



MOJAVE DESERT AIR QUALITY MANAGEMENT DISTRICT

14306 Park Avenue Victorville, CA 92392-2310
760.245.1661 -- 800.635.4617 -- FAX 760.245.2022

PERMIT TO OPERATE

M008039

Operation under this permit must be conducted in compliance with all information included with the initial application, initial permit condition, and conditions contained herein. The equipment must be maintained and kept in good operating condition at all times. This Permit to Operate or copy must be posted on or within 8 meters of equipment. If a copy is posted, the original must be maintained on site, available for inspection at all times.

EXPIRES LAST DAY OF: SEPTEMBER 2026

OWNER OF OPERATOR (Co.#1200)

Federal Bureau of Prisons - Victorville
13289 Air Base Road
Victorville, CA 92394

EQUIPMENT LOCATION (Fac.#2382)

Federal Bureau of Prisons (USP)
13777 Air Expressway
Victorville, CA 92394

Description:

BOILER, NATURAL GAS (B-M-3, BLDG M) consisting of: One Rite Engineering Company Model 840 WGO, Serial # 228166 hot water boiler, rated at 8.4 MM Btu max heat input (natural gas with diesel and fuel oil backup), with one ST Johnson, Model NMO200A10V, low NOx burner (max 9 ppm NOx at 3% oxygen on natural gas), providing water and space heating at the United States Penitentiary.

CONDITIONS:

1. This equipment shall be installed, operated and maintained in strict accordance with those recommendations of the manufacturer/supplier and/or in a manner consistent with safety and good air pollution control practices for minimizing emissions. Furthermore, operation of this equipment shall be conducted in compliance with all data and specifications submitted with the application under which this permit is issued.

[District Rule 1302(C)(2)(a)]

2. The o/o shall operate this equipment using PUC quality natural gas except during curtailment of natural gas supply.

[District Rules 1157 and 1303]

3. During times of natural gas curtailment, the o/w shall utilize diesel fuel with a maximum sulfur concentration of 15 PPM by weight or other liquid fuel with a maximum sulfur concentration of 500 PPM by weight. This limit may be complied with through the fuel supplier certification of sulfur content.

[District Rule 431]

Fee Schedule: 10 (2d)

Rating: 8400000 Btu

SIC: 9223

SCC: 10300603

Location/UTM(Km):
473E/3820N

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.

Federal Bureau of Prisons - Victorville
PO Box 5400

Adelanto, CA 92301

By: **COPY**

Eldon Heaston

Air Pollution Control Officer

4. This equipment may be fired on liquid fuel for testing or during curtailment of natural gas supply only. Testing on liquid fuel is limited to 48 hours per calendar year.

[District Rule 1157, NESHAP for Area Source Boilers - 40 CFR 63.11237 (definition of "Gas-fired boiler")]

5. The owner/operator shall maintain an operations log for this equipment on-site and current for a minimum of five (5) years, and shall be provided to District personnel on request. The operations log shall include the following information at a minimum:

- a. Total operating time in hours per month and total operating time in hours per running consecutive 12 month period;
- b. Total fuel consumed, in gallons or Standard Cubic Feet, per month and per running consecutive 12 month period;
- c. Description of all repairs done to the boiler or the burner unit; and
- d. Results of all boiler source tests and tune-ups.

[District Rule 1302(C)]

6. This unit shall not exceed the following emission limits in accordance with Rule 1157.

- a. Natural Gas 9 PPMV NO_x as NO₂ at 3% oxygen at its maximum natural gas firing rate.
- b. liquid fuel during times of natural gas curtailment: 150 PPMV NO_x as NO₂ at 3% oxygen at its maximum fuel firing rate.
- c. 100 PPMV CO at 3% oxygen at its maximum fuel firing rate.

[District Rule 1157]

7. Not later than 180 days after initial startup, the operator shall perform an initial compliance test on this equipment in accordance with the District Compliance Test Procedural Manual. This test shall demonstrate that this equipment does not exceed the emissions limits specified in condition 6.

[District Rule 1303]

8. The boilers with valid District permits B008037, B008038 and M008039 represent three identical boilers, one of which is a standby unit. No more than two of the three boilers covered by these permits can be operated simultaneously for any reason.

[District Rule 1302(C)]

9. Prior to the expiration date each year (beginning in 2003), the o/o shall either perform a NO_x and CO compliance test, or have this equipment tuned, as specified by Rule 1157. A tune-up may be performed in lieu of a compliance test during those permit years when the annual heat input to this unit (combining B008037, B008038 and M008039) does not exceed 50,000 MMBtu per year. Should the aggregate fuel use of the three boilers reach 50,000 MMBtu/year or more, a compliance test will be required not less than every twelve (12) months commencing when the fuel usage reaches the 50,000 MMBtu/year threshold.

[District Rule 1157]

10. A facility wide Comprehensive Emission Inventory (CEI) for all emitted criteria and toxic air pollutants must be submitted to the District, in a format approved by the District, upon District request.

[District Rule 107(b); H&S Code 39607 & 44341-44342; and 40 CFR 51, Subpart A]