

PERMIT TO OPERATE

Permit No. TBD
A/N 518141

Equipment Description:

VAPOR RECOVERY SYSTEM, JOHN ZINK, MODEL AAT/Z-1218-8-12-8-5-NASH, CONSISTING OF:

1. TWO CARBON ADSORBERS, EACH 9'-0" DIA. X 15'-0" H., OPERATING AT 15 MINUTE CYCLES.
2. ADSORBER, PACKED TOWER, 3'-0" DIA. X 10'-0" H.
3. VESSEL, GLYCOL SEPARATOR, 4'-0" DIA. X 10'-0" H.
4. HEAT EXCHANGER, GLYCOL EXCHANGER/FLUID COOLER
5. BLOWER, VAPOR COLLECTOR, WITH A 10-HP MOTOR (846 ACFM)
6. TWO VACUUM PUMPS, EACH WITH A 75-HP MOTOR
7. PUMP, GLYCOL RECIRCULATION, WITH A 2-HP MOTOR
8. TWO GASOLINE SUPPLY PUMPS, EACH WITH A 25-HP MOTOR (280 GPM CAPACITY)
9. GASOLINE RECIRCULATION PUMP, WITH A 10-H.P. MOTOR.

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]
3. UPON MEASUREMENT OF NMHC CONCENTRATION EXCEEDING THE LIMITS OF EITHER CONDITIONS 7 OR 8, VENTING OF THE VAPORS FROM THE LOADING RACKS TO THE VAPOR RECOVERY UNIT SHALL CEASE FOR A PERIOD EQUAL TO ONE COMPLETE CLEANING CYCLE OF BOTH THE CARBON CANISTERS (I.E. 30 MINUTES ON A 15 MINUTE CYCLE TIME.)
[RULE 1303(b)(2)-OFFSETS]
4. THE FOLLOWING BACT REQUIREMENTS SHALL APPLY TO VOC SERVICE FUGITIVE COMPONENTS ASSOCIATED WITH THE DEVICES THAT ARE COVERED BY THIS APPLICATION.

ALL NON-BELLOWS SEAL VALVES SHALL BE INSPECTED MONTHLY USING EPA METHOD 21. THE OPERATOR MAY BEGIN QUARTERLY INSPECTIONS, UPON DISTRICT APPROVAL, AFTER TWO CONSECUTIVE MONTHLY INSPECTIONS IN WHICH ONLY TWO PERCENT OR LESS OF NON-BELLOWS SEAL VALVES ARE FOUND TO BE LEAKING ABOVE 500 PPMV.

IN THE EVENT OF A QUARTERLY INSPECTION OF THE AFFECTED POPULATION OF FUGITIVE COMPONENTS IS FOUND TO BE MORE THAN TWO PERCENT LEAKING GASEOUS OR LIQUID VOLATILE ORGANIC COMPOUNDS AT A RATE ABOVE 500 PPMV, THEN SUCH QUARTERLY INSPECTIONS SHALL REVERT TO MONTHLY INSPECTIONS UNTIL SUCH TIME THAT IT CAN BE JUSTIFIED FOR QUARTERLY INSPECTIONS AGAIN.

ALL VALVES AND NEW MAJOR COMPONENTS SHALL BE PHYSICALLY IDENTIFIED IN THE FIELD WITH SPECIAL MARKINGS THAT DISTINGUISH THE COMPONENTS FROM NON-BACT

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COMPONENTS. ADDITIONALLY, ALL NEW COMPONENTS SHALL BE IDENTIFIED AS BACT COMPONENTS IN THE RECORDS.

THE LEAK RATE FROM NON-BELLOWS SEAL VALVES AND OTHER NON-VALVE FUGITIVE COMPONENTS SHALL NOT EXCEED 500 PPMV. A LEAK RATE GREATER THAN 500 PPMV, BUT LESS THAN OR EQUAL TO 1,000 PPMV, SHALL BE REPAIRED WITHIN 14 CALENDAR DAYS AFTER DETECTION OF THE LEAK.

ALL VALVES SHALL BE BELLOW SEAL VALVES, EXCEPT AS APPROVED BY THE DISTRICT, IN THE FOLLOWING APPLICATIONS: HEAVY LIQUID SERVICE, CONTROL VALVES, INSTRUMENT PIPING/TUBING, APPLICATIONS REQUIRING TORSIONAL VALVE STEM MOTION, SITUATIONS WHERE VALVE FAILURE COULD POSE SAFETY HAZARD (E.G. DRAIN VALVES WITH VALVE STEM IN HORIZONTAL POSITION), RETROFIT/SPECIAL APPLICATION VALVES WITH SPACE LIMITATIONS, AND VALVES NOT COMMERCIALY AVAILABLE. ADDITIONAL EXCEPTIONS ARE STATED IN DISTRICT RULE 1173.

THE OPERATOR SHALL KEEP RECORDS OF THE MONTHLY INSPECTION (AND QUARTERLY, WHERE APPLICABLE), SUBSEQUENT REPAIR, AND RE-INSPECTION, IN A MANNER APPROVED BY THE DISTRICT.

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

5. THE OPERATOR SHALL PROVIDE TO THE DISTRICT A SOURCE TEST REPORT IN ACCORDANCE WITH THE FOLLOWING SPECIFICATIONS:

SOURCE TESTS RESULTS SHALL BE SUBMITTED TO THE DISTRICT NO LATER THAN 60 DAYS AFTER THE SOURCE TESTS WAS CONDUCTED.

EMISSION DATA SHALL BE EXPRESSED IN TERMS OF CONCENTRATION (PPMV) ON A DRY BASIS AND A 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 THE OPERATING CONDITIONS OF THE BASIC EQUIPMENT UNDER WHICH THE TEST WAS CONDUCTED.

[RULE 204]

Periodic Monitoring:

6. THE OPERATOR SHALL CONDUCT SOURCE TEST(S) IN COMPLIANCE WITH THE FOLLOWING SPECIFICATIONS:

THE TEST SHALL BE CONDUCTED AT LEAST ~~ANNUALLY~~ **ONCE EVERY FIVE (5) YEARS**.

THE TEST SHALL BE CONDUCTED TO DETERMINE THE VOC EMISSION RATE IN POUNDS PER 1,000 GALLONS OF ORGANIC LIQUID LOADED.

THE TEST SHALL BE CONDUCTED TO DEMONSTRATE A 99 PERCENT OVERALL CONTROL EFFICIENCY FOR THE VAPOR RECOVERY SYSTEM.

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

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THE DISTRICT SHALL BE NOTIFIED OF THE DATE AND TIME OF THE TEST AT LEAST 10 DAYS PRIOR TO THE TEST.

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

7. THE NON-METHANE HYDROCARBON (NMHC) EMISSION LEVEL AT THE DISCHARGE OF THE AIR POLLUTION CONTROL DEVICE CONTROLLING THIS EQUIPMENT SHALL NOT EXCEED 1.9 PERCENT BY VOLUME PROPANE ON AN INSTANTANEOUS BASIS.
[RULE 462, 1303(a)(1)-BACT, 3004(a)(4)- PERIODIC MONITORING]
8. THE NON-METHANE HYDROCARBON (NMHC) EMISSION LEVEL AT THE DISCHARGE OF THE AIR POLLUTION CONTROL DEVICE CONTROLLING THIS EQUIPMENT SHALL NOT EXCEED 0.46 PERCENT BY VOLUME PROPANE ON BASED ON A ROLLING 15 MINUTE AVERAGE.
[RULE 462, 1303(a)(1)-BACT, 3004(a)(4)- PERIODIC MONITORING]
9. THE OPERATOR SHALL MAINTAIN A TABLE TO CONVERT THE HYDROCARBON MONITORING SYSTEM READINGS IN PERCENT (%) OR VOLUME (PPMV) CONCENTRATION TO POUND NMHC PER 1000 GALLONS GASOLINE LOADED/THROUGHPUT IN THE EQUIPMENT SERVED BY THIS APPLICATION.
[RULE 462, 1303(a)(1)-BACT, 3004(a)(4)- PERIODIC MONITORING]
10. THE OPERATOR SHALL INSTALL AND MAINTAIN A CONTINUOUS EMISSION MONITORING DEVICE TO ACCURATELY INDICATE THE VOC CONCENTRATION AT THE OUTLET OF THE CARBON ABSORBER IN PERCENT NMHC. THE OPERATOR SHALL CALIBRATE THE EMISSION MONITORING DEVICE IN PERCENT VOLUME AS PROPANE. THE EMISSION MONITORING DEVICE SHALL BE CALIBRATED ONCE EVERY SIX MONTHS.
[RULE 462, 1303(a)(1)-BACT, 3004(a)(4)- PERIODIC MONITORING]
11. THE CONTINUOUS HYDROCARBON MONITORING SYSTEM INSTALLED FOR THIS AIR POLLUTION CONTROL (APC) SYSTEM SHALL BE PROPERLY MAINTAINED, CALIBRATED AND IN FULL USE WHEN THIS APC SYSTEM IS IN OPERATION.
[RULE 462, 1303(a)(1)-BACT, 3004(a)(4)- PERIODIC MONITORING]

Emissions and Requirements:

12. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:
 - VOC: 0.08 LBS/1000 GALS ORGANIC LIQUID LOADED, RULE 462
 - TOC/VOC: 35 MG/L GASOLINE LOADED, 40 CFR 60 SUBPART XX
 - VOC: 99% REDUCTION, RULE 1303(a)(1)-BACT
 - VOC: RULE 466