

FACILITY PERMIT TO OPERATE EASTERN MUNICIPAL WATER DIST.

PERMIT TO OPERATE

Permit No. TBD
A/N 485926

Equipment Description:

INTERNAL COMBUSTION ENGINE, CATERPILLAR, NATURAL GAS AND LIQUID PROPANE GAS FIRED, MODEL NO. G399-SI-TA, SERIAL NO. 49C01555, SIXTEEN CYLINDERS, TURBOCHARGED, AFTERCOOLED, RICH BURN, 930 BHP, WITH A JOHNSON MATTHEY CATALYST, MODEL NO. MX-80, AND AN AIR/FUEL RATIO CONTROLLER, DRIVING AN EMERGENCY ELECTRICAL GENERATOR.

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 CONDITIONS AT ALL TIMES.
[RULE 204]
3. THIS EQUIPMENT SHALL BE FIRED ON NATURAL GAS ONLY. LPG MAY BE USED IN THE EVENT OF NATURAL GAS CURTAILMENT AND TESTING.
[RULE 1303(a)(1)-BACT]
4. THIS EQUIPMENT SHALL BE OPERATED IN COMPLIANCE WITH ALL APPLICABLE PROVISIONS OF RULE 1110.2, RULE 431.1, AND 40 CFR 63 SUBPART ZZZZ.
[RULE 1110.2, RULE 431.1, 40CFR63 SUBPART ZZZZ]
5. A FUEL METER SHALL BE INSTALLED AND MAINTAINED IN THE FUEL SUPPLY LINE TO THE ENGINE TO INDICATE THE FUEL USAGE IN CUBIC FEET, FOR EACH TYPE OF FUEL USED, AND FUEL USAGE SHALL BE RECORDED.
[RULE 204, RULE 1303(a)(1)-BACT, RULE 1303(b)(2)-Offsets]
6. THIS ENGINE SHALL NOT BE OPERATED WITHOUT THE USE OF AN AUTOMATIC AIR TO FUEL RATIO CONTROLLER WHICH SHALL BE MAINTAINED AND KEPT IN PROPER OPERATING CONDITIONS AT ALL TIMES AS SPECIFIED BY THE MANUFACTURER.
[RULE 1303(a)(1)-BACT]
7. THE CATALYTIC CONVERTER TEMPERATURE AND OXYGEN CONCENTRATION AT THE OUTLET OF THIS ENGINE SHALL BE MAINTAINED WITHIN THE EFFECTIVE OPERATING RANGE OF THE CATALYTIC CONVERTER AS SPECIFIED BY THE MANUFACTURER WHEN THIS ENGINE IS IN OPERATION, EXCEPT DURING MAINTENANCE AND TESTING AND START-UP NOT TO EXCEED 30 MINUTES.
[RULE 1303(a)(1)-BACT]

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8. THIS ENGINE SHALL BE EQUIPPED WITH AN OPERATIONAL NON-RESETTABLE TOTALIZING TIME METER TO DETERMINE THE ENGINE ELAPSED OPERATING TIME.
[RULE 1110.2, RULE 1303(a)(1)-BACT, RULE 1303(b)(2)-Offsets]
9. THIS ENGINE SHALL NOT BE OPERATED MORE THAN 200 HOURS IN ANY ONE CALENDAR YEAR.
[RULE 1110.2, RULE 1303(a)(1)-BACT, RULE 1303(b)(2)-Offsets]
10. THIS ENGINE SHALL NOT BE OPERATED MORE THAN 100 HOURS IN ANY ONE CALENDAR YEAR FOR MAINTENANCE AND TESTING PURPOSES, WHICH INCLUDES 50 HOURS PER YEAR FOR OPERATION THAT DOES NOT INCLUDE PEAK SHAVING OR OPERATION TO GENERATE INCOME FOR THE FACILITY EXCEPT UNDER A DEMAND RESPONSE PROGRAM (DRP).
[40CFR63 Subpart ZZZZ]
11. THIS ENGINE SHALL NOT BE OPERATED FOR MORE THAN 30 MINUTES PRIOR TO THE TIME WHEN THE EMERGENCY CONDITION IS EXPECTED TO OCCUR UNDER A DEMAND RESPONSE PROGRAM/INTERRUPTIBLE ELECTRIC SERVICE PROGRAM, AND THE ENGINE OPERATION MUST BE TERMINATED IMMEDIATELY AFTER THE FACILITY IS NOTIFIED THAT THE EMERGENCY CONDITION IS NOT LONGER IMMINENT.
[40CFR63 Subpart ZZZZ]
12. IF THIS ENGINE OPERATES FOR MORE THAN 15 HOURS IN ANY ONE CALENDAR YEAR UNDER A DEMAND RESPONSE PROGRAM/INTERRUPTIBLE ELECTRIC SERVICE PROGRAM, THEN THE ENGINE SHALL BE CONSIDERED A NON-EMERGENCY ENGINE PURSUANT TO 40 CFR 63 SUBPART ZZZZ AND SHALL BE IN COMPLIANCE WITH ALL REQUIREMENTS FOR A NON-EMERGENCY ENGINE PURSUANT TO 40 CFR 63 SUBPART ZZZZ.
[40CFR63 Subpart ZZZZ]
13. AN ENGINE OPERATING LOG SHALL BE MAINTAINED WHICH ON A MONTHLY BASIS SHALL LIST ALL ENGINE OPERATIONS IN EACH OF THE FOLLOWING AREAS:
 - A. EMERGENCY USE HOURS OF OPERATION.
 - B. MAINTENANCE AND TESTING HOURS.
 - C. OTHER OPERATING HOURS (DESCRIBE THE REASON FOR OPERATION).
 - D. FUEL CONSUMPTION OF EACH FUEL TYPE.[RULE 204, RULE 1110.2, RULE 1303(a)(1)-BACT, RULE 1303(b)(2)-Offsets, 40CFR63 Subpart ZZZZ]

Emissions and Requirements:

14. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:
PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS
NOX: 0.15 GM/BHP-HR, RULE 1303-BACT
VOC: 0.15 GM/BHP-HR, RULE 1303-BACT
CO: 0.60 GM/BHP-HR, RULE 1303-BACT