MOJAVE DESERT AIR QUALITY MANAGEMENT DISTRICT
14306 Park AvenueVictorville,CA92392-2310
760.245.1661 -- 800.635.4617 -- FAX760.245.2022

INACTIVE

E003801

Inactive type Permit has no description information.

EXPIRES LAST DAY OF:FEBRUARY 2014

OWNER OF OPERATOR (Co.#2262)

Barstow, City of - WWTP
2200 E Riverside Drive
Barstow,CA92311

EQUIPMENT LOCATION (Fac.#500)

Barstow Wastewater Treatment Plant
2200 E Riverside Drive
Barstow,CA92311

Description:
NATURAL GAS IC ENGINES, EMERGENCY AIR SUPPLY SYSTEM consisting of:Three IC engines, year of Mfg TBD

OneCaterpillar,NG fired internal combustion engine Model No.G-398 V-12 and Serial No.73B904, 73B903, and 73B905, producing480 bhp with12 cylinders at1000 rpm while consuming a maximum of1.0scf/hr. This equipment powers aHoffmanBlower Model No.38606A and Serial No.TBD, rated at6,950.

EMISSIONS RATES

Emission Type	Est. Max Load	Unit
CO	1.19	lbs/hr
NOx	15.36	lbs/hr
PM10	0.0003	lbs/hr
SOx	0.002	lbs/hr
VOC	0.44	lbs/hr

CONDITIONS:

1.These existing, spark-ignited engines, and any associated air pollution control equipment, shall be installed, operated, and maintained in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles, which produce the minimum emissions of contaminants. Unless otherwise noted, this equipment shall also be operated in accordance with all data and specifications submitted with the application for this permit.
[40 CFR 63.6625(e) and 40 CFR 63.3305(b)]

Fee Schedule:7 (g) Rating:1450device SIC:4952 SCC:20300201 Location/UTM(Km):498E/3861N

This permit does not authorize the emission of air contaminants in excess of those allowed by law, including Division 26 of the Health and Safety Code of the State of California and the Rules and Regulations of the District. This permit cannot be construed as permission to violate existing laws, ordinances, statutes or regulations of this or other governmental agencies. This permit must be renewed by the expiration date above. If billing for renewal fee required by Rule 301(c) is not received by expiration date above, please contact the District.

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By: **COPY**
Brad Poiriez
Air Pollution Control Officer

2.A non-resettable four-digit (9,999) hour timer shall be installed and maintained on each engine to indicate elapsed engine operating time.
[40 CFR 63.6655(f)]

3.These IC engines shall only burn pipeline quality natural gas.

4.Only one (1) of the three (3) IC engines named in this permit shall be operated at any one time except for one (1) hour to switch IC engines.

5.This equipment shall be limited to use for emergency power, defined as in response to a fire or when commercially available power has been interrupted. In addition, the total aggregated time these units operate per year for maintenance and testing purposes shall be limited to 100 hours per year. [40 CFR 60.6640(f)(1)(ii)]

6.The owner/operator shall maintain an operations log for this equipment current and on-site (or at a central location) for a minimum of five (5) years, and this log shall be provided to District, State and/or Federal personnel, upon request. The log shall include, at a minimum, the information specified below:
a. Date of each use and hours of operation with documentation of how many hours are spent for emergency operation, including what classified the operation as emergency, and how many hours are spent for non-emergency operation, including what classified the operation as non-emergency. [40 CFR 63.665(f)]; and,
b. Calendar year operation in terms of total hours; and,
c. Maintenance performed on this equipment, inclusive of the management practice requirements of condition 7 below; and,
d. Records of the occurrence and duration of each malfunction of operation (i.e., process equipment) or the air pollution control and monitoring equipment [40 CFR 63.6655(a)(2)]; and,
e. Records of all required maintenance performed on the air pollution control and monitoring equipment [40 CFR 63.6655(a)(4)]; and,
f. Records of actions taken during periods of malfunction to minimize emissions in accordance with condition 1, including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation [40 CFR 63.6655(a)(5)].

7.This engine is subject to the requirements of 40 CFR 63, Subpart ZZZZ, and pursuant to this federal regulation, this engine is required to meet the following compliance requirements by October 19, 2013:
The owner/operator of this equipment shall demonstrate continuous compliance by committing to a maintenance schedule inclusive of the management practice requirements listed below:
a. Change oil and oil filter every 500 hours of operation or annually, whichever comes first (source has the option to utilize an oil analysis program pursuant to 40 CFR 63.6625(j) in order to extend the specified oil change requirement.);
b. Inspect spark plugs every 1,000 hours of operation or annually, whichever comes first; and,
c. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.
[40 CFR 63.6603(a) and 63.6640(a)]

8.If this emergency engine is operating during an emergency and it is not possible to shut down the engine in order to perform the management practice requirements required by condition 7, or shutting down the engine would pose an unacceptable risk, the management practice can be delayed until the emergency is over, or the risk has been abated. The management practice should be performed as soon as practicable after the emergency/risk has ended. Sources must report any failure to perform the management practice on the schedule required and the Federal, State or local law under which the risk was deemed unacceptable.
[40 CFR 63.6603(a)]

9.The owner/operator must minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the emission standards applicable to all times other than startup apply.
[40 CFR 63.6625 (h)]

10.This equipment may operate in response to notification of impending rotating outage if the area utility has ordered rotating outages in the area where the engine is located or expects to order such outages at a particular time, the engine is located in the area subject to the rotating outage, the engine is operated no more than 30 minutes prior to the forecasted outage, and the engine is shut down immediately after the utility advises that the outage is no longer imminent or in effect.

[40 CFR 63.6640(f)(1)(iii)]

11.This equipment may operate for a maximum of 15 hours per year as part of a demand response program (DRP) if the regional transmission organization or equivalent balancing authority and transmission operator has determined there are emergency conditions that could lead to a potential electrical blackout, such as unusually low frequency, equipment overload, capacity or energy deficiency, or unacceptable voltage level. The engine may not be operated for more than 30 minutes prior to the time when the emergency condition is expected to occur, and the engine operation must be terminated immediately after the facility is notified that the emergency condition is no longer imminent. The 15 hours per year of demand response operation are counted as part of the 50 hours of operation per year provided for non-emergency situations.
[40 CFR 63.6640(f)(1)(iii)]

12.The facility must submit accurate emissions inventory data to the District, in a format approved by the District, upon District request.

13.Voluntary Emission Limit pursuant to District Rule 221(B).

Emissions from this facility shall be less than the following voluntary emission limits, in tons per year;
NOx: 25
SOx: 25
PM10: 100
VOC: 25
CO: 100
Compliance with these facilitywide emission limits shall be demonstrated through compliance with the specific operating conditions assigned to each permitted device including but not limited to fuel type and amount used (or hours of operation limits).