

**FACILITY PERMIT TO OPERATE
BP WEST COAST PRODUCTS LLC, CARSON PRODUCTS TERMINAL
DRAFT PERMIT TO CONSTRUCT**

**Permit No.: TBD
A/N 544780**

Equipment Description:

MODIFICATION OF AIR POLLUTION CONTROL SYSTEM (OPERATING UNDER A/N 419716; P/O R-F65483), SERVING A TWO RACK GASOLINE BULK LOADING FACILITY, AND CONSISTING OF THE FOLLOWING:

- A. VAPOR COLLECTION SYSTEM:
 - 1. VAPOR HOLDING TANK, BLADDER TYPE, 28' DIA. X 32' H., 16,000 CUBIC FEET CAPACITY, WITH AN AUTOMATIC LEVEL GAUGE, A BLADDER PRESSURE RELIEF VALVE, A PRESSURE RELIEF VALVE LEL VAPOR DETECTOR, AND A SHELL VENT LEL VAPOR DETECTOR.
- B. VAPOR RECOVERY SYSTEM:
 - 1. REFRIGERATION CONDENSER, EDWARDS ENGINEERING, MODEL MODIFIED DE4000, 26.2 TONS CAPACITY, WITH UPPER COIL COMPRESSOR, CARRIER, MODEL 5H80, 50 HP. LOWER COIL COMPRESSOR, CARRIER, MODEL 5H60, 50 HP. VAPOR CONDENSER, 8'-9" L. X 8'-4" W. X 17'-3" H., PRECOOLER COMPRESSOR, 10 HP.
 - 2. CONDENSATE PUMP, SUBMERSIBLE, 1-1/2 HP.
- C. VAPOR **DISPOSAL** SYSTEM:
 - 1. **THERMAL OXIDIZER (ENCLOSED FLARE TYPE)**, JOHN ZINK, MODEL ZTOF, 8' DIA. X 35' H., WITH A SINGLE STAGE BURNER, 42 MMBUT/HR, 500 SCFM CAPACITY, AND AN AIR ASSISTED BLOWER. BL-2, 2 HP.
 - 2. BOOSTER BLOWER. BL-1, 7.5 HP., 500 CFM.
 - 3. DETONATION FLAME ARRESTOR.

BY THE PERMANENT BYPASS/REMOVAL OF:

- B. VAPOR RECOVERY SYSTEM:
 - 1. **REFRIGERATION CONDENSER, EDWARDS ENGINEERING, MODEL MODIFIED DE4000, 26.2 TONS CAPACITY, WITH UPPER COIL COMPRESSOR, CARRIER, MODEL 5H80, 50 HP. LOWER COIL COMPRESSOR, CARRIER, MODEL 5H60, 50 HP. VAPOR CONDENSER, 8'-9" L. X 8'-4" W. X 17'-3" H., PRECOOLER COMPRESSOR, 10 HP.**
 - 2. **CONDENSATE PUMP, SUBMERSIBLE, 1-1/2 HP.**

Conditions:

- 1) OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]

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- 2) THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
- 3) A DAILY OPERATING LOG FOR THIS EQUIPMENT SHALL BE MAINTAINED AND MADE AVAILABLE TO AQMD PERSONNEL UPON REQUEST.
[RULE 462]
- 4) THE ORGANIC LIQUID LOADING FACILITY SERVED BY THIS AIR POLLUTION CONTROL SYSTEM SHALL NOT BE OPERATED UNLESS THE DISPLACED VAPORS FROM THE LOADING TRUCKS ARE VENTED TO THE VAPOR HOLDER. ALL VAPORS FROM THE VAPOR HOLDER SHALL BE VENTED TO THE **THERMAL OXIDIZER**. THE VAPORS SHALL NOT **BE** RELEASED FROM THE VAPOR HOLDER UNLESS THE **THERMAL OXIDIZER** IS IN FULL USE AND OPERATING ACCORDING TO PERMIT CONDITIONS.
[RULE 1303(a)(1) BACT]
- 5) THE LOADING RATE AT THE LOADING FACILITY SERVED BY THIS AIR POLLUTION CONTROL SYSTEM SHALL NOT EXCEED 2,000,000 GALLONS PER DAY OF GASOLINE AND 700,000,000 GALLONS PER YEAR. THE THROUGHPUT SHALL BE MONITORED BY AN AUTOMATED SYSTEM DESIGNED TO SHUT DOWN THE LOADING OPERATION SO THAT THE LOADING RATE LIMIT IS NOT EXCEEDED.
[RULE 1303(b)(2) OFFSETS]
- 6) ALL PRESSURE RELIEF VALVES, EXCEPT THE BLADDER PRESSURE RELIEF VALVE, IN THIS AIR POLLUTION CONTROL SYSTEM SHALL HAVE A RELIEF PRESSURE ABOVE 18 INCHES OF WATER. THE BLADDER PRESSURE RELIEF VALVE SHALL HAVE A MINIMUM RELIEF PRESSURE OF 3 INCHES OF WATER. ALL PRESSURE RELIEF VALVES SHALL BE TAGGED AND ACCESSIBLE FOR INSPECTION.
[RULE 1303(a)(1) BACT]
- 7) THE LEL VAPOR DETECTORS, INSTALLED TO DETECT LEAKAGE OF THE BLADDER, THE ALARM SYSTEM AND VAPOR HOLDER SHALL BE INSPECTED MONTHLY TO ENSURE THEIR PROPER FUNCTION.
[RULE 1303(a)(1) BACT]
- 8) ALL PRESSURE RELIEF DEVICES, PUMPS, COMPRESSORS, VALVES, INSTRUMENTATION AND COMPONENTS AS DEFINED IN RULE 1173 SHALL COMPLY WITH THIS RULE.
[RULE 1303(a)(1) BACT, 1991 SETTLEMENT AGREEMENT]
- 9) **WITHIN 30 DAYS OF THE MODIFICATION OF THE AIR POLLUTION CONTROL SYSTEM, THE OPERATOR SHALL SUBMIT TO THE CALIFORNIA AIR RESOURCES BOARD (CARB) A WRITTEN REQUEST FOR CERTIFICATION OF THE MODIFIED AIR POLLUTION CONTROL SYSTEM.**
[RULE 462]

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- 10) **NO LATER THAN 180 DAYS AFTER MODIFICATION OF THE AIR POLLUTION CONTROL SYSTEM, THE MODIFIED AIR POLLUTION CONTROL SYSTEM SHALL BE CARB-CERTIFIED AND SHALL BE TESTED TO DEMONSTRATE COMPLIANCE WITH RULE 462. A RULE 462 SOURCE TEST PROTOCOL SHALL BE SUBMITTED NOT LESS THAN 60 DAYS PRIOR TO TESTING. PREVIOUSLY APPROVED PROTOCOLS MAY BE USED IF AQMD CONCURS SUCH PROTOCOLS ARE STILL VALID. SOURCE TEST REPORTS FOR BOTH THE CARB CERTIFICATION AND RULE 462 TESTING SHALL BE SUBMITTED TO THE AQMD NOT LATER THAN 120 DAYS AFTER EACH TEST.**
[RULE 462]

Periodic Monitoring:

- 11) THE THERMAL OXIDIZER SHALL BE OPERATED WITH THE MINIMUM OF 400 DEGREES OF FAHRENHEIT AND THE TEMPERATURE SHALL BE CONTINUOUSLY RECORDED. THE TEMPERATURE MEASURING DEVICE SHALL BE ACCURATE TO WITHIN PLUS OR MINUS 1 PERCENT OF THE ACTUAL VALUE MEASURED OR 4 DEGREES FAHRENHEIT WHICHEVER IS GREATER. THE MEASURING DEVICE SHALL BE INSTALLED IN THE FIREBOX OR DUCTWORK JUST DOWNSTREAM FROM THE FIREBOX AND BE CALIBRATED AT LEAST ONCE EVERY 12 MONTHS.
[RULE 1303(a)(1) BACT, RULE 3004(a)(4) PERIODIC MONITORING]
- 12) THE OPERATOR SHALL CONDUCT SOURCE TEST(S) TO DETERMINE THE FOLLOWING:
- A. TOTAL VOC EMISSION RATE IN POUNDS VOC PER 1000 GALLONS GASOLINE LOADED UNDER ROUTINE LOADING CONDITIONS. THE TOTAL QUANTITY OF GASOLINE LOADED AT EACH RACK DURING THE TEST SHALL BE MEASURED AND RECORDED.
 - B. CARBON MONOXIDE (CO) EMISSION CONCENTRATION (PPMV) IN THE OXIDIZER EXHAUST.

THE TEST SHALL BE CONDUCTED AT LEAST ONCE EVERY **60 CALENDAR MONTHS.**
[RULE 462, RULE 3004(a)(4) PERIODIC MONITORING]

Emissions and Requirements:

- 13) THIS EQUIPMENT SHALL BE SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:
- VOC: .08LB/1000 GALLONS OF ORGANIC LIQUID LOADED RULE 462
 - VOC: RULE 1149
 - CO: 2000 PPMV, RULE 407
 - PM: 0.1 GRAINS/SCF, RULE 409
 - PM: RULE 404 (SEE APPENDIX B FOR EMISSION LIMITS)