FACILITY PERMIT TO OPERATE
EASTERN MUNICIPAL WATER DISTRICT

PERMIT TO OPERATE

Permit No. TBD
A/N 529142

Equipment Description:

INTERNAL COMBUSTION ENGINE, WAUKESHA, MODEL P9390GL, SERIAL NO. C10379/1, NATURAL GAS FIRED, TURBOCHARGED, WATER CONNECTED COOLING, SIXTEEN CYLINDERS, FOUR CYCLE, 2200 BHP, LEAN BURN, PRECHAMBER DESIGN, WITH AN OXIDATION CATALYTIC MUFFLER, DRIVING A 1540 KW EMERGENCY ELECTRICAL GENERATOR.

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. THIS EQUIPMENT SHALL ONLY USE LIQUID PETROLEUM GAS (LPG) AS AN EMERGENCY BACK-UP FUEL FOR THIS EQUIPMENT WHEN NATURAL GAS IS NOT AVAILABLE, OR FOR MAINTENANCE AND TESTING PURPOSES.
[RULE 1303]

4. 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]

5. 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.
[RULE 204]

6. AN OPERATIONAL NON-RESETTABLE ELAPSED TIME METER SHALL BE INSTALLED AND MAINTAINED TO INDICATE THE ENGINE ELAPSED OPERATING TIME.
[RULE 1110.2, RULE 1303-BACT, RULE 1304(a)(4) MODELING AND OFFSETS EXEMPTIONS, 40CFR63 Subpart ZZZZ]

7. THIS ENGINE SHALL NOT BE OPERATED MORE THAN A TOTAL OF 200 HOURS IN ANY ONE YEAR, WHICH INCLUDES NO MORE THAN 50 HOURS FOR MAINTENANCE AND PERFORMANCE TESTING.
[RULE 1110.2, RULE 1303-BACT, RULE 1304(a)(4) – MODELING AND OFFSET EXEMPTION]

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8. OPERATION BEYOND 50 HOURS PER YEAR FOR MAINTENANCE AND TESTING IS ALLOWED ONLY DURING EMERGENCIES RESULTING IN AN INTERRUPTION OF SERVICE OF THE PRIMARY POWER SUPPLY OR DURING STAGE II OR III ELECTRICAL EMERGENCIES DECLARED BY THE ELECTRICAL GRID OPERATOR. OPERATORS ARE ALLOWED TO USE EMERGENCY SPARK-IGNITION ENGINES AS PART OF AN INTERRUPTIBLE ELECTRIC SERVICE PROGRAM.
[RULE 1303(a)(1)-BACT]

9. 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]

10. OPERATION UNDER A DEMAND RESPONSE PROGRAM/INTERRUPTIBLE ELECTRIC SERVICE PROGRAM SHALL BE COUNTED TOWARDS THE MAINTENANCE AND TESTING HOURS FOR THIS ENGINE.
[40CFR63 Subpart ZZZZ]

11. 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]

12. 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)

    IN ADDITION, EACH TIME THE ENGINE IS STARTED MANUALLY, THE LOG SHALL INCLUDE THE DATE OF OPERATION AND THE TIMER READING IN HOURS AT THE BEGINNING AND END OF OPERATION. THE LOG SHALL BE KEPT FOR A MINIMUM OF FIVE CALENDAR YEARS AND SHALL BE MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST. THE TOTAL HOURS OF OPERATION FOR THE PREVIOUS CALENDAR YEAR SHALL BE RECORDED SOMETIME DURING THE FIRST 15 DAYS OF JANUARY OF EACH YEAR.
    [RULE 1110.2, RULE 1303-BACT, RULE 1304(a)(4) – MODELING AND OFFSET EXEMPTION]

13. THE OPERATOR SHALL COMPLY WITH THE APPLICABLE AREA SOURCE REQUIREMENTS FOR EXISTING STATIONARY RECIPROCATING INTERNAL COMBUSTION ENGINES OF 40 CFR PART 63 SUBPART ZZZZ – NATIONAL EMISSION STANDARDS FOR HAZARDOUS AIR POLLUTANTS FOR RECIPROCATING INTERNAL COMBUSTION ENGINES.
[40CFR63 SUBPART ZZZZ]

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Emissions and Requirements

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

NOX: 1.5 G/BHP-HR, RULE 1303
VOC: 1.5 G/BHP-HR, RULE 1303
CO: 2.0 G/BHP-HR, RULE 1303