

FACILITY PERMIT TO CONSTRUCT CHEVRON USA INC

PERMIT TO CONSTRUCT

Granted as of TBD

A/N 513959

Equipment Description:

MODIFICATION OF THE VAPOR RECOVERY AND TREATMENT SYSTEM BY THE REMOVAL OF ALL COMPONENTS OF AIR POLLUTION CONTROL SYSTEM A (A/N R475535) AND AIR POLLUTION CONTROL SYSTEM B (A/N R-475536) WITH THE EXCEPTION OF:

1. CHILLER, CARRIER MODEL 30RB-120 OR EQUIVALENT, 120 TON CAPACITY.
2. CHILLER, HEAT EXCHANGER, TRANTER MODEL SM -22-H-06-US-218 OR EQUIVALENT, SHELL AND PLATE TYPE.
3. VAPOR HOLDER C, WITH EXPANDABLE BLADDER, 60' DIA. X 48' H., 126,000 CUBIC FEET CAPACITY.
4. SUMP PUMP C, SUBMERSIBLE, 55 GPM CAPACITY, 1.5 HP.
5. VAPOR DROP-OUT TANK 91, 1000 GALLON CAPACITY, 4'-0" DIA. X 12'-0"L.
6. VAPOR DROP-OUT PUMP, SUBMERSIBLE, TWO STAGE, 5 HP.
7. SUMP TANK T-92, 10,000 GALLON CAPACITY, 7'-6" DIA. X 30'-0"L.
8. SUMP PUMP P-92, SUBMERSIBLE, 5 HP.

AND THE ADDITION OF:

1. TWO CARBON ADSORPTION VESSELS, 11' DIA., EACH VESSEL CONTAINING AT LEAST 17,500 POUNDS OF PELLETIZED ACTIVATED CARBON IN A CARBON BED 8' DEEP.
2. TWO VAPOR BLOWERS, VARIABLE FREQUENCY DRIVE, EACH BLOWER 10 HP, FEEDING A 10 INCH DIA. VAPOR RECOVERY LINE.
3. THREE DRY RING VACUUM PUMPS, EACH PUMP 100 HP.
4. ONE GASOLINE ABSORBING TOWER WITH GASOLINE ABSORBENT.
5. TWO ABSORBENT SUPPLY PUMPS, 20 HP, ONE IN SERVICE, ONE FOR BACKUP.
6. TWO CONDENSATE RETURN PUMPS, 20 HP, ONE IN SERVICE, ONE FOR BACKUP.

FACILITY PERMIT TO CONSTRUCT CHEVRON USA INC

Conditions:

- 1) OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN COMPLIANCE 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]
- 3) THE DISPLACED VAPORS FROM TANKER TRUCK LOADING AND FIXED ROOF STORAGE TANK BREATHING AND FILLING OPERATIONS SHALL BE VENTED TO THE ADSORPTION/ABSORPTION VAPOR RECOVERY UNIT, PERMITTED UNDER A/N 513959.
[RULE 462, RULE 463, 40CFR 60 SUBPART XX]
- 4) THE LOADING RATE AT THIS FACILITY SHALL NOT EXCEED 3,303,109 GALLONS PER DAY. THROUGHPUT SHALL BE MONITORED AND RECORDED BY AN AUTOMATED SYSTEM WITH INTERLOCKS THAT AUTOMATICALLY SHUT DOWN THE LOADING OPERATION WHEN THE LOADING RATE LIMIT IS REACHED.
[RULE 1303(b)(2) OFFSETS]
- 5) THE FOLLOWING REQUIREMENTS SHALL APPLY TO VOC SERVICE FUGITIVE COMPONENTS ASSOCIATED WITH DEVICES COVERED BY THIS APPLICATION.
 - A. ALL NEW FUGITIVE COMPONENTS IN VOC SERVICE, EXCEPT VALVES AND FLANGES SHALL BE INSPECTED QUARTERLY USING EPA REFERENCE METHOD 21. ALL NEW VALVES AND FLANGES IN VOC SERVICE SHALL BE INSPECTED MONTHLY USING EPA METHOD 21.
 - B. FOR ALL NEW FUGITIVE COMPONENTS IN VOC SERVICE, ANY LEAK GREATER THAN 500 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 VALVE, DIAPHRAGM, HATCH, SIGHT-GLASS, AND METER.
 - C. IF 98.0 PERCENT OR MORE OF THE NEW FLANGES AND (NON-BELLOWS-SEALED) VALVES ARE FOUND TO LEAK GASEOUS OR LIQUID VOLATILE ORGANIC COMPOUNDS AT A RATE LOWER THAN 500 PPM FOR TWO CONSECUTIVE MONTHS, THEN THE OPERATOR MAY REVERT TO A QUARTERLY INSPECTION PROGRAM WITH THE APPROVAL OF THE DISTRICT.
 - D. THE OPERATOR SHALL KEEP RECORDS OF THE MONTHLY INSPECTION (AND QUARTERLY, WHERE APPLICABLE), SUBSEQUENT REPAIR, AND REINSPECTION, IN A MANNER APPROVED BY THE DISTRICT.
[RULE 1303(a)(1) BACT]

FACILITY PERMIT TO CONSTRUCT CHEVRON USA INC

- 6) THE OPERATOR SHALL CONDUCT SOURCE TEST(S) TO DEMONSTRATE COMPLIANCE WITH THE REQUIREMENTS OF DISTRICT RULES AS FOLLOWS:
- A. WITHIN 30 DAYS AFTER CONSTRUCTION IS COMPLETED A WRITTEN REQUEST SHALL BE SUBMITTED TO CARB FOR CERTIFICATION OF THE VAPOR RECOVERY SYSTEM.
 - B. A TEST SHALL BE CONDUCTED TO DETERMINE THE VOC EMISSION RATE IN POUNDS PER 1,000 GALLONS LOADED.
 - C. A TEST SHALL BE CONDUCTED TO DEMONSTRATE THE CONTROL EFFICIENCY OF THE VAPOR RECOVERY SYSTEM FOR STORAGE TANK EMISSIONS.
 - D. A TEST SHALL BE CONDUCTED TO DEMONSTRATE THAT TRUCK LOADING EMISSIONS DO NOT EXCEED 0.04 POUNDS OF VOLATILE ORGANIC COMPOUNDS (VOC) PER 1000 GALLONS LOADED.
 - D. A TEST SHALL BE CONDUCTED TO DETERMINE THE BULK LOADING RATE IN GALLONS PER HOUR DURING THE SOURCE TEST.
 - F. A TEST SHALL BE CONDUCTED TO DETERMINE THE BACK PRESSURE OF THE VAPOR RECOVERY SYSTEM WHILE ALL LOADING RACKS ARE OPERATING SIMULTANEOUSLY. THE MEASUREMENT IS TO BE TAKEN AT THE TANK TRUCK WHILE LOADING.
 - G. THE TEST(S) SHALL BE CONDUCTED NO LATER THAN 180 DAYS AFTER INITIAL STARTUP.
 - H. THE OPERATOR SHALL SUBMIT THE SOURCE TEST(S) PROTOCOL(S) AND OBTAIN AQMD REVIEW AND APPROVAL OF SAID PROTOCOL(S) PRIOR TO CONDUCTION THE SOURCE TEST.
 - I. THE DISTRICT SHALL BE NOTIFIED OF THE DATE AND TIME OF THE TEST(S) AT LEAST 10 DAYS PRIOR TO THE TEST.
 - J. SOURCE TEST RESULTS SHALL BE SUBMITTED TO THE DISTRICT NO LATER THAN 60 DAYS AFTER THE SOURCE TEST IS CONDUCTED.
[RULE 462, RULE 463, 1303(a)(1) BACT]
- 7) THE OPERATOR SHALL INSTALL AND MAINTAIN A CONTINUOUS EMISSIONS MONITORING DEVICE TO ACCURATELY INDICATE THE VOLATILE ORGANIC COMPOUND (VOC) CONCENTRATION AT THE OUTLET OF THE CARBON ADSORBERS IN PPMV. THE EMISSIONS MONITORING DEVICE SHALL BE CALIBRATED DAILY.
[RULE 462, RULE 1303(a)(1) BACT]
- 8) WITHIN 180 DAYS OF INITIAL OPERATION OF THE CONTINUOUS EMISSIONS MONITORING DEVICE, THE OPERATOR SHALL SUBMIT A CONTINUOUS MONITORING SYSTEM (CMS) PLAN TO THE DISTRICT FOR APPROVAL.
[RULE 462]

FACILITY PERMIT TO CONSTRUCT CHEVRON USA INC

- 9) A TABLE OR GRAPH SHALL BE DEVELOPED TO CORRELATE THE HYDROCARBON MONITOR CONCENTRATION READINGS IN PERCENT (%) OR PARTS PER MILLION BY VOLUME (PPMV) WITH THE EMISSIONS RATE IN LBS PER 1000 GALLONS LOADED.
[RULE 462]
- 10) WHEN THE HYDROCARBON (HC) MONITORING SYSTEM MEASURES A VOLATILE ORGANIC COMPOUND (VOC) CONCENTRATION THAT APPROACHES THE PPMV OR PERCENT (%) CONCENTRATION EQUIVALENT TO 0.04 POUNDS PER 1000 GALLONS LOADED (SEE CONDITION NO. 9), THE SYSTEM SHALL AUTOMATICALLY:
- A. ALERT THE OPERATOR BOTH AUDIBLY AND VISUALLY TO PREVENT HYDROCARBON BREAKTHROUGH.
 - B. SHUT OFF OR REDUCE THE RATE OF LOADING RACK AND/OR TANK FILLING VAPORS TO THE VAPOR RECOVERY SYSTEM UNTIL THE VOC CONCENTRATION DROPS BELOW THE EQUIVALENT OF 0.04 POUNDS PER 1000 GALLONS LOADED.
 - C. SHUT DOWN LOADING RACK OPERATIONS AND NOTIFY THE CONTROL ROOM TO SUSPEND TANK FILLING PERMISSIVES.
[RULE 462, RULE 1303(a)(1)BACT]
- 11) THROUGHPUT RECORDS AND OTHER RECORDS REQUIRED BY THIS PERMIT SHALL BE MAINTAINED FOR A FIVE YEAR PERIOD AND MADE AVAILABLE TO THE DISTRICT UPON REQUEST.
[RULE 204, RULE 462]
- 12) WITHIN 30 DAYS FROM INITIAL START-UP OF THE ADSORPTION/ABSORPTION VAPOR RECOVERY UNIT, ALL COMPONENTS OF THE AIR POLLUTION CONTROL SYSTEMS CURRENTLY OPERATING UNDER PERMITS NOS. F4142 (A/N 293483, AND F4143, A/N293484) AND NOT INCLUDED IN THE ADSORPTION/ABSORPTION VAPOR RECOVERY UNIT DESCRIPTION, SHALL BE TAKEN OUT OF SERVICE AND RENDERED INOPERABLE.
[RULE 204, RULE 1303(b)(2) OFFSETS]

Periodic Monitoring:

- 13) THE OPERATOR SHALL CONDUCT SOURCE TEST(S) IN ACCORDANCE WITH THE FOLLOWING SPECIFICATIONS:
- A. THE TEST SHALL BE CONDUCTED TO DETERMINE THE BULK LOADING RATE IN GALLONS PER HOUR DURING THE SOURCE TEST.
 - B. THE TEST SHALL BE CONDUCTED TO DETERMINE THE VOC EMISSION RATE IN POUNDS PER 1000 GALLONS OF ORGANIC LIQUIDS LOADED.
 - C. THE TEST SHALL BE CONDUCTED PERIODICALLY AT 3 YEAR INTERVALS.
[RULE 1303(a)(1) BACT, RULE 3004(a)(4) PERIODIC MONITORING]

Emissions and Requirements:

FACILITY PERMIT TO CONSTRUCT CHEVRON USA INC

- 14) THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

VOC: 99.9% EFFICIENCY, 1303(a)(1) BACT

VOC: 0.04LB/1000 GALLONS OF ORGANIC LIQUID LOADED, 1303(a)(1) BACT

VOC:0.08 LB/1000 GALLONS ORGANIC LIQUID LOADED, RULE 462

VOC:35 MG/L, 40CFR60 SUBPART XX

VOC: 95% EFFICIENCY, RULE 463