



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

B008922

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: JANUARY 2027

OWNER OF OPERATOR (Co.#2361)

Grace
17434 Mojave Street
Hesperia, CA 92345

EQUIPMENT LOCATION (Fac.#2663)

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17434 Mojave Street
Hesperia, CA 92345

Description:

SILICA MANUFACTURING AREA consisting of: Seven "pearl" reactor units vented to atmosphere through two stacks. This area also includes two covered 60 gallon raw material (triethylorthosilicate (TEOS) and ethanol) feed tanks.

EQUIPMENT

Capacity	Equipment Description
1.76	Pearl 1, 1.76 kW, 46 gallon (18" W by 24" L by 24" H)
1.76	Pearl 2, 1.76 kW, 46 gallon (18" W by 24" L by 24" H)
1.76	Pearl 3, 1.76 kW, 46 gallon (18" W by 24" L by 24" H)
1.76	Pearl 4, 1.76 kW, 46 gallon (18" W by 24" L by 24" H)
1.76	Pearl 5, 1.76 kW, 46 gallon (18" W by 24" L by 24" H)
1.76	Pearl 6, 1.76 kW, 46 gallon (18" W by 24" L by 24" H)
0.8	Pearl small test 0.84 kW. 9 gallon (12" W by 14" L by 12" H)

CONDITIONS:

1. This equipment shall be operated in accordance with all data and specifications submitted with the application under which this permit is issued unless otherwise noted below.

Fee Schedule: 3 (a)

Rating: 11.4 kVA

SIC: 2819

SCC: 30188805

Location/UTM(Km):
470E/3810N

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

2. This 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.

3. No individual "pearl" reactor shall emit to the atmosphere more than 24.9 pounds of VOC per day, verified by solvent records and a mass balance calculation.

4. This facility shall emit less than the following on an annual (any twelve consecutive month period) basis to remain under the USEPA's Synthetic Minor, 80% (SM-80) limits, calculated as the total emissions from all permitted equipment:

Oxides of Nitrogen (NO_x) - 20 tons,

Volatile Organic Compound (VOC) - 20 tons,

Particulate Matter less than 10 microns (PM₁₀) - 12.5 tons, and

Hazardous Air Pollutants (HAPs) - 8 tons per year for any single HAP and 20 tons per year for any combination of HAPs.

Compliance shall be demonstrated to the District through the submission of a District approved Comprehensive Emission Inventory (CEI) report or other District approved equivalent method.

[District Rules 1302 and 1520]

5. The owner/operator (o/o) shall maintain a current, on-site operations log for this equipment for a minimum of two (2) years, and shall provide the operations log to District personnel on request. The operations log shall, at a minimum, contain the information specified below:

a. Date of each use;

b. Amount of daily solvent use (by type, VOC and HAP content and amount);

c. Amount of daily VOC emissions (pounds);

d. Cumulative monthly VOC emissions (in pounds);

e. Cumulative annual (twelve month summary) VOC emissions (in pounds or tons);

f. Monthly HAP emissions (in pounds); and,

g. Cumulative annual (twelve month summary) HAP emissions (in pounds or tons).

6. 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]