

**FACILITY PERMIT TO OPERATE  
EQUILON ENTER. LLC, SHELL OIL PROD. U S**

**PERMIT TO CONSTRUCT/OPERATE**

**Permit No  
A/N 505267**

VAPOR RECOVERY SYSTEM, JOHN ZINK, MODEL NO. AA609-4-1313, CAPACITY 180 CFM, OPERATING AS A HIGH EFFICIENCY ADSORPTION/ABSORPTION (HEAA) SYSTEM, CONSISTING OF THE FOLLOWING:

1. TWO CARBON ADSORBERS, EACH 5'-0" DIA. X 13'-0" H.
2. GASOLINE ABSORBER TOWER, 2'-6" DIA. X 12'-0" H.
3. SEAL FLUID SEPARATOR, 4'-0" DIA. X 10'-0" L.
4. VACUUM PUMP, WITH A 75 HP MOTOR, WITH A BACKUP
5. VACUUM BOOSTER, WITH A 50 HP MOTOR
6. GASOLINE SUPPLY PUMP, CENTRIFUGAL
7. GASOLINE RETURN PUMP, CENTRIFUGAL
8. SEAL FLUID CIRCULATION PUMP, CENTRIFUGAL
9. SEAL FLUID HEAT EXCHANGER
10. BLOWER, CENTRIFUGAL, WITH A BACKUP
11. VAPOR HOLDER, 30,000 CUBIC FEET CAPACITY, 68'-0" DIA. X 24'-0" H., SERVING TWO GASOLINE LOADING RACKS AND TWO WASH WATER STORAGE TANKS.
12. VAPOR HOLDER BYPASS.

**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]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.  
[RULE 204]

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3. THE OPERATOR SHALL LIMIT THE FLOW RATE OF THE VENT GAS TO THE CARBON ADSORBER TO NO MORE THAN 180 STANDARD CUBIC FEET PER MINUTE (1-HOUR AVERAGE). THE TOTAL VOLUME OF VAPORS VENTING TO THE CARBON ADSORBERS SHALL NOT EXCEED 152,588 CUBIC FEET PER DAY. TO COMPLY WITH THIS CONDITION, THE OPERATOR SHALL INSTALL, MAINTAIN AND OPERATE A FLOW METER TO MONITOR AND RECORD THE FLOW RATE OF THE GASES SENT TO THE CARBON ADSORBER AT LEAST ONCE EVERY MINUTE, IN ADDITION A DAILY TOTAL OF VAPORS VENTED TO THE ADSORBERS SHOULD ALSO BE KEPT.  
[RULE 1303(b)(2)-OFFSETS]
4. THE VOC EMISSIONS FROM THIS LOADING FACILITY SHALL NOT EXCEED 0.08 LBS PER 1000 GALLONS OF GASOLINE LOADED.  
[RULE 462]
5. THE FACILITY SHALL INSTALL AND MAINTAIN A CONTINUOUS MONITORING SYSTEM (CMS) IN COMPLIANCE WITH A DISTRICT APPROVED RULE 462 COMPLIANCE PLAN.  
[RULE 462]
6. A CONTINUOUS HYDROCARBON MONITORING SYSTEM SHALL BE IN FULL USE AT ALL TIMES AND SHALL ALERT THE OPERATOR BOTH AUDIBLY AND VISUALLY TO STOP VENTING TO THE AIR POLLUTION CONTROL SYSTEM WHEN THE HYDROCARBON CONCENTRATION IN THE AIR POLLUTION CONTROL EXHAUST IS IN EXCESS OF PERMITTED LIMIT(S).  
[RULE 462]
7. THE NONMETHANE HYDROCARBON (NMHC) CONCENTRATION AT THE EXHAUST OF THE AIR POLLUTION CONTROL SYSTEM SHALL NOT EXCEED 1.0% MEASURED AS PROPANE ON AN INSTANTANEOUS BASIS, OR 0.66%, MEASURED AS PROPANE BASED ON A ROLLING 15 MINUTE AVERAGE. UPON MEASUREMENT OF THE NMHC CONCENTRATION EXCEEDING ANY ONE OF THESE LIMITS, VENTING OF VAPORS TO THE CARBON ADSORBERS SHALL CEASE FOR AT LEAST A PERIOD EQUAL TO ONE COMPLETE CLEANING CYCLE OF BOTH CARBON ADSORBERS (30 MINUTES ON A 15 MINUTE CYCLE TIME).  
  
VENTING TO THE CARBON ADSORBERS SHALL NOT RESUME UNTIL THE NMHC CONCENTRATION AT THE EXHAUST IS BELOW BOTH LIMITS.  
[RULE 462]
8. THROUGHPUT RECORDS AND CMS DATA INCLUDING, BUT NOT LIMITED TO, CALIBRATION LOG, TROUBLESHOOTING LOG, ETC. SHALL BE MAINTAINED FOR A PERIOD OF FIVE YEARS AND MADE AVAILABLE UPON REQUEST BY AQMD PERSONNEL.  
[RULE 462]
9. THE VAPOR HOLDER MAY BE BYPASSED DURING PERIODS OF MAINTANANCE, REPAIR, BREAKDOWN, OR OTHER TIMES DETERMINED APPROPRIATE BY THE PERMITTEE. VOC EMISSIONS SHALL NOT EXCEED 0.08 POUNDS PER 1,000 GALLONS OF ORCANIC LIQUID LOADED WHILE THE BLADDER TANK IS BYPASSED. THE OPERATOR SHALL KEEP RECORDS OF THE DATES AND DURATIONS WHEN THE BLADDER IS INOPERABLE AND THE VAPOR RECOVERY SYSTEM IS IN BYPASS MODE.

[RULE 1303(a)(1)-BACT, RULE 1303(b)(2) - OFFSET]

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10. WITHIN 30 CALENDAR DAYS AFTER COMPLETING CONSTRUCTION OF THE VAPOR HOLDER BYPASS MODIFICATION, A WRITTEN REQUEST SHALL BE SUBMITTED TO THE CALIFORNIA AIR RESOURCES BOARD (CARB) FOR CERTIFICATION OF THE MODIFIED VAPOR RECOVERY SYSTEM.

[RULE 462]

11. THIS PERMIT SHALL EXPIRE IF CONSTRUCTION OF THIS EQUIPMENT IS NOT COMPLETE WITHIN ONE YEAR FROM THE DATE OF ISSUANCE OF THIS PERMIT UNLESS AN EXTENSION IS GRANTED BY THE EXECUTIVE OFFICER.

[RULE 204]

### Periodic Monitoring:

12. THE OPERATOR SHALL CONDUCT SOURCE TEST(S), WHEN THE SYSTEM IS NORMAL MODE, IN ACCORDANCE WITH THE FOLLOWING SPECIFICATIONS:

THE TEST SHALL BE CONDUCTED AT LEAST ONCE EVERY THREE YEARS.

THE TEST SHALL BE CONDUCTED TO DETERMINE THE BULK LOADING RATE IN GALLONS PER HOUR DURING THE SOURCE TEST.

THE TEST SHALL BE CONDUCTED TO DETERMINE THE TOTAL VOC EMISSION RATE IN POUNDS PER 1000 GALLONS OF ORGANIC LIQUID LOADED AND IN MILLIGRAMS PER LITER OF ORGANIC LIQUID LOADED.

[RULE 1303(a)(1) - BACT, RULE 3004(a)(4) - PERIODIC MONITORING]

### Emissions and Requirements

13. VOC: 0.08 LBS/1000 GAL, RULE 462  
TOC/VOC: 35 MGAL 40 CFR 60 SUBPART XX