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

INACTIVE

I002545

Inactive type Permit has no description information.

EXPIRES LAST DAY OF:FEBRUARY 2010

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:
INCINERATOR, SEWER SLUDGE consisting of:Niro Atomizer Inc. fluid bed incinerator with a 7' diameter freeboard chamber.

EQUIPMENT

Capacity	Equipment Description
0	North American Start-Up Burner, Model 5514-8-A (5.6 MMBtu/hr) - startup only
0	Start-Up Burner Natural Gas Pilot (0.06 MMBtu/hr) - startup only
0	Preheater Burner Blower (30 hp) - startup only
0	Preheater Burner Oil Pump (0.25 hp) - startup only
0	Fuel Injector Oil Pump (0.25 hp)
0	Transfer Screw Conveyor (2 hp)
0	Sludge Screw Feeder (5 hp)
0	Fluidizing Air Blower (75 hp)
0	Purge Air Blower (20 hp)
0	Belt Press Screw Conveyor (2 hp)
0	Four Auxiliary Fuel (#2 fuel oil) Injection Gun/nozzles (nominal 1 MMBtu/hr total)
0	Heat Input from Sludge (nominal 6 MMBtu/hr)
38.5	Incinerator Cross Section (38.5 square feet)

CONDITIONS:

Fee Schedule:4 (N/A) Rating:38.5square feet SIC:4952 SCC:50100506 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

1.This equipment shall not be operated unless vented to air pollution control equipment operating under valid District Permit C003063.

2.This sludge incinerator shall process no more than 2256 tons of dry sludge per calendar year.

3.This equipment shall not be fired with more than seven (7) MMBtu/hr of fuel under any circumstances. The firing rate shall be calculated from the sludge and oil feed rates, and shall be updated at least every 15 minutes.

4.This incinerator may use natural gas as a supplemental fuel during startup.

5.The exhaust gas temperature within the furnace exhaust breaching must be maintained between 1500 deg and 1600 deg Fahrenheit, averaged over four hours.

6.The liquid fuel used to operate this sludge incinerator shall not contain sulfur in excess of 0.05% by weight. Compliance with this condition shall be demonstrated through analysis records provided by the fuel supplier, or other District-approved method.

7.This equipment shall not emit contaminants to the atmosphere in excess of the following limits:
a. Opacity - 10 percent
b. Particulate matter (front and back half) - 0.49 lbs/hr and 0.03 gr/dscf (corrected to 12% CO2)
c. Oxides of sulfur - 1.46 lbs/hr (as SO2) and 80 ppmv (corrected to 7% O2)
d. Oxides of nitrogen - 3.33 lbs/hr (as NO2) and 250 ppmv (corrected to 7% O2)
e. Carbon monoxide - 0.675 lb/hr and 100 ppmvd (corrected to 7% O2) (verified by CEMS on a monthly average basis)
f. Arsenic - 2.25 x 10^-5 lbs/hr
g. Beryllium - 1.55 x 10^-5 lbs/hr
h. Cadmium - 5.44 x 10^-5 lbs/hr
i. Chromium - 3.59 x 10^-5 lbs/hr
j. Lead - 1.93 x 10^-3 lbs/hr
k. Nickel - 7.76 x 10^-4 lbs/hr

8.An operations/maintenance log shall be maintained on-site for at least two (2) years and be made available to District personnel on request. This log shall include, at a minimum, the following information:
a. Daily operation in hours;
b. Hourly fuel consumption in sludge (lbs or Btu) and fuel (gallons or Btu)
c. Daily fuel consumption in sludge (lbs/day dry and Btu) and fuel (gallons/day);
d. Running annual sludge firing total (dry tons);
e. Exhaust gas temperature within the furnace exhaust breaching;
f. CO concentration data, including monthly average; and,
g. Date, amount and sulfur content of all fuel oil deliveries.

9.By July 31, 2001, and by July 31 of every fourth year thereafter, the o/o shall conduct a compliance/certification test (source test) in accordance with the District Compliance Test Procedural Manual. The compliance test shall include tests for the following: opacity, particulate matter (front and back half) in gr/dscf (corrected to 12% CO2) and lb/hr, oxides of sulfur in ppmv corrected to 7% O2 and lb/hr (as SO2), arsenic in lb/hr, beryllium in lb/hr, cadmium in lb/hr, total chromium in lb/hr, lead in lb/hr, and nickel in lb/hr.

10.This equipment shall only be operated and maintained in strict accord with the recommendations of its manufacturer or supplier and/or sound engineering principles.

11.Emissions of CO shall be monitored using a Continuous Emissions Monitoring System (CEMS). The operator shall install, calibrate, maintain and operate this system according to MDAQMD Rule 218. The CEMS must meet the acceptability testing requirements given in 40 CFR 60 Appendix B, Performance Specification 4.

12.By July 31 of every year beginning in 2001 the o/o shall conduct a compliance/certification test (source test) in accordance with the District Compliance Test Procedural Manual. The compliance test shall include tests for the following: oxides of nitrogen in ppmv

corrected to 7% O2 and lb/hr (as NO2), carbon monoxide in ppmvd corrected to 7% O2 and lb/hr, carbon dioxide in percent and oxygen in percent.