



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

C007904

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: MARCH 2027

OWNER OF OPERATOR (Co.#447)

3M Company
8981 State Highway 395
Hesperia, CA 92345

EQUIPMENT LOCATION (Fac.#1247)

3M Oak Hills
8981 State Highway 395
Hesperia, CA 92345

Description:

CATALYTIC OXIDIZER consisting of: Anguil thermal oxidizer and heat exchanger equipped with 3.0 MMBtu/hr Eclipse 3 foot AHMA natural gas-fired burner. Optimum catalyst temperature is 650 to 800 deg Fahrenheit, exhaust temp 291.5 to 334.5 deg F, generates 9150 scfm exhaust flow.

CONDITIONS:

1. This equipment shall be installed, operated and maintained in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles in a manner consistent with good air pollution control practice for minimizing emissions. Unless otherwise noted, this equipment shall also be operated in accordance with all data and specifications submitted with the application for this permit.

[District Rule 204]

2. The owner/operator (o/o) shall comply with all applicable rules and regulations of the District. Applicable rules include, but are not limited to, the following: 401, 402, 403, 442, 430, and 1168.

[District 204]

3. The total amount of volatile organic compounds (VOC) emitted from this facility shall be less than 24.9 tons in any consecutive twelve (12) month period, verified on a rolling twelve (12) month basis assuming a minimum capture efficiency of 95 percent and minimum destruction efficiency of 95 percent for those vapors directed to the catalytic oxidizer (C007904). If a higher capture efficiency and

Fee Schedule: 7 (h)

Rating: 1 device

SIC: 3291

SCC: 40290013

Location/UTM(Km):
473E/3808N

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**
Eldon Heaston
Air Pollution Control Officer

destruction efficiency is used for the catalytic oxidizer, it must be proven as achieved using the most recent and approved compliance test as required by District Permit C007904.

[District Regulations XII and XIII]

Additionally, the total amount of VOC emitted to atmosphere (excluding VOC vented to the control device permitted under C007904) from this facility shall be no more than 1,190 pounds per month, verified on a rolling twelve (12) month summary.

[District Rule 442]

4. This facility shall not emit more than 9.9 tpy of a single HAP and 24.9 tpy of all HAPs. To ensure compliance, the owner/operator shall calculate and record the annual emissions of Federal Hazardous Air Pollutants (HAPs) in tons per year (tpy) on a calendar year basis (January 1 through December 31). The list of HAPs can be found in Section 112(b)(1) of the Federal Clean Air Act or at web site:

<https://www.epa.gov/haps/initial-list-hazardous-air-pollutants-modifications>.

[District Regulations XII and XIII]

5. The owner/operator shall operate this equipment so that it achieves a minimum control (capture times destruction, i.e. 95% x 95%) efficiency of 90 percent.

[District Regulation XIII]

6. Temperature measuring devices shall be installed and maintained at the inlet and outlet of the catalyst bed.

[District Rule 204]

7. Whenever VOC laden air is introduced into this device, the manufacturer's recommended minimum temperatures shall be maintained at the catalyst inlet and outlet.

[District Rule 204]

8. The owner/operator shall maintain current and on-site for a minimum of two (2) years an operational log. This log shall be provided to District personnel on request and shall include at a minimum the following information:

(a) Temperature records from temperature measuring devices (for operational periods).

(b) A record of repairs and maintenance on this equipment.

[District Rule 1302]

9. The owner/operator must conduct a compliance/certification test (source test) for total control efficiency (capture and destruction) of volatile organic compounds in accordance with the District Compliance Test Procedural Manual once every thirty six (36) months. The required frequency of this test may be reduced upon District approval of a written request and justification.

The owner/operator must submit a compliance/certification test protocol at least thirty (30) days prior to the compliance/certification test date. The owner/operator must conduct all required compliance/certification tests in accordance with a District-approved test protocol. The owner/operator must notify the District a minimum of ten (10) days prior to the compliance/certification test date so that an observer may be present. The final compliance/certification test results must be submitted to the District within forty-five (45) days of completion of the test. All compliance/certification test notifications, protocols, and results may be submitted electronically to reporting@mdaqmd.ca.gov

10. The owner/operator shall provide stack sampling ports and platforms necessary to perform source tests required to verify compliance with permit conditions. The location of these ports and platforms shall be subject to District approval.

[District Rule 217]

11. This control device shall be operated whenever 60" Line (Manufacturing Process Line B) (B007903) is using a VOC coating with greater than 5.0% VOC by weight. Although not required, equipment running low VOC containing materials may also vent to this control device.

[District Rule 204]

12. 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]