type/ Monitoring Unit | Emissions * And Requirements | Conditions |
|---|---|---|---|---|---|
| **Process 16: PETROLEUM STORAGE TANKS** | | | | | |
| STORAGE TANK, DOMED EXTERNAL FLOATING ROOF, NO.52, GASOLINE, WITH HORIZONTALLY MOUNTED MIXER, 122400 BBL; DIAMETER: 135 FT ; HEIGHT: 48 FT WITH A/N: 430582<br><br>FLOATING ROOF, DOUBLE DECK, WELDED SHELL<br><br>DOME COVER, GEODESIC<br><br>PRIMARY SEAL, CATEGORY A, MECHANICAL SHOE<br><br>SECONDARY SEAL, CATEGORY B OR BETTER, WIPER TYPE | D1171 | | | **HAP**: (10) [**40CFR 63 Subpart CC, #3A, 6-23-2003**] | C1.44, C6.2, K67.12 |

* (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
# BP WEST COAST PROD.LLC BP CARSON REF.

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

| Equipment | ID No. | Connected To | RECLAIM Source Type/ Monitoring Unit | Emissions * And Requirements | Conditions |
|---|---|---|---|---|---|
| **Process 16: PETROLEUM STORAGE TANKS** | | | | | |
| STORAGE TANK, DOMED EXTERNAL FLOATING ROOF, NO.53, WITH HORIZONTALLY MOUNTED MIXER, 112735 BBL; DIAMETER: 134 FT 9 IN; HEIGHT: 40 FT 7 IN WITH<br>A/N: 443370<br><br>FLOATING ROOF, PONTOON, WELDED SHELL<br><br>PRIMARY SEAL, CATEGORY A, MECHANICAL SHOE<br><br>SECONDARY SEAL, RIM MOUNTED, CATEGORY B<br><br>DOME COVER, GEODESIC | D1172 | | | **HAP**: (10) [**40CFR 63 Subpart CC, #3A, 6-23-2003**] | C6.2, K67.12 |

* (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
# BP WEST COAST PROD.LLC BP CARSON REF.

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

| Equipment | ID No. | Connected To | RECLAIM Source Type/ Monitoring Unit | Emissions * And Requirements | Conditions |
|---|---|---|---|---|---|
| **Process 16: PETROLEUM STORAGE TANKS** | | | | | |
| STORAGE TANK, DOMED EXTERNAL FLOATING ROOF, NO.54, WITH A HORIZONTALLY MOUNTED MIXER, 164330 BBL; DIAMETER: 155 FT ; HEIGHT: 55 FT WITH<br>A/N: 458859<br><br>FLOATING ROOF, PONTOON<br><br>PRIMARY SEAL, CATEGORY A, METALLIC SHOE<br><br>SECONDARY SEAL, CATEGORY A, RIM MOUNTED<br><br>DOME COVER, GEODESIC<br><br>GUIDEPOLE, SLOTTED, WITH GASKETED SLIDING COVER, POLE SLEEVE AND POLE WIPER | D1173 | | | **HAP**: (10) [**40CFR 63 Subpart CC, #3A, 6-23-2003**] | C1.53, C6.2, H23.7, K67.12 |

* (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
# BP WEST COAST PROD.LLC BP CARSON REF.

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

| Equipment | ID No. | Connected To | RECLAIM Source Type/ Monitoring Unit | Emissions * And Requirements | Conditions |
|---|---|---|---|---|---|
| **Process 16: PETROLEUM STORAGE TANKS** | | | | | |
| STORAGE TANK, DOMED EXTERNAL FLOATING ROOF, NO.55, WITH HORIZONTALLY MOUNTED MIXER, 102800 BBL; DIAMETER: 134 FT 9 IN; HEIGHT: 40 FT 7 IN WITH<br>A/N: 443390<br><br>FLOATING ROOF, PONTOON, RIVETED SHELL<br><br>PRIMARY SEAL, CATEGORY A, MECHANICAL SHOE<br><br>SECONDARY SEAL, RIM MOUNTED, CATEGORY B<br><br>DOME COVER, GEODESIC | D1174 | | | **HAP**: (10) [**40CFR 63 Subpart CC, #3A, 6-23-2003**] | C6.2, K67.12 |

* (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
# BP WEST COAST PROD.LLC BP CARSON REF.

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

| Equipment | ID No. | Connected To | RECLAIM Source Type/ Monitoring Unit | Emissions * And Requirements | Conditions |
|---|---|---|---|---|---|
| **Process 16: PETROLEUM STORAGE TANKS** | | | | | |
| STORAGE TANK, DOMED EXTERNAL FLOATING ROOF, NO.64, 100200 BBL; DIAMETER: 134 FT 7 IN; HEIGHT: 40 FT 7 IN WITH A/N: 477593<br><br>FLOATING ROOF, DOUBLE DECK, RIVETED SHELL<br><br>PRIMARY SEAL, CATEGORY A, METALLIC SHOE<br><br>SECONDARY SEAL, CATEGORY A, RIM MOUNTED<br><br>DOME COVER, GEODESIC<br><br>GUIDEPOLE, SLOTTED, WITH GASKETED SLIDING COVER, POLE SLEEVE, AND POLE WIPER | D1176 | | | **HAP**: (10) [**40CFR 63 Subpart CC, #3A, 6-23-2003**] | C6.2, K67.12 |

* (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
# BP WEST COAST PROD.LLC BP CARSON REF.

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

| Equipment | ID No. | Connected To | RECLAIM Source Type/ Monitoring Unit | Emissions * And Requirements | Conditions |
|---|---|---|---|---|---|
| **Process 16: PETROLEUM STORAGE TANKS** | | | | | |
| STORAGE TANK, DOMED EXTERNAL FLOATING ROOF, N0.65, 152650 BBL; DIAMETER: 150 FT ; HEIGHT: 55 FT WITH A/N: 500015<br><br>FLOATING ROOF, PONTOON, WELDED SHELL<br><br>PRIMARY SEAL, CATEGORY A, METALLIC SHOE<br><br>SECONDARY SEAL, CATEGORY B OR BETTER, WIPER TYPE<br><br>DOME COVER, GEODESIC<br><br>GUIDEPOLE, SLOTTED, WITH GASKETED SLIDING COVER, POLE SLEEVE AND POLE WIPER | D1177 | | | **HAP**: (10) [**40CFR 63 Subpart CC, #3A, 6-23-2003**] | C1.76, C6.2, E71.21, H23.7, K67.12 |

* (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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# BP WEST COAST PROD.LLC BP CARSON REF.

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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|---|---|---|---|---|---|
| **Process 16: PETROLEUM STORAGE TANKS** | | | | | |
| STORAGE TANK, DOMED EXTERNAL FLOATING ROOF, NO.66, WITH A JENSEN FIXED ANGLE SIDE-MOUNTED MIXER, 122400 BBL; DIAMETER: 135 FT ; HEIGHT: 48 FT WITH A/N: 443342<br><br>FLOATING ROOF, PONTOON, WELDED SHELL<br><br>PRIMARY SEAL, CATEGORY A, METALLIC SHOE<br><br>SECONDARY SEAL, CATEGORY B OR BETTER, RIM MOUNTED<br><br>DOME COVER, GEODESIC<br><br>GUIDEPOLE, SLOTTED, WITH GASKETED SLIDING COVER, POLE SLEEVE AND POLE WIPER | D1178 | | | **HAP**: (10) [**40CFR 63 Subpart CC, #3A, 6-23-2003**] | C1.45, C6.2, E71.21, H23.5, K67.12 |

* (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
# BP WEST COAST PROD.LLC BP CARSON REF.

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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|---|---|---|---|---|---|
| **Process 16: PETROLEUM STORAGE TANKS** | | | | | |
| STORAGE TANK, DOMED EXTERNAL FLOATING ROOF, NO.67, WITH THREE AGITATOR MOTORS, 122000 BBL; DIAMETER: 135 FT ; HEIGHT: 48 FT WITH A/N: 473329<br><br>FLOATING ROOF, PONTOON, WELDED SHELL<br><br>PRIMARY SEAL, CATEGORY A, METALLIC SHOE<br><br>SECONDARY SEAL, RIM MOUNTED, CATEGORY B, SINGLE WIPER<br><br>DOME COVER, GEODESIC<br><br>GUIDEPOLE, SLOTTED, WITH GASKETED SLIDING COVER, POLE SLEEVE, AND POLE WIPER | D1179 | | | **HAP**: (10) [**40CFR 63 Subpart CC, #3A, 6-23-2003**] | C6.2, K67.12, K171.1 |

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

## 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 |
|---|---|---|---|---|---|
| **Process 16: PETROLEUM STORAGE TANKS** | | | | | |
| STORAGE TANK, DOMED EXTERNAL FLOATING ROOF, NO.68, EQUIPPED WITH TWO MIXERS, LIGHTNIN, 122400 BBL; DIAMETER: 135 FT ; HEIGHT: 48 FT WITH<br>A/N: 421122<br><br>FLOATING ROOF, PONTOON, WELDED SHELL<br><br>PRIMARY SEAL, CATEGORY A, MECHANICAL SHOE<br><br>SECONDARY SEAL, RIM MOUNTED, CATEGORY B<br><br>DOME COVER, GEODESIC | D1180 | | | **HAP**: (10) [**40CFR 63 Subpart CC, #3A, 6-23-2003**] | C1.17, C6.2, K67.12, K67.20 |

* (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
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## 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 |
|---|---|---|---|---|---|
| **Process 16: PETROLEUM STORAGE TANKS** | | | | | |
| STORAGE TANK, DOMED EXTERNAL FLOATING ROOF, NO.69, WITH THREE HORIZONTALLY MOUNTED PATTERSON MIXERS, EACH WITH A MOTOR, 122400 BBL; DIAMETER: 135 FT ; HEIGHT: 48 FT WITH A/N: 430579<br><br>FLOATING ROOF, DOUBLE DECK, WELDED SHELL<br><br>PRIMARY SEAL, CATEGORY A, MECHANICAL SHOE<br><br>SECONDARY SEAL, CATEGORY B OR BETTER, WIPER TYPE<br><br>DOME COVER, GEODESIC | D1181 | | | **HAP**: (10) [**40CFR 63 Subpart CC, #3A, 6-23-2003**] | C6.2, K67.12 |

* (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
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## 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 |
|---|---|---|---|---|---|
| **Process 16: PETROLEUM STORAGE TANKS** | | | | | |
| STORAGE TANK, DOMED EXTERNAL FLOATING ROOF, NO.70, WITH THREE HORIZONTALLY MOUNTED PATTERSON MIXERS, EACH WITH A MOTOR, 122400 BBL; DIAMETER: 135 FT ; HEIGHT: 48 FT WITH A/N: 473330<br><br>FLOATING ROOF, DOUBLE DECK, WELDED SHELL<br><br>PRIMARY SEAL, CATEGORY A, METALLIC SHOE<br><br>SECONDARY SEAL, CATEGORY A, RIM MOUNTED, WIPER TYPE<br><br>DOME COVER, GEODESIC<br><br>GUIDEPOLE, SLOTTED, WITH GASKETED SLIDING COVER, POLE SLEEVE, AND POLE WIPER | D1182 | | | **HAP**: (10) [**40CFR 63 Subpart CC, #3A, 6-23-2003**] | C6.2, K67.12, K171.1 |

* (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
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## 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 |
|---|---|---|---|---|---|
| **Process 16: PETROLEUM STORAGE TANKS** | | | | | |
| STORAGE TANK, DOMED EXTERNAL FLOATING ROOF, NO.71, WITH THREE HORIZONTALLY MOUNTED PATTERSON MIXERS, EACH WITH A MOTOR, 122400 BBL; DIAMETER: 135 FT ; HEIGHT: 48 FT WITH A/N: 458861<br><br>FLOATING ROOF, DOUBLE DECK, WELDED SHELL<br><br>PRIMARY SEAL, CATEGORY A, METALLIC SHOE<br><br>SECONDARY SEAL, CATEGORY A, RIM MOUNTED<br><br>DOME COVER, GEODESIC<br><br>GUIDEPOLE, SLOTTED, WITH GASKETED SLIDING COVER, POLE SLEEVE AND POLE WIPER | D1183 | | | **HAP**: (10) [**40CFR 63 Subpart CC, #3A, 6-23-2003**] | C6.2, K67.12 |

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

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|---|---|---|---|---|---|
| **Process 16: PETROLEUM STORAGE TANKS** | | | | | |
| STORAGE TANK, EXTERNAL FLOATING ROOF, NO.91, 80000 BBL; DIAMETER: 117 FT ; HEIGHT: 42 FT 10 IN WITH<br>A/N: 421102<br><br>FLOATING ROOF, PONTOON, RIVETED SHELL<br><br>PRIMARY SEAL, CATEGORY A, MECHANICAL SHOE<br><br>SECONDARY SEAL, CATEGORY A, MATRIX FLEX "A"<br><br>DOME COVER, GEODESIC | D1184 | | | **HAP**: (10) [**40CFR 63 Subpart CC, #3A, 6-23-2003**] | C1.15, C6.2, K67.12, K67.20 |
| STORAGE TANK, EXTERNAL FLOATING ROOF, NO.154, 9000 BBL; DIAMETER: 40 FT ; HEIGHT: 40 FT WITH<br>A/N: 421123<br><br>FLOATING ROOF, DOUBLE DECK, WELDED SHELL<br><br>PRIMARY SEAL, CATEGORY A, MECHANICAL SHOE<br><br>SECONDARY SEAL, CATEGORY A, MATRIX FLEX "A"<br><br>DOME COVER, GEODESIC | D1188 | | | **BENZENE**: (10) [**40CFR 61 Subpart FF, #2, 12-4-2003**]; **HAP**: (10) [**40CFR 63 Subpart CC, #2, 6-23-2003**] | C6.2, H23.12, K67.12 |

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

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|---|---|---|---|---|---|
| **Process 16: PETROLEUM STORAGE TANKS** | | | | | |
| STORAGE TANK, DOUBLE DECK, WELDED SHELL, DOMED EXTERNAL FLOATING ROOF, NO.164, 3750 BBL; DIAMETER: 30 FT ; HEIGHT: 30 FT WITH A/N: 430563<br><br>FLOATING ROOF, DOUBLE DECK, WELDED SHELL<br><br>PRIMARY SEAL, CATEGORY A, MECHANICAL SHOE<br><br>SECONDARY SEAL, CATEGORY A, WIPER TYPE<br><br>DOME COVER, GEODESIC | D1190 | | | **HAP**: (10) [**40CFR 63 Subpart CC, #2, 6-23-2003**] | C6.2, K67.12 |

* (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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|---|---|---|---|---|---|
| **Process 16: PETROLEUM STORAGE TANKS** | | | | | |
| STORAGE TANK, EXTERNAL FLOATING ROOF, NO.188, WITH HORIZONTALLY MOUNTED LIGHTNIN MIXER, 24170 BBL; DIAMETER: 60 FT ; HEIGHT: 48 FT WITH<br>A/N: 421121<br><br>FLOATING ROOF, DOUBLE DECK, WELDED SHELL<br><br>PRIMARY SEAL, CATEGORY A, MECHANICAL SHOE<br><br>SECONDARY SEAL, CATEGORY A, MATRIX FLEX "A"<br><br>DOME COVER, GEODESIC | D1194 | | | **BENZENE**: (10) [**40CFR 61 Subpart FF, #2, 12-4-2003**]; **HAP**: (10) [**40CFR 63 Subpart CC, #2, 6-23-2003**] | C6.2, H23.12, K67.12 |
| STORAGE TANK, DOMED EXTERNAL FLOATING ROOF, NO.189, 24170 BBL; DIAMETER: 60 FT ; HEIGHT: 48 FT WITH<br>A/N: 430583<br><br>FLOATING ROOF, PONTOON, WELDED SHELL<br><br>PRIMARY SEAL, CATEGORY A, MECHANICAL SHOE<br><br>SECONDARY SEAL, CATEGORY A, WIPER TYPE<br><br>DOME COVER, GEODESIC | D1195 | | | **BENZENE**: (10) [**40CFR 61 Subpart FF, #2, 12-4-2003**]; **HAP**: (10) [**40CFR 63 Subpart CC, #2, 6-23-2003**] | C6.2, H23.12, K67.12 |

* (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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|---|---|---|---|---|---|
| **Process 16: PETROLEUM STORAGE TANKS** | | | | | |
| STORAGE TANK, DOMED EXTERNAL FLOATING ROOF, NO.190, 42970 BBL; DIAMETER: 80 FT ; HEIGHT: 48 FT WITH A/N: 443362<br><br>FLOATING ROOF, DOUBLE DECK, WELDED SHELL<br><br>PRIMARY SEAL, CATEGORY A, MECHANICAL SHOE<br><br>SECONDARY SEAL, CATEGORY A, WIPER TYPE<br><br>DOME COVER, GEODESIC | D1196 | | | **BENZENE**: (10) [**40CFR 61 Subpart FF, #2, 12-4-2003**]; **HAP**: (10) [**40CFR 63 Subpart CC, #3A, 6-23-2003**] | C6.2, H23.12, K67.12 |

* (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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|---|---|---|---|---|---|
| **Process 16: PETROLEUM STORAGE TANKS** | | | | | |
| STORAGE TANK, DOMED EXTERNAL FLOATING ROOF, NO. 153, RECOVERED OIL, SLOP OIL, GASOLINE BLENDSTOCK, 9000 BBL; DIAMETER: 40 FT ; HEIGHT: 40 FT WITH<br>A/N: 408324<br><br>FLOATING ROOF, DOUBLE DECK, WELDED SHELL<br><br>PRIMARY SEAL, CATEGORY A, MECHANICAL SHOE<br><br>SECONDARY SEAL, CATEGORY A, RIM MOUNTED<br><br>DOME COVER, GEODESIC<br><br>GUIDEPOLE, SLOTTED, WITH GASKETED SLIDING COVER, POLE SLEEVE, AND POLE WIPER | D2850 | | | **BENZENE**: (10) [**40CFR 61 Subpart FF, #2, 12-4-2003**]; **HAP**: (10) [**40CFR 63 Subpart CC, #3A, 6-23-2003**] | B22.18, C1.63, C6.2, H23.12, K67.12, K67.21, K171.1 |
| FUGITIVE EMISSIONS, MISCELLANEOUS<br>A/N: 408324 | D2878 | | | **HAP**: (10) [**40CFR 63 Subpart CC, #5A, 6-23-2003**] | H23.3 |
| **System 5: STORAGE TANKS, OTHER** | | | | | |
| STORAGE TANK, FIXED ROOF, UNHEATED, UNDERGROUND, RESERVOIR NO.502, CONCRETE, OVAL SHAPED, 1500000 BBL; WIDTH: 486 FT 6 IN; HEIGHT: 25 FT ; LENGTH: 905 FT 8 IN<br>A/N: 408337 | D1105 | | | **HAP**: (10) [**40CFR 63 Subpart CC, #2, 6-23-2003**] | B22.3, C1.42, 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
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|---|---|---|---|---|---|
| **Process 16: PETROLEUM STORAGE TANKS** | | | | | |
| STORAGE TANK, FIXED ROOF, RW 1026-367.05, H2S SCAVENGER ADDITIVE, 1000 GALS; DIAMETER: 5 FT 4 IN; HEIGHT: 6 FT<br>A/N: 424212 | D2789 | | | | B22.11, C1.54, K67.5, K67.21 |
| STORAGE TANK, FIXED ROOF, NO. 776, DISTILLATES WITH SULFUR COMPOUNDS, 1000 BBL; DIAMETER: 20 FT ; HEIGHT: 18 FT<br>A/N: 418997 | D2790 | | | **HAP**: (10) [**40CFR 63 Subpart CC, #2, 6-23-2003**] | B22.12, C1.55, H23.28 |
| STORAGE TANK, FIXED ROOF, NO. 777, DISTILLATES WITH SULFUR COMPOUNDS, 1000 BBL; DIAMETER: 20 FT ; HEIGHT: 18 FT<br>A/N: 418998 | D2791 | | | **HAP**: (10) [**40CFR 63 Subpart CC, #2, 6-23-2003**] | B22.12, C1.55, H23.28 |
| STORAGE TANK, FIXED ROOF, NO. 778, DISTILLATES WITH SULFUR, 1000 BBL; DIAMETER: 20 FT ; HEIGHT: 18 FT<br>A/N: 418999 | D2792 | | | **HAP**: (10) [**40CFR 63 Subpart CC, #2, 6-23-2003**] | B22.12, C1.55, H23.28 |
| STORAGE TANK, FIXED ROOF, NO. 919, 292 BBL; DIAMETER: 12 FT ; HEIGHT: 14 FT 6 IN<br>A/N: 408302 | D2793 | | | **HAP**: (10) [**40CFR 63 Subpart CC, #2, 6-23-2003**] | B22.13, C1.56 |
| STORAGE TANK, FIXED ROOF, NO. 905, 11000 BBL; DIAMETER: 40 FT ; HEIGHT: 48 FT<br>A/N: 408325 | D2794 | | | **HAP**: (10) [**40CFR 63 Subpart CC, #2, 6-23-2003**] | B22.14, C1.57 |
| STORAGE TANK, FIXED ROOF, NO. 155, 11600 BBL; DIAMETER: 60 FT ; HEIGHT: 24 FT<br>A/N: 463629 | D2840 | | | **HAP**: (10) [**40CFR 63 Subpart CC, #2, 6-23-2003**] | B22.16, C1.61, H23.13 |

* (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
# BP WEST COAST PROD.LLC BP CARSON REF.

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

| Equipment | ID No. | Connected To | RECLAIM Source Type/ Monitoring Unit | Emissions * And Requirements | Conditions |
|---|---|---|---|---|---|
| **Process 16: PETROLEUM STORAGE TANKS** | | | | | |
| FUGITIVE EMISSIONS, MISCELLANEOUS<br>A/N: 408324 | D2878 | | | **HAP**: (10) [**40CFR 63 Subpart CC, #5A, 6-23-2003**] | H23.3 |
| **Process 17: ELECTRIC GENERATION** | | | | | |
| **System 1: COGENERATION UNIT NO.1** | | | | | |
| GAS TURBINE, W/ TWO GAS STOP/RATIO VALVES, WITH STEAM INJECTION, BUTANE, NATURAL GAS, REFINERY GAS, GENERAL ELECTRIC, MODEL PG7111EA, DRIVING A 90.87 MVA ELECTRIC GENERATOR, SITE RATED AT 82.72 MW, 985.5 MMBTU/HR<br>A/N: 411168 | D1226 | C1242 C1243 S1247 | NOX: MAJOR SOURCE**; SOX: MAJOR SOURCE** | **CO**: 2.5 PPMV (4) [**RULE 1303(a)(1)-BACT, 5-10-1996**]; **CO**: 2000 PPMV (5) [**RULE 407, 4-2-1982**]; **NOX**: 8 PPMV (4) [**RULE 2005, 4-20-2001; RULE 2005, 5-6-2005**]; **NOX**: 96 PPMV (8) [**40CFR 60 Subpart GG, 2-24-2006**]; **PM**: 0.01 GRAINS/SCF (5A) [**RULE 475, 10-8-1976;** *RULE 475, 8-7-1978*]; **PM**: 0.1 GRAINS/SCF (5B) [**RULE 409, 8-7-1981**]; **PM**: 11 LBS/HR (5) [**RULE 475, 10-8-1976;** *RULE 475, 8-7-1978*]; **SO2**: 150 PPMV (5B) [**40CFR 60 Subpart GG, 2-24-2006**]; **SOX**: 2 PPMV (4) [**RULE 2005, 4-20-2001; RULE 2005, 5-6-2005**] | A63.12, A99.1, A99.2, A99.3, A248.1, A248.2, A248.3, A248.4, A327.1, B61.1, B61.2, B61.3, B61.4, C1.33, C1.34, D12.1, D12.2, D90.3, D90.4, D90.17, D94.1, E54.1, E73.1, H23.1, H23.18, K67.3 |

* (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
# BP WEST COAST PROD.LLC BP CARSON REF.

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

| Equipment | ID No. | Connected To | RECLAIM Source Type/ Monitoring Unit | Emissions * And Requirements | Conditions |
|---|---|---|---|---|---|
| **Process 17: ELECTRIC GENERATION** | | | | | |
| BURNER, DUCT, NATURAL GAS, REFINERY GAS, INCLUDING VENT FOR MEROX SYSTEMS NO. 1& 2, COMMON VENTING SYSTEM, 340 MMBTU/HR<br>A/N: 411168 | D1227 | C1242 C1243 | NOX: MAJOR SOURCE**; SOX: MAJOR SOURCE** | **CO**: 2000 PPMV (5) [**RULE 407, 4-2-1982**]; **NOX**: 0.2 LBS/MMBTU (8) [**40CFR 60 Subpart Db, 1-28-2009**]; **NOX**: 8 PPMV (4) [**RULE 2005, 4-20-2001; RULE 2005, 5-6-2005**]; **PM**: 0.01 GRAINS/SCF (5A) [**RULE 476, 10-8-1976**]; **PM**: 0.1 GRAINS/SCF (5) [**RULE 409, 8-7-1981**]; **PM**: 11 LBS/HR (5B) [**RULE 476, 10-8-1976**] | A327.2, B61.1, B61.2, B61.3, B61.4, D90.3, D90.4, E54.1, E71.1, H23.1, H23.19 |
| STEAM TURBINE, STEAM, DRIVING 42.78 MVA ELECTRIC GENERATOR, RATED@37.5 MW, (COMMON TO COGENERATION UNITS NO. 1, 2, 3 & 4)<br>A/N: 411169 | D1228 | | | | |
| STEAM TURBINE, STEAM, DRIVING 42.78 MVA ELECTRIC GENERATOR RATED @ 37.5 MW, (COMMON TO COGENERATION UNITS NO. 1, 2, 3 & 4)<br>A/N: 411169 | D1229 | | | | |
| BOILER, WASTE HEAT RECOVERY, STEAM, DUAL PRESSURE, UNFIRED, 583,000 #/HR STM AT 625 PSIG, 21,400 #/HR STM @ 150 PSIG<br>A/N: 411168 | D1230 | | | | |
| CONDENSER, STEAM SURFACE, (COMMON TO COGENERATION UNITS NO. 1, 2, 3 & 4)<br>A/N: 411169 | D1231 | | | | |

* (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
# BP WEST COAST PROD.LLC BP CARSON REF.

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

| Equipment | ID No. | Connected To | RECLAIM Source Type/ Monitoring Unit | Emissions * And Requirements | Conditions |
|---|---|---|---|---|---|
| **Process 17: ELECTRIC GENERATION** | | | | | |
| CONDENSER, STEAM SURFACE, (COMMON TO COGENERATION UNITS NO. 1, 2, 3 & 4)<br>A/N: 411169 | D1232 | | | | |
| HEAT EXCHANGER, BUTANE VAPORIZER, RPV4830, (COMMON TO COGENERATION UNITS NO. 1, 2, 3, & 4)<br>A/N: 411169 | D2111 | | | | |
| DRUM, KNOCK OUT, BUTANE, RPV 4831, (COMMON TO COGENERATION UNITS NO. 1, 2, 3 & 4), HEIGHT: 11 FT ; DIAMETER: 5 FT 6 IN<br>A/N: 411169 | D2112 | | | | |
| HEAT EXCHANGER, BUTANE SUPERHEATER, RPV4832, (COMMON TO COGENERATION UNITS NO. 1, 2, 3, & 4)<br>A/N: 411169 | D2113 | | | | |
| BLOWER, RW 0027-08704, BUTANE, CENTRIFUGAL TYPE, VERTICAL POSITION SEALED WITH NITROGEN, 20 HP<br>A/N: 411169 | D2114 | | | | |
| COMPRESSOR, NO. 1, RW-0045-087.32, 10,700 SCFM (COMMON TO COGENERATION UNITS NO. 1, 2, 3 & 4)<br>A/N: 411169 | D2740 | | | | |

* (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
# BP WEST COAST PROD.LLC BP CARSON REF.

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

| Equipment | ID No. | Connected To | RECLAIM Source Type/ Monitoring Unit | Emissions * And Requirements | Conditions |
|---|---|---|---|---|---|
| **Process 17: ELECTRIC GENERATION** | | | | | |
| COMPRESSOR, NO. 2, RW-0046-087.32, 10,700 SCFM (COMMON TO COGENERATION UNITS NO. 1, 2, 3 & 4) A/N: 411169 | D2775 | | | | |
| DRUM, RPV-4800, SLOP COLLECTING (COMMON TO COGENERATION UNITS NO. 1, 2, 3 & 4), HEIGHT: 9 FT ; DIAMETER: 4 FT A/N: 411169 | D2741 | | | | |
| DRUM, RPV-4829, FUEL MIX, HIGH PRESSURE, HEIGHT: 11 FT ; DIAMETER: 6 FT 6 IN A/N: 411169 | D2742 | | | | |
| FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 411168 | D2585 | | | | H23.3 |
| **System 2: COGENERATION UNIT NO.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
# BP WEST COAST PROD.LLC BP CARSON REF.

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

| Equipment | ID No. | Connected To | RECLAIM Source Type/ Monitoring Unit | Emissions * And Requirements | Conditions |
|---|---|---|---|---|---|
| **Process 17: ELECTRIC GENERATION** | | | | | |
| GAS TURBINE, WITH TWO GAS STOP/RATIO VALVES, WITH STEAM INJECTION, BUTANE, NATURAL GAS, REFINERY GAS, GENERAL ELECTRIC, MODEL PG7111EA, DRIVING A 90.87 MVA ELECTRIC GENERATOR, SITE RATED AT 82.72 MW, 985.5 MMBTU/HR<br>A/N: 411169 | D1233 | C1248 C1249 S1251 | NOX: MAJOR SOURCE**; SOX: MAJOR SOURCE** | **CO**: 2.5 PPMV (4) [**RULE 1303(a)(1)-BACT, 5-10-1996**]; **CO**: 2000 PPMV (5) [**RULE 407, 4-2-1982**]; **NOX**: 8 PPMV (4) [**RULE 2005, 4-20-2001; RULE 2005, 5-6-2005**]; **NOX**: 96 PPMV (8) [**40CFR 60 Subpart GG, 2-24-2006**]; **PM**: 0.01 GRAINS/SCF (8) [**RULE 475, 10-8-1976;** *RULE 475, 8-7-1978*]; **PM**: 0.1 GRAINS/SCF (5B) [**RULE 409, 8-7-1981**]; **SO2**: 2 PPMV (4) [**RULE 2005, 4-20-2001; RULE 2005, 5-6-2005**]; **SO2**: 150 PPMV (8) [**40CFR 60 Subpart GG, 2-24-2006**] | A63.12, A99.1, A99.2, A99.3, A248.1, A248.2, A248.3, A248.4, A327.1, B61.1, B61.2, B61.3, B61.4, C1.33, C1.34, D12.1, D12.2, D90.3, D90.4, D90.17, D94.1, E54.1, E73.1, H23.1, H23.18, K67.3 |
| BURNER, DUCT BURNER, NATURAL GAS, REFINERY GAS, INCLUDING VENTING MEROX SYSTEM NO.1 AND 2 COMMON VENTING SYSTEM, 340 MMBTU/HR<br>A/N: 411169 | D1234 | C1248 C1249 C1252 C1253 | NOX: MAJOR SOURCE**; SOX: MAJOR SOURCE** | **CO**: 2000 PPMV (5) [**RULE 407, 4-2-1982**]; **NOX**: 0.2 LBS/MMBTU (8) [**40CFR 60 Subpart Db, 1-28-2009**]; **NOX**: 8 PPMV (4) [**RULE 2005, 4-20-2001; RULE 2005, 5-6-2005**]; **PM**: 0.01 GRAINS/SCF (5A) [**RULE 476, 10-8-1976**]; **PM**: 0.1 GRAINS/SCF (5) [**RULE 409, 8-7-1981**]; **PM**: 11 LBS/HR (5B) [**RULE 476, 10-8-1976**] | A327.2, B61.1, B61.2, B61.3, B61.4, D90.3, D90.4, E54.1, E71.1, H23.1, 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
# BP WEST COAST PROD.LLC BP CARSON REF.

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

| Equipment | ID No. | Connected To | RECLAIM Source Type/ Monitoring Unit | Emissions * And Requirements | Conditions |
|---|---|---|---|---|---|
| **Process 17: ELECTRIC GENERATION** | | | | | |
| STEAM TURBINE, STEAM, DRIVING 42.78 MVA ELECTRIC GENERATOR, RATED@37.5 MW, (COMMON TO COGENERATION UNITS NO. 1, 2, 3 & 4)<br>A/N: 411169 | D1228 | | | | |
| STEAM TURBINE, STEAM, DRIVING 42.78 MVA ELECTRIC GENERATOR RATED @ 37.5 MW, (COMMON TO COGENERATION UNITS NO. 1, 2, 3 & 4)<br>A/N: 411169 | D1229 | | | | |
| BOILER, WASTE HEAT RECOVERY , STEAM, DUAL PRESSURE, UNFIRED, 583,000 #/HR STM AT 625 PSIG, 21,400 #/HR STM @ 150 PSIG<br>A/N: 411169 | D1235 | | | | |
| CONDENSER, STEAM SURFACE, (COMMON TO COGENERATION UNITS NO. 1, 2, 3 & 4)<br>A/N: 411169 | D1231 | | | | |
| CONDENSER, STEAM SURFACE, (COMMON TO COGENERATION UNITS NO. 1, 2, 3 & 4)<br>A/N: 411169 | D1232 | | | | |
| HEAT EXCHANGER, BUTANE VAPORIZER, RPV4830, (COMMON TO COGENERATION UNITS NO. 1, 2, 3, & 4)<br>A/N: 411169 | D2111 | | | | |

* (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
# BP WEST COAST PROD.LLC BP CARSON REF.

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

| Equipment | ID No. | Connected To | RECLAIM Source Type/ Monitoring Unit | Emissions * And Requirements | Conditions |
|---|---|---|---|---|---|
| **Process 17: ELECTRIC GENERATION** | | | | | |
| DRUM, KNOCK OUT, BUTANE, RPV 4831, (COMMON TO COGENERATION UNITS NO. 1, 2, 3 & 4), HEIGHT: 11 FT ; DIAMETER: 5 FT 6 IN<br>A/N: 411169 | D2112 | | | | |
| HEAT EXCHANGER, BUTANE SUPERHEATER, RPV4832, (COMMON TO COGENERATION UNITS NO. 1, 2, 3, & 4)<br>A/N: 411169 | D2113 | | | | |
| BLOWER, RW 0027-08704, BUTANE, CENTRIFUGAL TYPE, VERTICAL POSITION SEALED WITH NITROGEN, 20 HP<br>A/N: 411169 | D2114 | | | | |
| COMPRESSOR, NO. 1, RW-0045-087.32, 10,700 SCFM (COMMON TO COGENERATION UNITS NO. 1, 2, 3 & 4)<br>A/N: 411169 | D2740 | | | | |
| COMPRESSOR, NO. 2, RW-0046-087.32, 10,700 SCFM (COMMON TO COGENERATION UNITS NO. 1, 2, 3 & 4)<br>A/N: 411169 | D2775 | | | | |
| DRUM, RPV-4800, SLOP COLLECTING (COMMON TO COGENERATION UNITS NO. 1, 2, 3 & 4), HEIGHT: 9 FT ; DIAMETER: 4 FT<br>A/N: 411169 | D2741 | | | | |

* (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
# BP WEST COAST PROD.LLC BP CARSON REF.

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

| Equipment | ID No. | Connected To | RECLAIM Source Type/ Monitoring Unit | Emissions * And Requirements | Conditions |
|---|---|---|---|---|---|
| **Process 17: ELECTRIC GENERATION** | | | | | |
| DRUM, RPV-4829, FUEL MIX, HIGH PRESSURE, HEIGHT: 11 FT ; DIAMETER: 6 FT 6 IN<br>A/N: 411169 | D2742 | | | | |
| FUGITIVE EMISSIONS, MISCELLANEOUS<br>A/N: 411169 | D2586 | | | | H23.3 |
| **System 3: COGENERATION UNIT NO.3** | | | | | |
| GAS TURBINE, WITH TWO GAS STOP/RATIO VALVES, WITH STEAM INJECTION, BUTANE, NATURAL GAS, REFINERY GAS, GENERAL ELECTRIC, MODEL PG7111EA, DRIVING A 90.87 MVA ELECTRIC GENERATOR, SITE RATED AT 82.72 MW, 985.5 MMBTU/HR<br>A/N: 411170 | D1236 | C1252 C1253 S1255 | NOX: MAJOR SOURCE**; SOX: MAJOR SOURCE** | **CO**: 2.5 PPMV (4) [**RULE 1303(a)(1)-BACT, 5-10-1996**]; **CO**: 2000 PPMV (5) [**RULE 407, 4-2-1982**]; **NOX**: 8 PPMV (4) [**RULE 2005, 4-20-2001; RULE 2005, 5-6-2005**]; **NOX**: 96 PPMV (8) [**40CFR 60 Subpart GG, 2-24-2006**]; **PM**: 0.01 GRAINS/SCF (4) [**RULE 475, 10-8-1976;** *RULE 475, 8-7-1978*]; **PM**: 0.1 GRAINS/SCF (5B) [**RULE 409, 8-7-1981**]; **PM**: 11 LBS/HR (4) [**RULE 475, 10-8-1976;** *RULE 475, 8-7-1978*]; **SO2**: 150 PPMV (5) [**40CFR 60 Subpart GG, 2-24-2006**]; **SOX**: 2 PPMV (4) [**RULE 2005, 4-20-2001; RULE 2005, 5-6-2005**] | A63.12, A99.1, A99.2, A99.3, A248.1, A248.2, A248.3, A248.4, A327.1, B61.1, B61.2, B61.3, B61.4, C1.33, C1.34, D12.1, D12.2, D90.3, D90.4, D90.17, D94.1, E54.1, E73.1, H23.1, H23.18, K67.3 |

* (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
# BP WEST COAST PROD.LLC BP CARSON REF.

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

| Equipment | ID No. | Connected To | RECLAIM Source Type/ Monitoring Unit | Emissions * And Requirements | Conditions |
|---|---|---|---|---|---|
| **Process 17: ELECTRIC GENERATION** | | | | | |
| BURNER, DUCT, NATURAL GAS, REFINERY GAS, INCLUDING VENTING MEROX SYSTEM NO.1 AND 2 COMMON VENTING SYSTEM, 340 MMBTU/HR<br>A/N: 411170 | D1237 | C1252 C1253 | NOX: MAJOR SOURCE**; SOX: MAJOR SOURCE** | **CO**: 2000 PPMV (5) [**RULE 407, 4-2-1982**]; **NOX**: 0.2 LBS/MMBTU (8) [**40CFR 60 Subpart Db, 1-28-2009**]; **NOX**: 8 PPMV (4) [**RULE 2005, 4-20-2001; RULE 2005, 5-6-2005**]; **PM**: 0.01 GRAINS/SCF (5A) [**RULE 476, 10-8-1976**]; **PM**: 0.1 GRAINS/SCF (5) [**RULE 409, 8-7-1981**]; **PM**: 11 LBS/HR (5B) [**RULE 476, 10-8-1976**] | A327.2, B61.1, B61.2, B61.3, B61.4, D90.3, D90.4, E54.1, E71.1, H23.1, H23.19 |
| STEAM TURBINE, STEAM, DRIVING 42.78 MVA ELECTRIC GENERATOR, RATED@37.5 MW, (COMMON TO COGENERATION UNITS NO. 1, 2, 3 & 4)<br>A/N: 411169 | D1228 | | | | |
| STEAM TURBINE, STEAM, DRIVING 42.78 MVA ELECTRIC GENERATOR RATED @ 37.5 MW, (COMMON TO COGENERATION UNITS NO. 1, 2, 3 & 4)<br>A/N: 411169 | D1229 | | | | |
| BOILER, WASTE HEAT RECOVERY, STEAM, DUAL PRESSURE, UNFIRED, 583,000 #/HR STM AT 625 PSIG, 21,400 #/HR STM @ 150 PSIG<br>A/N: 411170 | D1238 | | | | |
| CONDENSER, STEAM SURFACE, (COMMON TO COGENERATION UNITS NO. 1, 2, 3 & 4)<br>A/N: 411169 | D1231 | | | | |

* (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
# BP WEST COAST PROD.LLC BP CARSON REF.

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

| Equipment | ID No. | Connected To | RECLAIM Source Type/ Monitoring Unit | Emissions * And Requirements | Conditions |
|---|---|---|---|---|---|
| **Process 17: ELECTRIC GENERATION** | | | | | |
| CONDENSER, STEAM SURFACE, (COMMON TO COGENERATION UNITS NO. 1, 2, 3 & 4)<br>A/N: 411169 | D1232 | | | | |
| HEAT EXCHANGER, BUTANE VAPORIZER, RPV4830, (COMMON TO COGENERATION UNITS NO. 1, 2, 3, & 4)<br>A/N: 411169 | D2111 | | | | |
| DRUM, KNOCK OUT, BUTANE, RPV 4831, (COMMON TO COGENERATION UNITS NO. 1, 2, 3 & 4), HEIGHT: 11 FT ; DIAMETER: 5 FT 6 IN<br>A/N: 411169 | D2112 | | | | |
| HEAT EXCHANGER, BUTANE SUPERHEATER, RPV4832, (COMMON TO COGENERATION UNITS NO. 1, 2, 3, & 4)<br>A/N: 411169 | D2113 | | | | |
| BLOWER, RW 0027-08704, BUTANE, CENTRIFUGAL TYPE, VERTICAL POSITION SEALED WITH NITROGEN, 20 HP<br>A/N: 411169 | D2114 | | | | |
| COMPRESSOR, NO. 1, RW-0045-087.32, 10,700 SCFM (COMMON TO COGENERATION UNITS NO. 1, 2, 3 & 4)<br>A/N: 411169 | D2740 | | | | |

* (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
# BP WEST COAST PROD.LLC BP CARSON REF.

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

| Equipment | ID No. | Connected To | RECLAIM Source Type/ Monitoring Unit | Emissions * And Requirements | Conditions |
|---|---|---|---|---|---|
| **Process 17: ELECTRIC GENERATION** | | | | | |
| COMPRESSOR, NO. 2, RW-0046-087.32, 10,700 SCFM (COMMON TO COGENERATION UNITS NO. 1, 2, 3 & 4) A/N: 411169 | D2775 | | | | |
| DRUM, RPV-4800, SLOP COLLECTING (COMMON TO COGENERATION UNITS NO. 1, 2, 3 & 4), HEIGHT: 9 FT ; DIAMETER: 4 FT A/N: 411169 | D2741 | | | | |
| DRUM, RPV-4829, FUEL MIX, HIGH PRESSURE, HEIGHT: 11 FT ; DIAMETER: 6 FT 6 IN A/N: 411169 | D2742 | | | | |
| FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 411170 | D2587 | | | | H23.3 |
| **System 4: COGENERATION UNIT NO.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
# BP WEST COAST PROD.LLC BP CARSON REF.

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

| Equipment | ID No. | Connected To | RECLAIM Source Type/ Monitoring Unit | Emissions * And Requirements | Conditions |
|---|---|---|---|---|---|
| **Process 17: ELECTRIC GENERATION** | | | | | |
| GAS TURBINE, WITH TWO GAS STOP/RATIO VALVES, WITH STEAM INJECTION, BUTANE, NATURAL GAS, REFINERY GAS, GENERAL ELECTRIC, MODEL PG7111EA, DRIVING A 90.87 MVA ELECTRIC GENERATOR, SITE RATED AT 82.72 MW, 985.5 MMBTU/HR<br>A/N: 411171 | D1239 | C1256 C1257 S1259 | NOX: MAJOR SOURCE**; SOX: MAJOR SOURCE** | **CO**: 2.5 PPMV (4) [**RULE 1303(a)(1)-BACT, 5-10-1996**]; **CO**: 2000 PPMV (5) [**RULE 407, 4-2-1982**]; **NOX**: 8 PPMV (4) [**RULE 2005, 4-20-2001; RULE 2005, 5-6-2005**]; **NOX**: 96 PPMV (8) [**40CFR 60 Subpart GG, 2-24-2006**]; **PM**: 0.01 GRAINS/SCF (5A) [**RULE 475, 10-8-1976;** *RULE 475, 8-7-1978*]; **PM**: 0.1 GRAINS/SCF (5B) [**RULE 409, 8-7-1981**]; **PM**: 11 LBS/HR (5) [**RULE 475, 10-8-1976;** *RULE 475, 8-7-1978*]; **SO2**: 150 PPMV (8) [**40CFR 60 Subpart GG, 2-24-2006**]; **SOX**: 2 PPMV (4) [**RULE 2005, 4-20-2001; RULE 2005, 5-6-2005**] | A63.12, A99.1, A99.2, A99.3, A248.1, A248.2, A248.3, A248.4, A327.1, B61.1, B61.2, B61.3, B61.4, C1.33, C1.34, D12.1, D12.2, D90.3, D90.4, D90.17, D94.1, E54.1, E73.1, H23.1, H23.18, K67.3 |
| BURNER, DUCT, NATURAL GAS, REFINERY GAS, INCLUDING VENTING MEROX SYSTEM NO.1 AND 2 COMMON VENTING SYSTEM, 340 MMBTU/HR<br>A/N: 411171 | D1240 | C1256 C1257 | NOX: MAJOR SOURCE**; SOX: MAJOR SOURCE** | **CO**: 2000 PPMV (5) [**RULE 407, 4-2-1982**]; **NOX**: 0.2 LBS/MMBTU (8) [**40CFR 60 Subpart Db, 1-28-2009**]; **NOX**: 8 PPMV (4) [**RULE 2005, 4-20-2001; RULE 2005, 5-6-2005**]; **PM**: 0.01 GRAINS/SCF (5A) [**RULE 476, 10-8-1976**]; **PM**: 0.1 GRAINS/SCF (5) [**RULE 409, 8-7-1981**]; **PM**: 11 LBS/HR (5B) [**RULE 476, 10-8-1976**] | A327.2, B61.1, B61.2, B61.3, B61.4, D90.3, D90.4, E54.1, E71.1, H23.1, 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
# BP WEST COAST PROD.LLC BP CARSON REF.

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

| Equipment | ID No. | Connected To | RECLAIM Source Type/ Monitoring Unit | Emissions * And Requirements | Conditions |
|---|---|---|---|---|---|
| **Process 17: ELECTRIC GENERATION** | | | | | |
| STEAM TURBINE, STEAM, DRIVING 42.78 MVA ELECTRIC GENERATOR, RATED@37.5 MW, (COMMON TO COGENERATION UNITS NO. 1, 2, 3 & 4)<br>A/N: 411169 | D1228 | | | | |
| STEAM TURBINE, STEAM, DRIVING 42.78 MVA ELECTRIC GENERATOR RATED @ 37.5 MW, (COMMON TO COGENERATION UNITS NO. 1, 2, 3 & 4)<br>A/N: 411169 | D1229 | | | | |
| BOILER, WASTE HEAT RECOVERY, STEAM, DUAL PRESSURE, UNFIRED, 583,000 #/HR STM AT 625 PSIG, 21,400 #/HR STM @ 150 PSIG<br>A/N: 411171 | D1241 | | | | |
| CONDENSER, STEAM SURFACE, (COMMON TO COGENERATION UNITS NO. 1, 2, 3 & 4)<br>A/N: 411169 | D1231 | | | | |
| CONDENSER, STEAM SURFACE, (COMMON TO COGENERATION UNITS NO. 1, 2, 3 & 4)<br>A/N: 411169 | D1232 | | | | |
| HEAT EXCHANGER, BUTANE VAPORIZER, RPV4830, (COMMON TO COGENERATION UNITS NO. 1, 2, 3, & 4)<br>A/N: 411169 | D2111 | | | | |

* (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
# BP WEST COAST PROD.LLC BP CARSON REF.

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

| Equipment | ID No. | Connected To | RECLAIM Source Type/ Monitoring Unit | Emissions * And Requirements | Conditions |
|---|---|---|---|---|---|
| **Process 17: ELECTRIC GENERATION** | | | | | |
| DRUM, KNOCK OUT, BUTANE, RPV 4831, (COMMON TO COGENERATION UNITS NO. 1, 2, 3 & 4), HEIGHT: 11 FT ; DIAMETER: 5 FT 6 IN<br>A/N: 411169 | D2112 | | | | |
| HEAT EXCHANGER, BUTANE SUPERHEATER, RPV4832, (COMMON TO COGENERATION UNITS NO. 1, 2, 3, & 4)<br>A/N: 411169 | D2113 | | | | |
| BLOWER, RW 0027-08704, BUTANE, CENTRIFUGAL TYPE, VERTICAL POSITION SEALED WITH NITROGEN, 20 HP<br>A/N: 411169 | D2114 | | | | |
| COMPRESSOR, NO. 1, RW-0045-087.32, 10,700 SCFM (COMMON TO COGENERATION UNITS NO. 1, 2, 3 & 4)<br>A/N: 411169 | D2740 | | | | |
| COMPRESSOR, NO. 2, RW-0046-087.32, 10,700 SCFM (COMMON TO COGENERATION UNITS NO. 1, 2, 3 & 4)<br>A/N: 411169 | D2775 | | | | |
| DRUM, RPV-4800, SLOP COLLECTING (COMMON TO COGENERATION UNITS NO. 1, 2, 3 & 4), HEIGHT: 9 FT ; DIAMETER: 4 FT<br>A/N: 411169 | D2741 | | | | |

* (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
# BP WEST COAST PROD.LLC BP CARSON REF.

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

| Equipment | ID No. | Connected To | RECLAIM Source Type/ Monitoring Unit | Emissions * And Requirements | Conditions |
|---|---|---|---|---|---|
| **Process 17: ELECTRIC GENERATION** | | | | | |
| DRUM, RPV-4829, FUEL MIX, HIGH PRESSURE, HEIGHT: 11 FT ; DIAMETER: 6 FT 6 IN<br>A/N: 411169 | D2742 | | | | |
| FUGITIVE EMISSIONS, MISCELLANEOUS<br>A/N: 411171 | D2588 | | | | H23.3 |
| **System 5: AIR POLLUTION CONTROL SYSTEM NO.1** | | | | | |
| SELECTIVE CATALYTIC REDUCTION, NO. 1, WITH AMMONIA INJECTION<br>A/N: 435240 | C1242 | D1226 D1227 S1247 | | **NH3**: 20 PPMV (4) [**RULE 1303(a)(1)-BACT, 5-10-1996**] | A99.4, D12.9, D28.1, E73.2 |
| REACTOR, CARBON MONOXIDE OXIDATION, APC NO. 1<br>A/N: 435240 | C1243 | D1226 D1227 S1247 | | | D82.1 |
| AMMONIA INJECTION<br>A/N: 435240 | C1244 | | | | |
| STORAGE TANK, PRESSURIZED, AMMONIA, 71.5 TON CAPACITY, COMMON TO APC SYSTEM NO. 1, 2, 3, AND 4<br>A/N: 435240 | D1245 | | | | |
| STACK, EXHAUST SYSTEM VENTING SCR NO. 1, HEIGHT: 100 FT ; DIAMETER: 14 FT 9 IN<br>A/N: 435240 | S1247 | D1226 C1242 C1243 | | | |
| **System 6: AIR POLLUTION CONTROL SYSTEM NO.2** | | | | | |
| SELECTIVE CATALYTIC REDUCTION, NO. 2, WITH AMMONIA INJECTION<br>A/N: 408240 | C1248 | D1233 D1234 S1251 | | **NH3**: 20 PPMV (4) [**RULE 1303(a)(1)-BACT, 5-10-1996**] | A99.4, D12.9, D28.1, E73.2 |

* (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
# BP WEST COAST PROD.LLC BP CARSON REF.

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

| Equipment | ID No. | Connected To | RECLAIM Source Type/ Monitoring Unit | Emissions * And Requirements | Conditions |
|---|---|---|---|---|---|
| **Process 17: ELECTRIC GENERATION** | | | | | |
| REACTOR, CARBON MONOXIDE OXIDATION, APC NO. 2<br>A/N: 408240 | C1249 | D1233 D1234 S1251 | | | D82.1 |
| AMMONIA INJECTION<br>A/N: 408240 | C1250 | | | | |
| STORAGE TANK, PRESSURIZED, AMMONIA, 71.5 TON CAPACITY, COMMON TO APC SYSTEM NO. 1, 2, 3, AND 4<br>A/N: 435240 | D1245 | | | | |
| STACK, EXHAUST SYSTEM VENTING SCR NO. 2, HEIGHT: 100 FT ; DIAMETER: 14 FT 9 IN<br>A/N: 408240 | S1251 | D1233 C1248 C1249 | | | |
| **System 7: AIR POLLUTION CONTROL SYSTEM NO.3** | | | | | |
| SELECTIVE CATALYTIC REDUCTION, NO. 3, WITH AMMONIA INJECTION<br>A/N: 408241 | C1252 | D1234 D1236 D1237 S1255 | | **NH3**: 20 PPMV (4) [**RULE 1303(a)(1)-BACT, 5-10-1996**] | A99.4, D12.9, D28.1, E73.2 |
| REACTOR, CARBON MONOXIDE OXIDATION, APC NO. 3<br>A/N: 408241 | C1253 | D1234 D1236 D1237 S1255 | | | D82.1 |
| AMMONIA INJECTION<br>A/N: 408241 | C1254 | | | | |
| STORAGE TANK, PRESSURIZED, AMMONIA, 71.5 TON CAPACITY, COMMON TO APC SYSTEM NO. 1, 2, 3, AND 4<br>A/N: 435240 | D1245 | | | | |
| STACK, EXHAUST SYSTEM VENTING SCR NO. 3, HEIGHT: 100 FT ; DIAMETER: 14 FT 9 IN<br>A/N: 408241 | S1255 | D1236 C1252 C1253 | | | |

* (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
# BP WEST COAST PROD.LLC BP CARSON REF.

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

| Equipment | ID No. | Connected To | RECLAIM Source Type/ Monitoring Unit | Emissions * And Requirements | Conditions |
|---|---|---|---|---|---|
| **Process 17: ELECTRIC GENERATION** | | | | | |
| **System 8: AIR POLLUTION CONTROL SYSTEM NO.4** | | | | | |
| SELECTIVE CATALYTIC REDUCTION, NO. 4, WITH AMMONIA INJECTION A/N: 408239 | C1256 | D1239 D1240 S1259 | | **NH3**: 20 PPMV (4) [**RULE 1303(a)(1)-BACT, 5-10-1996**] | A99.4, D12.9, D28.1, E73.2 |
| REACTOR, CARBON MONOXIDE OXIDATION, APC NO. 4 A/N: 408239 | C1257 | D1239 D1240 S1259 | | | D82.1 |
| AMMONIA INJECTION A/N: 408239 | C1258 | | | | |
| STORAGE TANK, PRESSURIZED, AMMONIA, 71.5 TON CAPACITY, COMMON TO APC SYSTEM NO. 1, 2, 3, AND 4 A/N: 435240 | D1245 | | | | |
| STACK, EXHAUST SYSTEM VENTING SCR NO. 4, HEIGHT: 100 FT ; DIAMETER: 14 FT 9 IN A/N: 408239 | S1259 | D1239 C1256 C1257 | | | |
| **Process 18: STEAM GENERATION** | | | | | |
| **System 2: THREE CHEMICAL SLURRY MIXING TANKS** | | | | | |
| TANK, NO. 1 LIME, HEIGHT: 7 FT ; DIAMETER: 10 FT 10 IN A/N: 435242 | D1284 | | | | |
| TANK, NO. 2 LIME, HEIGHT: 7 FT ; DIAMETER: 10 FT 10 IN A/N: 435242 | D1285 | | | | |
| TANK, NO. 3 LIME, HEIGHT: 7 FT ; DIAMETER: 10 FT 10 IN A/N: 435242 | D1286 | | | | |
| **Process 19: PETROLEUM MISCELLANEOUS** | | | | | |
| **System 1: COATING OPERATIONS** | | | | | |

* (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
# BP WEST COAST PROD.LLC BP CARSON REF.

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

| Equipment | ID No. | Connected To | RECLAIM Source Type/ Monitoring Unit | Emissions * And Requirements | Conditions |
|---|---|---|---|---|---|
| **Process 19: PETROLEUM MISCELLANEOUS** | | | | | |
| SPRAY COATING OPERATION, BINKS, WITH A DNYA-PRECIPITATOR (WATER WASH), LENGTH10 FT; WIDTH: 18 FT; HEIGHT: 12 FT, LOCATED IN PAINT SHOP, WITH SPRAY BOOTH A/N: 435247 | D1267 | | | **PM**: (9) [**RULE 404, 2-7-1986**]; **VOC**: (9) [**RULE 1107, 11-9-2001; RULE 1107, 1-6-2006; RULE 1171, 11-7-2003; RULE 1171, 2-1-2008**] | D322.2, H23.20, K67.10 |
| SPRAY COATING OPERATION, BINKS, LENGTH: 6 FT; WIDTH: 6 FT 6 IN; HEIGHT: 7 FT, LOCATED IN PAINT SHOP, WITH BAFFLE, SPRAY BOOTH A/N: 472679 | D1268 | | | **PM**: (9) [**RULE 404, 2-7-1986**]; **VOC**: (9) [**RULE 1107, 11-9-2001; RULE 1107, 1-6-2006; RULE 1171, 11-7-2003; RULE 1171, 2-1-2008**] | H23.20 |
| SPRAY COATING OPERATION, LENGTH: 8 FT; WIDTH: 7 FT; HEIGHT: 8 FT, LOCATED IN WEST END OF MAINTENANCE SHOP BUILDING, WITH BAFFLE, SPRAY BOOTH A/N: 472680 | D1269 | | | **PM**: (9) [**RULE 404, 2-7-1986**]; **VOC**: (9) [**RULE 1107, 11-9-2001; RULE 1107, 1-6-2006; RULE 1171, 11-7-2003; RULE 1171, 2-1-2008**] | H23.20 |
| **System 2: FUEL STORAGE AND DISPENSING FACILITY NO.1** | | | | | |
| STORAGE TANK, UNDERGROUND, GASOLINE, LOCATED AT GARAGE, 4000 GALS A/N: 435253 | D1272 | | | | |
| STORAGE TANK, UNDERGROUND, DIESEL FUEL, LOCATED AT GARAGE, 4000 GALS A/N: 435253 | D1274 | | | | |
| FUEL DISPENSING NOZZLE, NO PHASE II CONTROL, DIESEL FUEL, LOCATED AT GARAGE A/N: 435253 | D1275 | | | | |

* (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
# BP WEST COAST PROD.LLC BP CARSON REF.

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

| Equipment | ID No. | Connected To | RECLAIM Source Type/ Monitoring Unit | Emissions * And Requirements | Conditions |
|---|---|---|---|---|---|
| **Process 19: PETROLEUM MISCELLANEOUS** | | | | | |
| **System 3: FUEL STORAGE AND DISPENSING FACILITY NO.2** | | | | | |
| FUEL DISPENSING NOZZLE, BALANCE TYPE PHASE II CONTROL, GASOLINE, LOCATED AT GARAGE<br>A/N: 435254 | D1276 | | | | C1.37, C1.38, D330.1, J110.1 |
| STORAGE TANK, ABOVEGROUND, GASOLINE, (NON-METHANOL COMPATIBLE), LOCATED BY GATE 60, 5000 GALS; DIAMETER: 8 FT ; LENGTH: 18 FT 5 IN<br>A/N: 435254 | D1277 | | | | E118.1, J119.1, J373.1 |
| **System 4: SHELL BLASTING SYSTEM** | | | | | |
| ABRASIVE BLASTING, WITH BLAST GENERATOR, LOCATED ACROSS FROM PAINT SHOP (NORTH) WITH<br>A/N: 435255<br><br>BUCKET ELEVATOR | D1280 | C1329 | | **PM**: (9) [**RULE 1140, 2-1-1980;** *RULE 1140, 8-2-1985;* **RULE 404, 2-7-1986; RULE 405, 2-7-1986**] | D323.2, H23.16 |
| TANK, SURGE, WITH AN AERATOR, LOCATED OUTSIDE PAINT SHOP, HEIGHT: 2 FT 11 IN; DIAMETER: 2 FT 3 IN<br>A/N: 435255 | D1282 | | | | |
| BAGHOUSE, RUEMELIN, MODEL NO.1375, W 7.5 HP EXHST FAN&3/4HP SHAKER SERVG A SHELL BLAST BTH, LOCATED OUTSIDE PT SHOP, 1375 SQ.FT.<br>A/N: 435257 | C1329 | D1280 | | | D322.1, D381.1, E102.1, K67.8 |
| **System 5: ABRASIVE BLASTING EQUIPMENT** | | | | | |

* (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
# BP WEST COAST PROD.LLC BP CARSON REF.

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

| Equipment | ID No. | Connected To | RECLAIM Source Type/ Monitoring Unit | Emissions * And Requirements | Conditions |
|---|---|---|---|---|---|
| **Process 19: PETROLEUM MISCELLANEOUS** | | | | | |
| ABRASIVE BLASTING, ROOM, STEEL GRIT, LOCATED AT SOUTH END OF OLD CMPD, SE END OF REFINERY, WITH FABRIC FILTER, WIDTH: 15 FT ; HEIGHT: 10 FT ; LENGTH: 30 FT WITH<br>A/N: 435258<br><br>ABRASIVE BLASTING NOZZLE, WITH FABRIC FILTER, DIAMETER: .5 IN; 120 PSIG | D2149 | C2151 | | **PM**: (9) [**RULE 1140, 2-1-1980;** *RULE 1140, 8-2-1985;* **RULE 404, 2-7-1986; RULE 405, 2-7-1986**] | C1.40, D323.2, H23.16 |
| BAGHOUSE, WITH PULSE JET CLEANING, CARTRIDGE FILTER, MODEL HDFT2-16, LOCATED AT SOUTH END OF OLD CMPD, SE END OF REFINERY, 4064 SQ.FT.; 16 CARTRIDGE WITH<br>A/N: 435263<br><br>BLOWER, EXHAUST, 15 HP | C2151 | D2149 | | | D12.19, D322.1, D381.1, E102.1, K67.8 |
| ABRASIVE BLASTING, CABINET, CLEMCO INDUSTRIES COPR., MODEL BNP-600-900 RPC, ALUMINUM OXIDE, LOCATED IN THE COGEN AREA, WITH MEDIA RECLAIMER, WIDTH: 4 FT 8 IN; HEIGHT: 4 FT 5 IN; LENGTH: 4 FT 10.5 IN WITH<br>A/N: 476190<br><br>ABRASIVE BLASTING NOZZLE, DIAMETER: .5 IN; 80 PSIG | D2926 | C2928 | | **PM**: (9) [**RULE 1140, 2-1-1980;** *RULE 1140, 8-2-1985;* **RULE 404, 2-7-1986; RULE 405, 2-7-1986**] | C1.77, D323.2, H23.16 |

* (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
# BP WEST COAST PROD.LLC BP CARSON REF.

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

| Equipment | ID No. | Connected To | RECLAIM Source Type/ Monitoring Unit | Emissions * And Requirements | Conditions |
|---|---|---|---|---|---|
| **Process 19: PETROLEUM MISCELLANEOUS** | | | | | |
| BAGHOUSE, WITH REVERSE PULSE CLEANING, LOCATED IN THE COGEN AREA, CARTRIDGE FILTER, CLEMCO INDUSTRIES CORP., MODEL RPC-2-900, POLYESTER/CELLULOSE, 470 SQ.FT.; 2 CARTRIDGE WITH<br>A/N: 476188<br><br>BLOWER, EXHAUST, 2 HP | C2928 | D2926 | | | D12.23, D322.1, D381.1, E102.1, K67.8 |
| ABRASIVE BLASTING, MACHINE, LOCATED AT THE MACHINE SHOP, GOFF CORP, STEEL SHOT, MODEL NO. 48TB, WITH 15 HP BLAST WHEEL REVOLVING AT 3600 RPM, WIDTH: 7 FT 3 IN; HEIGHT: 10 FT 2 IN; LENGTH: 7 FT 4 IN<br>A/N: 476198 | D2930 | C2931 | | **PM**: (9) [**RULE 1140, 2-1-1980;** *RULE 1140, 8-2-1985;* **RULE 404, 2-7-1986; RULE 405, 2-7-1986**] | D323.2, H23.16 |
| BAGHOUSE, WITH PULSE JET CLEANING, LOCATED AT MACHINE SHOP, GOFF INC., MODEL 1850, FABRIC FILTER, POLYESTER FELT, 88 SQ.FT.; 18 BAGS WITH<br>A/N: 476192<br><br>BLOWER, EXHAUST, 2 HP | C2931 | D2930 | | | D12.23, D322.1, D381.1, E102.1, K67.8 |
| **System 6: INTERNAL COMBUSTION ENGINES** | | | | | |

* (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
# BP WEST COAST PROD.LLC BP CARSON REF.

## 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 |
|---|---|---|---|---|---|
| **Process 19: PETROLEUM MISCELLANEOUS** | | | | | |
| INTERNAL COMBUSTION ENGINE, EMERGENCY FIRE, DIESEL FUEL, CUMMINS, MODEL NO. NTA855F, SERIAL NO. 11344698, NATURALLY ASPIRATED (PUMP LOCATED AT TK 239&240, NO.2 FOAM PUMP HOUSE), WITH TURBOCHARGER, 400 BHP<br>A/N: 435273 | D1997 | | 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**] | B61.6, C1.73, D12.10, K67.22 |
| INTERNAL COMBUSTION ENGINE, EMERGENCY FIRE, DIESEL FUEL, CUMMINS, MODEL NO.NTA855F, SERIAL NO. 11531658, NATURALLY ASPIRATED (PUMP LOCATED AT TANK 80/81), WITH TURBOCHARGER, 400 BHP<br>A/N: 435277 | D1998 | | 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**] | B61.6, C1.73, D12.10, K67.22 |
| INTERNAL COMBUSTION ENGINE, EMERGENCY FIRE, DIESEL FUEL, CLARKE, MODEL DDFP-12H, SERIAL NO 12VF0124398, WITH AFTERCOOLER, TURBOCHARGER, 830 BHP<br>A/N: 523831 | D2416 | | 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**] | B61.6, C1.73, D12.10, D135.1, K67.22 |
| INTERNAL COMBUSTION ENGINE, EMERGENCY FIRE, DIESEL FUEL, CATERPILLAR, MODEL 3412 DITA, SERIAL NO. 38518847, MOBILE PUMP, STATIONED BY THE SAFETY BUILDING, WITH AFTERCOOLER, TURBOCHARGER, 870 BHP<br>A/N: 435281 | D2417 | | 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, C1.16, D12.10, D135.1, K67.4 |

* (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
# BP WEST COAST PROD.LLC BP CARSON REF.

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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|---|---|---|---|---|---|
| **Process 19: PETROLEUM MISCELLANEOUS** | | | | | |
| INTERNAL COMBUSTION ENGINE, EMERGENCY FIRE, DIESEL FUEL, CATERPILLAR, MODEL 3412 DITA, SERIAL NO. 38518848, MOBILE PUMP, STATIONED BY THE SAFETY BUILDING, WITH AFTERCOOLER, TURBOCHARGER, 870 BHP<br>A/N: 435282 | D2418 | | 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, C1.16, D12.10, D135.1, K67.4 |
| INTERNAL COMBUSTION ENGINE, EMERGENCY FIRE, LEAN BURN, DIESEL FUEL, DETROIT DIESEL, MODEL DDFP-L8FA 8215, TWO CYCLE, TURBOCHARGED/AFTERCOOLED, 500 BHP WITH<br>A/N: 523832<br><br>PUMP, EMERGENCY FIRE | D2776 | | NOX: PROCESS UNIT**; SOX: PROCESS UNIT** | **CO**: 0.46 GRAM/BHP-HR DIESEL (4) [RULE 1303(a), 12-6-2002; *RULE 1303(a)(1) -BACT, 12-6-2002*]; **NOX**: 469 LBS/1000 GAL DIESEL (1) [**RULE 2012, 5-6-2005**]; **NOX + ROG**: 4.36 GRAM/BHP-HR DIESEL (4) [**RULE 2005, 5-6-2005**]; **PM10**: 0.11 GRAM/BHP-HR DIESEL (4) [**RULE 1303(a)(1)-BACT, 5-10-1996;** *RULE 1303(a)(1) -BACT, 12-6-2002*]; **SOX**: 6.24 LBS/1000 GAL DIESEL (1) [**RULE 2011, 5-6-2005**] | B61.6, C1.65, C1.66, D12.10, E193.22, K67.22 |
| INTERNAL COMBUSTION ENGINE, 6 CYLINDER, DIESEL FUEL, CUMMINS, MODEL QSX15-G9, DRIVING AN EMERGENCY ELECTRICAL GENERATOR, WITH AFTERCOOLER, TURBOCHARGER, 755 BHP<br>A/N: 474371 | D2859 | | NOX: PROCESS UNIT**; SOX: PROCESS UNIT** | **NOX**: 469 LBS/1000 GAL DIESEL (1) ; **PM**: (9) ; **SOX**: 6.24 LBS/1000 GAL DIESEL (1) | B61.6, C1.68, D12.22, E193.24, K67.17 |

* (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

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

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

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|---|---|---|---|---|---|
| **Process 19: PETROLEUM MISCELLANEOUS** | | | | | |
| **System 7: MOBILE"HOTSY"HOT SOAPY WATER MACHINE** | | | | | |
| BOILER, DIESEL FUEL, 0.7 MMBTU/HR<br>A/N: 435283 | D1287 | | NOX: PROCESS UNIT**; SOX: PROCESS UNIT** | **CO**: 2000 PPMV (5) [**RULE 407, 4-2-1982**]; **PM**: 0.1 GRAINS/SCF (5) [**RULE 409, 8-7-1981**] | |
| INTERNAL COMBUSTION ENGINE, NON-EMERGENCY, DIESEL FUEL, 18 HP<br>A/N: 435283 | D1288 | | NOX: PROCESS UNIT**; SOX: PROCESS UNIT** | | |
| TANK, HOLDING, DIESEL FUEL, 34 GALS<br>A/N: 435283 | D1289 | | | | |
| **Process 21: AIR POLLUTION CONTROL PROCESS** | | | | | |
| **System 1: SOUTH AREA FLARE SYSTEM** | | | | | S31.10, S58.2 |
| FLARE, ELEVATED WITH STEAM INJECTION, REFINERY GAS, WITH 3 PILOT ASSEMBLIES,TIE-IN LINE TO FCCU FLARE FOR EMERGENCY OF SOUTH UNITS, HEIGHT: 203 FT 6 IN; DIAMETER: 3 FT WITH<br>A/N:<br><br>BURNER, JOHN ZINK, MODEL STF-S-24 | C1302 | D809 D815 | | **CO**: 2000 PPMV (5) [**RULE 407, 4-2-1982**]; **PM**: 0.1 GRAINS/SCF (5) [**RULE 409, 8-7-1981**] | D323.1, E193.3, H23.12, H23.29 |
| KNOCK OUT POT, FLARE STACK, HEIGHT: 21 FT 6 IN; DIAMETER: 9 FT<br>A/N: | D1303 | | | | |
| KNOCK OUT POT, RPV-303, SOUTH AREA FLARE PRIMARY, LENGTH: 40 FT ; DIAMETER: 10 FT<br>A/N: | D1304 | | | | |

* (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
# BP WEST COAST PROD.LLC BP CARSON REF.

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

| Equipment | ID No. | Connected To | RECLAIM Source Type/ Monitoring Unit | Emissions * And Requirements | Conditions |
|---|---|---|---|---|---|
| **Process 21: AIR POLLUTION CONTROL PROCESS** | | | | | |
| FUGITIVE EMISSIONS, MISCELLANEOUS<br>A/N: | D2542 | | | **HAP**: (10) [**40CFR 63 Subpart CC, #5A, 6-23-2003**] | H23.3 |
| **System 2: FLUID CATALYTIC CRACKING UNIT FLARE SYSTEM** | | | | | S31.9, S31.10, S56.1, S58.3 |
| FLARE, ELEVATED WITH STEAM INJECTION, REFINERY GAS, WITH A LIGHT GAS SEAL, 27 STEAM JETS&2"CENTER STEAM DISCHARGE, HEIGHT: 128 FT ; DIAMETER: 2 FT WITH<br>A/N:<br><br>BURNER, JOHN ZINK, MODEL STF-24 | C1305 | | | **CO**: 2000 PPMV (5) [**RULE 407, 4-2-1982**]; **PM**: 0.1 GRAINS/SCF (5) [**RULE 409, 8-7-1981**] | D12.15, D323.1, E193.3, H23.12, H23.29 |
| DRUM, FLARE KNOCKOUT, RPV 2132, LENGTH: 30 FT ; DIAMETER: 12 FT<br>A/N: | D1306 | | | **BENZENE**: (10) [**40CFR 61 Subpart FF, #2, 12-4-2003**]; **VOC**: 500 PPMV (8) [**40CFR 61 Subpart FF, 12-4-2003**] | H23.12 |
| VESSEL, SEPARATOR, RPV 3246, STEAM, HEIGHT: 6 FT ; DIAMETER: 3 FT<br>A/N: | D1307 | | | | |
| FUGITIVE EMISSIONS, MISCELLANEOUS<br>A/N: | D2543 | | | **HAP**: (10) [**40CFR 63 Subpart CC, #5A, 6-23-2003**] | H23.3 |
| **System 3: HYDROCRACKER FLARE SYSTEM** | | | | | S31.10, S58.4 |

* (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
# BP WEST COAST PROD.LLC BP CARSON REF.

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

| Equipment | ID No. | Connected To | RECLAIM Source Type/ Monitoring Unit | Emissions * And Requirements | Conditions |
|---|---|---|---|---|---|
| **Process 21: AIR POLLUTION CONTROL PROCESS** | | | | | |
| FLARE, ELEVATED WITH STEAM INJECTION, REFINERY GAS, WITH A LIGHT GAS SEAL & 33 STEAM JETS, HEIGHT: 161 FT 3 IN; DIAMETER: 2 FT 6 IN WITH<br>A/N:<br><br>BURNER, JOHN ZINK, MODEL STF-S-30 | C1308 | D474 | | **CO**: 2000 PPMV (5) [**RULE 407, 4-2-1982**]; **PM**: 0.1 GRAINS/SCF (5) [**RULE 409, 8-7-1981**] | D323.1, E193.3, H23.12, H23.29 |
| DRUM, FLARE KNOCKOUT, RPV 3212, LENGTH: 12 FT ; DIAMETER: 10 FT<br>A/N: | D1309 | | | **BENZENE**: (10) [**40CFR 61 Subpart FF, #2, 12-4-2003**]; **VOC**: 500 PPMV (8) [**40CFR 61 Subpart FF, 12-4-2003**] | H23.12 |
| MIST ELIMINATOR, RPV-3214, LENGTH: 28 FT 6 IN; DIAMETER: 12 FT<br>A/N: | D1310 | | | | |
| VESSEL, SEPARATOR, RPV 3213, STEAM, HEIGHT: 4 FT ; DIAMETER: 2 FT<br>A/N: | D1311 | | | | |
| DRUM, RPV 3215, OIL ELIMINATOR, HEIGHT: 6 FT ; DIAMETER: 5 FT<br>A/N: | D1312 | | | | |
| FUGITIVE EMISSIONS, MISCELLANEOUS<br>A/N: | D2544 | | | **HAP**: (10) [**40CFR 63 Subpart CC, #5A, 6-23-2003**] | H23.3 |
| **System 4: REFINERY VAPOR RECOVERY SYSTEM** | | | | | S18.6, S31.6, S56.1 |

* (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
# BP WEST COAST PROD.LLC BP CARSON REF.

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

| Equipment | ID No. | Connected To | RECLAIM Source Type/ Monitoring Unit | Emissions * And Requirements | Conditions |
|---|---|---|---|---|---|
| **Process 21: AIR POLLUTION CONTROL PROCESS** | | | | | |
| COMPRESSOR, TWO STAGE, NO.5, RW 7087.03<br>A/N: | D1313 | D80 D525 D526 D527 D528 D847 D848 D875 D1067 D1072 D1073 D1074 D1075 D1078 D1079 D1085 D1089 D1092 D1093 D1098 D1103 D1111 D1120 D1139 D1141 | | | |
| COMPRESSOR, TWO STAGE, NO.6, RW 26087.32<br>A/N: | D1314 | D80 D525 D526 D527 D528 D847 D848 D875 D1067 D1072 D1075 D1078 D1079 D1089 D1092 D1093 D1098 D1103 D1111 D1120 D1139 D1141 | | | |
| KNOCK OUT POT, BLOWDOWN, WEST, RVP 1067, LENGTH: 6 FT ; DIAMETER: 2 FT<br>A/N: | D1315 | | | | |
| VESSEL, SEPARATOR, STEAM-OIL, RVP 1069, HEIGHT: 8 FT ; DIAMETER: 4 FT<br>A/N: | D1316 | D1067 | | | |

* (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
# BP WEST COAST PROD.LLC BP CARSON REF.

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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|---|---|---|---|---|---|
| **Process 21: AIR POLLUTION CONTROL PROCESS** | | | | | |
| KNOCK OUT POT, WEST HEADER, RPV 1068, LENGTH: 12 FT ; DIAMETER: 6 FT<br>A/N: | D1317 | | | | |
| KNOCK OUT POT, FIELD LOCATED WEST HEADER, RPV 2089, LENGTH: 10 FT ; DIAMETER: 4 FT<br>A/N: | D1319 | | | | |
| KNOCK OUT POT, BLOWCASE FOR RPV 1244, RPV 2699, LENGTH: 10 FT 5 IN; DIAMETER: 1 FT 4 IN<br>A/N: | D1320 | | | | |
| SCRUBBER, RPV 1011, WEST WET GAS, HEIGHT: 6 FT 10 IN; DIAMETER: 5 FT<br>A/N: | D1321 | | | | |
| SCRUBBER, RPV 1137, EAST WET GAS, HEIGHT: 6 FT 10 IN; DIAMETER: 5 FT<br>A/N: | D1322 | | | | |
| SCRUBBER, RPV 1055, DRY GAS, HEIGHT: 6 FT 10 IN; DIAMETER: 5 FT<br>A/N: | D1323 | | | | |
| SCRUBBER, CAUSTIC, RPV-1247, HEIGHT: 42 FT ; DIAMETER: 6 FT<br>A/N: | D1324 | | | | |
| KNOCK OUT POT, VAPOR RECOVERY, RPV 3268, HEIGHT: 7 FT ; DIAMETER: 4 FT<br>A/N: | D1325 | | | **BENZENE**: (10) [**40CFR 61 Subpart FF, #2, 12-4-2003**];<br>**VOC**: 500 PPMV (8) [**40CFR 61 Subpart FF, 12-4-2003**] | H23.12 |

* (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
# BP WEST COAST PROD.LLC BP CARSON REF.

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

| Equipment | ID No. | Connected To | RECLAIM Source Type/ Monitoring Unit | Emissions * And Requirements | Conditions |
|---|---|---|---|---|---|
| **Process 21: AIR POLLUTION CONTROL PROCESS** | | | | | |
| COMPRESSOR, RW16, MYCOM, SCREW TYPE, WITH DOUBLE SEAL, SEAL OIL SYSTEM, 800 HP MOTOR<br>A/N: | D1656 | D80 D525 D526 D527 D528 D847 D848 D875 | | | |
| VESSEL, V-121, BULK OIL, HEIGHT: 10 FT ; DIAMETER: 6 FT<br>A/N: | D1657 | | | | |
| VESSEL, V131, OIL SEPARATOR, HEIGHT: 6 FT ; DIAMETER: 5 FT<br>A/N: | D1658 | | | | |
| TOWER, RW 5794, WEST CAUSTIC, HEIGHT: 57 FT ; DIAMETER: 4 FT<br>A/N: | D1659 | | | | |
| SCRUBBER, (SPARE), RW5795, HEIGHT: 5 FT 8 IN; DIAMETER: 5 FT<br>A/N: | D1660 | | | | |
| FILTER, COALESCER<br>A/N: | D2098 | | | | |
| FUGITIVE EMISSIONS, MISCELLANEOUS<br>A/N: | D2545 | | | **HAP**: (10) [**40CFR 63 Subpart CC, #5A, 6-23-2003**] | H23.3 |
| **System 5: FLUIDIZED FEED HDS FLARE SYSTEM** | | | | | S31.10, S58.5 |
| FLARE, ELEVATED WITH STEAM INJECTION, REFINERY GAS, WITH 15 STEAM-AIR INJECTORS, 3 PILOT BURNERS & 24"MOLECULAR SEALS, HEIGHT: 215 FT ; DIAMETER: 2 FT WITH<br>A/N:<br><br>BURNER, JOHN ZINK, MODEL EEF. QS-24 | C1326 | | | **CO**: 2000 PPMV (5) [**RULE 407, 4-2-1982**]; **H2S**: 160 PPMV REFINERY GAS (8) [**40CFR 60 Subpart J, 6-24-2008**]; **PM**: 0.1 GRAINS/SCF (5) [**RULE 409, 8-7-1981**] | B61.4, D12.15, D90.18, D90.19, D323.1, E193.3, H23.1, H23.12, H23.29 |

* (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
# BP WEST COAST PROD.LLC BP CARSON REF.

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

| Equipment | ID No. | Connected To | RECLAIM Source Type/ Monitoring Unit | Emissions * And Requirements | Conditions |
|---|---|---|---|---|---|
| **Process 21: AIR POLLUTION CONTROL PROCESS** | | | | | |
| KNOCK OUT POT, HDS AREA FLARE, RPV 4025, HEIGHT: 32 FT ; DIAMETER: 9 FT<br>A/N: | D1327 | | | **BENZENE**: (10) [**40CFR 61 Subpart FF, #2, 12-4-2003**];<br>**VOC**: 500 PPMV (8) [**40CFR 61 Subpart FF, 12-4-2003**] | H23.12 |
| KNOCK OUT POT, HDS FLARE , RPV 730, HEIGHT: 40 FT ; DIAMETER: 12 FT 6 IN<br>A/N: | D1328 | | | **BENZENE**: (10) [**40CFR 61 Subpart FF, #2, 12-4-2003**];<br>**VOC**: 500 PPMV (8) [**40CFR 61 Subpart FF, 12-4-2003**] | H23.12 |
| FUGITIVE EMISSIONS, MISCELLANEOUS<br>A/N: | D2546 | | | **HAP**: (10) [**40CFR 63 Subpart CC, #5A, 6-23-2003**] | H23.3 |
| **System 8: AIR POLLUTION CONTROL** | | | | | |
| CARBON ADSORBER, UP TO 4 UNITS, 400 LBS CARBON EACH, ODOR CONTROL, PORTABLE<br>A/N: 471308 | C2445 | | | | D90.1, E128.1, E153.3, K67.16 |
| CARBON FILTER, NO. 1, WITH GRANULAR CARBON, 1000 LBS, CALGON, ODOR CONTROL, PORTABLE<br>A/N: 465290 | C2813 | | | | D90.14, E71.22, E128.2, E153.3 |
| CARBON FILTER, NO. 2, WITH GRANULAR CARBON, 1000 LBS, CALGON, ODOR CONTROL, PORTABLE<br>A/N: 465292 | C2814 | | | | D90.14, E71.22, E128.2, E153.3 |
| CARBON FILTER, NO. 3, WITH GRANULAR CARBON, 1000 LBS, CALGON, ODOR CONTROL, PORTABLE<br>A/N: 465294 | C2815 | | | | D90.14, E71.22, E128.2, E153.3 |

* (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
# BP WEST COAST PROD.LLC BP CARSON REF.

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

| Equipment | ID No. | Connected To | RECLAIM Source Type/ Monitoring Unit | Emissions * And Requirements | Conditions |
|---|---|---|---|---|---|
| **Process 21: AIR POLLUTION CONTROL PROCESS** | | | | | |
| CARBON FILTER, NO. 4, WITH GRANULAR CARBON, 1000 LBS, CALGON, ODOR CONTROL, PORTABLE<br>A/N: 465295 | C2816 | | | | D90.14, E71.22, E128.2, E153.3 |
| CARBON FILTER, NO. 5, WITH GRANULAR CARBON, 1000 LBS, CALGON, ODOR CONTROL, PORTABLE<br>A/N: 465296 | C2817 | | | | D90.14, E71.22, E128.2, E153.3 |
| CARBON FILTER, NO. 6, WITH GRANULAR CARBON, 1000 LBS, CALGON, ODOR CONTROL, PORTABLE<br>A/N: 465298 | C2818 | | | | D90.14, E71.22, E128.2, E153.3 |
| CARBON FILTER, NO. 7, WITH GRANULAR CARBON, 1000 LBS, CALGON, ODOR CONTROL, PORTABLE<br>A/N: 465299 | C2819 | | | | D90.14, E71.22, E128.2, E153.3 |
| CARBON FILTER, NO. 8, WITH GRANULAR CARBON, 1000 LBS, CALGON, ODOR CONTROL, PORTABLE<br>A/N: 465300 | C2820 | | | | D90.14, E71.22, E128.2, E153.3 |
| CARBON FILTER, NO. 9, WITH GRANULAR CARBON, 1000 LBS, CALGON, ODOR CONTROL, PORTABLE<br>A/N: 465301 | C2821 | | | | D90.14, E71.22, E128.2, E153.3 |

* (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
# BP WEST COAST PROD.LLC BP CARSON REF.

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

| Equipment | ID No. | Connected To | RECLAIM Source Type/ Monitoring Unit | Emissions * And Requirements | Conditions |
|---|---|---|---|---|---|
| **Process 21: AIR POLLUTION CONTROL PROCESS** | | | | | |
| CARBON FILTER, NO. 10, WITH GRANULAR CARBON, 1000 LBS, CALGON, ODOR CONTROL, PORTABLE<br>A/N: 465302 | C2822 | | | | D90.14, E71.22, E128.2, E153.3 |
| CARBON FILTER, NO. 11, WITH GRANULAR CARBON, 400 LBS, US FILTER, ODOR CONTROL, PORTABLE<br>A/N: 465303 | C2823 | | | | D90.14, E71.22, E128.2, E153.3 |
| CARBON FILTER, NO. 12, WITH GRANULAR CARBON, 400 LBS, US FILTER, ODOR CONTROL, PORTABLE<br>A/N: 465304 | C2824 | | | | D90.14, E71.22, E128.2, E153.3 |
| CARBON FILTER, NO. 13, WITH GRANULAR CARBON, 400 LBS, US FILTER, ODOR CONTROL, PORTABLE<br>A/N: 465305 | C2825 | | | | D90.14, E71.22, E128.2, E153.3 |
| CARBON FILTER, NO. 14, WITH GRANULAR CARBON, 400 LBS, US FILTER, ODOR CONTROL, PORTABLE<br>A/N: 465306 | C2826 | | | | D90.14, E71.22, E128.2, E153.3 |
| CARBON FILTER, NO. 15, WITH GRANULAR CARBON, 400 LBS, US FILTER, ODOR CONTROL, PORTABLE<br>A/N: 465307 | C2827 | | | | D90.14, E71.22, E128.2, E153.3 |

* (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
# BP WEST COAST PROD.LLC BP CARSON REF.

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

| Equipment | ID No. | Connected To | RECLAIM Source Type/ Monitoring Unit | Emissions * And Requirements | Conditions |
|---|---|---|---|---|---|
| **Process 21: AIR POLLUTION CONTROL PROCESS** | | | | | |
| CARBON FILTER, NO. 16, WITH GRANULAR CARBON, 400 LBS, US FILTER, ODOR CONTROL, PORTABLE<br>A/N: 465308 | C2828 | | | | D90.14, E71.22, E128.2, E153.3 |
| CARBON FILTER, NO. 17, WITH GRANULAR CARBON, 400 LBS, US FILTER, ODOR CONTROL, PORTABLE<br>A/N: 465309 | C2829 | | | | D90.14, E71.22, E128.2, E153.3 |
| CARBON FILTER, NO. 18, WITH GRANULAR CARBON, 400 LBS, US FILTER, ODOR CONTROL, PORTABLE<br>A/N: 465310 | C2830 | | | | D90.14, E71.22, E128.2, E153.3 |
| CARBON FILTER, NO. 19, WITH GRANULAR CARBON, 400 LBS, US FILTER, ODOR CONTROL, PORTABLE<br>A/N: 465311 | C2831 | | | | D90.14, E71.22, E128.2, E153.3 |
| CARBON FILTER, NO. 20, WITH GRANULAR CARBON, 400 LBS, US FILTER, ODOR CONTROL, PORTABLE<br>A/N: 465312 | C2832 | | | | D90.14, E71.22, E128.2, E153.3 |
| **Process 23: R219 EXEMPT EQUIPMENT SUBJECT TO SOURCE-SPECIFIC RULES** | | | | | |
| **System 1:** | | | | | |
| RULE 219 EXEMPT EQUIPMENT, AIR CONDITIONING UNITS | E2592 | | | | H23.8 |
| RULE 219 EXEMPT EQUIPMENT, REFRIGERATION UNITS | E2593 | | | | H23.8 |
| RULE 219 EXEMPT EQUIPMENT, COOLING TOWERS | E2594 | | | | 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
# BP WEST COAST PROD.LLC BP CARSON REF.

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

| Equipment | ID No. | Connected To | RECLAIM Source Type/ Monitoring Unit | Emissions * And Requirements | Conditions |
|---|---|---|---|---|---|
| **Process 23: R219 EXEMPT EQUIPMENT SUBJECT TO SOURCE-SPECIFIC RULES** | | | | | |
| RULE 219 EXEMPT EQUIPMENT, REFRIGERANT RECOVERY AND/OR RECYCLING UNITS | E2595 | | | | H23.8, H23.24 |
| RULE 219 EXEMPT EQUIPMENT, LAMINATING EQUIPMENT, LOW USE OR EMISSIONS | E2596 | | | **VOC**: (9) [**RULE 1168, 10-3-2003; RULE 1168, 1-7-2005; RULE 1171, 11-7-2003; RULE 1171, 2-1-2008**] | H23.23 |
| RULE 219 EXEMPT EQUIPMENT, CLEANING EQUIPMENT, SMALL, UNHEATED, NON-CONVEYORIZED | E2597 | | | **VOC**: (9) [**RULE 1171, 11-7-2003; RULE 1171, 2-1-2008**] | H23.10 |
| RULE 219 EXEMPT EQUIPMENT, COATING EQUIPMENT, PORTABLE, ARCHITECTURAL COATINGS | E2598 | | | **VOC**: (9) [**RULE 1113, 11-8-1996; RULE 1113, 7-13-2007; RULE 1171, 11-7-2003; RULE 1171, 2-1-2008**] | K67.6 |
| RULE 219 EXEMPT EQUIPMENT, FIRE EXTINGUISHING EQUIPMENT USING HALONS | E2599 | | | | H23.11 |
| **Process 24: GROUNDWATER RECOVERY** | | | | | |
| FUGITIVE EMISSIONS, MISCELLANEOUS, LIQUID SERVICE ONLY, PIPING AND COMPONENTS TRANSPORTING REMEDIATION MATERIAL, (ALSO KNOWN AS RECOVERED OIL OR FREE PRODUCT), FROM RECOVERY WELLS TO TANK R-12<br>A/N: 475031 | D2885 | | | **HAP**: (10) [**40CFR 63 Subpart CC, #5A, 6-23-2003**] | H23.3, H23.31 |

* (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
# BP WEST COAST PROD.LLC BP CARSON REF.

## 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
# BP WEST COAST PROD.LLC BP CARSON REF.

## SECTION D: DEVICE ID INDEX

| Device Index For Section D | | | |
|---|---|---|---|
| **Device ID** | **Section D Page No.** | **Process** | **System** |
| D1 | 1 | 1 | 1 |
| D2 | 1 | 1 | 1 |
| D3 | 1 | 1 | 1 |
| D4 | 1 | 1 | 1 |
| D5 | 1 | 1 | 1 |
| D6 | 1 | 1 | 1 |
| D7 | 1 | 1 | 1 |
| D8 | 2 | 1 | 1 |
| D10 | 2 | 1 | 2 |
| D11 | 2 | 1 | 2 |
| D12 | 2 | 1 | 2 |
| D13 | 2 | 1 | 2 |
| D14 | 3 | 1 | 2 |
| D15 | 3 | 1 | 2 |
| D16 | 3 | 1 | 2 |
| D17 | 3 | 1 | 2 |
| D18 | 3 | 1 | 2 |
| D19 | 4 | 1 | 3 |
| D20 | 4 | 1 | 3 |
| D21 | 4 | 1 | 3 |
| D22 | 4 | 1 | 3 |
| D23 | 4 | 1 | 3 |
| D24 | 4 | 1 | 3 |
| D25 | 4 | 1 | 3 |
| D26 | 4 | 1 | 3 |
| D27 | 5 | 1 | 4 |
| D29 | 5 | 1 | 4 |
| D31 | 6 | 1 | 4 |
| D33 | 6 | 1 | 4 |
| D35 | 6 | 1 | 5 |
| D38 | 7 | 1 | 5 |
| D39 | 5 | 1 | 3 |
| D41 | 7 | 1 | 5 |
| D42 | 7 | 1 | 5 |
| D43 | 7 | 1 | 6 |

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

## SECTION D: DEVICE ID INDEX

| Device Index For Section D | | | |
|---|---|---|---|
| **Device ID** | **Section D Page No.** | **Process** | **System** |
| D44 | 7 | 1 | 6 |
| D45 | 7 | 1 | 6 |
| D46 | 8 | 1 | 6 |
| D47 | 8 | 1 | 6 |
| D49 | 8 | 1 | 6 |
| D56 | 8 | 1 | 6 |
| D57 | 8 | 1 | 6 |
| D58 | 8 | 1 | 6 |
| D59 | 9 | 1 | 7 |
| D60 | 8 | 1 | 6 |
| D61 | 9 | 1 | 7 |
| D62 | 9 | 1 | 7 |
| D63 | 9 | 1 | 8 |
| D67 | 10 | 1 | 8 |
| D69 | 10 | 1 | 9 |
| D70 | 10 | 2 | 1 |
| D71 | 11 | 2 | 1 |
| D72 | 11 | 2 | 1 |
| D73 | 11 | 2 | 1 |
| D74 | 11 | 2 | 1 |
| D75 | 11 | 2 | 1 |
| D76 | 11 | 2 | 1 |
| D78 | 11 | 2 | 1 |
| D79 | 12 | 2 | 1 |
| D79 | 14 | 2 | 3 |
| D80 | 173 | 16 | 1 |
| D81 | 12 | 2 | 1 |
| D81 | 12 | 2 | 2 |
| D82 | 12 | 2 | 2 |
| D83 | 12 | 2 | 2 |
| D84 | 13 | 2 | 2 |
| D85 | 13 | 2 | 2 |
| D86 | 13 | 2 | 2 |
| D87 | 13 | 2 | 2 |
| D88 | 13 | 2 | 2 |

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

## SECTION D: DEVICE ID INDEX

| Device Index For Section D | | | |
|---|---|---|---|
| **Device ID** | **Section D Page No.** | **Process** | **System** |
| D88 | 15 | 2 | 5 |
| D89 | 13 | 2 | 2 |
| D90 | 13 | 2 | 2 |
| D91 | 14 | 2 | 2 |
| D92 | 14 | 2 | 2 |
| D94 | 14 | 2 | 3 |
| D95 | 14 | 2 | 3 |
| D98 | 15 | 2 | 5 |
| D101 | 15 | 2 | 5 |
| D102 | 15 | 2 | 5 |
| D103 | 15 | 2 | 5 |
| D104 | 15 | 2 | 5 |
| D105 | 16 | 2 | 5 |
| D111 | 16 | 2 | 6 |
| D112 | 16 | 2 | 6 |
| D113 | 16 | 2 | 6 |
| D121 | 16 | 2 | 8 |
| D121 | 19 | 2 | 9 |
| D122 | 17 | 2 | 8 |
| D122 | 19 | 2 | 9 |
| D124 | 17 | 2 | 8 |
| D124 | 19 | 2 | 9 |
| D127 | 17 | 2 | 8 |
| D127 | 20 | 2 | 9 |
| D128 | 17 | 2 | 8 |
| D128 | 20 | 2 | 9 |
| D129 | 17 | 2 | 8 |
| D129 | 20 | 2 | 9 |
| D130 | 17 | 2 | 8 |
| D130 | 20 | 2 | 9 |
| D131 | 17 | 2 | 8 |
| D131 | 20 | 2 | 9 |
| D132 | 17 | 2 | 8 |
| D133 | 18 | 2 | 8 |
| D134 | 18 | 2 | 8 |

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

## SECTION D: DEVICE ID INDEX

| Device Index For Section D | | | |
|---|---|---|---|
| **Device ID** | **Section D Page No.** | **Process** | **System** |
| D135 | 18 | 2 | 8 |
| D136 | 18 | 2 | 8 |
| D137 | 18 | 2 | 8 |
| D138 | 18 | 2 | 8 |
| D139 | 18 | 2 | 8 |
| D140 | 19 | 2 | 8 |
| D141 | 19 | 2 | 8 |
| D142 | 19 | 2 | 8 |
| D143 | 19 | 2 | 8 |
| D144 | 19 | 2 | 8 |
| D145 | 19 | 2 | 8 |
| D146 | 19 | 2 | 8 |
| D147 | 20 | 2 | 9 |
| D148 | 20 | 2 | 9 |
| D149 | 20 | 2 | 9 |
| D150 | 21 | 2 | 9 |
| D151 | 21 | 2 | 10 |
| D153 | 21 | 2 | 10 |
| D155 | 22 | 2 | 10 |
| D158 | 22 | 2 | 11 |
| D159 | 22 | 2 | 11 |
| D160 | 22 | 2 | 11 |
| D161 | 23 | 2 | 11 |
| D162 | 23 | 2 | 11 |
| D164 | 24 | 3 | 1 |
| D165 | 24 | 3 | 1 |
| D166 | 24 | 3 | 1 |
| D167 | 24 | 3 | 1 |
| D168 | 25 | 3 | 1 |
| D169 | 25 | 3 | 1 |
| D170 | 25 | 3 | 1 |
| D172 | 25 | 3 | 1 |
| D173 | 25 | 3 | 1 |
| D174 | 25 | 3 | 1 |
| D175 | 25 | 3 | 1 |

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

## SECTION D: DEVICE ID INDEX

| Device Index For Section D | | | |
|---|---|---|---|
| **Device ID** | **Section D Page No.** | **Process** | **System** |
| D176 | 25 | 3 | 1 |
| D177 | 26 | 3 | 1 |
| D178 | 26 | 3 | 1 |
| D179 | 26 | 3 | 1 |
| D180 | 26 | 3 | 1 |
| D181 | 26 | 3 | 1 |
| D182 | 26 | 3 | 1 |
| D183 | 26 | 3 | 1 |
| D184 | 26 | 3 | 1 |
| D185 | 27 | 3 | 1 |
| D186 | 27 | 3 | 2 |
| D187 | 27 | 3 | 2 |
| D188 | 27 | 3 | 2 |
| D189 | 29 | 3 | 2 |
| D190 | 29 | 3 | 2 |
| D191 | 27 | 3 | 2 |
| D192 | 27 | 3 | 2 |
| D193 | 27 | 3 | 2 |
| D194 | 28 | 3 | 2 |
| D195 | 28 | 3 | 2 |
| D196 | 28 | 3 | 2 |
| D197 | 28 | 3 | 2 |
| D198 | 28 | 3 | 2 |
| D199 | 28 | 3 | 2 |
| D200 | 30 | 3 | 2 |
| D201 | 28 | 3 | 2 |
| D202 | 28 | 3 | 2 |
| D203 | 29 | 3 | 2 |
| D204 | 29 | 3 | 2 |
| D205 | 29 | 3 | 2 |
| D206 | 29 | 3 | 2 |
| D207 | 29 | 3 | 2 |
| D208 | 29 | 3 | 2 |
| D217 | 30 | 3 | 3 |
| D218 | 30 | 3 | 3 |

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

## SECTION D: DEVICE ID INDEX

| Device Index For Section D | | | |
|---|---|---|---|
| **Device ID** | **Section D Page No.** | **Process** | **System** |
| D219 | 30 | 3 | 3 |
| D220 | 30 | 3 | 3 |
| D222 | 30 | 3 | 3 |
| D223 | 30 | 3 | 3 |
| D224 | 31 | 3 | 3 |
| D225 | 31 | 3 | 3 |
| D226 | 31 | 3 | 3 |
| D229 | 31 | 3 | 3 |
| C231 | 31 | 3 | 4 |
| D232 | 31 | 3 | 4 |
| D233 | 32 | 3 | 4 |
| D241 | 32 | 3 | 4 |
| D242 | 32 | 3 | 6 |
| D243 | 32 | 3 | 6 |
| D244 | 32 | 3 | 6 |
| D245 | 32 | 3 | 6 |
| D246 | 32 | 3 | 6 |
| D247 | 33 | 3 | 6 |
| D248 | 33 | 3 | 6 |
| D249 | 33 | 3 | 6 |
| D250 | 33 | 3 | 7 |
| D252 | 34 | 3 | 7 |
| D253 | 34 | 4 | 1 |
| D254 | 34 | 4 | 1 |
| D255 | 35 | 4 | 1 |
| D256 | 35 | 4 | 1 |
| D257 | 35 | 4 | 1 |
| D258 | 35 | 4 | 1 |
| D259 | 35 | 4 | 1 |
| D260 | 35 | 4 | 1 |
| D261 | 35 | 4 | 1 |
| D262 | 35 | 4 | 1 |
| D263 | 36 | 4 | 1 |
| D264 | 36 | 4 | 1 |
| D265 | 36 | 4 | 1 |

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

## SECTION D: DEVICE ID INDEX

| Device Index For Section D | | | |
|---|---|---|---|
| **Device ID** | **Section D Page No.** | **Process** | **System** |
| D267 | 36 | 4 | 1 |
| D268 | 36 | 4 | 1 |
| D269 | 36 | 4 | 1 |
| D270 | 36 | 4 | 1 |
| D272 | 37 | 4 | 1 |
| D274 | 37 | 4 | 1 |
| D275 | 37 | 4 | 1 |
| D276 | 37 | 4 | 1 |
| D277 | 37 | 4 | 1 |
| D278 | 37 | 4 | 1 |
| D280 | 37 | 4 | 1 |
| D281 | 37 | 4 | 1 |
| D282 | 38 | 4 | 1 |
| D283 | 38 | 4 | 1 |
| D284 | 38 | 4 | 1 |
| D287 | 38 | 4 | 1 |
| D290 | 38 | 4 | 2 |
| D291 | 38 | 4 | 2 |
| D292 | 39 | 4 | 3 |
| D293 | 39 | 4 | 3 |
| D296 | 40 | 4 | 3 |
| D297 | 40 | 4 | 3 |
| D299 | 40 | 4 | 3 |
| D300 | 40 | 4 | 3 |
| D301 | 40 | 4 | 3 |
| D302 | 40 | 4 | 4 |
| D303 | 40 | 4 | 4 |
| D304 | 41 | 4 | 4 |
| D307 | 41 | 4 | 4 |
| D308 | 41 | 4 | 5 |
| D309 | 41 | 4 | 5 |
| D310 | 41 | 4 | 5 |
| D311 | 41 | 4 | 5 |
| D314 | 49 | 5 | 1 |
| D315 | 49 | 5 | 1 |

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

## SECTION D: DEVICE ID INDEX

| Device Index For Section D | | | |
|---|---|---|---|
| **Device ID** | **Section D Page No.** | **Process** | **System** |
| D316 | 49 | 5 | 1 |
| D317 | 49 | 5 | 1 |
| D318 | 49 | 5 | 1 |
| D319 | 49 | 5 | 1 |
| D320 | 49 | 5 | 1 |
| D321 | 50 | 5 | 1 |
| D322 | 50 | 5 | 1 |
| D323 | 50 | 5 | 1 |
| D324 | 50 | 5 | 1 |
| D325 | 50 | 5 | 1 |
| D326 | 50 | 5 | 1 |
| D327 | 50 | 5 | 1 |
| D328 | 50 | 5 | 1 |
| D329 | 51 | 5 | 1 |
| D330 | 51 | 5 | 1 |
| D331 | 51 | 5 | 1 |
| D332 | 51 | 5 | 1 |
| D334 | 51 | 5 | 2 |
| D335 | 51 | 5 | 2 |
| D336 | 52 | 5 | 2 |
| D337 | 52 | 5 | 2 |
| D338 | 52 | 5 | 2 |
| D339 | 52 | 5 | 2 |
| D340 | 52 | 5 | 2 |
| D341 | 52 | 5 | 2 |
| D342 | 52 | 5 | 2 |
| D343 | 52 | 5 | 2 |
| D345 | 53 | 5 | 2 |
| D346 | 53 | 5 | 2 |
| D347 | 53 | 5 | 2 |
| D348 | 53 | 5 | 2 |
| D349 | 53 | 5 | 2 |
| D350 | 53 | 5 | 2 |
| D351 | 53 | 5 | 2 |
| D352 | 53 | 5 | 2 |

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

## SECTION D: DEVICE ID INDEX

| Device Index For Section D | | | |
|---|---|---|---|
| **Device ID** | **Section D Page No.** | **Process** | **System** |
| D353 | 54 | 5 | 2 |
| D354 | 54 | 5 | 3 |
| D355 | 54 | 5 | 3 |
| D356 | 54 | 5 | 3 |
| D357 | 55 | 5 | 3 |
| D358 | 55 | 5 | 3 |
| D359 | 55 | 5 | 3 |
| D360 | 55 | 5 | 3 |
| D361 | 56 | 5 | 3 |
| D362 | 56 | 5 | 3 |
| D372 | 56 | 5 | 3 |
| D373 | 56 | 5 | 3 |
| D374 | 56 | 5 | 3 |
| D375 | 57 | 5 | 3 |
| D376 | 57 | 5 | 3 |
| D377 | 57 | 5 | 3 |
| D378 | 57 | 5 | 3 |
| D379 | 57 | 5 | 3 |
| D380 | 57 | 5 | 3 |
| D381 | 57 | 5 | 3 |
| D382 | 57 | 5 | 3 |
| D383 | 58 | 5 | 3 |
| D384 | 58 | 5 | 3 |
| D385 | 58 | 5 | 3 |
| D386 | 58 | 5 | 3 |
| D387 | 58 | 5 | 3 |
| D388 | 58 | 5 | 3 |
| D389 | 58 | 5 | 3 |
| D390 | 58 | 5 | 3 |
| D391 | 59 | 5 | 3 |
| D392 | 59 | 5 | 3 |
| D393 | 59 | 5 | 3 |
| D394 | 59 | 5 | 3 |
| D395 | 59 | 5 | 3 |
| D396 | 59 | 5 | 3 |

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

## SECTION D: DEVICE ID INDEX

| Device Index For Section D | | | |
|---|---|---|---|
| **Device ID** | **Section D Page No.** | **Process** | **System** |
| D397 | 59 | 5 | 3 |
| D398 | 59 | 5 | 3 |
| D399 | 60 | 5 | 3 |
| D400 | 60 | 5 | 3 |
| D401 | 60 | 5 | 4 |
| D402 | 60 | 5 | 4 |
| D403 | 60 | 5 | 4 |
| D404 | 60 | 5 | 4 |
| D405 | 60 | 5 | 4 |
| D406 | 61 | 5 | 4 |
| D407 | 61 | 5 | 4 |
| D408 | 61 | 5 | 4 |
| D411 | 61 | 5 | 4 |
| D412 | 61 | 5 | 4 |
| D413 | 61 | 5 | 4 |
| D414 | 61 | 5 | 4 |
| D415 | 61 | 5 | 4 |
| D416 | 63 | 5 | 6 |
| D417 | 64 | 5 | 6 |
| D418 | 64 | 5 | 6 |
| D419 | 65 | 5 | 6 |
| D421 | 65 | 5 | 6 |
| D423 | 65 | 5 | 6 |
| D425 | 66 | 5 | 6 |
| D426 | 68 | 6 | 1 |
| D427 | 68 | 6 | 1 |
| D428 | 68 | 6 | 1 |
| D429 | 68 | 6 | 1 |
| D430 | 68 | 6 | 1 |
| D431 | 68 | 6 | 1 |
| D432 | 69 | 6 | 1 |
| D433 | 69 | 6 | 1 |
| D434 | 69 | 6 | 1 |
| D435 | 69 | 6 | 1 |
| D437 | 69 | 6 | 1 |

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

## SECTION D: DEVICE ID INDEX

| Device Index For Section D | | | |
|---|---|---|---|
| **Device ID** | **Section D Page No.** | **Process** | **System** |
| D438 | 69 | 6 | 1 |
| D439 | 69 | 6 | 1 |
| D440 | 70 | 6 | 1 |
| D444 | 70 | 6 | 1 |
| D445 | 70 | 6 | 1 |
| D446 | 70 | 6 | 1 |
| D447 | 70 | 6 | 1 |
| D448 | 70 | 6 | 1 |
| D449 | 70 | 6 | 1 |
| D451 | 70 | 6 | 1 |
| D452 | 71 | 6 | 1 |
| D453 | 71 | 6 | 1 |
| D454 | 71 | 6 | 1 |
| D455 | 71 | 6 | 1 |
| D456 | 71 | 6 | 1 |
| D457 | 71 | 6 | 1 |
| D458 | 71 | 6 | 1 |
| D459 | 71 | 6 | 1 |
| D460 | 71 | 6 | 1 |
| D461 | 72 | 6 | 2 |
| D462 | 72 | 6 | 2 |
| D463 | 72 | 6 | 2 |
| D464 | 72 | 6 | 2 |
| D465 | 72 | 6 | 2 |
| D468 | 72 | 6 | 2 |
| D469 | 72 | 6 | 2 |
| D470 | 73 | 6 | 2 |
| D471 | 73 | 6 | 2 |
| D472 | 73 | 6 | 2 |
| D473 | 73 | 6 | 2 |
| D474 | 73 | 6 | 2 |
| D475 | 73 | 6 | 2 |
| D476 | 73 | 6 | 2 |
| D477 | 74 | 6 | 2 |
| D478 | 74 | 6 | 2 |

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

## SECTION D: DEVICE ID INDEX

| Device Index For Section D | | | |
|---|---|---|---|
| **Device ID** | **Section D Page No.** | **Process** | **System** |
| D479 | 74 | 6 | 2 |
| D480 | 74 | 6 | 2 |
| D481 | 74 | 6 | 2 |
| D482 | 74 | 6 | 2 |
| D483 | 74 | 6 | 2 |
| D485 | 74 | 6 | 2 |
| D486 | 75 | 6 | 2 |
| D487 | 75 | 6 | 3 |
| D488 | 75 | 6 | 3 |
| D489 | 75 | 6 | 3 |
| D490 | 75 | 6 | 3 |
| D491 | 75 | 6 | 3 |
| D492 | 75 | 6 | 3 |
| D493 | 76 | 6 | 3 |
| D494 | 76 | 6 | 3 |
| D495 | 76 | 6 | 3 |
| D496 | 76 | 6 | 3 |
| D497 | 76 | 6 | 3 |
| D498 | 76 | 6 | 3 |
| D499 | 76 | 6 | 3 |
| D500 | 76 | 6 | 3 |
| D501 | 77 | 6 | 3 |
| D503 | 77 | 6 | 3 |
| D504 | 77 | 6 | 3 |
| D505 | 77 | 6 | 3 |
| D506 | 77 | 6 | 3 |
| D507 | 77 | 6 | 3 |
| D509 | 77 | 6 | 3 |
| D510 | 77 | 6 | 3 |
| C511 | 78 | 6 | 3 |
| D512 | 78 | 6 | 3 |
| D513 | 78 | 6 | 3 |
| D514 | 78 | 6 | 3 |
| D515 | 78 | 6 | 3 |
| D516 | 78 | 6 | 3 |

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

## SECTION D: DEVICE ID INDEX

| Device Index For Section D | | | |
|---|---|---|---|
| **Device ID** | **Section D Page No.** | **Process** | **System** |
| D517 | 78 | 6 | 3 |
| D518 | 78 | 6 | 3 |
| D519 | 78 | 6 | 3 |
| D520 | 79 | 6 | 3 |
| D521 | 79 | 6 | 3 |
| D522 | 79 | 6 | 3 |
| D523 | 79 | 6 | 3 |
| D525 | 79 | 6 | 3 |
| D526 | 79 | 6 | 3 |
| D527 | 79 | 6 | 3 |
| D528 | 79 | 6 | 3 |
| D529 | 80 | 6 | 3 |
| D530 | 80 | 6 | 3 |
| D531 | 80 | 6 | 3 |
| D532 | 80 | 6 | 4 |
| S533 | 80 | 6 | 4 |
| S534 | 80 | 6 | 4 |
| D535 | 81 | 6 | 4 |
| S536 | 81 | 6 | 4 |
| S537 | 81 | 6 | 4 |
| D538 | 82 | 6 | 4 |
| D539 | 82 | 6 | 4 |
| D541 | 83 | 6 | 4 |
| D542 | 83 | 7 | 1 |
| D543 | 83 | 7 | 1 |
| D544 | 83 | 7 | 1 |
| D545 | 83 | 7 | 1 |
| D546 | 84 | 7 | 1 |
| D547 | 84 | 7 | 1 |
| D548 | 84 | 7 | 1 |
| D549 | 84 | 7 | 1 |
| D550 | 84 | 7 | 1 |
| D551 | 84 | 7 | 1 |
| D552 | 84 | 7 | 1 |
| D553 | 85 | 7 | 1 |

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

## SECTION D: DEVICE ID INDEX

| Device Index For Section D | | | |
|---|---|---|---|
| **Device ID** | **Section D Page No.** | **Process** | **System** |
| D554 | 85 | 7 | 1 |
| D555 | 85 | 7 | 1 |
| D556 | 85 | 7 | 1 |
| D557 | 85 | 7 | 1 |
| D558 | 85 | 7 | 1 |
| D559 | 85 | 7 | 1 |
| D560 | 85 | 7 | 1 |
| D561 | 86 | 7 | 1 |
| D562 | 86 | 7 | 1 |
| D563 | 86 | 7 | 1 |
| D564 | 86 | 7 | 1 |
| D565 | 86 | 7 | 1 |
| D566 | 86 | 7 | 1 |
| D567 | 86 | 7 | 1 |
| D568 | 87 | 7 | 1 |
| D569 | 87 | 7 | 1 |
| D570 | 90 | 7 | 3 |
| C571 | 91 | 7 | 4 |
| D572 | 91 | 7 | 4 |
| S573 | 92 | 7 | 4 |
| S574 | 92 | 7 | 4 |
| S575 | 92 | 7 | 4 |
| D576 | 92 | 8 | 1 |
| D577 | 92 | 8 | 1 |
| D578 | 92 | 8 | 1 |
| D579 | 93 | 8 | 1 |
| D581 | 93 | 8 | 1 |
| D582 | 93 | 8 | 1 |
| D583 | 93 | 8 | 1 |
| D584 | 93 | 8 | 1 |
| D593 | 93 | 8 | 1 |
| D594 | 93 | 8 | 1 |
| D595 | 93 | 8 | 1 |
| D596 | 93 | 8 | 1 |
| D597 | 94 | 8 | 1 |

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

## SECTION D: DEVICE ID INDEX

| Device Index For Section D | | | |
|---|---|---|---|
| **Device ID** | **Section D Page No.** | **Process** | **System** |
| D598 | 94 | 8 | 1 |
| D599 | 94 | 8 | 1 |
| D600 | 94 | 8 | 1 |
| D601 | 94 | 8 | 1 |
| D602 | 94 | 8 | 1 |
| D603 | 94 | 8 | 1 |
| D604 | 95 | 8 | 1 |
| D607 | 95 | 8 | 2 |
| D608 | 95 | 8 | 2 |
| D610 | 95 | 8 | 2 |
| D611 | 96 | 8 | 2 |
| D612 | 96 | 8 | 2 |
| D613 | 96 | 8 | 2 |
| D614 | 96 | 8 | 2 |
| D615 | 96 | 8 | 2 |
| D616 | 96 | 8 | 2 |
| D617 | 96 | 8 | 2 |
| D619 | 96 | 8 | 2 |
| D622 | 97 | 8 | 2 |
| D623 | 97 | 8 | 2 |
| D624 | 97 | 8 | 2 |
| D625 | 98 | 8 | 3 |
| D626 | 98 | 8 | 3 |
| D627 | 99 | 8 | 3 |
| D628 | 99 | 8 | 3 |
| D629 | 100 | 8 | 3 |
| D631 | 103 | 9 | 1 |
| D632 | 103 | 9 | 1 |
| D634 | 104 | 9 | 1 |
| D635 | 104 | 9 | 1 |
| D636 | 115 | 9 | 9 |
| D637 | 117 | 9 | 9 |
| D638 | 104 | 9 | 1 |
| D639 | 104 | 9 | 1 |
| D640 | 104 | 9 | 1 |

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

## SECTION D: DEVICE ID INDEX

| Device Index For Section D | | | |
|---|---|---|---|
| **Device ID** | **Section D Page No.** | **Process** | **System** |
| D641 | 104 | 9 | 1 |
| D642 | 104 | 9 | 1 |
| D643 | 104 | 9 | 1 |
| D644 | 105 | 9 | 1 |
| D645 | 105 | 9 | 1 |
| D646 | 105 | 9 | 1 |
| D647 | 105 | 9 | 1 |
| D648 | 105 | 9 | 1 |
| D649 | 105 | 9 | 1 |
| D650 | 105 | 9 | 1 |
| D651 | 105 | 9 | 1 |
| D652 | 106 | 9 | 1 |
| D653 | 116 | 9 | 9 |
| D655 | 116 | 9 | 9 |
| D656 | 116 | 9 | 9 |
| D657 | 116 | 9 | 9 |
| D658 | 117 | 9 | 9 |
| D659 | 106 | 9 | 1 |
| D660 | 106 | 9 | 1 |
| D661 | 106 | 9 | 1 |
| D662 | 106 | 9 | 1 |
| D663 | 106 | 9 | 1 |
| D664 | 116 | 9 | 9 |
| D665 | 106 | 9 | 1 |
| D666 | 106 | 9 | 1 |
| D667 | 107 | 9 | 1 |
| D668 | 107 | 9 | 1 |
| D669 | 107 | 9 | 1 |
| D670 | 107 | 9 | 1 |
| D671 | 110 | 9 | 2 |
| D672 | 110 | 9 | 2 |
| D673 | 110 | 9 | 2 |
| D674 | 110 | 9 | 2 |
| D675 | 110 | 9 | 2 |
| D676 | 110 | 9 | 2 |

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

## SECTION D: DEVICE ID INDEX

| Device Index For Section D | | | |
|---|---|---|---|
| **Device ID** | **Section D Page No.** | **Process** | **System** |
| D677 | 111 | 9 | 2 |
| D678 | 111 | 9 | 2 |
| D679 | 111 | 9 | 2 |
| D680 | 111 | 9 | 2 |
| D681 | 111 | 9 | 2 |
| D682 | 111 | 9 | 2 |
| D683 | 111 | 9 | 2 |
| D684 | 111 | 9 | 2 |
| D685 | 111 | 9 | 2 |
| D706 | 119 | 10 | 1 |
| D708 | 119 | 10 | 1 |
| D709 | 119 | 10 | 2 |
| D710 | 119 | 10 | 2 |
| D711 | 119 | 10 | 2 |
| D712 | 120 | 10 | 2 |
| D713 | 120 | 10 | 2 |
| D714 | 120 | 10 | 2 |
| D715 | 120 | 10 | 2 |
| D716 | 120 | 10 | 2 |
| D717 | 120 | 10 | 2 |
| D718 | 120 | 10 | 2 |
| D719 | 120 | 10 | 2 |
| D720 | 121 | 10 | 2 |
| D721 | 121 | 10 | 2 |
| D722 | 121 | 10 | 3 |
| D723 | 121 | 10 | 3 |
| D724 | 121 | 10 | 3 |
| D725 | 122 | 10 | 3 |
| D730 | 122 | 11 | 1 |
| D739 | 122 | 11 | 1 |
| D740 | 122 | 11 | 1 |
| D741 | 122 | 11 | 1 |
| D742 | 122 | 11 | 1 |
| D743 | 123 | 11 | 1 |
| D744 | 123 | 11 | 1 |

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

## SECTION D: DEVICE ID INDEX

| Device Index For Section D | | | |
|---|---|---|---|
| **Device ID** | **Section D Page No.** | **Process** | **System** |
| D745 | 123 | 11 | 1 |
| D752 | 123 | 11 | 1 |
| D753 | 123 | 11 | 1 |
| D756 | 124 | 12 | 1 |
| D757 | 124 | 12 | 1 |
| D758 | 124 | 12 | 1 |
| D759 | 124 | 12 | 1 |
| D760 | 124 | 12 | 1 |
| D760 | 125 | 12 | 2 |
| D761 | 124 | 12 | 2 |
| D762 | 124 | 12 | 2 |
| D763 | 125 | 12 | 2 |
| D764 | 125 | 12 | 2 |
| D765 | 125 | 12 | 3 |
| D766 | 125 | 12 | 3 |
| D767 | 125 | 12 | 3 |
| D768 | 125 | 12 | 3 |
| D769 | 125 | 12 | 3 |
| D770 | 126 | 12 | 3 |
| D771 | 126 | 12 | 4 |
| D772 | 126 | 12 | 4 |
| D773 | 126 | 12 | 4 |
| D774 | 126 | 12 | 4 |
| D778 | 126 | 12 | 5 |
| D779 | 127 | 12 | 5 |
| D780 | 137 | 12 | 14 |
| D781 | 137 | 12 | 14 |
| D782 | 127 | 12 | 7 |
| D783 | 127 | 12 | 7 |
| D785 | 127 | 12 | 8 |
| D786 | 127 | 12 | 8 |
| D788 | 127 | 12 | 8 |
| D789 | 127 | 12 | 8 |
| D790 | 128 | 12 | 8 |
| D793 | 129 | 12 | 9 |

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

## SECTION D: DEVICE ID INDEX

| Device Index For Section D | | | |
|---|---|---|---|
| **Device ID** | **Section D Page No.** | **Process** | **System** |
| D794 | 129 | 12 | 9 |
| D795 | 129 | 12 | 9 |
| D796 | 129 | 12 | 9 |
| D796 | 132 | 12 | 10 |
| D797 | 129 | 12 | 9 |
| D797 | 131 | 12 | 10 |
| D797 | 133 | 12 | 11 |
| D797 | 135 | 12 | 12 |
| D797 | 136 | 12 | 13 |
| D798 | 130 | 12 | 9 |
| D798 | 131 | 12 | 10 |
| D798 | 133 | 12 | 11 |
| D798 | 135 | 12 | 12 |
| D798 | 136 | 12 | 13 |
| D799 | 130 | 12 | 9 |
| D799 | 131 | 12 | 10 |
| D799 | 133 | 12 | 11 |
| D799 | 135 | 12 | 12 |
| D799 | 137 | 12 | 13 |
| D800 | 173 | 16 | 1 |
| D801 | 173 | 16 | 1 |
| D802 | 130 | 12 | 10 |
| D804 | 131 | 12 | 10 |
| D806 | 131 | 12 | 10 |
| D807 | 132 | 12 | 10 |
| D808 | 132 | 12 | 11 |
| D809 | 132 | 12 | 11 |
| D809 | 135 | 12 | 12 |
| D810 | 133 | 12 | 11 |
| D812 | 133 | 12 | 11 |
| D813 | 133 | 12 | 11 |
| D814 | 134 | 12 | 12 |
| D815 | 134 | 12 | 12 |
| D817 | 134 | 12 | 12 |
| D818 | 134 | 12 | 12 |

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

## SECTION D: DEVICE ID INDEX

| Device Index For Section D | | | |
|---|---|---|---|
| **Device ID** | **Section D Page No.** | **Process** | **System** |
| D822 | 136 | 12 | 13 |
| D823 | 136 | 12 | 13 |
| D824 | 136 | 12 | 13 |
| D827 | 136 | 12 | 13 |
| D828 | 136 | 12 | 13 |
| D829 | 142 | 12 | 16 |
| D830 | 142 | 12 | 16 |
| D831 | 142 | 12 | 17 |
| D832 | 142 | 12 | 17 |
| D833 | 142 | 12 | 17 |
| D835 | 155 | 13 | 6 |
| D838 | 138 | 12 | 14 |
| D838 | 140 | 12 | 15 |
| D839 | 138 | 12 | 14 |
| D839 | 141 | 12 | 15 |
| D840 | 138 | 12 | 14 |
| D840 | 140 | 12 | 15 |
| D841 | 139 | 12 | 14 |
| D841 | 141 | 12 | 15 |
| D842 | 139 | 12 | 14 |
| D842 | 141 | 12 | 15 |
| D843 | 139 | 12 | 14 |
| D843 | 141 | 12 | 15 |
| D844 | 139 | 12 | 15 |
| D847 | 143 | 12 | 20 |
| D848 | 143 | 12 | 20 |
| D853 | 143 | 12 | 22 |
| D854 | 143 | 12 | 22 |
| D855 | 143 | 12 | 23 |
| D857 | 143 | 12 | 23 |
| D858 | 144 | 12 | 23 |
| D859 | 144 | 12 | 23 |
| D860 | 144 | 12 | 24 |
| D861 | 144 | 12 | 24 |
| D862 | 144 | 12 | 24 |

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

## SECTION D: DEVICE ID INDEX

| Device Index For Section D | | | |
|---|---|---|---|
| **Device ID** | **Section D Page No.** | **Process** | **System** |
| D863 | 144 | 12 | 24 |
| D864 | 144 | 12 | 24 |
| D865 | 145 | 12 | 24 |
| D866 | 145 | 12 | 25 |
| D867 | 145 | 12 | 25 |
| D868 | 145 | 12 | 25 |
| D869 | 145 | 12 | 25 |
| D870 | 146 | 12 | 25 |
| D871 | 146 | 12 | 25 |
| D872 | 146 | 12 | 26 |
| D873 | 146 | 12 | 27 |
| D874 | 147 | 12 | 27 |
| D875 | 147 | 12 | 27 |
| D877 | 148 | 13 | 1 |
| D877 | 150 | 13 | 2 |
| D877 | 151 | 13 | 3 |
| D877 | 153 | 13 | 4 |
| D878 | 148 | 13 | 1 |
| D878 | 150 | 13 | 2 |
| D878 | 151 | 13 | 3 |
| D878 | 153 | 13 | 4 |
| D879 | 147 | 13 | 1 |
| D880 | 148 | 13 | 1 |
| D881 | 148 | 13 | 1 |
| D882 | 148 | 13 | 1 |
| D883 | 149 | 13 | 2 |
| D884 | 150 | 13 | 2 |
| D885 | 149 | 13 | 2 |
| D886 | 150 | 13 | 3 |
| D888 | 151 | 13 | 3 |
| D889 | 151 | 13 | 3 |
| D890 | 152 | 13 | 4 |
| D891 | 152 | 13 | 4 |
| D892 | 152 | 13 | 4 |
| D893 | 152 | 13 | 4 |

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

## SECTION D: DEVICE ID INDEX

| Device Index For Section D | | | |
|---|---|---|---|
| **Device ID** | **Section D Page No.** | **Process** | **System** |
| D894 | 153 | 13 | 4 |
| D895 | 153 | 13 | 5 |
| C896 | 154 | 13 | 5 |
| D897 | 154 | 13 | 5 |
| D898 | 154 | 13 | 5 |
| D898 | 156 | 13 | 7 |
| D899 | 153 | 13 | 5 |
| D900 | 154 | 13 | 5 |
| D900 | 156 | 13 | 7 |
| D901 | 154 | 13 | 5 |
| D901 | 157 | 13 | 7 |
| D903 | 154 | 13 | 5 |
| D904 | 156 | 13 | 6 |
| D907 | 153 | 13 | 5 |
| D908 | 154 | 13 | 5 |
| D908 | 157 | 13 | 7 |
| D909 | 155 | 13 | 5 |
| D909 | 157 | 13 | 7 |
| C910 | 155 | 13 | 6 |
| S912 | 156 | 13 | 6 |
| D913 | 157 | 14 | 1 |
| D917 | 157 | 14 | 2 |
| D923 | 158 | 14 | 2 |
| D924 | 158 | 14 | 2 |
| D960 | 158 | 14 | 5 |
| D962 | 158 | 14 | 5 |
| D964 | 158 | 14 | 5 |
| D992 | 160 | 15 | 2 |
| D994 | 160 | 15 | 4 |
| D995 | 160 | 15 | 4 |
| D997 | 160 | 15 | 4 |
| D998 | 160 | 15 | 4 |
| D999 | 160 | 15 | 4 |
| D1000 | 161 | 15 | 4 |
| D1001 | 162 | 15 | 4 |

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

## SECTION D: DEVICE ID INDEX

| Device Index For Section D | | | |
|---|---|---|---|
| **Device ID** | **Section D Page No.** | **Process** | **System** |
| C1002 | 162 | 15 | 4 |
| D1004 | 163 | 15 | 5 |
| D1005 | 163 | 15 | 5 |
| D1006 | 163 | 15 | 5 |
| D1007 | 163 | 15 | 6 |
| D1008 | 163 | 15 | 6 |
| D1009 | 164 | 15 | 6 |
| D1010 | 164 | 15 | 6 |
| D1011 | 164 | 15 | 6 |
| D1012 | 164 | 15 | 6 |
| D1013 | 164 | 15 | 6 |
| D1014 | 164 | 15 | 6 |
| D1015 | 164 | 15 | 6 |
| D1016 | 165 | 15 | 6 |
| D1021 | 165 | 15 | 6 |
| D1030 | 168 | 15 | 8 |
| D1032 | 168 | 15 | 8 |
| D1058 | 168 | 15 | 9 |
| D1059 | 168 | 15 | 9 |
| D1067 | 173 | 16 | 1 |
| D1069 | 173 | 16 | 1 |
| D1070 | 173 | 16 | 1 |
| D1071 | 174 | 16 | 1 |
| D1072 | 174 | 16 | 1 |
| D1073 | 174 | 16 | 1 |
| D1074 | 174 | 16 | 1 |
| D1075 | 174 | 16 | 1 |
| D1078 | 174 | 16 | 1 |
| D1079 | 174 | 16 | 1 |
| D1080 | 175 | 16 | 1 |
| D1081 | 175 | 16 | 1 |
| D1083 | 175 | 16 | 1 |
| D1084 | 175 | 16 | 1 |
| D1085 | 175 | 16 | 1 |
| D1086 | 175 | 16 | 1 |

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

## SECTION D: DEVICE ID INDEX

| Device Index For Section D | | | |
|---|---|---|---|
| **Device ID** | **Section D Page No.** | **Process** | **System** |
| D1087 | 175 | 16 | 1 |
| D1089 | 176 | 16 | 1 |
| D1090 | 176 | 16 | 1 |
| D1091 | 176 | 16 | 1 |
| D1092 | 176 | 16 | 1 |
| D1093 | 176 | 16 | 1 |
| D1098 | 176 | 16 | 1 |
| D1099 | 176 | 16 | 1 |
| D1102 | 177 | 16 | 1 |
| D1103 | 177 | 16 | 1 |
| D1104 | 177 | 16 | 1 |
| D1105 | 224 | 16 | 5 |
| D1106 | 177 | 16 | 1 |
| D1107 | 177 | 16 | 1 |
| D1108 | 177 | 16 | 1 |
| D1109 | 177 | 16 | 1 |
| D1110 | 178 | 16 | 1 |
| D1111 | 178 | 16 | 1 |
| D1113 | 138 | 12 | 14 |
| D1113 | 140 | 12 | 15 |
| D1114 | 138 | 12 | 14 |
| D1114 | 140 | 12 | 15 |
| D1115 | 178 | 16 | 1 |
| D1116 | 178 | 16 | 1 |
| D1117 | 178 | 16 | 1 |
| D1119 | 178 | 16 | 1 |
| D1120 | 178 | 16 | 1 |
| D1121 | 179 | 16 | 1 |
| D1122 | 179 | 16 | 1 |
| D1123 | 179 | 16 | 1 |
| D1124 | 179 | 16 | 1 |
| D1125 | 179 | 16 | 1 |
| D1126 | 179 | 16 | 1 |
| D1127 | 180 | 16 | 1 |
| D1128 | 180 | 16 | 1 |

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

## SECTION D: DEVICE ID INDEX

| Device Index For Section D | | | |
|---|---|---|---|
| **Device ID** | **Section D Page No.** | **Process** | **System** |
| D1130 | 180 | 16 | 1 |
| D1134 | 180 | 16 | 1 |
| D1135 | 180 | 16 | 1 |
| D1136 | 180 | 16 | 1 |
| D1137 | 180 | 16 | 1 |
| D1138 | 181 | 16 | 1 |
| D1139 | 181 | 16 | 1 |
| D1140 | 181 | 16 | 1 |
| D1141 | 181 | 16 | 1 |
| D1142 | 182 | 16 | 2 |
| D1143 | 182 | 16 | 2 |
| D1144 | 183 | 16 | 2 |
| D1145 | 183 | 16 | 2 |
| D1146 | 184 | 16 | 2 |
| D1147 | 184 | 16 | 2 |
| D1148 | 185 | 16 | 2 |
| D1150 | 186 | 16 | 2 |
| D1153 | 199 | 16 | 4 |
| D1154 | 200 | 16 | 4 |
| D1155 | 200 | 16 | 4 |
| D1156 | 201 | 16 | 4 |
| D1157 | 201 | 16 | 4 |
| D1158 | 202 | 16 | 4 |
| D1159 | 186 | 16 | 2 |
| D1160 | 187 | 16 | 2 |
| D1161 | 202 | 16 | 4 |
| D1162 | 187 | 16 | 2 |
| D1163 | 188 | 16 | 2 |
| D1164 | 188 | 16 | 2 |
| D1165 | 189 | 16 | 2 |
| D1166 | 203 | 16 | 4 |
| D1167 | 204 | 16 | 4 |
| D1168 | 205 | 16 | 4 |
| D1169 | 206 | 16 | 4 |
| D1170 | 207 | 16 | 4 |

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

## SECTION D: DEVICE ID INDEX

| Device Index For Section D | | | |
|---|---|---|---|
| **Device ID** | **Section D Page No.** | **Process** | **System** |
| D1171 | 208 | 16 | 4 |
| D1172 | 209 | 16 | 4 |
| D1173 | 210 | 16 | 4 |
| D1174 | 211 | 16 | 4 |
| D1175 | 189 | 16 | 2 |
| D1176 | 212 | 16 | 4 |
| D1177 | 213 | 16 | 4 |
| D1178 | 214 | 16 | 4 |
| D1179 | 215 | 16 | 4 |
| D1180 | 216 | 16 | 4 |
| D1181 | 217 | 16 | 4 |
| D1182 | 218 | 16 | 4 |
| D1183 | 219 | 16 | 4 |
| D1184 | 220 | 16 | 4 |
| D1185 | 190 | 16 | 2 |
| D1186 | 190 | 16 | 2 |
| D1187 | 191 | 16 | 2 |
| D1188 | 220 | 16 | 4 |
| D1190 | 221 | 16 | 4 |
| D1193 | 191 | 16 | 2 |
| D1194 | 222 | 16 | 4 |
| D1195 | 222 | 16 | 4 |
| D1196 | 223 | 16 | 4 |
| D1199 | 192 | 16 | 2 |
| D1200 | 193 | 16 | 3 |
| D1201 | 193 | 16 | 3 |
| D1202 | 193 | 16 | 3 |
| D1203 | 194 | 16 | 3 |
| D1204 | 194 | 16 | 3 |
| D1205 | 195 | 16 | 3 |
| D1206 | 195 | 16 | 3 |
| D1207 | 195 | 16 | 3 |
| D1208 | 195 | 16 | 3 |
| D1209 | 195 | 16 | 3 |
| D1210 | 196 | 16 | 3 |

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

## SECTION D: DEVICE ID INDEX

| Device Index For Section D | | | |
|---|---|---|---|
| **Device ID** | **Section D Page No.** | **Process** | **System** |
| D1211 | 196 | 16 | 3 |
| D1212 | 196 | 16 | 3 |
| D1213 | 196 | 16 | 3 |
| D1214 | 196 | 16 | 3 |
| D1215 | 196 | 16 | 3 |
| D1216 | 196 | 16 | 3 |
| D1217 | 197 | 16 | 3 |
| D1218 | 197 | 16 | 3 |
| D1219 | 197 | 16 | 3 |
| D1220 | 197 | 16 | 3 |
| D1221 | 197 | 16 | 3 |
| D1222 | 197 | 16 | 3 |
| D1223 | 197 | 16 | 3 |
| D1225 | 198 | 16 | 3 |
| D1226 | 226 | 17 | 1 |
| D1227 | 227 | 17 | 1 |
| D1228 | 227 | 17 | 1 |
| D1228 | 231 | 17 | 2 |
| D1228 | 234 | 17 | 3 |
| D1228 | 238 | 17 | 4 |
| D1229 | 227 | 17 | 1 |
| D1229 | 231 | 17 | 2 |
| D1229 | 234 | 17 | 3 |
| D1229 | 238 | 17 | 4 |
| D1230 | 227 | 17 | 1 |
| D1231 | 227 | 17 | 1 |
| D1231 | 231 | 17 | 2 |
| D1231 | 234 | 17 | 3 |
| D1231 | 238 | 17 | 4 |
| D1232 | 228 | 17 | 1 |
| D1232 | 231 | 17 | 2 |
| D1232 | 235 | 17 | 3 |
| D1232 | 238 | 17 | 4 |
| D1233 | 230 | 17 | 2 |
| D1234 | 230 | 17 | 2 |

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

## SECTION D: DEVICE ID INDEX

| Device Index For Section D | | | |
|---|---|---|---|
| **Device ID** | **Section D Page No.** | **Process** | **System** |
| D1235 | 231 | 17 | 2 |
| D1236 | 233 | 17 | 3 |
| D1237 | 234 | 17 | 3 |
| D1238 | 234 | 17 | 3 |
| D1239 | 237 | 17 | 4 |
| D1240 | 237 | 17 | 4 |
| D1241 | 238 | 17 | 4 |
| C1242 | 240 | 17 | 5 |
| C1243 | 240 | 17 | 5 |
| C1244 | 240 | 17 | 5 |
| D1245 | 240 | 17 | 5 |
| D1245 | 241 | 17 | 6 |
| D1245 | 241 | 17 | 7 |
| D1245 | 242 | 17 | 8 |
| S1247 | 240 | 17 | 5 |
| C1248 | 240 | 17 | 6 |
| C1249 | 241 | 17 | 6 |
| C1250 | 241 | 17 | 6 |
| S1251 | 241 | 17 | 6 |
| C1252 | 241 | 17 | 7 |
| C1253 | 241 | 17 | 7 |
| C1254 | 241 | 17 | 7 |
| S1255 | 241 | 17 | 7 |
| C1256 | 242 | 17 | 8 |
| C1257 | 242 | 17 | 8 |
| C1258 | 242 | 17 | 8 |
| S1259 | 242 | 17 | 8 |
| D1267 | 243 | 19 | 1 |
| D1268 | 243 | 19 | 1 |
| D1269 | 243 | 19 | 1 |
| D1272 | 243 | 19 | 2 |
| D1274 | 243 | 19 | 2 |
| D1275 | 243 | 19 | 2 |
| D1276 | 244 | 19 | 3 |
| D1277 | 244 | 19 | 3 |

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

## SECTION D: DEVICE ID INDEX

| Device Index For Section D | | | |
|---|---|---|---|
| **Device ID** | **Section D Page No.** | **Process** | **System** |
| D1280 | 244 | 19 | 4 |
| D1282 | 244 | 19 | 4 |
| D1284 | 242 | 18 | 2 |
| D1285 | 242 | 18 | 2 |
| D1286 | 242 | 18 | 2 |
| D1287 | 249 | 19 | 7 |
| D1288 | 249 | 19 | 7 |
| D1289 | 249 | 19 | 7 |
| C1302 | 249 | 21 | 1 |
| D1303 | 249 | 21 | 1 |
| D1304 | 249 | 21 | 1 |
| C1305 | 250 | 21 | 2 |
| D1306 | 250 | 21 | 2 |
| D1307 | 250 | 21 | 2 |
| C1308 | 251 | 21 | 3 |
| D1309 | 251 | 21 | 3 |
| D1310 | 251 | 21 | 3 |
| D1311 | 251 | 21 | 3 |
| D1312 | 251 | 21 | 3 |
| D1313 | 252 | 21 | 4 |
| D1314 | 252 | 21 | 4 |
| D1315 | 252 | 21 | 4 |
| D1316 | 252 | 21 | 4 |
| D1317 | 253 | 21 | 4 |
| D1319 | 253 | 21 | 4 |
| D1320 | 253 | 21 | 4 |
| D1321 | 253 | 21 | 4 |
| D1322 | 253 | 21 | 4 |
| D1323 | 253 | 21 | 4 |
| D1324 | 253 | 21 | 4 |
| D1325 | 253 | 21 | 4 |
| C1326 | 254 | 21 | 5 |
| D1327 | 255 | 21 | 5 |
| D1328 | 255 | 21 | 5 |
| C1329 | 244 | 19 | 4 |

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

## SECTION D: DEVICE ID INDEX

| Device Index For Section D | | | |
|---|---|---|---|
| **Device ID** | **Section D Page No.** | **Process** | **System** |
| D1332 | 5 | 1 | 3 |
| C1335 | 9 | 1 | 8 |
| D1363 | 33 | 3 | 7 |
| D1400 | 39 | 4 | 2 |
| D1401 | 39 | 4 | 2 |
| D1402 | 39 | 4 | 2 |
| D1403 | 39 | 4 | 2 |
| D1404 | 54 | 5 | 3 |
| D1405 | 54 | 5 | 3 |
| D1406 | 54 | 5 | 3 |
| D1407 | 55 | 5 | 3 |
| D1408 | 55 | 5 | 3 |
| D1409 | 55 | 5 | 3 |
| D1410 | 55 | 5 | 3 |
| D1411 | 56 | 5 | 3 |
| D1412 | 56 | 5 | 3 |
| D1413 | 56 | 5 | 3 |
| D1420 | 62 | 5 | 5 |
| D1421 | 62 | 5 | 5 |
| D1422 | 62 | 5 | 5 |
| D1423 | 62 | 5 | 5 |
| D1424 | 62 | 5 | 5 |
| D1425 | 62 | 5 | 5 |
| D1426 | 62 | 5 | 5 |
| D1427 | 63 | 5 | 5 |
| D1432 | 63 | 5 | 5 |
| D1433 | 67 | 5 | 6 |
| D1434 | 67 | 6 | 1 |
| D1435 | 68 | 6 | 1 |
| D1436 | 68 | 6 | 1 |
| D1439 | 81 | 6 | 4 |
| D1443 | 87 | 7 | 2 |
| D1444 | 87 | 7 | 2 |
| D1446 | 87 | 7 | 2 |
| D1447 | 87 | 7 | 2 |

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

## SECTION D: DEVICE ID INDEX

| Device Index For Section D | | | |
|---|---|---|---|
| **Device ID** | **Section D Page No.** | **Process** | **System** |
| D1448 | 87 | 7 | 2 |
| D1449 | 88 | 7 | 2 |
| D1450 | 88 | 7 | 2 |
| D1451 | 88 | 7 | 2 |
| D1452 | 88 | 7 | 2 |
| D1453 | 88 | 7 | 2 |
| D1455 | 88 | 7 | 2 |
| D1456 | 88 | 7 | 2 |
| D1457 | 88 | 7 | 2 |
| D1458 | 89 | 7 | 2 |
| D1459 | 89 | 7 | 2 |
| D1460 | 89 | 7 | 2 |
| D1461 | 89 | 7 | 2 |
| D1462 | 89 | 7 | 2 |
| D1463 | 89 | 7 | 2 |
| D1464 | 89 | 7 | 2 |
| D1465 | 91 | 7 | 3 |
| C1466 | 92 | 7 | 4 |
| D1467 | 92 | 7 | 4 |
| S1468 | 92 | 7 | 4 |
| D1470 | 95 | 8 | 1 |
| D1471 | 95 | 8 | 1 |
| D1479 | 100 | 9 | 1 |
| D1480 | 100 | 9 | 1 |
| D1481 | 100 | 9 | 1 |
| D1482 | 100 | 9 | 1 |
| D1483 | 101 | 9 | 1 |
| D1484 | 101 | 9 | 1 |
| D1485 | 101 | 9 | 1 |
| D1486 | 101 | 9 | 1 |
| D1487 | 101 | 9 | 1 |
| D1488 | 101 | 9 | 1 |
| D1489 | 101 | 9 | 1 |
| D1490 | 101 | 9 | 1 |
| D1491 | 102 | 9 | 1 |

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

## SECTION D: DEVICE ID INDEX

| Device Index For Section D | | | |
|---|---|---|---|
| **Device ID** | **Section D Page No.** | **Process** | **System** |
| D1492 | 102 | 9 | 1 |
| D1493 | 102 | 9 | 1 |
| D1494 | 102 | 9 | 1 |
| D1495 | 102 | 9 | 1 |
| D1496 | 102 | 9 | 1 |
| D1497 | 102 | 9 | 1 |
| D1498 | 102 | 9 | 1 |
| D1499 | 103 | 9 | 1 |
| D1500 | 103 | 9 | 1 |
| D1501 | 103 | 9 | 1 |
| D1502 | 103 | 9 | 1 |
| D1508 | 116 | 9 | 9 |
| D1509 | 116 | 9 | 9 |
| D1512 | 117 | 9 | 9 |
| D1513 | 117 | 9 | 9 |
| D1517 | 109 | 9 | 1 |
| D1520 | 103 | 9 | 1 |
| D1521 | 109 | 9 | 1 |
| D1522 | 103 | 9 | 1 |
| D1527 | 107 | 9 | 1 |
| D1528 | 107 | 9 | 1 |
| D1529 | 107 | 9 | 1 |
| D1531 | 107 | 9 | 1 |
| D1532 | 108 | 9 | 1 |
| D1533 | 108 | 9 | 1 |
| D1535 | 108 | 9 | 1 |
| D1536 | 108 | 9 | 1 |
| D1537 | 117 | 9 | 9 |
| D1538 | 108 | 9 | 1 |
| D1539 | 112 | 9 | 6 |
| D1541 | 112 | 9 | 6 |
| D1585 | 113 | 9 | 8 |
| D1586 | 113 | 9 | 8 |
| D1588 | 113 | 9 | 8 |
| D1589 | 113 | 9 | 8 |

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

## SECTION D: DEVICE ID INDEX

| Device Index For Section D | | | |
|---|---|---|---|
| **Device ID** | **Section D Page No.** | **Process** | **System** |
| D1590 | 113 | 9 | 8 |
| D1591 | 114 | 9 | 8 |
| D1592 | 114 | 9 | 8 |
| D1593 | 114 | 9 | 8 |
| D1594 | 114 | 9 | 8 |
| D1595 | 114 | 9 | 8 |
| D1596 | 114 | 9 | 8 |
| D1597 | 114 | 9 | 8 |
| D1598 | 114 | 9 | 8 |
| D1599 | 115 | 9 | 8 |
| D1600 | 115 | 9 | 8 |
| D1601 | 115 | 9 | 8 |
| D1602 | 115 | 9 | 8 |
| D1603 | 115 | 9 | 8 |
| D1604 | 115 | 9 | 8 |
| D1620 | 123 | 11 | 1 |
| D1627 | 159 | 15 | 1 |
| C1628 | 159 | 15 | 1 |
| C1630 | 160 | 15 | 2 |
| C1632 | 162 | 15 | 4 |
| D1634 | 162 | 15 | 4 |
| C1635 | 163 | 15 | 5 |
| D1637 | 165 | 15 | 6 |
| C1638 | 165 | 15 | 6 |
| C1640 | 165 | 15 | 6 |
| D1644 | 166 | 15 | 7 |
| D1645 | 166 | 15 | 7 |
| D1646 | 167 | 15 | 7 |
| D1647 | 167 | 15 | 7 |
| D1648 | 167 | 15 | 7 |
| D1649 | 167 | 15 | 7 |
| D1650 | 193 | 16 | 3 |
| D1651 | 193 | 16 | 3 |
| D1652 | 194 | 16 | 3 |
| D1653 | 194 | 16 | 3 |

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

## SECTION D: DEVICE ID INDEX

| Device Index For Section D | | | |
|---|---|---|---|
| **Device ID** | **Section D Page No.** | **Process** | **System** |
| D1654 | 194 | 16 | 3 |
| D1655 | 195 | 16 | 3 |
| D1656 | 254 | 21 | 4 |
| D1657 | 254 | 21 | 4 |
| D1658 | 254 | 21 | 4 |
| D1659 | 254 | 21 | 4 |
| D1660 | 254 | 21 | 4 |
| D1974 | 42 | 4 | 7 |
| D1975 | 42 | 4 | 7 |
| D1977 | 42 | 4 | 7 |
| D1978 | 42 | 4 | 7 |
| D1979 | 42 | 4 | 7 |
| D1980 | 42 | 4 | 7 |
| D1982 | 42 | 4 | 7 |
| D1983 | 42 | 4 | 7 |
| D1984 | 43 | 4 | 7 |
| D1985 | 43 | 4 | 7 |
| D1986 | 181 | 16 | 1 |
| D1997 | 247 | 19 | 6 |
| D1998 | 247 | 19 | 6 |
| D2003 | 145 | 12 | 24 |
| D2003 | 146 | 12 | 25 |
| D2005 | 119 | 10 | 1 |
| D2006 | 119 | 10 | 1 |
| D2008 | 165 | 15 | 6 |
| D2009 | 165 | 15 | 6 |
| D2010 | 166 | 15 | 6 |
| D2011 | 166 | 15 | 6 |
| D2012 | 166 | 15 | 6 |
| D2013 | 166 | 15 | 6 |
| C2014 | 166 | 15 | 6 |
| D2019 | 108 | 9 | 1 |
| D2044 | 108 | 9 | 1 |
| D2049 | 89 | 7 | 2 |
| D2055 | 89 | 7 | 2 |

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

## SECTION D: DEVICE ID INDEX

| Device Index For Section D | | | |
|---|---|---|---|
| **Device ID** | **Section D Page No.** | **Process** | **System** |
| D2056 | 112 | 9 | 6 |
| D2057 | 112 | 9 | 6 |
| D2058 | 112 | 9 | 6 |
| D2059 | 112 | 9 | 6 |
| D2070 | 97 | 8 | 2 |
| D2092 | 117 | 9 | 10 |
| D2093 | 117 | 9 | 10 |
| D2094 | 118 | 9 | 10 |
| D2096 | 118 | 9 | 10 |
| D2097 | 118 | 9 | 10 |
| D2098 | 254 | 21 | 4 |
| D2100 | 118 | 9 | 10 |
| D2101 | 118 | 9 | 10 |
| D2102 | 118 | 9 | 10 |
| D2105 | 118 | 9 | 10 |
| D2111 | 228 | 17 | 1 |
| D2111 | 231 | 17 | 2 |
| D2111 | 235 | 17 | 3 |
| D2111 | 238 | 17 | 4 |
| D2112 | 228 | 17 | 1 |
| D2112 | 232 | 17 | 2 |
| D2112 | 235 | 17 | 3 |
| D2112 | 239 | 17 | 4 |
| D2113 | 228 | 17 | 1 |
| D2113 | 232 | 17 | 2 |
| D2113 | 235 | 17 | 3 |
| D2113 | 239 | 17 | 4 |
| D2114 | 228 | 17 | 1 |
| D2114 | 232 | 17 | 2 |
| D2114 | 235 | 17 | 3 |
| D2114 | 239 | 17 | 4 |
| D2115 | 198 | 16 | 3 |
| D2116 | 198 | 16 | 3 |
| D2117 | 198 | 16 | 3 |
| D2118 | 198 | 16 | 3 |

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

## SECTION D: DEVICE ID INDEX

| Device Index For Section D | | | |
|---|---|---|---|
| **Device ID** | **Section D Page No.** | **Process** | **System** |
| D2119 | 198 | 16 | 3 |
| D2120 | 198 | 16 | 3 |
| D2121 | 158 | 14 | 10 |
| D2131 | 159 | 14 | 11 |
| D2139 | 159 | 14 | 12 |
| D2146 | 109 | 9 | 1 |
| D2147 | 109 | 9 | 1 |
| D2148 | 109 | 9 | 1 |
| D2149 | 245 | 19 | 5 |
| C2151 | 245 | 19 | 5 |
| D2153 | 192 | 16 | 2 |
| D2157 | 167 | 15 | 7 |
| D2158 | 167 | 15 | 7 |
| D2307 | 43 | 4 | 8 |
| D2308 | 43 | 4 | 8 |
| D2309 | 43 | 4 | 8 |
| D2310 | 43 | 4 | 8 |
| D2311 | 44 | 4 | 8 |
| D2312 | 44 | 4 | 8 |
| D2313 | 44 | 4 | 8 |
| D2314 | 44 | 4 | 8 |
| D2315 | 44 | 4 | 8 |
| D2316 | 44 | 4 | 8 |
| D2317 | 44 | 4 | 8 |
| D2318 | 45 | 4 | 8 |
| D2319 | 45 | 4 | 8 |
| D2320 | 45 | 4 | 8 |
| D2321 | 45 | 4 | 8 |
| D2326 | 45 | 4 | 8 |
| D2327 | 45 | 4 | 8 |
| D2329 | 45 | 4 | 8 |
| D2330 | 46 | 4 | 8 |
| D2331 | 47 | 4 | 9 |
| D2332 | 47 | 4 | 9 |
| D2333 | 47 | 4 | 9 |

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

## SECTION D: DEVICE ID INDEX

| Device Index For Section D | | | |
|---|---|---|---|
| **Device ID** | **Section D Page No.** | **Process** | **System** |
| D2334 | 47 | 4 | 9 |
| D2335 | 47 | 4 | 9 |
| D2336 | 47 | 4 | 9 |
| D2337 | 47 | 4 | 9 |
| D2338 | 47 | 4 | 9 |
| D2340 | 48 | 4 | 9 |
| D2351 | 48 | 4 | 9 |
| D2352 | 48 | 4 | 9 |
| D2353 | 199 | 16 | 3 |
| D2363 | 128 | 12 | 8 |
| D2364 | 128 | 12 | 8 |
| D2365 | 128 | 12 | 8 |
| D2366 | 128 | 12 | 8 |
| D2367 | 128 | 12 | 8 |
| D2368 | 128 | 12 | 8 |
| D2369 | 109 | 9 | 1 |
| D2370 | 109 | 9 | 1 |
| D2371 | 109 | 9 | 1 |
| D2372 | 110 | 9 | 1 |
| D2373 | 110 | 9 | 1 |
| D2388 | 12 | 2 | 1 |
| D2389 | 14 | 2 | 2 |
| D2390 | 31 | 3 | 3 |
| D2394 | 199 | 16 | 3 |
| D2395 | 46 | 4 | 8 |
| D2396 | 46 | 4 | 8 |
| D2397 | 46 | 4 | 8 |
| D2398 | 46 | 4 | 8 |
| D2399 | 46 | 4 | 8 |
| D2400 | 48 | 4 | 9 |
| D2401 | 48 | 4 | 9 |
| D2402 | 48 | 4 | 9 |
| D2403 | 48 | 4 | 9 |
| D2404 | 128 | 12 | 8 |
| C2413 | 156 | 13 | 6 |

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

## SECTION D: DEVICE ID INDEX

| Device Index For Section D | | | |
|---|---|---|---|
| **Device ID** | **Section D Page No.** | **Process** | **System** |
| S2415 | 156 | 13 | 6 |
| D2416 | 247 | 19 | 6 |
| D2417 | 247 | 19 | 6 |
| D2418 | 248 | 19 | 6 |
| C2445 | 255 | 21 | 8 |
| C2446 | 169 | 15 | 9 |
| D2459 | 2 | 1 | 1 |
| D2460 | 3 | 1 | 2 |
| D2461 | 5 | 1 | 3 |
| D2462 | 7 | 1 | 5 |
| D2463 | 8 | 1 | 6 |
| D2464 | 9 | 1 | 7 |
| D2465 | 12 | 2 | 1 |
| D2466 | 14 | 2 | 2 |
| D2467 | 15 | 2 | 3 |
| D2468 | 16 | 2 | 5 |
| D2469 | 16 | 2 | 6 |
| D2470 | 23 | 2 | 11 |
| D2471 | 27 | 3 | 1 |
| D2472 | 30 | 3 | 2 |
| D2473 | 31 | 3 | 3 |
| D2474 | 39 | 4 | 2 |
| D2475 | 33 | 3 | 6 |
| D2476 | 38 | 4 | 1 |
| D2477 | 40 | 4 | 3 |
| D2478 | 41 | 4 | 4 |
| D2479 | 41 | 4 | 5 |
| D2481 | 43 | 4 | 7 |
| D2482 | 51 | 5 | 1 |
| D2483 | 54 | 5 | 2 |
| D2484 | 60 | 5 | 3 |
| D2485 | 62 | 5 | 4 |
| D2486 | 46 | 4 | 8 |
| D2487 | 48 | 4 | 9 |
| D2488 | 63 | 5 | 5 |

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

## SECTION D: DEVICE ID INDEX

| Device Index For Section D | | | |
|---|---|---|---|
| **Device ID** | **Section D Page No.** | **Process** | **System** |
| D2489 | 72 | 6 | 1 |
| D2490 | 75 | 6 | 2 |
| D2491 | 80 | 6 | 3 |
| D2492 | 87 | 7 | 1 |
| D2493 | 90 | 7 | 2 |
| D2494 | 95 | 8 | 1 |
| D2495 | 97 | 8 | 2 |
| D2496 | 110 | 9 | 1 |
| D2497 | 112 | 9 | 2 |
| D2500 | 147 | 12 | 27 |
| D2501 | 113 | 9 | 6 |
| D2502 | 115 | 9 | 8 |
| D2503 | 117 | 9 | 9 |
| D2504 | 118 | 9 | 10 |
| D2505 | 119 | 10 | 1 |
| D2506 | 121 | 10 | 2 |
| D2507 | 122 | 10 | 3 |
| D2508 | 123 | 11 | 1 |
| D2509 | 124 | 12 | 1 |
| D2510 | 125 | 12 | 2 |
| D2511 | 126 | 12 | 3 |
| D2512 | 126 | 12 | 4 |
| D2513 | 127 | 12 | 5 |
| D2514 | 139 | 12 | 14 |
| D2515 | 127 | 12 | 7 |
| D2516 | 129 | 12 | 8 |
| D2517 | 130 | 12 | 9 |
| D2518 | 132 | 12 | 10 |
| D2519 | 134 | 12 | 11 |
| D2520 | 135 | 12 | 12 |
| D2521 | 137 | 12 | 13 |
| D2527 | 141 | 12 | 15 |
| D2528 | 143 | 12 | 20 |
| D2529 | 143 | 12 | 22 |
| D2530 | 144 | 12 | 23 |

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

## SECTION D: DEVICE ID INDEX

| Device Index For Section D | | | |
|---|---|---|---|
| **Device ID** | **Section D Page No.** | **Process** | **System** |
| D2531 | 145 | 12 | 24 |
| D2532 | 146 | 12 | 25 |
| D2533 | 157 | 14 | 1 |
| D2534 | 158 | 14 | 2 |
| D2536 | 146 | 12 | 26 |
| D2538 | 158 | 14 | 10 |
| D2539 | 159 | 14 | 11 |
| D2540 | 159 | 14 | 12 |
| D2541 | 167 | 15 | 7 |
| D2542 | 250 | 21 | 1 |
| D2543 | 250 | 21 | 2 |
| D2544 | 251 | 21 | 3 |
| D2545 | 254 | 21 | 4 |
| D2546 | 255 | 21 | 5 |
| D2585 | 229 | 17 | 1 |
| D2586 | 233 | 17 | 2 |
| D2587 | 236 | 17 | 3 |
| D2588 | 240 | 17 | 4 |
| D2589 | 181 | 16 | 1 |
| D2590 | 193 | 16 | 2 |
| D2591 | 199 | 16 | 3 |
| E2592 | 258 | 23 | 1 |
| E2593 | 258 | 23 | 1 |
| E2594 | 258 | 23 | 1 |
| E2595 | 259 | 23 | 1 |
| E2596 | 259 | 23 | 1 |
| E2597 | 259 | 23 | 1 |
| E2598 | 259 | 23 | 1 |
| E2599 | 259 | 23 | 1 |
| D2600 | 159 | 15 | 1 |
| D2601 | 166 | 15 | 6 |
| D2602 | 147 | 13 | 1 |
| D2604 | 149 | 13 | 2 |
| D2605 | 151 | 13 | 3 |
| D2606 | 152 | 13 | 4 |

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

## SECTION D: DEVICE ID INDEX

| Device Index For Section D | | | |
|---|---|---|---|
| **Device ID** | **Section D Page No.** | **Process** | **System** |
| D2607 | 152 | 13 | 4 |
| D2608 | 152 | 13 | 4 |
| D2612 | 173 | 16 | 1 |
| D2613 | 149 | 13 | 1 |
| D2614 | 150 | 13 | 2 |
| D2615 | 153 | 13 | 4 |
| D2645 | 148 | 13 | 1 |
| D2646 | 149 | 13 | 2 |
| D2654 | 147 | 13 | 1 |
| D2655 | 149 | 13 | 2 |
| D2656 | 150 | 13 | 3 |
| D2675 | 151 | 13 | 3 |
| D2676 | 155 | 13 | 5 |
| D2677 | 157 | 13 | 7 |
| D2678 | 156 | 13 | 6 |
| D2712 | 130 | 12 | 9 |
| D2712 | 132 | 12 | 10 |
| D2726 | 6 | 1 | 5 |
| D2727 | 7 | 1 | 5 |
| D2728 | 137 | 12 | 14 |
| D2728 | 140 | 12 | 15 |
| D2740 | 228 | 17 | 1 |
| D2740 | 232 | 17 | 2 |
| D2740 | 235 | 17 | 3 |
| D2740 | 239 | 17 | 4 |
| D2741 | 229 | 17 | 1 |
| D2741 | 232 | 17 | 2 |
| D2741 | 236 | 17 | 3 |
| D2741 | 239 | 17 | 4 |
| D2742 | 229 | 17 | 1 |
| D2742 | 233 | 17 | 2 |
| D2742 | 236 | 17 | 3 |
| D2742 | 240 | 17 | 4 |
| D2743 | 141 | 12 | 16 |
| D2744 | 142 | 12 | 16 |

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

## SECTION D: DEVICE ID INDEX

| Device Index For Section D | | | |
|---|---|---|---|
| **Device ID** | **Section D Page No.** | **Process** | **System** |
| D2745 | 155 | 13 | 6 |
| D2746 | 155 | 13 | 6 |
| D2747 | 169 | 15 | 9 |
| C2748 | 169 | 15 | 9 |
| D2749 | 172 | 15 | 12 |
| D2750 | 170 | 15 | 9 |
| D2751 | 170 | 15 | 9 |
| D2752 | 170 | 15 | 9 |
| C2753 | 170 | 15 | 9 |
| D2754 | 170 | 15 | 9 |
| D2755 | 170 | 15 | 9 |
| C2756 | 170 | 15 | 9 |
| D2757 | 171 | 15 | 9 |
| C2758 | 171 | 15 | 9 |
| D2759 | 171 | 15 | 9 |
| C2760 | 171 | 15 | 9 |
| D2761 | 171 | 15 | 9 |
| C2762 | 171 | 15 | 9 |
| D2775 | 229 | 17 | 1 |
| D2775 | 232 | 17 | 2 |
| D2775 | 236 | 17 | 3 |
| D2775 | 239 | 17 | 4 |
| D2776 | 248 | 19 | 6 |
| D2787 | 171 | 15 | 9 |
| C2788 | 172 | 15 | 9 |
| D2789 | 225 | 16 | 5 |
| D2790 | 225 | 16 | 5 |
| D2791 | 225 | 16 | 5 |
| D2792 | 225 | 16 | 5 |
| D2793 | 225 | 16 | 5 |
| D2794 | 225 | 16 | 5 |
| D2811 | 172 | 15 | 9 |
| C2812 | 172 | 15 | 9 |
| C2813 | 255 | 21 | 8 |
| C2814 | 255 | 21 | 8 |

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

## SECTION D: DEVICE ID INDEX

| Device Index For Section D | | | |
|---|---|---|---|
| **Device ID** | **Section D Page No.** | **Process** | **System** |
| C2815 | 255 | 21 | 8 |
| C2816 | 256 | 21 | 8 |
| C2817 | 256 | 21 | 8 |
| C2818 | 256 | 21 | 8 |
| C2819 | 256 | 21 | 8 |
| C2820 | 256 | 21 | 8 |
| C2821 | 256 | 21 | 8 |
| C2822 | 257 | 21 | 8 |
| C2823 | 257 | 21 | 8 |
| C2824 | 257 | 21 | 8 |
| C2825 | 257 | 21 | 8 |
| C2826 | 257 | 21 | 8 |
| C2827 | 257 | 21 | 8 |
| C2828 | 258 | 21 | 8 |
| C2829 | 258 | 21 | 8 |
| C2830 | 258 | 21 | 8 |
| C2831 | 258 | 21 | 8 |
| C2832 | 258 | 21 | 8 |
| D2834 | 169 | 15 | 9 |
| D2835 | 169 | 15 | 9 |
| D2837 | 34 | 3 | 7 |
| D2840 | 225 | 16 | 5 |
| D2850 | 224 | 16 | 4 |
| D2859 | 248 | 19 | 6 |
| D2878 | 224 | 16 | 4 |
| D2878 | 226 | 16 | 5 |
| D2880 | 172 | 15 | 9 |
| C2881 | 172 | 15 | 9 |
| D2882 | 142 | 12 | 16 |
| D2883 | 142 | 12 | 17 |
| D2885 | 259 | 24 | 0 |
| C2886 | 169 | 15 | 9 |
| D2887 | 118 | 9 | 10 |
| D2888 | 115 | 9 | 8 |
| D2891 | 113 | 9 | 6 |

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

## SECTION D: DEVICE ID INDEX

| Device Index For Section D | | | |
|---|---|---|---|
| **Device ID** | **Section D Page No.** | **Process** | **System** |
| D2911 | 31 | 3 | 4 |
| D2926 | 245 | 19 | 5 |
| C2928 | 246 | 19 | 5 |
| D2930 | 246 | 19 | 5 |
| C2931 | 246 | 19 | 5 |
| D2933 | 3 | 1 | 2 |
| D2934 | 3 | 1 | 2 |
| D2936 | 130 | 12 | 9 |
| D2936 | 131 | 12 | 10 |
| D2936 | 133 | 12 | 11 |
| D2936 | 135 | 12 | 12 |
| D2936 | 137 | 12 | 13 |
| D2937 | 130 | 12 | 9 |
| D2937 | 131 | 12 | 10 |
| D2937 | 134 | 12 | 11 |
| D2937 | 135 | 12 | 12 |
| D2937 | 137 | 12 | 13 |
| D2938 | 139 | 12 | 15 |

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

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

### 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 use 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
# BP WEST COAST PROD.LLC BP CARSON REF.

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

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

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

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

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
# BP WEST COAST PROD.LLC BP CARSON REF.

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

[**RULE 2004, 5-11-2001;** RULE 2004, 4-6-2007]

F34.1 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

[**40CFR 79, 7-1-1999; 40CFR 80, 7-1-1999**]

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

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

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

40CFR61, Subpart FF

Waste management units (as defined in Subpart FF) subject to the standards of Subpart FF are identified in the equipment specific section.

Other waste management units associated with waste streams are either exempt under 2 Mg/Yr limit or under the 10 PPMV limit, and are therefore not subject to the standards of Subpart FF. To demonstrate continued exemptions, the operator shall submit a copy of the annual NESHAP for Benzene Waste Operations report sent to the EPA to the District.

Exceeding the 2 Mg/Yr limit containing greater than 10 ppmw benzene shall be a violation of Subpart FF, unless the operator has notified the AQMD and the EPA prior to the start of the new year about their plans to change to another compliance option allowed by Subpart FF regulation. The notification to the AQMD shall also address the necessary permit modifications, including submitting any additional applications, resulting from the changes to the compliance option.

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

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

CONSENT DECREE CIVIL NO. 2:96 CV 095 RL

CONSENT DECREE CIVIL NO. 2:96 CV 095 RL (Fourth Amendment)

40 CFR 60 Subpart A

40 CFR 61 Subpart A

40 CFR 63 Subpart A

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

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

[**40CFR 60 Subpart A, 6-13-2007; 40CFR 61 Subpart A, 5-16-2007; 40CFR 63 Subpart A, 5-16-2007; CONSENT DECREE CIVIL NO. 2:96 CV 095 RL, 8-29-2001; CONSENT DECREE CIVIL NO. 2:96 CV 095 RL (Fourth Amendment), 10-7-2005**]

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.

### SYSTEM CONDITIONS

S1.1 The operator shall limit the material processed to no more than 6000 ton(s) in any one day.

For the purpose of this condition, material processed shall be defined as the total amount of petroleum coke loaded into trucks through the four load out weigh hoppers, 1A/B and 2A/B, in short tons.

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

[Systems subject to this condition : Process 2, System 12]

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 7, System 1 , 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
# BP WEST COAST PROD.LLC BP CARSON REF.

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

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

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

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

All process drains shall be equipped with water seal, or a closed vent system and control device complying with the requirements of 40CFR60 Subpart QQQ section 60.692-5.

[**RULE 1173, 5-13-1994; RULE 1173, 2-6-2009; 40CFR 60 Subpart QQQ, 10-17-2000**]

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

S4.4 The following condition(s) shall apply to all affected devices listed under Section H of this system for fugitive emissions of volatile organic compounds (VOC):

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

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

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

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

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

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

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

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

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

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

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

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

removed from service. The operator shall also submit a complete, as built, piping and instrumentation diagram(s) and copies of requisition data sheet for all non-leakless type valves with a listing of tag numbers and reasons why leakless valves were not used.

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

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

S7.1 The following conditions shall apply to all coke handling and related devices from this system:

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

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

The operator shall submit an application for a permit to construct for a modification of the coke handling and storage system (Process 2 System 8) prior to the construction of this system for compliance with Rule 1158.

To comply with Rule 1158 (d)(10), the operator shall install and operate a fog spray system at each material transfer point such that the transferring of petroleum coke shall not cause any visible airborne dust at the transfer point for more than three minutes in any one hour.

If this facility is operated in violation of this condition for visible emission, the operator shall provide covers or total enclosure on all transfer points except those between the weigh hoppers and the truck trailers, for which the operator shall provide loading socks to reduce airborne dust by totally enclosing the dropping materials above the slot-top cover.

The operator shall install and operate a fog spray system at each opening of the station building. The entrance and exit of the station building for trucks shall have overlapping flaps which shall remain closed when sustained wind speed exceeds 5 miles per hour or when wind gusts exceed 25 miles per hour.

For the purpose of this condition, transfer point shall be defined as the point where petroleum coke is dropped from the conveyor into the load out bin, from the load out bin into the weigh hopper, or from the weigh hopper into the truck trailer.

[RULE 1158, 7-11-2008]

[Systems subject to this condition : Process 2, System 12]

S7.2 The following conditions shall apply to all coke handling and related devices from this system:

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

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

The operator shall install and operate a fog spray system at each opening of the building. The entrance and exit of the building shall have doors or overlapping flaps which shall remain closed at all times except to allow vehicles to enter or leave.

The coke barn shall not be used for loading or unloading petroleum coke into or out of transporting trucks.

[RULE 1158, 7-11-2008]

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

S7.3 The following conditions shall apply to all coke handling and related devices from this system:

Truck loading may only be done during periods when section(s) of its coke conveying system is undergoing emergency, breakdown, malfunction, maintenance and/or other repair conditions. Such loading operation shall not be done simultaneously with truck loading operation at Process 2, System 9 or Process 2, System 12.

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

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

S7.4 The following conditions shall apply to all coke handling and related devices from this system:

Truck loading may only be done during periods when coke conveyance and/or loading system of Process 2, System 8 or Process 2, System 12 is undergoing emergency, breakdown, malfunction, maintenance and/or other repair conditions. Such loading operation shall not be done simultaneously with truck loading operation at Process 2, System 8 or Process 2, System 12.

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

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

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

[Systems subject to this condition : Process 2, System 9]

S7.5 The following conditions shall apply to all coke handling and related devices from this system:

Truck loading shall not be done simultaneously with truck loading operation at Process 2, System 8 or Process 2, System 9.

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

[Systems subject to this condition : Process 2, System 12]

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 Final Environmental Impact Report dated 03-sep-1997 for this facility.

This condition shall only apply to equipment listed in Section H of this facility permit.

[CA PRC CEQA, 11-23-1970]

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

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, 7-11-2008]

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

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

[Systems subject to this condition : Process 2, System 8 , 9 , 12]

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

| Contaminant | Rule | Rule/Subpart |
|---|---|---|
| VOC | District Rule | 1123 |

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

[Systems subject to this condition : Process 1, System 1 , 2 , 3 , 5 , 6; Process 2, System 1 , 2 , 3 , 5 , 6 , 11; Process 3, System 1 , 2 , 3; Process 4, System 1 , 2 , 3 , 4 , 5 , 7 , 8 , 9; Process 5, System 1 , 2 , 3 , 4 , 5; Process 6, System 1 , 2 , 3; Process 7, System 1 , 2; Process 8, System 1 , 2; Process 9, System 1 , 2 , 6 , 7 , 8 , 9 , 10; Process 10, System 1 , 2 , 3; Process 11, System 1; Process 12, System 4 , 5 , 7 , 8 , 9 , 10 , 11 , 12 , 13 , 14 , 15]

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 | 1149 |
| VOC | District Rule | 1178 |

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

[Systems subject to this condition : Process 16, System 2 , 3]

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

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

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

| Contaminant | Rule | Rule/Subpart |
|---|---|---|
| VOC | District Rule | 1189 |

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

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

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 | 464 |

[**RULE 464, 12-7-1990**]

[Systems subject to this condition : Process 15, System 10]

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 | 464 |
| VOC | District Rule | 1176 |

[**RULE 1176, 9-13-1996; RULE 464, 12-7-1990**]

[Systems subject to this condition : Process 15, System 1 , 2 , 3 , 4 , 5 , 6 , 7 , 8 , 9]

S13.8 All devices under this system are subject to the applicable requirements of the following rules or regulations:

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

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

| Contaminant | Rule | Rule/Subpart |
|---|---|---|
| VOC | District Rule | 463 |
| VOC | District Rule | 1178 |

[**RULE 1178, 4-7-2006; RULE 463, 5-6-2005**]

[Systems subject to this condition : Process 16, System 1]

S13.10 All devices under this system are subject to the applicable requirements of the following rules or regulations:

| Contaminant | Rule | Rule/Subpart |
|---|---|---|
| SOX | 40CFR60, SUBPART | J |

[**40CFR 60 Subpart J, 6-24-2008**]

[Systems subject to this condition : Process 13, System 1 , 2 , 3 , 4]

S13.11 All devices under this system are subject to the applicable requirements of the following rules or regulations:

| Contaminant | Rule | Rule/Subpart |
|---|---|---|
| VOC | District Rule | 463 |
| VOC | District Rule | 1149 |
| VOC | District Rule | 1178 |

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
# BP WEST COAST PROD.LLC BP CARSON REF.

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

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

[Systems subject to this condition : Process 16, System 4]

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 | 1176 |

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

[Systems subject to this condition : Process 12, System 16 , 17]

S13.13 All devices under this system are subject to the applicable requirements of the following rules or regulations:

| Contaminant | Rule | Rule/Subpart |
|---|---|---|
| HAPs | 40CFR63, SUBPART | EEEE |

[**40CFR 63 Subpart EEEE, 7-28-2006**]

[Systems subject to this condition : Process 14, System 2]

S15.1 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 units.

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

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

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

[Systems subject to this condition : Process 12, System 9 , 10 , 11 , 12 , 13]

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

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

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

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

[Systems subject to this condition : Process 2, System 11; Process 3, System 2; Process 4, System 3; Process 5, System 2 , 3 , 4; Process 6, System 1 , 2; Process 8, System 2; Process 9, System 8]

S15.7 The vent gases from all affected devices of this process/system shall be vented as follows:

All sour gases shall be directed to amine contactor system located within this system and the hydrocraker fractionation system.

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

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

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

S15.30 The vent gases from all affected devices of this process/system shall be vented as follows:

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

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

All tail gas from the sulfur recovery unit(s) shall be vented to the tail gas unit No.1 or No.2 followed by incinerator No.1 or No.2 during normal operation. The sulfur recovery unit(s) may bypass tail gas unit No. 1 or No. 2 and vent directly to incinerator No. 1 or No. 2, only during startup/shutdown or emergency. Sour gas or tail gas shall be vented to the flare only during emergency.

All vent gases from the sulfur degassing tank shall be directed to the tail gas unit No.1 or No.2 , except during startup/shutdown or emergency.

This process/system shall not be operated unless the tail gas unit No.1 or No.2 and the incinerator No.1 or No.2 are in full use and have a valid permit to receive vent gases from this system.

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

[Systems subject to this condition : Process 13, System 1 , 2 , 3 , 4]

S15.31 The vent gases from all affected devices of this process/system shall be vented as follows:

All waste gases generated from this system shall be directed to a thermal oxidizer or fuel gas combustion device which is in full use, has a valid permit to receive vent gases from this system, and complies with all applicable rules and regulations including 40CFR60, Subpart J limits and monitoring requirements.

All waste gas generated from this system shall be considered as fuel gas as defined in 40CFR60, Subpart J. Therefore, the vent gases are, when directed to a thermal oxidizer or fuel gas combustion device, subject to the H2S limits of Subpart J.

[**40CFR 60 Subpart J, 6-24-2008**]

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

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

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

S15.40 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 system located in the Coker Unit (Process 2, System 11).

This process/system shall not be operated unless the above 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 21, System 10 , 11]

S15.41 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.

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 21, System 10 , 11]

S15.51 The vent gases from all affected devices of this process/system shall be vented as follows:

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

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

All vent gases under normal operating conditions shall be directed to a vapor recovery system, except Devices ID D1201, D1652, D1653, D1654 & D1655 shall be directed to the coker blowdown recovery system, and under emergency conditions, these devices shall be vented to the atmosphere.

This process/system shall not be operated unless the vapor recovery system (consisting of three compressors operated 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(b)(2)-Offset, 5-10-1996**]

[Systems subject to this condition : Process 16, 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:

Claus Sulfur Recovery Facility "A" (Process: 13, System: 1)

Claus Sulfur Recovery Facility"B" (Process: 13, System: 2)

Claus Sulfur Recovery Facility "C" (Process: 13, System: 3)

Claus Sulfur Recovery Facility"D" (Process: 13, System: 4)

[**RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(b)(2)-Offset, 5-10-1996; RULE 2011, 5-6-2005**]

[Systems subject to this condition : Process 13, System 5 , 7]

S18.5 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
# BP WEST COAST PROD.LLC BP CARSON REF.

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

Methyldiethanolamine Regeneration System No. 1 (Process: 12, System: 9)

Methyldiethanolamine Regeneration System No. 2 (Process: 12, System: 10)

Methyldiethanolamine Regeneration System No.3 (Process: 12, System: 11)

Methyldiethanolamine Regeneration System No. 4 (Process: 12, System: 12)

Methyldiethanolamine Regeneration System No. 5 (Process: 12, System: 13)

North & South Sour Water Treatment Systems (Process: 12, System: 14 & 15)

Claus Tail Gas Treating Unit No. 2 (Process: 13, System: 5)

Claus Tail Gas Treating Unit No. 1 (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 13, System 1 , 2 , 3 , 4]

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:

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

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

Crude Distillation Units (Process: 1, System: 1, 2 & 3))

Vacuum Distillation Units (Process: 1, System: 5 & 6)

Slop Oil Rerun Unit (Process: 1, System: 7)

Coking Units (Process: 2, System: 1 & 2)

Coker Blowdown Facility (Process: 2, System: 3)

Coker Gas Compression Systems (Process: 2, System: 5 & 6)

Coker Gas Treating Unit (Process: 2, System: 11)

Fluid Catalytic Cracking Unit (Process: 3, System: 1 & 2)

FCCU Gas Compression & Hydrogen Sulfide Removal Unit (Process: 3, System: 3)

FCCU Catalyst Handling Facility (Process: 3, System: 4)

Propylene Tetramer Unit (Process: 3, System: 6)

FCCU Heaters (Process: 3, System: 7)

Superfractionation Unit (Process: 4, System: 1)

Naphtha Splitter Unit (Process: 4, System: 2)

Light Ends Depropanizer Units (Process: 4, System: 3 & 4)

North Area Deisobutanizer Unit (Process: 4, System: 5)

Coker Gasoline Fractionation Unit (Process: 4, System: 7)

Liquid Recovery Unit (Process: 4, System: 8)

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

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

Propane/Propylene Splitter Unit (Process: 4, System: 9)

Jet Fuel Hydrotreating Unit (Process: 5, System: 1)

Mid-Barrel Desulfurizer Unit (Process: 5, System: 2)

Fluid Feed HDS Unit (Process: 5, System: 3)

Light Gasoline Hydrogenation unit (Process: 5, System: 4)

Naphtha HDS Unit (Process: 5, System: 5)

Catalytic Reformer Units (Process: 6, System: 1, 2 & 3)

Hydrogen Plant (Process: 7, System: 1)

Hydrogen Unit No. 2 (Process: 7, System: 2)

Hydrocracking Units (Process: 8, System: 1 & 2)

C4 Alkylation Unit (Process: 9, System: 1)

Catalytic Polymerization Unit (Process: 9, System: 2)

C5 Alky Depentanizer Unit (Process: 9, System: 6)

Naphtha Isomerization Unit (Process: 9, System: 8)

Iso-Octene Unit (Process: 9, System: 9)

Butane Isomerization Unit (Process: 9, System: 10)

Fuel Gas Mix System (Process: 10, System: 1)

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

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

LPG Recovery System (Process: 10, System: 2)

Liquid Petroleum Gas Drying Facility (Process: 10, System: 3)

Gasoline Blending Unit (Process: 11, System: 1)

Petreco Stove Oil-Treaters No. 1, 2 & 4 (Process: 12, System: 1, 2 & 3)

Catalytic Rerun Gasoline Treating Unit (Process: 12, System: 4)

Straight Run Gasoline Treating Unit (Process: 12, System: 5)

Fixed Bed Merox Treating Unit (Process: 12, System: 7)

UOP Merox Treating Unit (Process: 12, System: 8)

MDEA Regeneration Systems No. 1, 2, 3, 4 & 5 (Process: 12, System: 9, 10, 11, 12 & 13)

North & South Sour Water Treatment Systems (Process: 12, System: 14 & 15)

Sour Water Treater (Process: 12, System: 16)

Sour Water Oxidizer No. 3 (Process: 12, System: 17)

Spent Caustic Separation System (Process: 12, System: 20)

Diesel Oil Dehazing Facility (Process: 12, System: 22)

Refinery Gas Treating Units (Process: 12, System: 24 & 25)

Spent Acit Storage Facility (Process: 12, System: 27)

Mixed Light Ends Tank Car Loading/Unloading (Process: 14, System: 2)

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

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

LPG Tank Truck Loading/Unloading Rack (Process: 14, System: 10)

LPG Rail Car Load/Unloading Rack (Process: 14, System: 11)

Oil Water Treating (Benzene Neshaps) System (Process: 15, System: 7)

Waste Oil Recovery Unit (Process: 15, System: 8)

Fixed Roof Tanks (Process: 16, System: 1)

Pressurized Tanks (Process: 16, System: 3)

No. 4 Steam Plant (Process: 18, System: 1)

South Area Flare System (Process: 21, System: 1)

FCCU Flare System (Process: 21, System: 2)

Refinery Vapor Recovery System (Process: 21, System: 4)

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

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

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

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

Crude Distillation Units (Process: 1, System: 1, 2 & 3))

Vacuum Distillation Units (Process: 1, System: 5 & 6)

Slop Oil Rerun Unit (Process: 1, System: 7)

Coking Unit (Process: 2, System: 2)

Coker Blowdown Facility (Process: 2, System: 3)

Coker Gas Compression System (Process: 2, System: 5)

Superfractionation Unit (Process: 4, System: 1)

Naphtha Splitter Unit (Process: 4, System: 2)

Naphtha HDS Unit (Process: 5, System: 5)

C5 Alky Depentanizer Unit (Process: 9, System: 6)

Naphtha Isomerization Unit (Process: 9, System: 8)

MDEA Regeneration Systems No. 1, 2, 3, 4 & 5 (Process: 12, System: 9, 10, 11, 12 & 13)

North & South Sour Water Treatment Systems (Process: 12, System: 14 & 15)

Oil Water Treating (Benzene Neshaps) System (Process: 15, System: 7)

Pressurized Tanks (Process: 16, System: 3)

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

[Systems subject to this condition : Process 2, System 6]

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

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

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:

Delayed Coking Unit No. 1 (Process: 2, System: 1)

Delayed Coking Unit No. 2 (Process: 2, System: 2)

Blowdown Gas Compression System (Process: 2, System: 6)

Superfractionation Unit (Process: 4, System: 1)

Coker Gasoline Fractionation Unit (Process: 4, System: 7)

Naphtha HDS Unit (Process: 5, System: 5)

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

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

Delayed Coker Gas Compression Unit (Process: 2, System: 5)

Coker Gasoline Fractionation Unit (Process: 4, System: 7)

Naphtha HDS Unit (Process: 5, System: 5)

C4 Alkylation Unit (Process: 9, System: 1)

Flare Gas Recovery System (Process: 21, System: 10 & 11))

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

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

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

[Systems subject to this condition : Process 2, System 11]

S31.1 The following BACT requirements shall apply to VOC service fugitive components associated with the devices that are covered by application number(s) 410695 and 400672:

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

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

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

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

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

All 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. A leak greater than 1,000 ppm shall be repaired according to Rule 1173.

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 does not apply to leakless valves.

All 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.

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

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

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

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

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.

For the purpose of this condition, leakless valve shall be defined as any valve equipped with sealed bellow or equivalent as approved in writing by the District prior to installation. Components shall be defined as any valve, flange, fitting, pump, compressor, pressure relief device, diaphragm, hatch, sight-glass, and meter, which are not exempted by Rule 1173.

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

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

[Systems subject to this condition : Process 5, System 4; Process 9, 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) 397243:

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

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

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

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

All 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 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.

For the purpose of this condition, leakless valve shall be defined as any valve equipped with sealed bellow or equivalent as approved in writing by the District prior to installation. Components shall be defined as any valve, flange, fitting, pump, compressor, pressure relief device, diaphragm, hatch, sight-glass, and meter, which are not exempted by Rule 1173.

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

All 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. A leak greater than 1,000 ppm shall be repaired according to Rule 1173.

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

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

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 does 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.

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

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

[Systems subject to this condition : Process 3, System 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) 397244:

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

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

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

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

All 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 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.

For the purpose of this condition, leakless valve shall be defined as any valve equipped with sealed bellow or equivalent as approved in writing by the District prior to installation. Components shall be defined as any valve, flange, fitting, pump, compressor, pressure relief device, diaphragm, hatch, sight-glass, and meter, which are not exempted by Rule 1173.

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

All 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. A leak greater than 1,000 ppm shall be repaired according to Rule 1173.

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

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

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 does 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.

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

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

[Systems subject to this condition : Process 9, System 2]

S31.4 The following BACT requirements shall apply to VOC service fugitive components associated with the devices that are covered by application number(s) 427414, 376189:

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

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

For the purpose of this condition, leakless valve shall be defined as any valve equipped with sealed bellow or equivalent as approved in writing by the District prior to installation. Components shall be defined as any valve, flange, fitting, pump, compressor, pressure relief device, diaphragm, hatch, sight-glass, and meter, which are not exempted by Rule 1173.

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 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 components in VOC service, except valves and flanges shall be inspected quarterly using EPA reference method 21. All 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 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 does not apply to leakless valves.

All 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.

The operator shall provide to the District, no later than 90 days after initial startup, a recalculation of the fugitive emissions based on actual components installed and removed from service. The operator shall also submit a complete, as built, piping and instrumentation diagram(s) and copies of requisition data sheets for all non-leakless

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

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

type valves with a listing of tag numbers and reasons why leakless valves were not used.

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

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

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

All 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. A leak greater than 1,000 ppm shall be repaired according to Rule 1173.

All components are subject to 40CFR60, Subpart GGG

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

[Systems subject to this condition : Process 6, System 3; Process 9, System 9]

S31.5 The following BACT requirements shall apply to VOC service fugitive components associated with the devices that are covered by application number(s) 425810:

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# BP WEST COAST PROD.LLC BP CARSON REF.

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

For the purpose of this condition, leakless valve shall be defined as any valve equipped with sealed bellow or equivalent as approved in writing by the District prior to installation. Components shall be defined as any valve, flange, fitting, pump, compressor, pressure relief device, diaphragm, hatch, sight-glass, and meter, which are not exempted by Rule 1173.

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 in VOC service, except valves and flanges, shall be inspected quarterly using EPA reference method 21. All 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 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 does not apply to leakless valves.

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

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

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

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

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

All 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. A leak greater than 1,000 ppm shall be repaired according to Rule 1173.

All components are subject to 40CFR60, Subpart GGG

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

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

S31.6 The following BACT requirements shall apply to VOC service fugitive components associated with the devices that are covered by application number(s) 434526,434527,434528,436040, 436041 and 454560:

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

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

The operator shall provide to the District, no later than 60 days after initial startup, a recalculation of the fugitive emissions based on actual components installed and removed from service. The valves and flanges shall be categorized by size and service. The operator shall submit a listing of all new non-bellows seal valves which shall be categorized by tag no., size, type, operating temperature, operating pressure, body material, application, and reasons why bellows seal valves were not used

All new valves in VOC service, except those specifically exempted by Rule 1173 and those in heavy liquid service as defined in Rule 1173, shall be bellows seal valves, except as approved by the District, in the following applications: heavy liquid service, control valve, instrument piping/tubing, applications requiring torsional valve stem motion, applications where valve failure could pose safety hazard (e.g., drain valves with valve stems in horizontal position), retrofits/special applications with space limitations, and valves not commercially available

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

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

If 98.0 percent or greater of the new (non-bellows seal) valves and the new flange population inspected is found to leak gaseous or liquid volatile organic compounds at a rate less than 500 ppmv for two consecutive months, then the operator may change to a quarterly inspection program with the approval of the District

The operator shall revert from quarterly to monthly inspection program if less than 98.0 percent of the new (non-bellows seal) valves and the new flange population inspected is found to leak gaseous or liquid volatile organic compounds at a rate less than 500 ppmv

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

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

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

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

The operator shall replace 4 additional existing valves in VOC service with bellow sealed valves to offset the emission increase from the modification to the above referenced applications. The operator shall submit to the District within 90 days of startup, copies of the as-built piping and instrumentation diagram identifying the replacement valves and copies of requisition data sheet for the new bellow sealed valves. The additional valves to be replaced shall include the following valves with Rule 1173 tag numbers: NESHAP 1351, 1352, 1354, and 1355

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

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

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

All components are subject to 40CFR60, Subpart GGG

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

[Systems subject to this condition : Process 2, System 6; Process 12, System 14 , 15; Process 21, System 4]

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

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

S31.9 The following BACT requirements shall apply to VOC service fugitive components associated with the devices that are covered by application number(s) 450816, 450822, 450823, 450824, 450840, 450841, 502189, 502190:

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

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

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

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

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

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

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

For the purpose of this condition, leakless valve shall be defined as any valve equipped with sealed bellow or equivalent as approved in writing by the District prior to installation. Components shall be defined as any valve, flange, fitting, pump, compressor, pressure relief device, diaphragm, hatch, sight-glass, and meter, which are not exempted by Rule 1173

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

The following leaks shall be repaired within 7 calendar days - All light liquid/gas/vapor components leaking at a rate of 500 to 10,000 ppm, heavy liquid components leaking at a rate of 100 to 500 ppm or greater than 3 drops/minute, unless otherwise extended as allowed under Rule 1173. The following leaks shall be repaired within 2 calendar days - any leak between 10,000 to 25,000 ppm, any

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

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

atmospheric PRD leaking at a rate of 200 to 25,000 ppm, unless otherwise extended as allowed under Rule 1173

The following leaks shall be repaired with in 1 calendar day - any leak greater than 25,000 ppm, heavy liquid leak greater than 500 ppm, or light liquid leak greater than 3 drops per minute

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

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

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

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

[Systems subject to this condition : Process 3, System 1 , 2 , 3; Process 5, System 3; Process 8, System 1 , 2; Process 21, System 2]

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

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

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

The operator shall provide to the District, no later than 90 days after initial startup, a recalculation of the fugitive emissions based on actual components installed and removed from service. The valves and flanges shall be categorized by size and service. The operator shall submit a listing of all new non-bellows seal valves which shall be categorized by tag no., size, type, operating temperature, operating pressure, body material, application, and reasons why bellows seal valves were not used

All new valves in VOC service, except those specifically exempted by Rule 1173 and those in heavy liquid service as defined in Rule 1173, shall be belows seal valves, except as approved by the District, in the following applications: heavy liquid service, control valve, instrument piping/tubing, applications requiring torsional valve stem motion, applications where valve failure could pose safety hazard (e.g., drain valves with valve stems in horizotal position), retrofits/special applications with space limitations, and valves not commercially available

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

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

If 98.0 percent or greater of the new (non-bellows seal) valves and the new flange population inspected is found to leak gaseous or liquid volatile organic compounds at a rate less than 500 ppmv for two consecutive months, then the operator may change to a quarterly inspection program with the approval of the District

The operator shall revert from quarterly to monthly inspection program if less than 98.0 percent of the new (non-bellows seal) valves and the new flange population inspected is found to leak gaseous or liquid volatile organic compounds at a rate less than 500 ppmv

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

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

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

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

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

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

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

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

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

[Systems subject to this condition : Process 2, System 11; Process 10, System 1; Process 21, System 1 , 2 , 3 , 5 , 6 , 10 , 11]

S42.1 The operator shall not operate the FCCU unless the operator complies with the emission limits of the following rules::

| Contaminant | Rule | Rule Subpart |
|---|---|---|
| PM10 | District Rule | 1105.1 |
| NH3 | District Rule | 1105.1 |

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

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

If the operator fails to comply with any of the terms and conditions listed below, the operator shall be subject to the compliance deadlines as specified in Rule 1105.1(d)(1).

1. Award contract(s) to construct and install the control technology by May 1, 2006
2. Commence construction phase of the control technology permitted by AQMD for compliance with Rule 1105.1(d)(1) by the latter of November 30, 2006, or within 30 days of receiving the permit. These dates may be extended in writing by the Executive Officer upon a request by BP West Coast Products, LLC if the CEQA document is not finalized by October 31, 2006. Such extension(s) shall not be for a period more than five months after the original deadline listed in this paragraph
3. Start operation of the control technology permitted to insure compliance with Rule 1105.1(d)(1) by August 15, 2008
4. Comply with all Rule 1105.1(d)(1) requirements no later than August 31, 2008

[**RULE 1105.1, 11-7-2003**]

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

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

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

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

For the purpose of this condition, leakless valve shall be defined as any valve equipped with sealed bellow or equivalent as approved in writing by the District prior to installation. Components shall be defined as any valve, flange, fitting, pump, compressor, pressure relief device, diaphragm, hatch, sight-glass, and meter, which are not exempted by Rule 1173.

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

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

All new valves and new major components, as defined in Rule 1173, shall be physically identified in the field with special marking that distinguishes the components from existing. Additionally all new components shall be distinctly identified from existing components through their tag numbers (e.g. numbers ending in the letter "N"), and shall be noted in the records.

All new components in VOC service with a leak greater than 500 ppm but less than 1,000 ppm, as methane, measured above background using EPA Method 21, shall be repaired within 14 days of detection. A leak greater than 1,000 ppm shall be repaired according to Rule 1173.

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

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

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

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

All components are subject to 40CFR60, Subpart GGG.

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

[Systems subject to this condition : Process 1, System 1 , 2 , 3 , 6; Process 2, System 1 , 2; Process 3, System 3; Process 4, System 2 , 8 , 9; Process 5, System 3 , 5; Process 6, System 1; Process 7, System 1 , 2; Process 9, System 1 , 6 , 8 , 9 , 10; Process 12, System 8]

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

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

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

For the purpose of this condition, leakless valve shall be defined as any valve equipped with sealed bellow or equivalent as approved in writing by the District prior to installation. Components shall be defined as any valve, flange, fitting, pump, compressor, pressure relief device, diaphragm, hatch, sight-glass, and meter, which are not exempted by Rule 1173.

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

The operator shall provide to the District, no later than August 29, 2003, a complete, as built, process instrumentation diagram(s) with a listing showing by functional grouping, location, type, accessibility, and application of each new valve in VOC service. The operator shall provide copies of requisition data sheets for all non-leakless type valves with a listing of tag numbers and reasons why leakless valves were not used.

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

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

[Systems subject to this condition : Process 1, System 1 , 2 , 3 , 6; Process 2, System 1 , 2; Process 3, System 3; Process 4, System 2 , 8 , 9; Process 5, System 3 , 5; Process 6, System 1; Process 7, System 1 , 2; Process 9, System 1 , 6 , 8 , 9 , 10; Process 12, System 8; Process 14, System 2 , 10 , 11 , 12; Process 16, System 3]

S46.3 The following conditions shall apply to VOC service fugitive components in this system:

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

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

For the purpose of this condition, leakless valve shall be defined as any valve equipped with sealed bellow or equivalent as approved in writing by the District prior to installation. Components shall be defined as any valve, flange, fitting, pump, compressor, pressure relief device, diaphragm, hatch, sight-glass, and meter, which are not exempted by Rule 1173.

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

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

All new valves and new major components, as defined in Rule 1173, shall be physically identified in the field with special marking that distinguishes the components from existing. Additionally all new components shall be distinctly identified from existing components through their tag numbers (e.g. numbers ending in the letter "N"), and shall be noted in the records.

All new components in VOC service with a leak greater than 500 ppm but less than 1,000 ppm, as methane, measured above background using EPA Method 21, shall be repaired within 14 days of detection. A leak greater than 1,000 ppm shall be repaired according to Rule 1173.

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

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

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

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

[**RULE 1173, 5-13-1994; RULE 1173, 2-6-2009; RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(b)(2)-Offset, 5-10-1996**]

[Systems subject to this condition : Process 14, System 2 , 10 , 11 , 12; Process 16, System 3]

S53.1 The following conditions shall apply to the equipment in this system:

During startup or shutdown of the sulfur recovery unit(s), when tail gas units are bypassed, sour gas shall not be processed by the sulfur recovery unit(s). Sour gas shall be introduced to sulfur recovery unit(s) only when they are lined up to tail gas unit No. 1 or 2.

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

[Systems subject to this condition : Process 13, System 1 , 2 , 3 , 4]

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

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

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

1) Vent gases resulting from an Emergency as defined in Rule 1118 ;

2) Vent gases resulting from Planned Shutdowns, Startups and/or Turnarounds as defined in Rule 1118, provided that the owner/operator follows the applicable options and any associated limitations to reduce flaring that were identified, evaluated and most recently submitted by the owner/operator to the Executive Officer pursuant to Rule 1118, or any other option(s) which reduces flaring for such planned events; and

3) Vent gases due to and resulting from an Essential Operational Need, as defined in Rule 1118.

The evaluation of options to reduce flaring during Planned Shutdowns, Startups and/or Turnarounds shall be updated annually to reflect any revisions, and submitted to the Executive Officer in the first quarter of each year, but no later than March 31st of that year.

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

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

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

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

1. Process 1, System 2: 10, 12, 14
2. Process 1, System 3: 19, 20, 24 to 26, 39
3. Process 1, System 5: 41, 42, 2726
4. Process 1, System 6: 43, 49, 57, 58
5. Process 1, System 7: 59, 60, 61, 62
6. Process 2, System 1: 74, 77, 2388
7. Process 2, System 2: 82, 89, 90, 92, 2389
8. Process 2, System 3: 94, 95
9. Process 2, System 5: 98, 101, 102
10. Process 2, System 6: 111, 112, 113
11. Process 2, System 11: 159, 160
12. Process 3, System 1: 164 to 167, 170, 172 to 181, 184, 1336 to 1349, 2382, 2387
13. Process 3, System 2: 186, 188, 189, 191, 196, 199, 201, 204, 1352 to 1355
14. Process 3, System 4: 241
15. Process 3, System 6: 242, 245 to 247, 249
16. Process 3, System 7: 1363
17. Process 4, System 1: 253 to 256, 258, 262, 265, 266, 277, 278, 283. 287, 1364, 1366, 1367, 1372, 1374 to 1376, 1378 to 1381
18. Process 4, System 2: 291, 1400 to 1403
19. Process 4, System 3: 292, 293, 299
20. Process 4, System 4: 302, 304
21. Process 4, System 5: 308, 310, 311
22. Process 4, System 7: 1975, 1977, 1980
23. Process 5, System 1: 314 to 317, 319, 320, 323 to 332
24. Process 5, System 2: 335 to 338, 340, 343, 348 to 353
25. Process 5, System 3: 356, 360, 1413
26. Process 5, System 4: 401, 406, 407, 412, 414

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

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

27. Process 6, System 1: 426, 427, 429, 431, 434, 435, 437, 440, 444, 445, 455 to 456, 458, 460
28. Process 6, System 2: 462, 469, 474 to 475, 477 to 481, 483, 486
29. Process 6, System 3: 490, 494, 495, 498, 501, 503, 506, 507, 509, 510, 512, 513, 518, 520, 521, 525 to 528
30. Process 7, System 1: 542 to 548, 550, 552 to 558, 560, 562 to 569
31. Process 7, System 2: 2892, 2893
32. Process 8, System 1: 593 to 597
33. Process 8, System 2: 608, 610, 612 to 614, 622, 624
34. Process 9, System 1: 631, 632, 638 to 652, 659 to 663, 666 to 668, 1482, 1483, 1486 to 1488, 1491, 1493 to 1495, 1497 to 1502, 1528, 1533 to 1536, 2019
35. Process 9, System 2: 672 to 681, 685
36. Process 9, System 9: 637, 653, 656, 658, 664
37. Process 10, System 1: 706
38. Process 10, System 2: 709, 711 to 715, 720, 721
39. Process 10, System 3: 725
40. Process 11, System 1: 730, 1620
41. Process 12, System 1: 756, 759
42. Process 12, System 2: 760 to 762, 764
43. Process 12, System 3: 765 to 770
44. Process 12, System 4: 771, 772, 774
45. Process 12, System 8: 785, 790, 2365, 2366
46. Process 12, System 9: 794, 797 to 799
47. Process 12, System 10: 806
48. Process 12, System 12: 815, 818
49. Process 12, System13: 823, 828
50. Process 12, System 16: 830
51. Process 12, System 17: 832
52. Process 12, System 22: 853, 854
53. Process 12, System 24: 860, 861, 863, 864, 865
54. Process 12, System 25: 866, 867, 869, 870, 871, 2003
55. Process 12, System 27: 873 to 875
56. Process 15, System 7: 1644 to 1646, 1648, 1649
57. Process 16, System 3: 1986, 2115 to 2120, 2353, 2394
58. Process 21, System 1: 1304

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

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

59. Process 21, System 2: 1307
60. Process 21, System 4: 1315, 1316, 1319, 1323 to 1325, 1659

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

[Systems subject to this condition : Process 1, System 1 , 2 , 3 , 5 , 6 , 7; Process 2, System 1 , 2 , 3 , 5 , 6 , 11; Process 3, System 1 , 2 , 3 , 4 , 6 , 7; Process 4, System 1 , 2 , 3 , 4 , 5 , 7 , 8 , 9; Process 5, System 1 , 2 , 3 , 4 , 5; Process 6, System 1 , 2 , 3; Process 7, System 1 , 2; Process 8, System 1 , 2; Process 9, System 1 , 2 , 6 , 7 , 8 , 9 , 10; Process 10, System 1 , 2 , 3; Process 11, System 1; Process 12, System 1 , 2 , 3 , 4 , 5 , 7 , 8 , 9 , 10 , 11 , 12 , 13 , 16 , 17 , 20 , 22 , 24 , 25 , 27; Process 14, System 2 , 10 , 11; Process 15, System 7; Process 16, System 3; Process 18, System 1; Process 21, System 2 , 4]

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

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

S58.1 The South Area Flare Gas Recovery System and North Area Flare Gas Recovery System shall only be used to receive and handle vent gases from the following Process(es) and System(s):

No. 1 Crude Unit (Process: 1, System: 1)
Coking Units (Process: 2, System: 1 & 2)
Coker Blowdown Facility (Process: 2, System: 3)
Coker Gas Compression & Absorption Unit (Process: 2, System: 5)
Blowdown Gas Compression System (Process: 2, System: 6)
Coker Gas Treating / H2S Absorption Unit (Process: 2, System: 11)
Fluid Catalytich Cracking Units (Process: 3, System: 1, 2 & 3)
Propylene Tetramer Unit (Process: 3, System: 6)
Superfractionation Unit (Process: 4, System: 1)
Naphtha Splitter Unit (Process: 4, System: 2)
Light Ends Depropanizer Unit (Process: 4, System: 3)
Straight Run Light Ends Depropanizer Unit (Process: 4, System: 4)
North Area Deisobutanizer Unit (Process: 4, System: 5)
Coker Gasoline Fractionation Unit (Process: 4, System: 7)
Liquid Recovery Unit (Process: 4, System: 8)
C3 Splitter Unit (Process: 4, System: 9)
Jet Fuel Hydrotreating Unit (Process: 5, System: 1)
Mid-Barrel Desulfurizer Unit (Process: 5, System: 2)
Fluid Feed HDS Unit (Process: 5, System: 3)
Light Gasoline Hydrogenation Unit (Process: 5, System: 4)
Naphtha HDS Unit (Process: 5, System: 5)
Naphtha HDS Reactor Heater (Process: 5, System: 6)
Catalytic Reformer Units (Process: 6, System: 1, 2 & 3)
Hydrogen Plants (Process: 7, System: 1 & 2)
Hydrocracking Units (Process: 8, System: 1 & 2)

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

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

Alkylation Unit (Process: 9, System: 1)
Catalytic Polymerization Unit (Process: 9, System: 2)
C5 Alkylation Depentanizer Unit (Process: 9, System: 6)
C5 Alkylation Unit (Process: 9, System: 7)
Naphtha Isomerization Unit (Process: 9, System: 8)
Iso-Octene Unit (Process: 9, System: 9)
Butane Isomerization Unit (Process: 9, System: 10)
Fuel Gas Mix System (Process: 10, System: 1)
LPG Recovery System (Process: 10, System: 2)
Liquid Petroleum Gas Drying Facilities (Process: 10, System: 3)
UOP Merox Unit (Process: 12, System: 8)
MDEA Regeneration Units (Process: 12, System: 9, 10, 11, 12 & 13)
North & South Sour Water Treatment Systems (Process: 12, System: 14 & 15)
Sulfur Recovery Units (Process: 13, System: 1, 2, 3 & 4)
Claus Tail Gas Treating Units (Process: 13, System: 5 & 7)
LPG Tank Truck Loading/Unloading Rack (Process: 14, System: 10)
LPG Rail Car Loading/Unloading Rack (Process: 14, System: 11)
Refinery Vapor Recovery System (Process: 21, System: 4)

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

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

[Systems subject to this condition : Process 21, System 10 , 11]

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

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

S58.2 South Area Flare System shall only be used to receive and handle vent gases from the following Process(es) and System(s):

Coking Units (Process: 2, System: 1 & 2)
Coker Blowdown Facility (Process: 2, System: 3)
Coker Gas Compression & Absorption Unit (Process: 2, System: 5)
Blowdown Gas Compression System (Process: 2, System: 6)
Coker Gas Treating/H2S Absorption Unit (Process: 2, System: 11)
Fluid Catalytic Cracking Units (Process: 3, System: 1, 2 & 3)
Propylene Tetramer Unit (Process: 3, System: 6)
Superfractionation Unit (Process: 4, System 1)
Naphtha Splitter Unit (Process: 4, System: 2)
Light Ends Depropanizer Unit (Process: 4, System: 3)
Straight Run Light Ends Depropanizer Unit (Process: 4, System: 4)
North Area Deisobutanizer Unit (Process: 4, System: 5)
Coker Gasoline Fractionation Unit (Process: 4, System: 7)
Liquid Recovery Unit (Process: 4, System: 8)
Light Gasoline Hydrogenation Unit (Process: 5, System: 4)
Catalytic Reformer Units (Process: 6, System: 1, 2, & 3)
Alkylation Unit (Process: 9, System: 1)
Iso-Octene Unit (Process: 9, System: 9)
MDEA Regeneration Units (Process: 12, System: 9, 10, 11, 12, & 13)
North & South Sour Water Treatment Systems (Process: 12, System: 14 & 15)
Sulfur Recovery Units (Process: 13, System: 1, 2, 3, & 4)
Claus Tail Gas Treating Units (Process: 13, System: 5 & 7)
Mixed Light Ends Tank Car Loading/Unloading (Process: 14, System: 2)
Refinery Vapor Recovery System (Process: 21, System: 4)
South Area Flare Gas Recovery System (Process: 21, System: 10)
North Area Flare Gas Recovery System (Process: 21, System: 11)

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

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

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

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

[Systems subject to this condition : Process 21, System 1]

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

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

S58.3 Fluid Catalytic Cracking Unit Flare System shall only be used to receive and handle vent gases from the following Process(es) and System(s):

Coking Units (Process: 2, System: 1 & 2)
Coker Blowdown Facility (Process: 2, System: 3)
Coker Gas Compression & Absorption Unit (Process: 2, Sysem: 5)
Blowdown Gas Compression System (Process: 2, System: 6)
Coker Gas Treating Unit (Process: 2, System: 11)
Fluid Catalytic Cracking Units Compression Unit (Process: 3, System: 1, 2, & 3)
Propylene Tetramer Unit (Process: 3, System: 6)
Naphtha Splitter Unit (Process: 4, System: 2)
Light Ends Depropanizer Unit (Process: 4, System: 3)
Straight Run Light Ends Depropanizer Unit (Process: 4, System: 4)
North Area Deisobutanizer Unit (Process: 4, System: 5)
Coker Gas Fractionation Unit (Process: 4, System: 7)
Liquid Recovery Unit (Process: 4, System: 8)
Jet Fuel Hydrotreating Unit (Process: 5, System: 1)
Mid-Barrel Desulfurizer Unit (Process: 5, System: 2)
Light Gasoline Hydrogenation Unit (Process: 5, System: 4)
Catalytic Reformer Units (Process: 6, System: 1, 2, & 3)
Hydrogen Plant (Process: 7, System: 1)
Hydrocracking Units (Process: 8, System: 1 & 2)
Alkylation Unit (Process: 9, System: 1)
Iso-Octene Unit (Process: 9, System: 9)
Catalytic Polymerization Unit (Process: 9, System: 2)
Fuel Gas Mix System (Process: 10, System: 1)
LPG Recovery & Drying Facilities (Process: 10, System: 2 & 3)
MDEA Regeneration Systems (Process: 12, System: 9, 10, 11, 12, & 13)
North & South Sour Water Treatment Systems (Process: 12, System: 14 & 15)

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

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

Sulfur Recovery Units (Process: 13, System: 1, 2, 3, & 4)
Claus Tail Gas Treating Units (Process: 13, System: 5 & 7)
If FCC Flare is being utilized to backup the No. 5 Flare, No. 1 Crude Unit (Process: 1, System: 1)
If FCC Flare is being utilized to backup No. 5 Flare, Superfractionation Unit (Process: 4, System: 1)
If FCC Flare is being utilized to backup No. 5 Flare, Naphtha HDS Unit (Process: 5, System: 5)
If FCC Flare is being utilized to backup the No. 5 Flare, Naphtha HDS Reactor Heater (Process: 5, System: 6)
If FCC Flare is being utilized to backup the No. 5 Flare, Hydrogen Plant No. 2. Although this process and system must not be in operation, it can route vent gas to the FCC Flare in the event of a fire case failure scenario (Process: 7, System: 2)
If FCC Flare is being utilized to backup the No. 5 Flare, C5 Alkylation Depentanizer Unit (Process: 9, System: 6)
If FCC Flare is being utilized to backup the No. 5 Flare, Naphtha Isomerization Unit (Process: 9, System: 8)
If FCC Flare is being utilized to backup the No. 5 Flare, Butane Isomerization Unit. Although this process and system must not be in operation, it can route vent gas to the FCC Flare in the event of a fire case failure scenario (Process: 9, System: 10)
If FCC Flare is being utilized to backup the No. 5 Flare, LPG tank truck loading/unloading rack (Process: 14, System: 10)
If FCC Flare is being utilized to backup the No. 5 Flare, LPG rail car loading/unloading rack (Process: 14, System: 11)

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

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

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

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

[Systems subject to this condition : Process 21, System 2]

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

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

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

Light Ends Depropanizer (Process: 4, System: 3)
Jet Fuel Hydrotreating Unit (Process: 5, System: 1)
Mid-Barrel Desulfurizer Unit (Process: 5, System: 2)
Light Gasoline Hydrogenation Unit (Process: 5, System: 4)
Catalytic Reformer Units (Process: 6, System: 1, 2, & 3)
Hydrogen Plant (Process: 7, System 1)
Hydrocracking Units (Process: 8, System: 1 & 2)
LPG Recovery System (Process: 10, System: 2)
Liquid Petroleum Gas Drying Facilities (Process: 10, System: 3)
MDEA Regeneration Systems (Process: 12, System: 9 & 10)
If HC Flare is being utilized to backup the FCCU Flare, FCCU, FCCU Gas Plant & FCCU Gas Compression Unit (Process: 3, System: 1, 2 & 3)
If HC Flare is being utilized to backup the FCCU Flare, Propylene Tetramer Unit (Process: 3, System: 6)
If HC Flare is being utilized to backup the FCCU Flare, Liquids Recovery Unit (Process: 4, System: 8)
If HC Flare is being utilized to backup the FCCU Flare, Catalytic Polymerization Unit (Process: 9, System: 2)
If HC Flare is being utilized to backup the FCCU Flare, Fuel Gas Mix System (Process: 10, System: 1)
If HC Flare is being utilized to backup the FCCU Flare, North Sour Water Treatment Unit (Process: 12, System: 14)

The flare gas recovery system shall be operated in full use when any of the above Process(es) and System(s) is in operation. Full use means one of two compressor trains

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

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

(Process 21, System 10 and Process 21, System 11) is online at any given time, except during planned startups or shutdowns when both compressors trains shall be online.

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

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

S58.5 Fluidized Feed HDS Flare System shall only be used to receive and handle vent gases from the following Process(es) and System(s):

Fluid Feed HDS Unit (Process: 5, System: 3)

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

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

[Systems subject to this condition : Process 21, System 5]

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

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

S58.6 Refinery Flare No. 5 System shall only be used to receive and handle vent gases from the following Process(es) and System(s):

No. 1 Crude Unit (Process: 1, System 1)
Superfractionation Unit (Process: 4, System: 1)
Coker Gasoline Fractionation Unit (Process: 4, System: 7)
C3 Splitter Unit (Process: 4, System: 9)
Naphtha HDS Unit (Process: 5, System: 5)
Naphtha HDS Reactor Heater (Process: 5, System: 6)
Hydrogen Plant No. 2 (Process: 7, System: 2)
C5 Alkylation Depentanizer Unit (Process: 9, System: 6)
C5 Alkylation Unit (Process: 9, System: 7)
Naphtha Isomerization Unit (Process: 9, System: 8)
Butane Isomerization Unit (Process: 9, System: 10)
UOP Merox Unit (Process: 12, System: 8)
LPG Tank Truck Loading/Unloading Rack (Process: 14, System: 10)
LPG Rail Car Loading/Unloading Rack (Process: 14, System: 11)
North Area Flare Gas Recovery System (Process: 21, System: 11)
INEOS POLYPROPYLENE LLC ID 124808 (Process: 1, System: 1, 2, 3, 5, 6, & 9)

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

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

[Systems subject to this condition : Process 21, System 6]

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

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

### DEVICE CONDITIONS

### A. Emission Limits

A63.12 The operator shall limit emissions from this equipment as follows:

| CONTAMINANT | EMISSIONS LIMIT |
|---|---|
| ROG | Less than or equal to 108 LBS PER DAY |
| CO | Less than or equal to 82 LBS PER DAY |
| PM | Less than or equal to 186 LBS PER DAY |

The operator shall calculate the emissions, as the total emissions from the waste heat boiler exhaust of a cogeneration unit during the 24 hours of operation following firing.

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

[Devices subject to this condition : D1226, D1233, D1236, D1239]

A63.14 The operator shall limit emissions from this equipment as follows:

| CONTAMINANT | EMISSIONS LIMIT |
|---|---|
| PM | Less than or equal to 61 LBS PER DAY |
| ROG | Less than or equal to 20 LBS PER DAY |
| CO | Less than or equal to 243 LBS PER DAY |

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

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

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

[Devices subject to this condition : D629]

A63.16 The operator shall limit emissions from this equipment as follows:

| CONTAMINANT | EMISSIONS LIMIT |
|---|---|
| PM | Less than or equal to 46 LBS PER DAY |
| ROG | Less than or equal to 15 LBS PER DAY |
| CO | Less than or equal to 183 LBS PER DAY |

[**RULE 1301, 12-7-1995**]

[Devices subject to this condition : D155]

A63.19 The operator shall limit emissions from this equipment as follows:

| CONTAMINANT | EMISSIONS LIMIT |
|---|---|
| PM | Less than or equal to 6 LBS PER DAY |
| ROG | Less than or equal to 1.92 LBS PER DAY |
| CO | Less than or equal to 11 LBS PER DAY |

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

[Devices subject to this condition : D1433]

A63.20 The operator shall limit emissions from this equipment as follows:

| CONTAMINANT | EMISSIONS LIMIT |
|---|---|

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

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

| | |
|---|---|
| ROG | Less than or equal to 15 LBS PER DAY |
| CO | Less than or equal to 179 LBS PER DAY |
| PM | Less than or equal to 46 LBS PER DAY |

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

[Devices subject to this condition : D31]

A63.21 The operator shall limit emissions from this equipment as follows:

| CONTAMINANT | EMISSIONS LIMIT |
|---|---|
| ROG | Less than or equal to 0.6 LBS PER DAY |
| CO | Less than or equal to 0.4 LBS PER DAY |
| PM | Less than or equal to 1.7 LBS PER DAY |

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

[Devices subject to this condition : D252]

A63.23 The operator shall limit emissions from this equipment as follows:

| CONTAMINANT | EMISSIONS LIMIT |
|---|---|
| PM | Less than or equal to 3.5 LBS PER DAY |
| ROG | Less than or equal to 1.2 LBS PER DAY |
| CO | Less than or equal to 0.7 LBS PER DAY |

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

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

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

[Devices subject to this condition : D417]

A63.25 The operator shall limit emissions from this equipment as follows:

| CONTAMINANT | EMISSIONS LIMIT |
|---|---|
| Visible emissions | Less than or equal to 10 Percent opacity |

[RULE 1158, 7-11-2008]

[Devices subject to this condition : D121, D122, D124, D127, D128, D129, D130, D131, D132, D133, D134, D135, D136, D137, D138, D139, D140, D141, D142, D143, D144, D145, D146, D147, D148, D149, D150]

A63.26 The operator shall limit emissions from this equipment as follows:

| CONTAMINANT | EMISSIONS LIMIT |
|---|---|
| PM | Less than or equal to 2.8 LBS PER DAY |
| ROG | Less than or equal to 0.9 LBS PER DAY |
| CO | Less than or equal to 0.5 LBS PER DAY |

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

[Devices subject to this condition : D417]

A63.27 The operator shall limit emissions from this equipment as follows:

| CONTAMINANT | EMISSIONS LIMIT |
|---|---|

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

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

| | |
|---|---|
| ROG | Less than or equal to 6 LBS PER DAY |
| CO | Less than or equal to 3.6 LBS PER DAY |
| PM | Less than or equal to 18.5 LBS PER DAY |

[**RULE 1301, 12-7-1995**]

[Devices subject to this condition : D539]

A63.28 The operator shall limit emissions from this equipment as follows:

| CONTAMINANT | EMISSIONS LIMIT |
|---|---|
| ROG | Less than or equal to 4.6 LBS PER DAY |
| CO | Less than or equal to 2.7 LBS PER DAY |
| PM | Less than or equal to 14 LBS PER DAY |

[**RULE 1301, 12-7-1995**]

[Devices subject to this condition : D538, D541, D625, D627, D628]

A63.29 The operator shall limit emissions from this equipment as follows:

| CONTAMINANT | EMISSIONS LIMIT |
|---|---|
| ROG | Less than or equal to 65 LBS PER DAY |
| CO | Less than or equal to 38 LBS PER DAY |
| PM | Less than or equal to 195 LBS PER DAY |

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

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

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

[Devices subject to this condition : D27]

A63.30 The operator shall limit emissions from this equipment as follows:

| CONTAMINANT | EMISSIONS LIMIT |
|---|---|
| ROG | Less than or equal to 36 LBS PER DAY |
| CO | Less than or equal to 21 LBS PER DAY |
| PM | Less than or equal to 106 LBS PER DAY |

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

[Devices subject to this condition : D63]

A63.32 The operator shall limit emissions from this equipment as follows:

| CONTAMINANT | EMISSIONS LIMIT | Header 3 | Header 4 |
|---|---|---|---|
| ROG | Less than or equal to | 14 | LBS PER DAY |
| CO | Less than or equal to | 8.5 | LBS PER DAY |
| PM10 | Less than or equal to | 42.5 | LBS PER DAY |

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

[Devices subject to this condition : D67]

A63.33 The operator shall limit emissions from this equipment as follows:

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

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

| CONTAMINANT | EMISSIONS LIMIT |
|---|---|
| ROG | Less than or equal to 68.4 LBS PER DAY |
| CO | Less than or equal to 205.4 LBS PER DAY |
| PM10 | Less than or equal to 205 LBS PER DAY |

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

[Devices subject to this condition : D1465]

A72.1 The operator shall maintain this equipment to achieve a minimum destruction efficiency of 98 percent for H2S during the normal operation of the equipment it vents.

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

[Devices subject to this condition : C2413]

A99.1 The 8 PPM NOX emission limit(s) shall not apply when this equipment is operating during startup and shutdown modes.

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

[Devices subject to this condition : D1226, D1233, D1236, D1239]

A99.2 The 2.5 PPM CO emission limit(s) shall not apply when the associated gas turbine is operating at less than 85 percent of the rated capacity. This condition refers to CO emission limit.

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

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

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

[Devices subject to this condition : D1226, D1233, D1236, D1239]

A99.3 The 2.5 PPM CO emission limit(s) shall not apply when the equipment is operating at startup and shutdown modes.

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

[Devices subject to this condition : D1226, D1233, D1236, D1239]

A99.4 The 20 ppm NH3 emission limit(s) shall not apply when this equipment is operating at startup and shutdown modes.

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

[Devices subject to this condition : C1242, C1248, C1252, C1256]

A99.6 The 21.1 Lbs/hr SOX emission limit(s) shall not apply when burning only natural gas.

[**RULE 2011, 5-6-2005**]

[Devices subject to this condition : C2413]

A103.1 The operator shall keep materials in petroleum coke handling and storage systems sufficiently moist to prevent fugitive dust emissions.

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

[Devices subject to this condition : D121, D122, D148]

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

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

A195.1 The 20 PPMV NOX emission limit(s) is averaged over 365 day rolling average at 0 percent O2, dry basis.

For the purposes of this condition, this limit is a long term limit which applies at all times.

[ **CONSENT DECREE CIVIL NO. 2:96 CV 095 RL (Fourth Amendment), 10-7-2005**]

[Devices subject to this condition : D164]

A195.2 The 60 PPMV NOX emission limit(s) is averaged over 7 day rolling average at 0 percent O2, dry basis.

For the purposes of this condition, this limit is a short term limit which applies at all times except during startup, shutdown, or malfunction of the FCCU or the FFHDS.

[ **CONSENT DECREE CIVIL NO. 2:96 CV 095 RL (Fourth Amendment), 10-7-2005**]

[Devices subject to this condition : D164]

A195.3 The 50 PPMV SOX emission limit(s) is averaged over 365 day rolling average at 0 percent O2, dry basis.

For the purposes of this condition, this limit is a long term limit which applies at all times.

[ **CONSENT DECREE CIVIL NO. 2:96 CV 095 RL (Fourth Amendment), 10-7-2005**]

[Devices subject to this condition : D164]

A195.4 The 150 PPMV SOX emission limit(s) is averaged over 7 day rolling average at 0 percent O2, dry basis.

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

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

For the purposes of this condition, this limit is a short term limit which applies at all times except during startup, shutdown, or malfunction of the FCCU or the FFHDS.

[ **CONSENT DECREE CIVIL NO. 2:96 CV 095 RL (Fourth Amendment), 10-7-2005**]

[Devices subject to this condition : D164]

A195.6 The 500 PPMV CO emission limit(s) is averaged over one (1) hour, dry basis.

For the purposes of this condition, this limit is a short term limit which applies at all times except during startup, shutdown, or malfunction of the FCCU.

This condition shall become effective on December 31, 2004.

[ **CONSENT DECREE CIVIL NO. 2:96 CV 095 RL, 8-29-2001**]

[Devices subject to this condition : D164]

A248.1 The 8 PPM NOX emission limit is dry, corrected to 15 percent oxygen.

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

[Devices subject to this condition : D1226, D1233, D1236, D1239]

A248.2 The 2 PPM SOX emission limit is dry, corrected to 15 percent oxygen.

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

[Devices subject to this condition : D1226, D1233, D1236, D1239]

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

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

A248.3 The 2.5 PPM CO emission limit is dry, corrected to 15 percent oxygen.

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

[Devices subject to this condition : D1226, D1233, D1236, D1239]

A248.4 The 4.5 PPM CO emission limit is dry, corrected to 15 percent oxygen.

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

[Devices subject to this condition : D1226, D1233, D1236, D1239]

A327.1 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 : D1226, D1233, D1236, D1239]

A327.2 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 : D1227, D1234, D1237, D1240]

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

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

### B. Material/Fuel Type Limits

B22.2 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, 12-7-1995**]

[Devices subject to this condition : D1115]

B22.3 The operator shall not use this equipment with materials having a(n) true vapor pressure of 0.1 psia or greater under actual operating conditions.

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

[Devices subject to this condition : D1105, D1122, D1128]

B22.4 The operator shall not use this equipment with materials having a(n) true vapor pressure of 0.5 psia or greater under actual operating conditions.

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

[Devices subject to this condition : D1085, D1104, D1117]

B22.5 The operator shall not use this equipment with materials having a(n) true vapor pressure of 0.001 psia or greater under actual operating conditions.

[**RULE 1301, 12-7-1995**]

[Devices subject to this condition : D1119, D1130]

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

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

B22.6 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 1303(b)(2)-Offset, 5-10-1996**]

[Devices subject to this condition : D80, D1072, D1103, D1111, D1120, D1147, D1148]

B22.7 The operator shall not use this equipment with materials having a(n) true vapor pressure of 8 psia or greater under actual operating conditions.

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

[Devices subject to this condition : D1162, D1163]

B22.9 The operator shall not use this equipment with materials having a(n) true vapor pressure of 0.1 psia or greater under actual operating conditions.

Whenever there is a change in the product types, the operator shall determine the flash point of the organic material stored using ASTM Method D-93. Those materials having a flash point less than 100 degrees F as determined by this test will be considered as having a true vapor pressure of greater than 5 mm Hg (0.1 psi) absolute under actual storage conditions. The test must be conducted within five days of changing product types.

The operator shall keep records of the date when there is a change in material stored, along with the test results at the facility for a period of five years. These records shall be made available to the Executive Officer upon request.

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

[Devices subject to this condition : D1070, D1071, D1090, D1140, D1159, D1160]

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

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

B22.10 The operator shall not use this equipment with materials having a(n) true vapor pressure of 0.35 psia or greater under actual operating conditions.

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

[Devices subject to this condition : D2612]

B22.11 The operator shall only use this equipment with materials having a(n) true vapor pressure of 0.38 psia or less under actual operating conditions.

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

[Devices subject to this condition : D2789]

B22.12 The operator shall not use this equipment with materials having a(n) true vapor pressure of 0.06 psia or greater under actual operating conditions.

To demonstrate compliance with this limitation, the operator shall maintain on file a copy of the Material Safety Data Sheet (MSDS) of the material stored. Records of the materials stored and their MSDS shall be retained for a period of five years and made available to the Executive Officer upon request.

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

[Devices subject to this condition : D2790, D2791, D2792]

B22.13 The operator shall not use this equipment with materials having a(n) true vapor pressure of 0.1 psia or greater under actual operating conditions.

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

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

Whenever there is a change in the product type, the operator shall either maintain on file a copy of the Material Safety Data Sheet (MSDS) for the new material or determine the flash point of the organic material stored using ASTM Method D-93. The test must be conducted within five days of changing product type.

Those materials having a flash point less than 100 degrees F as determined by this test will be considered as having a true vapor pressure of greater than 5 mm Hg (0.1 psi) absolute under actual storage conditons.

The operator shall keep records of the date when there is a change in materials stored, MSDS of materials stored and any test results at the facility for a period of five years. These records shall be made available to the Executive Officer upon request.

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

[Devices subject to this condition : D2793]

B22.14 The operator shall not use this equipment with materials having a(n) true vapor pressure of 0.01 psia or greater under actual operating conditions.

To demonstrate compliance with this limitation, the operator shall maintain on file a copy of the Material Safety Data Sheet (MSDS) of the material stored. Records of the material stored and their MSDS shall be retained for a period of five years and made available to the Executive Officer upon request.

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

[Devices subject to this condition : D2794]

B22.15 The operator shall not use this equipment with materials having a(n) true vapor pressure of 0.1 psia or greater under actual operating conditions.

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

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

To demonstrate compliance with the true vapor pressure limit requirement, the operator shall maintain on file a copy of the Material Safety Data Sheet (MSDS) of the material stored.

If the MSDS does not show the true vapor pressure, the operator shall determine the flash point of the organic material stored using ASTM Method D-93 whenever there is a change in the product type. Those materials having a flash point less than 100 degrees F as determined by this test will be considered as having a true vapor pressure of greater than 5 mm Hg (0.1 psi) absolute under actual storage conditions. The test must be conducted within ten days of changing product types.

The operator shall keep records of the date when there is a change in material stored, along with the MSDS or test results at the facility for a period of five years. These records shall be made available to the Executive Officer upon request.

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

[Devices subject to this condition : D1107, D1108, D1109, D1110]

B22.16 The operator shall not use this equipment with materials having a(n) true vapor pressure of 0.04 psia or greater under actual operating conditions.

To demonstrate compliance with this limitation, the operator shall maintain on file a copy of the Material Safety Data Sheet (MSDS) of the material stored. Records of materials stored and their MSDS shall be retained for a period of five years and made available to the Executive Officer upon request.

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

[Devices subject to this condition : D2840]

B22.17 The operator shall not use this equipment with materials having a(n) true vapor pressure of 3 psia or greater under actual operating conditions.

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

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

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

[Devices subject to this condition : D1069, D1084]

B22.18 The operator shall not use this equipment with materials having a(n) total vapor pressure of 9 psia or greater under actual operating conditions.

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

[Devices subject to this condition : D2850]

B22.19 The operator shall not use this equipment with materials having a(n) true vapor pressure of 3 psia or greater under actual operating conditions.

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

[Devices subject to this condition : D1164, D1193]

B22.20 The operator shall not use this equipment with materials having a(n) true vapor pressure of 1.4 psia or greater under actual operating conditions.

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

[Devices subject to this condition : D1143]

B22.21 The operator shall only use this equipment with materials having a(n) true vapor pressure of 0.1 psia or less under actual operating conditions.

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

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

To demonstrate compliance with the true vapor pressure limit requirement, the operator shall maintain on file a copy of the Material Safety Data Sheet (MSDS) of the material stored.

If the MSDS does not show the true vapor pressure, the operator shall determine the flash point of the organic material stored using ASTM Method D-93 whenever there is a change in the product type. Those materials having a flash point less than 100 degrees F as determined by this test will be considered as having a true vapor pressure of greater than 5 mm Hg (0.1 psi) absolute under actual storage conditions. The test must be conducted within ten days of changing product types.

The operator shall keep records of the date when there is a change in material stored, along with the MSDS or test results at the facility for a period of five years. These records shall be made available to the Executive Officer upon request.

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

[Devices subject to this condition : D1091]

B59.2 The operator shall only use the following material(s) in this device :

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

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

[Devices subject to this condition : D2749, D2750, D2751]

B61.1 The operator shall only use refinery gas containing the following specified compounds:

| Compound | ppm by volume |
|---|---|
| Total Sulfur less than | 100 |

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

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

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

[Devices subject to this condition : D1226, D1227, D1233, D1234, D1236, D1237, D1239, D1240]

B61.2 The operator shall only use butane containing the following specified compounds:

| Compound | ppm by volume |
|---|---|
| Total Sulfur less than | 50 |

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

[Devices subject to this condition : D1226, D1227, D1233, D1234, D1236, D1237, D1239, D1240]

B61.3 The operator shall only use natural gas containing the following specified compounds:

| Compound | ppm by volume |
|---|---|
| Total Sulfur less than | 5 |

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

[Devices subject to this condition : D1226, D1227, D1233, D1234, D1236, D1237, D1239, D1240]

B61.4 The operator shall not use fuel gas, except uncombined natural gas which is not regulated by the condition, containing the following specified compounds:

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

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

| Compound | ppm by volume |
|---|---|
| H2S greater than | 160 |

[**40CFR 60 Subpart J, 6-24-2008**]

[Devices subject to this condition : D27, D29, D31, D33, D67, D69, D151, D153, D155, D250, D252, D416, D417, D418, D419, D421, D423, D425, D532, D535, D538, D539, D541, D570, D625, D626, D627, D628, D629, C910, D1226, D1227, D1233, D1234, D1236, D1237, D1239, D1240, C1326, D1439, D1465, C2413, D2837]

B61.5 The operator shall only use diesel fuel containing the following specified compounds:

| Compound | weight percent |
|---|---|
| Sulfur less than | 0.05 |

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

[Devices subject to this condition : D2417, D2418]

B61.6 The operator shall only use diesel fuel containing the following specified compounds:

| Compound | ppm by weight |
|---|---|
| Sulfur less than | 15 |

[RULE 1470, 6-1-2007; **RULE 431.2, 5-4-1990;** RULE 431.2, 9-15-2000]

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

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

[Devices subject to this condition : D1997, D1998, D2416, D2776, D2859]

B89.1 The operator shall not use water with VOC content greater than 0.005 grams per liter, including water and exempt compounds.

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

[Devices subject to this condition : D999]

### C. Throughput or Operating Parameter Limits

C1.3 The operator shall limit the number of turnovers to no more than 12 in any one year.

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

[Devices subject to this condition : D1098]

C1.4 The operator shall limit the number of turnovers to no more than 108 in any one year.

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

[Devices subject to this condition : D1144]

C1.5 The operator shall limit the throughput to no more than 3e+06 barrel(s) in any one year.

[**RULE 1301, 12-7-1995**]

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

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

[Devices subject to this condition : D1104]

C1.6 The operator shall limit the throughput to no more than 2e+07 barrel(s) in any one year.

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

[Devices subject to this condition : D1117]

C1.7 The operator shall limit the number of turnovers to no more than 3 in any one year.

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

[Devices subject to this condition : D1136]

C1.8 The operator shall limit the number of turnovers to no more than 140 in any one year.

[**RULE 1301, 12-7-1995**]

[Devices subject to this condition : D1141]

C1.9 The operator shall limit the number of turnovers to no more than 85 in any one year.

[**RULE 1301, 12-7-1995**]

[Devices subject to this condition : D1142]

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

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

C1.10 The operator shall limit the throughput to no more than 6.08e+05 barrel(s) in any one month.

The operator shall calculate the throughput, in barrels, by the following equation: 0.14 x D x D x H, where D is the diameter of the tank in feet based on the tank strapping chart and H 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 every 15 minutes. The operator shall calculate the total one-way roof movement, in feet, on a 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 15 days. While the ATLG is being repaired, the throughput shall be determined by 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 15 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 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 : D1150]

C1.15 The operator shall limit the number of turnovers to no more than 7 in any one year.

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

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

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

[Devices subject to this condition : D1184]

C1.16 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**]

[Devices subject to this condition : D2417, D2418]

C1.17 The operator shall limit the number of turnovers to no more than 89 in any one year.

[**RULE 1301, 12-7-1995**]

[Devices subject to this condition : D1180]

C1.18 The operator shall limit the heat input to no more than 89 MM Btu per hour.

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

[Devices subject to this condition : D250]

C1.19 The operator shall limit the heat input to no more than 255 MM Btu per hour.

[**RULE 1301, 12-7-1995**]

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

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

[Devices subject to this condition : D532]

C1.20 The operator shall limit the heat input to no more than 310 MM Btu per hour.

[**RULE 1301, 12-7-1995**]

[Devices subject to this condition : D535]

C1.21 The operator shall limit the heat input to no more than 82 MM Btu per hour.

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

[Devices subject to this condition : D421]

C1.22 The operator shall limit the heat input to no more than 52 MM Btu per hour.

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

[Devices subject to this condition : D419]

C1.23 The operator shall limit the heat input to no more than 130 MM Btu per hour.

[**RULE 1301, 12-7-1995**]

[Devices subject to this condition : D151, D153, D155]

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

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

C1.24 The operator shall limit the firing rate to no more than 427 MM Btu per hour.

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

[Devices subject to this condition : D1465]

C1.26 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 : D1162, D1163]

C1.28 The operator shall limit the number of turnovers to no more than 5 in any one year.

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

[Devices subject to this condition : D1115]

C1.29 The operator shall limit the number of turnovers to no more than 250 in any one year.

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

[Devices subject to this condition : D1134]

C1.30 The operator shall limit the number of turnovers to no more than 70 in any one year.

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

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

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

[Devices subject to this condition : D1135]

C1.31 The operator shall limit the throughput to no more than 1.825e+07 barrel(s) in any one year.

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

[Devices subject to this condition : D1147, D1148]

C1.33 The operator shall limit the duration of shutdown to no more than 4 hour(s).

For the purpose of this condition, "duration of shutdown" shall be defined as the duration prior to extinguishing the flame in the gas turbine.

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

[Devices subject to this condition : D1226, D1233, D1236, D1239]

C1.34 The operator shall limit the duration of startup to no more than 8 hour(s).

For the purpose of this condition, "duration of startup" shall be defined as the duration beginning immediately following initial firing of the gas turbine.

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

[Devices subject to this condition : D1226, D1233, D1236, D1239]

C1.35 The operator shall limit the throughput to no more than 8517 barrel(s) in any one calendar month.

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

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

The operator shall operate and maintain an automatic tank level gauge (ATLG) and a recorder to continuously measure and record the liquid surface level movement. The throughput, in barrels, shall be calculated using the following equation: 0.14 x D x D x 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 liquid surface level travel in feet per month. For the purpose of this condition, continuous recording is defined as once per hour..

Alternately, for tanks which do not have an ATLG device, the operator may use engineering calculations with parameters obtained from process records, shipping invoices, manual tank level gauging, etc to calculate throughput of the tank..

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 : D1143]

C1.36 The operator shall limit the throughput to no more than 3.5e+06 barrel(s) in any one year.

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

[Devices subject to this condition : D1127]

C1.37 The operator shall limit the gasoline dispensed to no more than 7500 gallon(s) per month.

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

[Devices subject to this condition : D1276]

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

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

C1.38 The operator shall limit the gasoline dispensed to no more than 90000 gallon(s) per year.

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

[Devices subject to this condition : D1276]

C1.39 The operator shall limit the number of turnovers to no more than 120 in any one year.

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

[Devices subject to this condition : D2153]

C1.40 The operator shall limit the operating time to no more than 139 hour(s) in any one calendar 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**]

[Devices subject to this condition : D2149]

C1.41 The operator shall limit the throughput to no more than 2083 gallon(s) per month.

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

[Devices subject to this condition : D2612]

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

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

C1.42 The operator shall limit the throughput to no more than 3,000,000 barrel(s) in any one calendar month.

The operator shall utilize an automatic tank level gauging device to determine throughput. That automatic level gauge (tank liquid level) will be hourly electronically recorded during the time that product movement occurs, and at the start and the end of each product movement. The liquid volume shall be calculated using the tank liquid level records and the tank strapping tables. The throughput in barrels shall be calculated using the sum of total one-way (increasing) volume movements on a monthly basis.

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

[Devices subject to this condition : D1105]

C1.43 The operator shall limit the throughput to no more than 416,700 barrel(s) in any one calendar month.

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

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

The operator shall calculate the throughput, in barrels, by the following equation: 0.14 x D x D x 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 every 15 minutes.

The operator shall calculate the total one-way roof movement, in feet, on a 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 15 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 15 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 the ATLG went out of service.

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 : D1161]

C1.44 The operator shall limit the throughput to no more than 825,000 barrel(s) in any one calendar month.

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

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

The operator shall calculate the throughput, in barrels, by the following equation: 0.14 x D x D x 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 every 15 minutes.

The operator shall calculate the total one-way roof movement, in feet, on a 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 15 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 15 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 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 : D1171]

C1.45 The operator shall limit the throughput to no more than 2000000 barrel(s) in any one calendar month.

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

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

The operator shall calculate the throughput, in barrels, by the following equation: 0.14 x D x D x 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 every 15 minutes.

The operator shall calculate the total one-way roof movement, in feet, on a 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 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 : D1178]

C1.46 The operator shall limit the heat input to no more than 11 MM Btu per hour.

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

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

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

[Devices subject to this condition : D418]

C1.47 The operator shall limit the heat input to no more than 22 MM Btu per hour.

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

[Devices subject to this condition : D425]

C1.48 The operator shall limit the heat input to no more than 39 MM Btu per hour.

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

[Devices subject to this condition : D626]

C1.49 The operator shall limit the throughput to no more than 3189 barrel(s) in any one calendar month.

The operator shall calculate the throughput in barrels, by the following equation: 0.14 x D x D x L. Where D is the diameter of the tank in feet based on the strapping chart and L is the total tank level change in feet per month.

Tank level gauge readings shall be recorded at the beginning and conclusion of each tank filling event.

The operator shall calculate the total tank level change, in feet, on a monthly basis.

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

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

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

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

[Devices subject to this condition : D80]

C1.50 The operator shall limit the throughput to no more than 500000 barrel(s) in any one calendar month.

The operator shall calculate the throughput, in barrels, by the following equation: 0.14 x D x D x 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 every 15 minutes.

The operator shall calculate the total one-way roof movement, in feet, on a 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 hourly tank level data averaged from the previous 30 days prior to the time that the ATLG went out of service.

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

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

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

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

[Devices subject to this condition : D1000, D1001]

C1.51 The operator shall limit the throughput to no more than 1,000,000 barrel(s) in any one calendar month.

The operator shall calculate the throughput, in barrels, by the following equation: 0.14 x D x D x 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 every 15 minutes.

The operator shall calculate the total one-way roof movement, in feet, on a 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 maintain records in a manner approved by the District, to demonstrate compliance with this condition.

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

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

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

[Devices subject to this condition : D1199]

C1.52 The operator shall limit the throughput to no more than 1,500,000 barrel(s) in any one calendar month.

The operator shall calculate the throughput, in barrels, by the following equation; 0.14 x D x D x 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 every 15 minutes.

The operator shall calculate the total one-way roof movement, in feet, on a 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 througput 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 maintain records in a manner approved by the District, to demonstrate compliance with this condition.

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

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

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

[Devices subject to this condition : D1167]

C1.53 The operator shall limit the throughput to no more than 3,000,000 barrel(s) in any one calendar month.

The operator shall calculate the throughput, in barrels, by the following equation: 0.14 x D x D x 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, continuously recording is defined as once every 15 minutes.

The operator shall calculate the total one-way roof movement, in feet, on a 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 througput 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 maintain records in a manner approved by the District, to demonstrate compliance with this condition.

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

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

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

[Devices subject to this condition : D1173]

C1.54 The operator shall limit the throughput to no more than 30 barrel(s) in any one calendar month.

The operator shall calculate the throughput in barrels, by the following equation: 0.14 x D x D x L. Where D is the diameter of the tank in feet based on the strapping chart and L is the total tank level change in feet per month.

Tank level gauge readings shall be recorded at the beginning and conclusion of each tank filling event.

The operator shall calculate the total tank level change, in feet, on a monthly basis.

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 : D2789]

C1.55 The operator shall limit the throughput to no more than 3,667 barrel(s) in any one calendar month.

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

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

The operator shall calculate the throughput, in barrels, by the following equation: 0.14 x D x D x 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 tank level movement 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 tank level. For the purpose of this condition, continuous recording is defined as once every 15 minutes.

The operator shall calculate the total one-way tank level movement, in feet, on a monthly basis.

The ATLG 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 throughtput 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 the ATLG went out of service.

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

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

[Devices subject to this condition : D2790, D2791, D2792]

C1.56 The operator shall limit the throughput to no more than 3,650 barrel(s) in any one calendar month.

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

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

The operator shall calculate the throughput in barrels, by the following equation: 0.14 x D x D x L. Where D is the diameter of the tank in feet based on the strapping chart and L is the total tank level change in feet per month.

Tank level gauge readings shall be recorded at the beginning and conclusion of each tank filling event.

The operator shall calculate the total tank level change, in feet, on a monthly basis.

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 : D2793]

C1.57 The operator shall limit the throughput to no more than 18,333 barrel(s) in any one calendar month.

The operator shall calculate the throughput in barrels, by the following equation: 0.14 x D x D x L. Where D is the diameter of the tank in feet based on the strapping chart and L is the total tank level change in feet per month.

Tank level gauge readings shall be recorded at the beginning and conclusion of each tank filling event.

The operator shall calculate the total tank level change, in feet, on a monthly basis.

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**]

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

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

[Devices subject to this condition : D2794]

C1.58 The operator shall limit the heat input to no more than 24 MM Btu per hour.

[**RULE 1301, 12-7-1995**]

[Devices subject to this condition : D416]

C1.59 The operator shall limit the throughput to no more than 9,800 barrel(s) in any one calendar month.

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

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

Automatic tank level gauge (ATLG) shall be used to continuously measure the liquid surface level movement. Tank liquid surface level data shall be recorded every 15 minutes and these 15-minute levels will be used to calculate level changes. The 15-minute level readings shall be used to calculate the total one-way (increasing) volume movement, in feet, on a monthly basis.

The operator shall calculate throughput by the following equation: 0.14 x D x D x L, where D is the diameter of the tank in feet and L is the total one-way travel in feet per year of liquid surface level as determined by the 15-minute level readings.

The ATLG shall be verified once per quarter by comparing against a manual tank level measurement. If the ATLG is being repaired, throughput shall be determined by 15-minute tank level data averaged for the previous 30 days prior to the discovery of the discrepancy.

The operator shall keep monthly records on the throughput and the vapor pressure for each type of stored product.

In the case of a failure or shutdown of the measuring device and/or recorder, excluding routine maintenace, the requirements of this condition shall not apply for a period not to exceed 24 consecutive hours from the time of its occurrence. During the period of failure or shutdown, throughput shall be determined by 15-minute tank level data averaged for the previous 30 calendar days.

In the case of routine maintenance, the requirements of this condition shall not apply for a period not to exceed 4 hours in any calendar day. During the period of routine maintenance, throughput shall be determined by 15-minute tank level data averaged for the previous 30 calendar days.

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

[Devices subject to this condition : D1107, D1108, D1109, D1110]

C1.61 The operator shall limit the throughput to no more than 2,413 barrel(s) in any one calendar month.

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

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

The operator shall calculate the throughput in barrels, by the following equation: 0.14 x D x D x L. Where D is the diameter of the tank in feet based on the strapping chart and L is the total tank level change in feet per month.

Tank level gauge readings shall be recorded at the beginning and conclusion of each tank filling event.

The operator shall calculate the total tank level change, in feet, on a monthly basis.

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 : D2840]

C1.62 The operator shall limit the throughput to no more than 1,000,000 barrel(s) in any one calendar month.

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

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

The operator shall calculate the throughput, in barrels, by the following equation: 0.14 x D x D x 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 tank level 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 tank level. For the purpose of this condition, continuous recording is defined as once per hour.

The operator shall calculate the total one-way tank level movement at the end of each month. The total one-way tank level movement shall be determined for the calendar month and shall be expressed as feet.

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, throughput shall be determined by the hourly tank level data averaged for 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**]

[Devices subject to this condition : D1069]

C1.63 The operator shall limit the throughput to no more than 18,000 barrel(s) in any one calendar month.

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

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

The operator shall calculate the throughput, in barrels, by the following equation: 0.14 x D x D x 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 every 15 minutes.

The operator shall calculate the total one-way roof movement, in feet, on a monthly basis.

The ATLG 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 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 : D2850]

C1.64 The operator shall limit the throughput to no more than 12,000 barrel(s) in any one calendar month.

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

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

The operator shall calculate the throughput from tank truck unloading records. The throughput shall be the sum of the volumes of liquid unloaded into the tank, over the calendar month. Records retained shall include the number of truck tanks unloaded and their volumes.

Alternately, throughput may be calculated from sludge dewatering process records. This method may be used only if all materials loaded into Tank No. 614 are processsed through the sludge dewatering equipment. The throughput shall be the sum of the volumes of dewatered sludge processed through sludge dewatering equipment, over the calendar month. Records of the volumes of dewatered sludge processed daily shall be retained.

The operator shall use a single calculation method for throughput determination for any calendar month. Once it is determined which calculation method will be used (i.e. truck tank unloading records, or sludge dewatering process records), the operator will continue to calculate the throughput using this method for the entire month.

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

[Devices subject to this condition : D1106]

C1.65 The operator shall limit the operating time to no more than 199.99 hour(s) in any one year.

For the purpose of this condition, the operating time is inclusive of time allotted for maintenance and testing.

[**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 : D2776]

C1.66 The operator shall limit the operating time to no more than 30 hour(s) in any one year.

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

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

For the purpose of this condition, the operating time is defined as the time used solely for maintenance and testing.

[RULE 1470, 6-1-2007]

[Devices subject to this condition : D2776]

C1.68 The operator shall limit the operating time to no more than 200 hour(s) in any one year.

For the purpose of this condition, the operating time is inclusive of time alloted for maintenance and testing which is not more than 50 hours in any one year.

Operation beyond the 50 hours per year allotted for engine maintenance and testing shall be allowed only in the event of a loss of grid power or up to 30 minutes prior to a rotating outage, provided that: A) the utility distribution company has ordered rotating outage in the control area where the engine is located or has indicated that it expects to issue such an order at a certain time; B) the engine is located in a utility service block that is subject to the rotating outage.

Engine operation shall be terminated immediately after the utility distribution company advises that a rotating outage is no longer imminent or in effect.

[**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 : D2859]

C1.69 The operator shall limit the throughput to no more than 200,000 barrel(s) in any one calendar month.

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

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

The operator shall calculate the throughput, in barrels, by the following equation: 0.14 x D x D x 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 tank level 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 tank level. For the purose of this condition, continuous recording is defined as one per hour.

The operator shall calculate the total one-way tank level movement at the end of each month. The total one-way tank level movement shall be determined for the calendar month and shall be expressed as feet.

The ATLG 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, throughput shall be determined by the hourly tank level data averaged for 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 : D1072]

C1.70 The operator shall limit the throughput to no more than 500,000 barrel(s) in any one calendar month.

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

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

The operator shall calculate the throughput, in barrels, by the following equation: 0.14 x D x D x 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 level 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 tank level. For the purpose of this condition, continuous recording is defined as once per hour.

The operator shall calculate the total one-way tank level movement at the end of each month. The total one-way tank level movement shall be determined for the calendar month and shall be expressed as feet.

The ATLG 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, throughput shall be determined by the hourly tank level data averaged for 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 : D1103, D1111]

C1.71 The operator shall limit the throughput to no more than 350,000 barrel(s) in any one calendar month.

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

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

The operator shall calculate the throughput, in barrels, by the following equation: 0.14 x D x D x 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 level 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 tank level. For the purpose of this condition, continuous recording is defined as once per hour.

The operator shall calculate the total one-way tank level movement at the end of each month. The total one-way tank level movement shall be determined for the calendar month and shall be expressed as feet.

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, throughput shall be determined by the hourly tank level data averaged for the previous 30 days, prior to disocvery 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 : D1120]

C1.72 The operator shall limit the throughput to no more than 320000 barrel(s) in any one calendar month.

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

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

The operator shall calculate the throughput, in barrels, by the following equation: 0.14 x D x D x 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 liquid surface level travel in feet per month. For the purpose of this condition, continuous recording is defined as once per hour.

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.

Alternately, for tanks which do not have an ATLG device, the operator may use engineering calculations with paramters obtained from process records, shipping invoices, manual tank level gauging, etc to calculate throughput of the tank.

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

[Devices subject to this condition : D1159, D1160]

C1.73 The operator shall limit the operating time to no more than 199 hour(s) in any one year.

This engine shall not be operated more than 199 hours in any one year, which includes no more than 34 hours in any one year and no more than 4.2 hours in any one month, both, for maintenance and testing.

The 34 hour limit for maintenance and testing is to ensure compliance with requirements of National Fire Protection Association (NFPA) publication 25.

[**RULE 1304(a)-Modeling and Offset Exemption, 6-14-1996;** RULE 1470, 6-1-2007;
**RULE 2012, 5-6-2005**]

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

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

[Devices subject to this condition : D1997, D1998, D2416]

C1.75 The operator shall limit the throughput to no more than 2,000,000 barrel(s) in any one calendar month.

The operator shall calculate the throughput, in barrels, by the following equation: 0.14 x D x D x 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 tank level 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 tank level. For the purpose of this condition, continuous recording is defined as once per hour.

The operator shall calculate the total one-way tank level movement at the end of each month. The total one-way tank level movement shall be determined for the calendar month and shall be expressed as feet.

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, throughput shall be determined by the hourly tank level data averaged for the previous 30 days, prior to the discovery of the discepancy.

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 : D1084]

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

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

C1.76 The operator shall limit the throughput to no more than 1,900,000 barrel(s) in any one calendar month.

The operator shall calculate the throughput, in barrels, by the following equation: 0.14 x D x D x 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 every 15 minutes.

The operator shall calculate the total one-way roof movement, in feet, on a 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 maintain records in a manner approved by the District, to demonstrate compliance with this condition.

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

[Devices subject to this condition : D1177]

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

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

C1.77 The operator shall limit the operating time to no more than 550 hour(s) in any one calendar 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;** RULE 1303(b)(2)-Offset, 12-6-2002]

[Devices subject to this condition : D2926]

C1.78 The operator shall limit the throughput to no more than 300,000 batch(es) in any one calendar month.

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

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

The operator shall calculate the throughput, in barrels, by the following equation: 0.14 x D x D x H, where D is the diameter of the tank in feet based on the tank strapping chart and H 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 every 15 minutes. The operator shall calculate the total one-way roof movement, in feet, on a 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 15 days. While the ATLG is being repaired, the throughput shall be determined by 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 15 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 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 : D1091]

C6.1 The operator shall use this equipment in such a manner that the hydrocarbon concentration being monitored, as indicated below, does not exceed 30 percent of the Lower Explosive Limit.

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

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

The operator shall use an explosimeter to measure the Lower Explosive Limit (LEL) in the vapor space above the internal floating deck on a semiannual basis.

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

[**RULE 1178, 4-7-2006; RULE 463, 5-6-2005**]

[Devices subject to this condition : D1150, D1162, D1163, D1199]

C6.2 The operator shall use this equipment in such a manner that the hydrocarbon concentration being monitored, as indicated below, does not exceed 30 percent of the Lower Explosive Limit.

The operator shall use an explosimeter to measure the Lower Explosive Limit (LEL) in the vapor space above the floating roof, twice a year at a 4 to 8 month interval.

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

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

[Devices subject to this condition : D1000, D1001, D1153, D1154, D1155, D1156, D1157, D1158, D1161, D1166, D1167, D1168, D1169, D1170, D1171, D1172, D1173, D1174, D1176, D1177, D1178, D1179, D1180, D1181, D1182, D1183, D1184, D1188, D1190, D1194, D1195, D1196, D2850]

C8.1 The operator shall use this equipment in such a manner that the percent excess air being monitored, as indicated below, is not less than 1 percent.

This condition shall only apply during normal operation. This limit is not applicable during startup, shutdown, or process upset.

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

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

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

[Devices subject to this condition : D1465]

C8.2 The operator shall use this equipment in such a manner that the temperature being monitored, as indicated below, is not less than 1200 Deg F.

To comply with this condition, the operator shall install and maintain a(n) temperature reading device to accurately indicate the temperature in the firebox or in the ducwork immediatly downstream from the firebox.

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 3004(a)(4)-Periodic Monitoring, 12-12-1997**]

[Devices subject to this condition : C910, C2413]

C266.1 The operator shall install and maintain a pressure relief valve set at 4 inches water column.

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

[Devices subject to this condition : D997, D1627, D1637]

### D. Monitoring/Testing Requirements

D12.1 The operator shall install and maintain a(n) continuous monitoring system to accurately indicate the fuel usage at the gas turbine for each fuel being fired.

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

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

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

The measuring device or gauge shall be accurate to within + or - 5.0 percent. It shall be calibrated once every 12 months.

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

[Devices subject to this condition : D1226, D1233, D1236, D1239]

D12.2 The operator shall install and maintain a(n) continuous monitoring system to accurately indicate the steam-to-fuel ratio at the gas turbine for each fuel fired.

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

The measuring device or gauge shall be accurate to within + or - 5.0 percent. It shall be calibrated once every 12 months.

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

[Devices subject to this condition : D1226, D1233, D1236, D1239]

D12.3 The operator shall install and maintain a(n) temperature gauge to accurately indicate the temperature in the stack.

[**RULE 1301, 12-7-1995**]

[Devices subject to this condition : D538]

D12.4 The operator shall install and maintain a(n) gauge to accurately indicate the oxygen concentration in the exhaust gas.

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

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

[**RULE 1301, 12-7-1995**]

[Devices subject to this condition : D538]

D12.5 The operator shall install and maintain a(n) differential pressure gauge to accurately indicate the differential pressure across the SCR bed.

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

[Devices subject to this condition : C1335]

D12.6 The operator shall install and maintain a(n) temperature gauge to accurately indicate the temperature across the SCR bed.

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

[Devices subject to this condition : C1335]

D12.7 The operator shall install and maintain a(n) continuous monitoring system to accurately indicate the oxygen concentration of the exhaust gas.

[**RULE 1301, 12-7-1995**]

[Devices subject to this condition : D625, D626, D627, D628]

D12.9 The operator shall install and maintain a(n) temperature gauge to accurately indicate the temperature at the inlet to the SCR unit.

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

[Devices subject to this condition : C1242, C1248, C1252, C1256]

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

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

D12.10 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; RULE 2012, 5-6-2005**]

[Devices subject to this condition : D1997, D1998, D2416, D2417, D2418, D2776]

D12.11 The operator shall install and maintain a(n) pressure gauge to accurately indicate the pressure at the common vent system.

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

[Devices subject to this condition : D860, D866]

D12.12 The operator shall install and maintain a(n) continuous monitoring system to accurately indicate the flow rate of the fuel gas supplied to this heater.

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

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

[Devices subject to this condition : D1465]

D12.13 The operator shall install and maintain a(n) continuous monitoring system to accurately indicate the energy input of the fuel gas supplied to this heater.

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

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

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

Aternative monitoring plan for the measurement of fuel gas heating value at No. 2 Hydrogen Plant is as follows:

* Collect and analyze samples of the PSA tail gas at least three times per week

* During process upset of the No. 2 Hydrogen Production Plant, the sampling frequency shall be increased to once per 8-hour shift

* For purposes of this permit, all heating values calculated and recorded shall be on a higher heating value basis

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

[Devices subject to this condition : D1465]

D12.14 The operator shall install and maintain a(n) temperature gauge to accurately indicate the temperature of the heater flue gas to this equipment.

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

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

[Devices subject to this condition : C1466]

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

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

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

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

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

[Devices subject to this condition : C1305, C1326]

D12.19 The operator shall install and maintain a(n) differential pressure gauge to accurately indicate the differential pressure across the filter cartridges.

The operator shall determine and record the parameter being monitored once each day the equipment is in operation

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

[Devices subject to this condition : C2151]

D12.22 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; RULE 2012, 5-6-2005**]

[Devices subject to this condition : D2859]

D12.23 The operator shall install and maintain a(n) differential pressure gauge to accurately indicate the differential pressure across the filter cartridges.

The operator shall determine and record the parameter being monitored once every day, unless the equipment being controlled by this device is not in service. The daily log shall list either the parameter being monitored or that the equipment being controlled is not in service on that day.

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

[Devices subject to this condition : C2928, C2931]

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

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

D28.1 The operator shall conduct source test(s) in accordance with the following specifications:

The test shall be conducted at least annually.

The test shall be conducted to determine the NOX 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 flow rate at the outlet.

The test shall be conducted to determine the CO emissions at the outlet.

The test shall be conducted to determine the total hydrocarbon emissions at the outlet.

The test shall be conducted to determine the total PM emissions at the outlet.

The test shall be conducted to determine the NH3 emissions at the outlet.

The test shall be conducted to determine the formaldehyde emissions at the outlet.

[**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**]

[Devices subject to this condition : C1242, C1248, C1252, C1256]

D28.4 The operator shall conduct source test(s) in accordance with the following specifications:

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

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

The test shall be conducted to determine the NH3 emissions at the outlet.

The test shall be conducted every quarter to determine the ammonia emissions.

The test shall be conducted when the heater is operating under normal operating conditions.

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

[Devices subject to this condition : C1335, C1466]

D29.3 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 | Approved District method | District-approved averaging time | Outlet |
| PM emissions | District method 5.1 | 1 hour | Outlet |

The test(s) shall be conducted at least once every three years.

The test shall be conducted when the equipment is operating under normal conditions.

The test shall be conducted to demonstrate compliance with the emission limits specified in condition A63 for this equipment.

[**RULE 1303(b)(2)-Offset, 5-10-1996; RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997**]

[Devices subject to this condition : D27, D31, D63, D67, D155, D252, D417, D538, D539, D541, D625, D627, D628, D629, D1433, D1465]

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

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

D29.8 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 | 1 hour | Outlet |

The test(s) shall be conducted at least annually.

The test shall be conducted when the equipment is operating under normal conditions.

Source test results shall be submitted to the District no later than 60 days after the source test was conducted.

Source test results 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 outlet of the ESP; and the average current, voltage, and spark rate at each of the ESP fields.

[**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 : D164]

D82.1 The operator shall install and maintain a CEMS to measure the following parameters:

Oxygen concentration in percent volume

CO concentration in ppmv

Concentrations shall be corrected to 15 percent oxygen on a dry basis.

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

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

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

[Devices subject to this condition : C1243, C1249, C1253, C1257]

D82.2 The operator shall install and maintain a CEMS to measure the following parameters:

NOX concentration in ppmv

SOX concentration in ppmv

Concentrations shall be corrected to 3 percent oxygen on a dry basis.

The CEMS will convert the actual NOX concentrations to mass emission rates (lbs/hr) and record the hourly emission rates on a continuous basis.

The CEMS will convert the actual SOX concentrations to mass emission rates (lbs/hr) and record the hourly emission rates on a continuous basis.

The CEMS shall be installed and certified no later than 12 months after the initial start up according to the requirements of Rule 2011 for SOx major sources and Rule 2012 for NOx major sources

[**RULE 2011, 5-6-2005; RULE 2012, 5-6-2005**]

[Devices subject to this condition : C910, C2413]

D82.4 The operator shall install and maintain a CEMS to measure the following parameters:

CO concentration in ppmv

Oxygen concentration in percent volume

[**40CFR 63 Subpart UUU, 4-20-2006**]

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

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

[Devices subject to this condition : D164]

D90.1 The operator shall periodically monitor the VOC concentration at the outlet of the carbon adsorption sytem according to the following specifications:

The operator shall use EPA Reference Method 21 to monitor the parameter.

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

Alternately, the operator may use the District Grab Sample Method, as specified in Rule 1176, to measure the VOC concentration.

The operator shall monitor twice a week.

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

[Devices subject to this condition : C1002, C1628, C1630, C1632, C1635, C1638, C1640, C2014, C2445]

D90.3 The operator shall periodically analyze the fuel gas for total sulfur content in the refinery gases and butane used in the cogeneration facility according to the following specifications:

The operator shall analyze once every week.

[**RULE 2005, 5-6-2005; RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997**]

[Devices subject to this condition : D860, D866, D1226, D1227, D1233, D1234, D1236, D1237, D1239, D1240]

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

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

D90.4 The operator shall continuously monitor the H2S concentration in the fuel gases before being burned in this device according to the following specifications:

The operator shall use Gas Chromatograph 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 H2S concentration at a single location for fuel combustion devices, if monitoring at this location accurately represents the concentration of H2S in the fuel gas being burned in this device.

[**40CFR 60 Subpart J, 6-24-2008**]

[Devices subject to this condition : D27, D29, D31, D33, D67, D69, D151, D153, D155, D250, D252, D416, D417, D418, D419, D421, D423, D425, D532, D535, D538, D539, D541, D570, D625, D626, D627, D628, D629, C910, D1226, D1227, D1233, D1234, D1236, D1237, D1239, D1240, D1439, C2413, D2837]

D90.8 The operator shall periodically monitor the VOC concentration at the outlet of the first carbon canister and at the exit to the atmosphere according to the following specifications:

The operator shall use EPA Reference Method 21 to monitor the parameter.

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

Alternately, the operator may use the District Grab Sample Method, as specified in Rule 1176, to measure the VOC concentration.

The operator shall monitor twice every week, at least three days apart.

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

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

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

[Devices subject to this condition : C2446, C2748, C2753, C2756, C2758, C2760, C2762, C2788, C2812, C2881, C2886]

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

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

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

[Devices subject to this condition : D999, D2749, D2750, D2751]

D90.14 The operator shall periodically monitor the VOC concentration at outlet of the carbon adsorption system according to the following specifications:

The operator shall monitor twice every week using EPA reference method 21.

[RULE 402, 5-7-1976]

[Devices subject to this condition : C2813, C2814, C2815, C2816, C2817, C2818, C2819, C2820, C2821, C2822, C2823, C2824, C2825, C2826, C2827, C2828, C2829, C2830, C2831, C2832]

D90.17 The operator shall periodically monitor the H2S concentration at the inlet of this device according to the following specifications:

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

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

The Alternative Monitoring Plan (AMP) approved by the United States Environmental Protection Agency (USEPA) on July 11, 2003 for the periodic monitoring and reporting of H2S concentration for refinery gas stream to four WCC turbines

In addition, the operator shall also comply with all other requirements of the AMP issued by the USEPA on July 11, 2003 for four WCC turbines

[**40CFR 60 Subpart A, 6-13-2007; 40CFR 60 Subpart J, 6-24-2008**]

[Devices subject to this condition : D1226, D1233, D1236, D1239]

D90.18 The operator shall periodically monitor the H2S concentration at the inlet of this device according to the following specifications:

The Alternative Monitoring Plan (AMP) approved by the United States Environmental Protection Agency (USEPA) on November 4, 2008 for the periodic monitoring and reporting of H2S concentration for refinery gas stream to FCCU Feed HDS Flare

In addition, the operator shall also comply with all other requirements of the AMP issued by the USEPA on November 4, 2008 for FCCU Feed HDS Flare

[**40CFR 60 Subpart A, 6-13-2007; 40CFR 60 Subpart J, 6-24-2008**]

[Devices subject to this condition : C1326]

D90.19 The operator shall periodically monitor the H2S concentration at the inlet of this device according to the following specifications:

The Alternative Monitoring Plan (AMP) approved by the United States Environmental Protection Agency (USEPA) on June 16, 2008 for the periodic monitoring and reporting of H2S concentration for refinery gas stream to FCCU Feed HDS Flare

In addition, the operator shall also comply with all other requirements of the AMP issued by the USEPA on June 16, 2008 for FCCU Feed HDS Flare

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

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

[**40CFR 60 Subpart A, 6-13-2007; 40CFR 60 Subpart J, 6-24-2008**]

[Devices subject to this condition : C1326]

D94.1 The operator shall install, maintain and operate a sampling line from the sampling port and made accessible in the gas turbine exhaust duct and after the waste heat boiler in accordance with District guidelines

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

[Devices subject to this condition : D1226, D1233, D1236, D1239]

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 : D2416, D2417, D2418]

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.

[**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 : C1329, C2151, C2928, C2931]

D322.2 The operator shall perform a weekly inspection of the equipment and the integrity of the water wash chamber.

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

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

[**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 481, 1-11-2002**]

[Devices subject to this condition : D1267]

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

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

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

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

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

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

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

1). Stack or emission point identification;

2). Description of any corrective actions taken to abate visible emissions;

3). Date and time visible emission was abated; and

4). All visible emission observation records by operator or a certified smoke reader.

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

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

[**RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997; RULE 401, 3-2-1984;** RULE 401, 11-9-2001]

[Devices subject to this condition : C1302, C1305, C1308, C1326]

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

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

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 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
# BP WEST COAST PROD.LLC BP CARSON REF.

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

[**RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997; RULE 401, 3-2-1984;** RULE 401, 11-9-2001]

[Devices subject to this condition : D121, D122, D124, D127, D128, D129, D130, D131, D132, D133, D134, D135, D136, D137, D138, D139, D140, D141, D142, D143, D144, D145, D146, D147, D148, D149, D150, D233, D241, D1280, D2149, D2926, D2930]

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

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

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 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
# BP WEST COAST PROD.LLC BP CARSON REF.

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

[**RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997; RULE 401, 3-2-1984;** RULE 401, 11-9-2001]

[Devices subject to this condition : D164]

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

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

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
# BP WEST COAST PROD.LLC BP CARSON REF.

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

[**RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997; RULE 401, 3-2-1984;** RULE 401, 11-9-2001]

[Devices subject to this condition : D183, D184, C231]

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 3004(a)(4)-Periodic Monitoring, 12-12-1997; RULE 407, 4-2-1982**]

[Devices subject to this condition : D27, D29, D31, D33, D63, D67, D151, D153, D155, D250, D416, D417, D418, D419, D421, D423, D425, D532, D535, D538, D539, D541, D570, D625, D626, D627, D628, D629, C910, D1433, D1439, D1465, C2413]

D330.1 The operator shall have a person that has been trained in accordance with Rule 461conduct a semi-annual inspection of the gasoline transfer and dispensing equipment. The first inspection shall be in accordance with Rule 461, Attachment B, the second inspection shall be in accordance with Rule 461, Attachment C, and the subsequent inspections shall alternate protocols. The operator shall keep records of the inspection and the repairs in accordance to Rule 461 and Section K of this Permit.

[RULE 461, 3-7-2008]

[Devices subject to this condition : D1276]

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

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

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 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 1146.1, 5-13-1994;** RULE 1146.1, 9-5-2008; **RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997; RULE 407, 4-2-1982**]

[Devices subject to this condition : D27, D69, D252]

D381.1 The operator shall conduct an inspection for visible emissions from all stacks and other emission points of this equipment whenever there is a public complaint of visible emissions, whenever visible emissions are observed, and on a 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, the operator shall 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.

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 emission was abated.

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

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

[**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]

[Devices subject to this condition : C1329, C2151, C2928, C2931]

### E. Equipment Operation/Construction Requirements

E51.4 The following condition number(s) shall not apply if all of the requirements stated below are met:

Condition Number A 63-23

Requirement number 1: during normal operations - lower catalyst activity.

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

[Devices subject to this condition : D417]

E51.5 The following condition number(s) shall not apply if all of the requirements stated below are met:

Condition Number A 63-26

Requirement number 2: after the Jet Treater Hydrotreater unit start up.

Requirement number 1: start of catalyst cycle - high catalyst activity.

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

[Devices subject to this condition : D417]

E54.1 The operator is not required to vent this equipment to the following equipment if any of the requirements listed below are met:

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

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

Device ID: D2808 [DRUM, KNOCK OUT, VERTICAL, SFIA VAPOR RECOVERY WEST]

Requirement number 1: During periods of startup and shutdown modes

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

[Devices subject to this condition : D1226, D1227, D1233, D1234, D1236, D1237, D1239, D1240]

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: D1313 [COMPRESSOR, TWO STAGE, NO.5, RW 7087.03]

Device ID: D1314 [COMPRESSOR, TWO STAGE, NO.6, RW 26087.32]

Device ID: D1656 [COMPRESSOR, RW16, MYCOM, SCREW TYPE, WITH DOUBLE SEAL, SEAL OIL SYSTEM, 800 HP MOTOR]

Requirement number 1: When storing organic liquids having vapor pressure less than 0.5 psia under actual storage conditions.

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

[Devices subject to this condition : D1086, D1087, D1102, D1116, D1225]

E57.1 The operator shall vent this equipment to dust control equipment whenever loading/unloading of catalyst and during catalyst handling.

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

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

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

[Devices subject to this condition : C571, C1335]

E71.1 The operator shall not fire this equipment during the startup mode of operation.

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

[Devices subject to this condition : D1227, D1234, D1237, D1240]

E71.2 The operator shall only operate this equipment to use packed glands providing that their vapor recovery efficiency is equivalent to or exceeds that of mechanical seals in good working order.

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

[Devices subject to this condition : D564, D565, D566]

E71.5 The operator shall only vent this equipment to at least one row of the cogeneration units duct burners which shall have rows 3 in full use when receiving vented gas.

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

[Devices subject to this condition : D860, D866]

E71.7 The operator shall only fire this equipment using natural gas and PSA tail gas exclusively. "Natural gas" is defined as a mixture of gaseous hydrocarbons, with at least 80 percent methane (by volume), and of pipeline quality, such as the gas sold or distributed by any utility company regulated by the California Public Utilities Commission..

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

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

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

[Devices subject to this condition : D1465]

E71.8 The operator shall only inject ammonia into this equipment if the heater flue gas inlet temperature to the SCR unit exceeds 570 degrees F.

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

[Devices subject to this condition : C1466]

E71.13 The operator shall only fire this equipment using natural gas exclusively. The term "natural gas" as defined in this permit means a mixture of gaseous hydrocarbons, with at least 80 percent methane (by volume), and of pipeline quality, such as the gas sold or distributed by any utility company regulated by the California Public Utilities Commission.

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

[Devices subject to this condition : D1433]

E71.16 The operator shall not use this equipment to store sour naphtha containing 50 ppm by volume(22 ppm by weight) or more H2S, nor having a total true vapor pressure of 11 psia or greater under actual operating conditions. The operator shall, at least once a week, sample and test for H2S concentration and vapor pressure of the storage materials using test methods specified in Rule 463 or alternative methods approved in writing by the District. Records of sampling, storage temperature, and test result shall be maintained for at least five years.

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

[Devices subject to this condition : D1150]

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

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

E71.17 The operator shall only use this equipment to receive sour water from the sphere 710 (Device ID D2728), unless the sphere is out of service due to breakdown, maintenance or turnaround.

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

[Devices subject to this condition : D1113]

E71.18 The operator shall not send sour water from this equipment to tanks 774 and or 775 when the pressure inside the sphere is greater than 2 psig.

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

[Devices subject to this condition : D2728]

E71.20 The operator shall only use this equipment to receive vent gases from equipment devices D863 and D869 during emergency conditions.

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

[Devices subject to this condition : D2003]

E71.21 The operator shall only use this equipment for the storage of any of the following commodities: Sweetened Naphtha (C4-C12), Sweet Naphtha (high benzene), Catalytic Cracked Naphtha, Unleaded Gasoline, and Alkylate.

[RULE 1401, 3-4-2005]

[Devices subject to this condition : D1177, D1178]

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

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

E71.22 The operator shall only use this equipment to control odors/VOC from miscellaneous sources at the refinery. This equipment does not qualify as air pollution control equipment for compliance with Rules 463, 1176, 1178 or 1303(a)(1)-BACT.

[RULE 402, 5-7-1976]

[Devices subject to this condition : C2813, C2814, C2815, C2816, C2817, C2818, C2819, C2820, C2821, C2822, C2823, C2824, C2825, C2826, C2827, C2828, C2829, C2830, C2831, C2832]

E71.24 The operator shall only calculate and report NOx mass emissions under RECLAIM from this equipment using the emission factor of 0.64 lb/MMBTU during the FCCU refractory "dry-out" portion of a start-up. For purpose of this condition, a refractory "dry-out" period begins when a man-way on the FCC Disengager is open and ends for this equipment when all of the man-ways are close. This emission calculation and reporting method shall not apply when torch oil is combusted or when catalyst is present in the regenerator. This device shall not be operated with one or more man-ways open except during start-up of the FCCU after a turnaround period without combustion of torch oil or the presence of catalyst.

[**RULE 2012, 5-6-2005**]

[Devices subject to this condition : D2837]

E73.1 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:

Startup and shutdown modes of operation.

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

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

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

[Devices subject to this condition : D1226, D1233, D1236, D1239]

E73.2 Notwithstanding the requirements of Section E conditions, the operator may, at his discretion, choose not to use ammonia injection if any of the following requirement(s) are met:

Temperature measured at the SCR inlet is less than 500 Deg. F

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

[Devices subject to this condition : C1242, C1248, C1252, C1256]

E74.1 Notwithstanding the requirements of Section E conditions, the operator is not required to vent this equipment to the SCR (device C1466) if the heater exhaust temperature is below 570 degree Fahrenheit.

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

[Devices subject to this condition : D1465]

E102.1 The operator shall discharge dust collected in this equipment only into closed containers.

[**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**]

[Devices subject to this condition : C1329, C2151, C2928, C2931]

E118.1 The operator shall ensure that all openings to the atmosphere on the tank and on the tank truck shall be closed during a gasoline transfer to the storage tank.

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

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

[RULE 461, 3-7-2008]

[Devices subject to this condition : D1277]

E127.1 The operator shall keep gauge/sample hatches closed except during actual gauging/sampling operations.

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

[Devices subject to this condition : D992, D997, D1008, D1009, D1627, D1637]

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 : C1002, C1628, C1630, C1632, C1635, C1638, C1640, C2014, C2445, C2446, C2748, C2753, C2756, C2758, C2760, C2762, C2788, C2812, C2881, C2886]

E128.2 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 402, 5-7-1976]

[Devices subject to this condition : C2813, C2814, C2815, C2816, C2817, C2818, C2819, C2820, C2821, C2822, C2823, C2824, C2825, C2826, C2827, C2828, C2829, C2830, C2831, C2832]

E153.1 The operator shall change over the carbon in the adsorber whenever breakthrough occurs.

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

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

For the purpose of this condition, breakthrough occurs when the hydrocarbon monitor reading indicates a concentration of 500 ppmv at the outlet of the second carbon. If breakthrough occurs, the spent carbon adsorber shall either be replaced with an identical unit containing fresh activated carbon or the spent carbon shall be removed and replaced with fresh activated carbon.

The replacement activated carbon shall have a Butane Activity of not less than 21.4%, as measured according to ASTM Method 5742, or a Carbon Tetrachloride (CTC) Activity of not less than 60%, as measured by ASTM Method 3467.

To replace the carbon adsorber, the operator shall remove the first carbon canister, replace it with a fresh carbon adsorber or rotate the second adsorber in series to first, and put in a new second carbon adsorber.

The operator shall change over the carbon in the adsorber, at minimum, on an annual basis, without respect to whether breakthrough has occurred.

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

[Devices subject to this condition : C1002, C1628, C1630, C1632, C1635, C1638, C1640, C2014, C2881]

E153.2 The operator shall change over the carbon in the adsorber whenever breakthrough occurs.

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

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

For the purpose of this condition, breakthrough occurs when the hydrocarbon monitor reading indicates a concentration of 500 ppmv at the outlet of the first carbon canister. If breakthrough occurs, the spent carbon adsorber shall either be replaced with an identical unit containing fresh activated carbon or the spent carbon shall be removed and replaced with fresh activated carbon.

The replacement activated carbon shall have a Butane Activity of not less than 21.4%, as measured according to ASTM Method 5742, or a Carbon Tetrachloride (CTC) Activity of not less than 60%, as measured by ASTM Method 3467.

To replace the carbon adsorber, the operator shall remove the first carbon canister, replace it with a fresh carbon adsorber or rotate the second adsorber in series to first, and put in a new second carbon adsorber.

The operator shall change over the carbon in the adsorber, at minimum, on an annual basis, without regard to whether breakthrough has occured.

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

[Devices subject to this condition : C2748, C2753, C2756, C2758, C2760, C2762, C2788, C2812]

E153.3 The operator shall change over the carbon in the adsorber whenever breakthrough occurs.

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

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

For the purpose of this condition, breakthrough occurs when the hydrocarbon monitor reading indicates a concentration of 500 ppmv, as methane, at the outlet of the carbon adsorber.

If breakthrough occurs, the spent carbon adsorber shall either be replaced with an identical unit containing fresh activated carbon or the spent carbon shall be removed from the canister and replaced with fresh activated carbon. The replacement activated carbon shall have a Butane Activity of not less than 21.4%, as measured according to ASTM Method 5742, or a Carbon Tetrachloride (CTC) Activity of not less than 60%, as measured by ASTM Method 3467.

[**RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997;** RULE 402, 5-7-1976]

[Devices subject to this condition : C2445, C2813, C2814, C2815, C2816, C2817, C2818, C2819, C2820, C2821, C2822, C2823, C2824, C2825, C2826, C2827, C2828, C2829, C2830, C2831, C2832]

E153.6 The operator shall change over the carbon in the adsorber whenever breakthrough occurs.

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

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

For the purpose of this condition, breakthrough occurs when the hydrocarbon monitor reading indicates a concentration of 500 ppmv at the outlet of the first carbon canister. If breakthrough occurs, the spent carbon adsorber shall either be replaced with an identical unit containing fresh activated carbon or the spent carbon shall be removed and replaced with fresh activated carbon.

The replacement activated carbon shall have a Butane Activity of not less than 21.4%, as measured according to ASTM Method 5742, or a Carbon Tetrachloride (CTC) Activity of not less than 60%, as measured by ASTM Method 3467.

To replace the carbon adsorber, the operator shall remove the first carbon canister, replace it with a fresh carbon adsorber or rotate the second adsorber in series to first, and put in a new second carbon adsorber.

The operator shall change over the carbon in the adsorber, at minimum, on an annual basis, without respect to whether breakthrough has occurred.

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

[Devices subject to this condition : C2886]

E153.7 The operator shall change over the carbon in the adsorber whenever breakthrough occurs.

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

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

For the purpose of this condition, breakthrough occurs when the hydrocarbon monitor reading indicates a concentration of 5000 ppmv at the outlet of the first carbon canister. If breakthrough occurs, the spent carbon adsorber shall either be replaced with an identical unit containing fresh activated carbon or the spent carbon shall be removed and replaced with fresh activated carbon.

The replacement activated carbon shall have a Butane Activity of not less than 21.4%, as measured according to ASTM Method 5742, or a Carbon Tetrachloride (CTC) Activity of not less than 60%, as measured by ASTM Method 3467.

To replace the carbon adsorber, the operator shall remove the first carbon canister, replace it with a fresh carbon adsorber or rotate the second adsorber in series to first, and put in a new second carbon adsorber.

The operator shall change over the carbon in the adsorber, at minimum, on an annual basis, without respect to whether breakthrough has occurred.

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

[Devices subject to this condition : C2446]

E166.1 The operator shall keep all openings from this equipment closed when in use except for maintenance or repair.

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

[Devices subject to this condition : D992, D997, D1008, D1009, D1627]

E175.1 The operator shall not use this equipment unless all exhaust air passes through the following:

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

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

An air pollution control equipment consisting of a selective catalytic reduction (SCR) system which is in full use and which has been issued an operating permit by the executive officer, except during startup or shutdown period.

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

[Devices subject to this condition : D1465]

E193.1 The operator shall construct this equipment according to the following specifications:

This heater shall be equipped with an oxygen analyzer to measure excess $O_2$ at its convection section or exhaust stack. The excess oxygen shall be maintained at a minimum of 1 percent, dry basis, except during startup and shutdown, or process upset.

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

[Devices subject to this condition : D1433, D1465]

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

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

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

[Devices subject to this condition : C1302, C1305, C1308, C1326]

E193.10 The operator shall construct, operate, and maintain this equipment according to the following specifications:

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

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

This tank shall be equipped with a fixed self-supporting roof with an internal floating deck. All rim vents shall be closed with a weighted mechanical actuation cover. This tank shall be equipped with a rim seal system consisting of a primary seal and a secondary seal meeting the specifications listed in Rule 1178(d)(1)(B).

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

[Devices subject to this condition : D1150]

E193.11 The operator shall construct, operate, and maintain this equipment according to the following specifications:

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

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

The Rich MDEA Flash Drum RPV 2685 (D796) shall be used for sour water service only when Sour Water Flash Drum RPV 2257 (D780) is not in service during equipment turnaround. The period of sour water service shall not exceed 30 days in each turnaround.

The District shall be notified in writing at least three business days in advance of any scheduled placement of this equipment in sour water backup service and the duration of the sour water backup service. The notification shall also include the reason of the shut down of Sour Water Flash Drum RPV2257. The District shall be notified in writing within three business days of returning to normal MDEA operation. Notification shall be addressed to: Refinery_compliance@aqmd.gov

All vent gases under normal operating conditions during both MDEA and sour water services shall be directed to the Coker Blowdown Gas Recovery System (Process 2 System 6) and/or the FCCU Fractionator Overhead Accumulator (D168).

The bypass connection line from this equipment to the FCC flare shall be blocked with a closed valve equipped with a car seal. This equipment shall not be vented to the FCC flare except during emergency.

The operator shall replace the car seal each time the bypass valve is opened and the car seal is broken. The operator shall keep records of the car seal replacement. The records shall include the reason the valve was opened, description of the emergency, the length of time it was open, a calculation of the amount of gas released from this equipment and the basis of the calculation. Such records shall be maintained for at least five years and made available to the District personnel upon request.

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

[Devices subject to this condition : D796]

E193.12 The operator shall construct, operate, and maintain this equipment according to the following specifications:

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

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

This flash drum shall be used only when Rich MDEA Flash Drum RPV 2685 is either out of service or in sour water service according to condition E193.11 and only when one of the MDEA regeneration units (and not both) is in operation.

All vent gases under normal operating conditions shall be directed to the Coker Blowdown Gas Recovery System (Process 2 System 6) and/or the FCCU Fractionator Overhead Accumulator (D168).

The bypass connection line from this equipment to the FCC flare shall be blocked with a closed valve equipped with a car seal. This equipment shall not be vented to the FCC flare except during emergency.

The operator shall replace the car seal each time the bypass valve is opened and the car seal is broken. The operator shall keep records of the car seal replacement. The records shall include the reason the valve was opened, description of the emergency, the length of time it was open, a calculation of the amount of gas released from this equipment and the basis of the calculation. Such records shall be maintained for at least five years and made available to the District personnel upon request.

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

[Devices subject to this condition : D2712]

E193.19 The operator shall construct, operate, and maintain this equipment according to the following specifications:

This tank shall be equipped with a rim seal system consisting of a primary and a secondary seal meeting the specifications listed in Rule 1178(d)(1)(B).

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

[Devices subject to this condition : D1199]

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

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

E193.22 The operator shall operate and maintain this equipment according to the following requirements:

1. This equipment shall only be operated for the purpose of providing power to drive a fire pump.

2. This equipment shall be operated for maintenance and testing, not to exceed 30 hours in any one year.

3. An engine operating log shall be kept in writing, listing the date of operation, the elapsed time, in hours, and the reason for operation. The log shall be maintained for a minimum of 5 years and made available to AQMD personnel upon request.

[RULE 1470, 6-1-2007]

[Devices subject to this condition : D2776]

E193.24 The operator shall operate and maintain this equipment as follows:

This engine shall be a US EPA certified, non-road compression-ignition engine, as evidenced by the manufacturer's engine tag

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

[Devices subject to this condition : D2859]

E204.1 The operator shall maintain the petroleum coke storage, handling and receiving equipment according to the following specifications:

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

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

green coke storage piles shall be reasonably level and shall not be higher than one foot below the top of the back stop wall or twelve(12) feet whichever is lower

mobile equipment shall not operate on top of the green coke storage piles

no more than four (4) days of coker run shall be stored in this emergency storage area

each day of coker run stored in this emergency system shall be removed within 2 1/2 days after operation of the coke screen is resumed. (for example, if two days of coker run is stored it shall be removed within 5 days)

conveyor housing shall be kept closed at all times except during emergency maintenance

[RULE 1158, 7-11-2008]

[Devices subject to this condition : D148]

E204.2 The operator shall maintain the petroleum coke storage, handling and receiving equipment according to the following specifications:

any coke, coke fines or coke residue on the concrete emergency storage area and associated gutters shall be removed while still wet for processing or disposal after coke rerun within the time limit specified in condition 204-1

[RULE 1158, 7-11-2008]

[Devices subject to this condition : D148]

E204.3 The operator shall maintain the petroleum coke storage, handling and receiving equipment according to the following specifications:

conveyor housing shall be kept closed at all times except during necessary maintenance

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

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

[RULE 1158, 7-11-2008]

[Devices subject to this condition : D133, D134, D135, D136, D137, D138, D139, D140]

E204.4 The operator shall maintain the petroleum coke storage, handling and receiving equipment according to the following specifications:

fines which are recovered from conveyor return belts may be conveyed only by the belts carrying wet straight run coke or shall be transported by other carrier directly to the coke storage building

[RULE 1158, 7-11-2008]

[Devices subject to this condition : D127, D128, D129, D130, D131, D132, D133, D134, D135, D136, D137, D138, D139, D140]

E204.5 The operator shall maintain the petroleum coke storage, handling and receiving equipment according to the following specifications:

the emergency coker run conveyors nos. 16 and 17, rerun hopper and front end loader shall be washed of coke residue after each use

[RULE 1158, 7-11-2008]

[Devices subject to this condition : D147, D150]

E204.6 The operator shall maintain the petroleum storage, handling and receiving equipment according to the following specifications:

green coke from this emergency storage facility shall only be processed through the rerun conveyor no. 17 to the screen house

# FACILITY PERMIT TO OPERATE
# BP WEST COAST PROD.LLC BP CARSON REF.

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

**The operator shall comply with the terms and conditions set forth below:**

[RULE 1158, 7-11-2008]

[Devices subject to this condition : D150]

E336.2 The operator shall vent the vent gases from this equipment as follows:

All vent gases under normal operating conditions shall be directed to a vapor recovery system.

This equipment shall not be operated unless the vapor recovery system (consisting of three compressors operated independently or concurrently at any given time) 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 : D833, D1067, D1069, D1073, D1074, D1080, D1081, D1083, D1084, D1085, D1086, D1087, D1102, D1106, D1113, D1114, D1115, D1116, D1117, D1127, D1128, D1134, D1135]

E336.3 The operator shall vent the vent gases from this equipment as follows:

All sour gases under normal operating conditions shall be directed to a sour water system via an eductor. When the tank pressure exceeds 2.5-inch water column, the tank may release excess pressure into the atmosphere via a pressure-controlled valve.

[**RULE 1303(a)(1)-BACT, 5-10-1996**]

[Devices subject to this condition : D1137, D1138]

E336.5 The operator shall vent the vent gases from this equipment as follows:

# FACILITY PERMIT TO OPERATE
# BP WEST COAST PROD.LLC BP CARSON REF.

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

**The operator shall comply with the terms and conditions set forth below:**

All emergency vent gases shall be directed to vapor recovery system (process 21 System 4) or a flare system.

This equipment shall not be operated unless the vapor recovery system (consisting of three compressors operated independently or concurrently at any given time) or flare 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 : D780, D781, D844, D2938]

E336.6 The operator shall vent the vent gases from this equipment as follows:

All acid gases under normal operating conditions shall be directed to the sulfur recovery units.

[**RULE 1303(a)(1)-BACT, 5-10-1996**]

[Devices subject to this condition : D839, D842]

E336.8 The operator shall vent the vent gases from this equipment as follows:

All emergency vent gases shall be directed to the South Area Flare System (Process 21, System 1).

This equipment shall not be operated unless the flare system is in full use and has a valid permit to receive vent gases from this equipment.

[**RULE 1303(b)(2)-Offset, 5-10-1996**]

[Devices subject to this condition : D838, D841, D2728]

# FACILITY PERMIT TO OPERATE
# BP WEST COAST PROD.LLC BP CARSON REF.

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

**The operator shall comply with the terms and conditions set forth below:**

E336.10 The operator shall vent the vent gases from this equipment as follows:

All vent gases under normal condition shall be directed to either the Refinery Vapor Recovery System (Process 21, System 4) or to the Blowdown Gas Compression System (Process 2, System 6) but only to one system at a time. The operator shall close the block valve on the vent stream line to the system not receiving vent gases from the tank. The operator shall also ensure that backflow does not occur when the tank vents to the Blowdown Gas Compression System.

This equipment shall not be operated unless the system receiving vent gases from the tank 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(b)(2)-Offset, 5-10-1996**]

[Devices subject to this condition : D2728]

E336.12 The operator shall vent the vent gases from this equipment as follows:

All vent gases under normal operating conditions shall be directed to Vapor Recovery System (Process 21 System 4) or Blowdown Gas Compression system (Process 2 System 6).

This equipment shall not be operated unless the vapor recovery system or blowdown gas compression system (each consisting of three compressors operated independently or concurrently at any given time) which vent gases are being directed to 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 : D780, D781, D844, D2938]

# FACILITY PERMIT TO OPERATE
# BP WEST COAST PROD.LLC BP CARSON REF.

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

**The operator shall comply with the terms and conditions set forth below:**

E336.13 The operator shall vent the vent gases from this equipment as follows:

All vent gases under normal operating conditions shall be directed to Thermal Oxidizer No.1 and/or Thermal Oxidizer No.2 of System 6 of Process 13.

This equipment shall not be operated unless either the Thermal Oxidizer No.1 and/or Thermal Oxidizer No.2 of System 6 of Process 13 are in full use and have a valid permit to receive vent gases from this equipment.

[**RULE 1176, 9-13-1996**]

[Devices subject to this condition : D830, D832]

### H. Applicable Rules

H23.1 This equipment is subject to the applicable requirements of the following rules or regulations:

| Contaminant | Rule | Rule/Subpart |
|---|---|---|
| H2S | 40CFR60, SUBPART | J |

[**40CFR 60 Subpart J, 6-24-2008**]

[Devices subject to this condition : D27, D29, D31, D33, D67, D69, D151, D153, D155, D250, D252, D416, D417, D418, D419, D421, D423, D425, D532, D535, D538, D539, D541, D570, D625, D626, D627, D628, D629, C910, D1226, D1227, D1233, D1234, D1236, D1237, D1239, D1240, C1326, D1439, D1465, C2413, D2837]

H23.3 This equipment is subject to the applicable requirements of the following rules or regulations:

# FACILITY PERMIT TO OPERATE
# BP WEST COAST PROD.LLC BP CARSON REF.

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

**The operator shall comply with the terms and conditions set forth below:**

| Contaminant | Rule | Rule/Subpart |
|---|---|---|
| VOC | District Rule | 1173 |
| VOC | 40CFR60, SUBPART | GGG |

[**RULE 1173, 5-13-1994; RULE 1173, 2-6-2009; 40CFR 60 Subpart GGG, 6-2-2008**]

[Devices subject to this condition : D2459, D2460, D2461, D2462, D2463, D2464, D2465, D2466, D2467, D2468, D2469, D2470, D2471, D2472, D2473, D2474, D2475, D2476, D2477, D2478, D2479, D2481, D2482, D2483, D2484, D2485, D2486, D2487, D2488, D2489, D2490, D2491, D2492, D2493, D2494, D2495, D2496, D2497, D2500, D2501, D2502, D2503, D2504, D2505, D2506, D2507, D2508, D2509, D2510, D2511, D2512, D2513, D2514, D2515, D2516, D2517, D2518, D2519, D2520, D2521, D2527, D2528, D2529, D2530, D2531, D2532, D2533, D2534, D2536, D2538, D2539, D2540, D2541, D2542, D2543, D2544, D2545, D2546, D2585, D2586, D2587, D2588, D2589, D2590, D2591, D2613, D2614, D2615, D2675, D2676, D2677, D2678, D2878, D2882, D2883, D2885]

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 | District Rule | 1178 |
| VOC | District Rule | 463 |

[RULE 1149, 5-2-2008; **RULE 1178, 4-7-2006; RULE 463, 5-6-2005**]

[Devices subject to this condition : D1000, D1001, D1030, D1032]

# FACILITY PERMIT TO OPERATE
# BP WEST COAST PROD.LLC BP CARSON REF.

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

**The operator shall comply with the terms and conditions set forth below:**

H23.5 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 : D1000, D1001, D1120, D1143, D1162, D1163, D1178, D2153]

H23.7 This equipment is subject to the applicable requirements of the following rules or regulations:

| Contaminant | Rule | Rule/Subpart |
|---|---|---|
| VOC | 40CFR60, SUBPART | Ka |

[**40CFR 60 Subpart Ka, 5-5-1989**]

[Devices subject to this condition : D1173, D1177]

H23.8 This equipment is subject to the applicable requirements of the following rules or regulations:

| Contaminant | Rule | Rule/Subpart |
|---|---|---|
| Refrigerants | District Rule | 1415 |

[RULE 1415, 10-14-1994]

[Devices subject to this condition : E2592, E2593, E2595]

# FACILITY PERMIT TO OPERATE
# BP WEST COAST PROD.LLC BP CARSON REF.

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

**The operator shall comply with the terms and conditions set forth below:**

H23.9 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 : E2594]

H23.10 This equipment is subject to the applicable requirements of the following rules or regulations:

| Contaminant | Rule | Rule/Subpart |
|---|---|---|
| VOC | District Rule | 1122 |

[**RULE 1122, 10-1-2004**]

[Devices subject to this condition : E2597]

H23.11 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 : E2599]

# FACILITY PERMIT TO OPERATE
# BP WEST COAST PROD.LLC BP CARSON REF.

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

**The operator shall comply with the terms and conditions set forth below:**

H23.12 This equipment is subject to the applicable requirements of the following rules or regulations:

| Contaminant | Rule | Rule/Subpart |
|---|---|---|
| Benzene | 40CFR61, SUBPART | FF |

[**40CFR 61 Subpart FF, 12-4-2003**]

[Devices subject to this condition : D26, D78, D80, D169, D188, D190, D220, D265, D277, D354, D406, D408, D430, D663, D668, D712, D780, D796, D812, D815, D817, D844, D1000, D1001, D1030, D1032, D1067, D1072, D1087, D1098, D1113, D1114, D1120, D1127, D1134, D1135, D1143, D1150, D1188, D1194, D1195, D1196, D1199, D1201, C1302, C1305, D1306, C1308, D1309, D1325, C1326, D1327, D1328, D1402, D1424, D1596, D1604, D1644, D1645, D1646, D1648, D1649, D1978, D2056, D2058, D2340, D2368, D2395, D2712, D2728, D2850, D2938]

H23.13 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, 5-5-1989**]

[Devices subject to this condition : D80, D1147, D1148, D2840]

H23.14 This equipment is subject to the applicable requirements of the following rules or regulations:

# FACILITY PERMIT TO OPERATE
# BP WEST COAST PROD.LLC BP CARSON REF.

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

**The operator shall comply with the terms and conditions set forth below:**

| Contaminant | Rule | Rule/Subpart |
|---|---|---|
| VOC | 40CFR60, SUBPART | QQQ |

[**40CFR 60 Subpart QQQ, 10-17-2000**]

[Devices subject to this condition : D992, D994, D995, D997, D998, D1000, D1001, D1007, D1008, D1009, D1010, D1013, D1014, D1015, D1016, D1030, D1032, D1627, D1637, D2008, D2009, D2010, D2011, D2012, D2013, D2601, D2787, D2811, D2835, D2880]

H23.16 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 : D1280, D2149, D2926, D2930]

H23.18 This equipment is subject to the applicable requirements of the following rules or regulations:

| Contaminant | Rule | Rule/Subpart |
|---|---|---|
| NOX | 40CFR60, SUBPART | GG |
| SOX | 40CFR60, SUBPART | GG |
| H2S | 40CFR60, SUBPART | J |

[**40CFR 60 Subpart GG, 2-24-2006; 40CFR 60 Subpart J, 6-24-2008**]

# FACILITY PERMIT TO OPERATE
# BP WEST COAST PROD.LLC BP CARSON REF.

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

**The operator shall comply with the terms and conditions set forth below:**

[Devices subject to this condition : D1226, D1233, D1236, D1239]

H23.19 This equipment is subject to the applicable requirements of the following rules or regulations:

| Contaminant | Rule | Rule/Subpart |
|---|---|---|
| H2S | 40CFR60, SUBPART | J |
| NOX | 40CFR60, SUBPART | Db |

[**40CFR 60 Subpart Db, 1-28-2009; 40CFR 60 Subpart J, 6-24-2008**]

[Devices subject to this condition : D1227, D1234, D1237, D1240]

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; RULE 481, 1-11-2002**]

[Devices subject to this condition : D1267, D1268, D1269]

H23.21 This equipment is subject to the applicable requirements of the following rules or regulations:

| Contaminant | Rule | Rule/Subpart |
|---|---|---|
| VOC | District Rule | 1176 |
| VOC | District Rule | 464 |

# FACILITY PERMIT TO OPERATE
# BP WEST COAST PROD.LLC BP CARSON REF.

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

**The operator shall comply with the terms and conditions set forth below:**

| | | |
|---|---|---|
| VOC | District Rule | 1123 |

[**RULE 1123, 12-7-1990; RULE 1176, 9-13-1996; RULE 464, 12-7-1990**]

[Devices subject to this condition : D992, D997, D1004, D1005, D1006, D1008, D1009, D1010, D1627, D1637, D2008, D2009, D2010, D2011, D2012, D2013, D2752, D2754, D2755, D2757, D2759, D2761, D2787]

H23.22 This equipment is subject to the applicable requirements of the following rules or regulations:

| Contaminant | Rule | Rule/Subpart |
|---|---|---|
| VOC | District Rule | 1176 |

[**RULE 1176, 9-13-1996**]

[Devices subject to this condition : D2600]

H23.23 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 : E2596]

H23.24 This equipment is subject to the applicable requirements of the following rules or regulations:

# FACILITY PERMIT TO OPERATE
# BP WEST COAST PROD.LLC BP CARSON REF.

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

**The operator shall comply with the terms and conditions set forth below:**

| Contaminant | Rule | Rule/Subpart |
|---|---|---|
| Refrigerants | District Rule | 1411 |

[RULE 1411, 3-1-1991]

[Devices subject to this condition : E2595]

H23.25 This equipment is subject to the applicable requirements of the following rules or regulations:

| Contaminant | Rule | Rule/Subpart |
|---|---|---|
| HAPs | 40CFR63, SUBPART | CC |
| VOC | District Rule | 463 |
| VOC | District Rule | 1178 |
| VOC | District Rule | 1149 |
| VOC | 40CFR60, SUBPART | Kb |

[RULE 1149, 5-2-2008; **RULE 1178, 4-7-2006; RULE 463, 5-6-2005; 40CFR 60 Subpart Kb, 10-15-2003; 40CFR 63 Subpart CC, 6-23-2003**]

[Devices subject to this condition : D1150, D1199]

H23.26 This equipment is subject to the applicable requirements of the following rules or regulations:

| Contaminant | Rule | Rule/Subpart |
|---|---|---|
| VOC | District Rule | 1176 |
| VOC | District Rule | 1123 |

# FACILITY PERMIT TO OPERATE
# BP WEST COAST PROD.LLC BP CARSON REF.

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

**The operator shall comply with the terms and conditions set forth below:**

[**RULE 1123, 12-7-1990; RULE 1176, 9-13-1996**]

[Devices subject to this condition : D2747, D2811]

H23.28 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 : D2790, D2791, D2792]

H23.29 This equipment is subject to the applicable requirements of the following rules or regulations:

| Contaminant | Rule | Rule/Subpart |
|---|---|---|
| SOX | District Rule | 1118 |

[**RULE 1118, 11-4-2005**]

[Devices subject to this condition : C1302, C1305, C1308, C1326]

H23.30 This equipment is subject to the applicable requirements of the following rules or regulations:

| Contaminant | Rule | Rule/Subpart |
|---|---|---|
| HAPs | 40CFR63, SUBPART | EEEE |

# FACILITY PERMIT TO OPERATE
# BP WEST COAST PROD.LLC BP CARSON REF.

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

**The operator shall comply with the terms and conditions set forth below:**

[**40CFR 63 Subpart EEEE, 7-28-2006**]

[Devices subject to this condition : D730, D1072, D1075, D1078, D1079, D1089, D1092, D1093, D1098, D1139, D1141, D1599]

H23.31 This equipment is subject to the applicable requirements of the following rules or regulations:

| Contaminant | Rule | Rule/Subpart |
|---|---|---|
| HAPs | 40CFR63, SUBPART | GGGGG |

[**40CFR 63 Subpart GGGGG, 11-29-2006**]

[Devices subject to this condition : D1103, D1111, D1120, D2885]

### J. Rule 461

J110.1 The operator shall use, except for diesel transfer, the phase II vapor recovery system in full operation whenever gasoline from this equipment is dispensed to motor vehicles as defined in Rule 461. This system shall be installed, operated and maintained to meet all CARB certification requirements.

[RULE 461, 3-7-2008]

[Devices subject to this condition : D1276]

J119.1 A CARB certified pressure/vacuum relief valve shall be installed on the tank vent stack and shall be set as specified in CARB order G-70-140

[RULE 461, 3-7-2008]

# FACILITY PERMIT TO OPERATE
# BP WEST COAST PROD.LLC BP CARSON REF.

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

**The operator shall comply with the terms and conditions set forth below:**

[Devices subject to this condition : D1277]

J373.1 The operator shall comply with the following gasoline transfer and dispensing requirements:

# FACILITY PERMIT TO OPERATE
# BP WEST COAST PROD.LLC BP CARSON REF.

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

**The operator shall comply with the terms and conditions set forth below:**

a). The Phase II vapor recovery systems shall be installed, operated, and maintained such that the maximum allowable pressure through the system including nozzle, vapor hose, swivels, and underground piping does not exceed the dynamic back pressures described by the California Air Resources Board (CARB) Executive Order by which the system was certified:

| Nitrogen Flowrates (CFH) | Dynamic Back Pressure (Inches of Water) |
|---|---|
| 20 | 0.15 |
| 40 | 0.16 |
| 60 | 0.35 |
| 80 | 0.62 |
| 100 | 0.95 |

As required by AQMD Rule 461 or CARB Executive Order, dynamic back pressure tests shall be conducted to determine the Phase II system vapor recovery back pressures. The tests shall be conducted in accordance with CARB Test Procedure Method TP-201.4. Results shall be submitted to the AQMD, Engineering and Compliance, within 48 hours of tests.

The AQMD shall be notified by e-mail at R461testing@aqmd.gov or by facsimile at telephone number (909) 396-3606 at least seventy two (72) hours prior to testing. Such notification shall include the name of the owner or operator; the name of the contractors; the location of the facility; and the scheduled start and completion dates of the dynamic back pressure test.

The test shall be conducted as frequently as that required by the most recent amendment to Rule 461 or CARB Executive Order requirements, whichever is more stringent.

b). At least once every year, a static pressure leak decay test shall be conducted to demonstrate that the storage tanks, the remote and/or nozzle vapor recovery check

# FACILITY PERMIT TO OPERATE
# BP WEST COAST PROD.LLC BP CARSON REF.

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

**The operator shall comply with the terms and conditions set forth below:**

valves, associated vapor return piping and fittings are free from vapor leaks. The test shall be conducted in accordance with CARB Test Procedure Method TP-201.3. Results shall be submitted to the AQMD, Engineering and Compliance, within thirty (30) days of the test.

The AQMD shall be notified by e-mail at R461testing@aqmd.gov or by facsimile at telephone number (909) 396-3606 at least twenty-four hours prior to testing. Such notification shall include the name of the owner or operator; the name of the contractors; the location of the facility; and the scheduled start and completion dates of the static pressure leak decay test.

c). If the CARB Executive Order requires the installation of a liquid removal device, a liquid removal rate test shall be conducted to demonstrate the removal of gasoline from the vapor passage of the coaxial hose. The test shall be conducted within thirty days of initial installation and in accordance with CARB test procedure Method TP-201.6. Results shall be submitted to the AQMD, Engineering and Compliance, within thirty (30) days of the test.

The AQMD shall be notified by e-mail at r461testing@aqmd.gov or by facsimile at telephone number (909) 396-3606 at least twenty-four hours prior to testing. Such notification shall include the name of the owner or operator; the name of the contractors; the location of the facility; and the scheduled start and completion dates of the liquid removal rate test.

The testing frequency for the above mentioned tests shall be conducted in accordance with the most recent AQMD Rule 461 amendment or CARB Executive Order requirements, whichever is more stringent.

[RULE 461, 3-7-2008]

[Devices subject to this condition : D1277]

**K. Record Keeping/Reporting**

# FACILITY PERMIT TO OPERATE
# BP WEST COAST PROD.LLC BP CARSON REF.

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

**The operator shall comply with the terms and conditions set forth below:**

K40.1 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.

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.

[**RULE 2011, 5-6-2005; RULE 2012, 5-6-2005**]

[Devices subject to this condition : C2413]

K40.3 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.

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.

Source test results shall also include fuel gas usage under which the test was conducted.

[**RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997; RULE 404, 2-7-1986; RULE 409, 8-7-1981**]

[Devices subject to this condition : D629]

K67.1 The operator shall keep records, in a manner approved by the District, for the following parameter(s) or item(s):

# FACILITY PERMIT TO OPERATE
# BP WEST COAST PROD.LLC BP CARSON REF.

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

**The operator shall comply with the terms and conditions set forth below:**

fuel rate consumed

heating value of the fuel gas (HHV)

[**RULE 1303(b)(2)-Offset, 5-10-1996**]

[Devices subject to this condition : D532, D535, D539, D541, D1439]

K67.2 The operator shall keep records, in a manner approved by the District, for the following parameter(s) or item(s):

Fuel heating value

Fuel rate

[**RULE 1303(b)(2)-Offset, 5-10-1996**]

[Devices subject to this condition : D27, D31, D63, D69, D151, D153, D155, D252, D416, D417, D418, D419, D421, D425, D629]

K67.3 The operator shall keep records, in a manner approved by the District, for the following parameter(s) or item(s):

Type and quantity of fuel usage, ammonia usage, actual and corrected outlet NOX emission concentration

[**RULE 1303(b)(2)-Offset, 5-10-1996**]

[Devices subject to this condition : D1226, D1233, D1236, D1239]

K67.4 The operator shall keep records, in a manner approved by the District, for the following parameter(s) or item(s):

# FACILITY PERMIT TO OPERATE
# BP WEST COAST PROD.LLC BP CARSON REF.

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

**The operator shall comply with the terms and conditions set forth below:**

The date of operation, the elapsed time in hours

[**RULE 1110.2, 2-1-2008; RULE 1304(a)-Modeling and Offset Exemption, 6-14-1996;** RULE 1470, 6-1-2007; **RULE 2012, 5-6-2005; RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997**]

[Devices subject to this condition : D2417, D2418]

K67.5 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 : D800, D801, D909, D1067, D1069, D1070, D1071, D1072, D1073, D1074, D1075, D1078, D1079, D1080, D1081, D1083, D1084, D1085, D1086, D1087, D1089, D1090, D1091, D1092, D1093, D1098, D1099, D1102, D1103, D1104, D1106, D1107, D1108, D1109, D1110, D1111, D1116, D1120, D1121, D1122, D1123, D1124, D1125, D1126, D1128, D1130, D1139, D1140, D1141, D1142, D1144, D1145, D1146, D1153, D1159, D1160, D1164, D1165, D1175, D1185, D1186, D1187, D1193, D2789]

K67.6 The operator shall keep records, in a manner approved by the District, for the following parameter(s) or item(s):

# FACILITY PERMIT TO OPERATE
# BP WEST COAST PROD.LLC BP CARSON REF.

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

**The operator shall comply with the terms and conditions set forth below:**

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 : E2598]

K67.8 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 results of the inspection

The date, time, and description of any maintenance or repairs resulting from the inspection

[**RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997; RULE 401, 3-2-1984;** RULE 401, 11-9-2001; **RULE 404, 2-7-1986**]

[Devices subject to this condition : C1329, C2151, C2928, C2931]

K67.10 The operator shall keep records, in a manner approved by the District, for the following parameter(s) or item(s):

# FACILITY PERMIT TO OPERATE
# BP WEST COAST PROD.LLC BP CARSON REF.

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

**The operator shall comply with the terms and conditions set forth below:**

The date, time, and description of any maintenance or repairs resulting from the inspection

The name of the person performing the inspection and/or maintenance of the water wash chamber

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; **RULE 404, 2-7-1986; RULE 481, 1-11-2002**]

[Devices subject to this condition : D1267]

K67.11 The operator shall keep records, in a manner approved by the District, for the following parameter(s) or item(s):

Catalyst replacement schedule, start of catalyst cycle, and start of normal operation.

Heater firing rate during the start of catalyst cycle.

Heater firing rate during normal operations- lower catalyst activity.

Daily emissions rate of ROG, CO and PM using Form R-2 of the Annual Emission Report.

[**RULE 1303(b)(2)-Offset, 5-10-1996**]

[Devices subject to this condition : D417, D418]

K67.12 The operator shall keep records, in a manner approved by the District, for the following parameter(s) or item(s):

# FACILITY PERMIT TO OPERATE
# BP WEST COAST PROD.LLC BP CARSON REF.

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

**The operator shall comply with the terms and conditions set forth below:**

Throughput and vapor pressure of stored liquid.

Hydrocarbon concentration measurements done in the vapor space above the floating roof of the tank.

Other records that may be required to comply with the applicable requirements of District Rules 463, 1149, 1178, and 40CFR63 Subpart CC.

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 1149, 5-2-2008; **RULE 1178, 4-7-2006; RULE 463, 5-6-2005; 40CFR 63 Subpart CC, 6-23-2003**]

[Devices subject to this condition : D1154, D1155, D1156, D1157, D1158, D1161, D1166, D1167, D1168, D1169, D1170, D1171, D1172, D1173, D1174, D1176, D1177, D1178, D1179, D1180, D1181, D1182, D1183, D1184, D1188, D1190, D1194, D1195, D1196, D2850]

K67.13 The operator shall keep records, in a manner approved by the District, for the following parameter(s) or item(s):

Tank throughput, in barrel per month, and vapor pressure, in psia, of the stored liquid.

[**RULE 1303(b)(2)-Offset, 5-10-1996; RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997**]

[Devices subject to this condition : D1105, D1143]

K67.14 The operator shall keep records, in a manner approved by the District, for the following parameter(s) or item(s):

Throughput, in barrels per hour

# FACILITY PERMIT TO OPERATE
# BP WEST COAST PROD.LLC BP CARSON REF.

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

**The operator shall comply with the terms and conditions set forth below:**

[RULE 402, 5-7-1976]

[Devices subject to this condition : D833]

K67.15 The operator shall keep records, in a manner approved by the District, for the following parameter(s) or item(s):

Throughput, in barrels per hour

Tank pressure in psig

[**RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(b)(2)-Offset, 5-10-1996**]

[Devices subject to this condition : D1113, D1114, D2728]

K67.16 The operator shall keep records, in a manner approved by the District, for the following parameter(s) or item(s):

Monitor and replacement of carbon canister

[**RULE 1303(a)(1)-BACT, 5-10-1996**]

[Devices subject to this condition : C1002, C1628, C1630, C1632, C1635, C1638, C1640, C2014, C2445, C2446, C2748, C2753, C2756, C2758, C2760, C2762, C2788, C2812, C2881, C2886]

K67.17 The operator shall keep records, in a manner approved by the District, for the following parameter(s) or item(s):

# FACILITY PERMIT TO OPERATE
# BP WEST COAST PROD.LLC BP CARSON REF.

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

**The operator shall comply with the terms and conditions set forth below:**

An engine operating log shall be kept and maintained on file to record when this engine is started manually. The log shall list the date of operation, the timer reading in hours at the beginning and end of operation, and the reason for operation. The total hours of operation (including hours for manual and automatic operation) shall be recorded sometime during the first 15 days of January of each year.

[**RULE 1110.2, 2-1-2008; RULE 1304(a)-Modeling and Offset Exemption, 6-14-1996;** RULE 1470, 6-1-2007; **RULE 2012, 5-6-2005; RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997**]

[Devices subject to this condition : D2859]

K67.20 The operator shall keep records, in a manner approved by the District, for the following parameter(s) or item(s):

Tank throughput in barrels per calendar month.

The operator shall operate and maintain an automatic tank level gauge (ATLG) and recorder to continuously measure and record the liquid surface level movement. The throughput, in barrels, shall be calculated using the following equation: 0.14 x D x D x 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 liquid surface level travel in feet per month. For the purpose of this condition, continuous recording is defined as once per hour.

Alternately, for tanks which do not have an ATLG device, the operator may use engineering calculations with parameters obtained from process records, shipping invoices, manual tank level gauging, etc to calculate throughput of the tank.

[**RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997**]

[Devices subject to this condition : D1098, D1104, D1115, D1117, D1127, D1134, D1135, D1136, D1141, D1142, D1144, D1147, D1148, D1162, D1163, D1180, D1184, D2153, D2612]

# FACILITY PERMIT TO OPERATE
# BP WEST COAST PROD.LLC BP CARSON REF.

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

**The operator shall comply with the terms and conditions set forth below:**

K67.21 The operator shall keep records, in a manner approved by the District, for the following parameter(s) or item(s):

The operator shall determine the true vapor pressure of each material stored in the equipment by one of the following methods: 1) sample and test the materials stored, 2) derive the vapor pressure using engineering calculations, or 3) maintain on file a copy of the Material Safety Data Sheet (MSDS) of the material stored.

Records of material stored, and their MSDS if applicable, shall be retained for a period of five years and made available to the Executive Officer upon request.

[**RULE 1303(b)(2)-Offset, 5-10-1996; RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997**]

[Devices subject to this condition : D80, D1000, D1001, D1069, D1070, D1071, D1072, D1084, D1085, D1090, D1091, D1103, D1104, D1111, D1115, D1117, D1119, D1120, D1122, D1128, D1130, D1140, D1147, D1148, D1162, D1163, D1164, D1193, D2612, D2789, D2850]

K67.22 The operator shall keep records, in a manner approved by the District, for the following parameter(s) or item(s):

# FACILITY PERMIT TO OPERATE
# BP WEST COAST PROD.LLC BP CARSON REF.

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

**The operator shall comply with the terms and conditions set forth below:**

The operator shall keep a log of engine operations, documenting the total time the engine is operated each month and the specific reason for operation as:

A. Emergency Use

B. Maintenance and Testing

C. Other (be specific)

In addition, for each time the engine is manually started, the log shall include the date of engine operation, the specific reason for operation, and the totalizing hour meter readings (in hours and tenths of hours) at the beginning and end of the operation. Engine operation log(s) shall be retained on site for a minimum of five (5) calendar years and shall be made available to District personnel upon request. On or before January 15th of each year, the operator shall record in the engine operating log:

A. The total hours of engine operation for the previous calendar year, and

B. The total hours of engine operation for maintenance and testing for the previous calendar year.

[**RULE 1304(a)-Modeling and Offset Exemption, 6-14-1996;** RULE 1470, 6-1-2007; **RULE 2012, 5-6-2005**]

[Devices subject to this condition : D1997, D1998, D2416, D2776]

K67.26 The operator shall keep records, in a manner approved by the District, for the following parameter(s) or item(s):

Date and time of the start and end of a FCCU refractory "dry-out" period as defined by condition E71.24, fuel usage and firing rate in MMBtu/hr of the heater during this period.

[**RULE 2012, 5-6-2005**]

# FACILITY PERMIT TO OPERATE
# BP WEST COAST PROD.LLC BP CARSON REF.

## SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

**The operator shall comply with the terms and conditions set forth below:**

[Devices subject to this condition : D2837]

K171.1 The operator shall provide to the District the following items:

Final drawings and/or specifications of the geodesic dome cover to be installed/constructed shall be submitted to the District within 30 days prior to its construction.

[**RULE 1303(b)(2)-Offset, 5-10-1996; RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997**]

[Devices subject to this condition : D1179, D1182, D2850]

K171.2 The operator shall provide to the District the following items:

Final drawings and/or specifications of floating roof seals and deck fittings upgrade shall be submitted to the District within 30 days after its construction.

[**RULE 1178, 4-7-2006**]

[Devices subject to this condition : D1164, D1193]