MOJAVE DESERT AIR QUALITY MANAGEMENT DISTRICT
14306 Park Avenue Victorville, CA 92392-2310
760.245.1661 -- 800.635.4617 -- FAX 760.245.2022

INACTIVE

C004952

Inactive type Permit has no description information.

EXPIRES LAST DAY OF: AUGUST 2013

OWNER OF OPERATOR (Co.#3254)

5E SVM Operations, LLC
13200 Main Street
Trona, CA 93562

EQUIPMENT LOCATION (Fac.#7)

SVM - West End Plant
80201 Trona Road
Trona, CA 93562

Description:
SELECTIVE CATALYTIC REDUCTION UNIT (SCR) consisting of: a system which contains a Mitsubishi Heavy Industries or Cormetech catalyst, whose dimensions are approximately 14.85 ft high, by 23.7 ft wide, and 5.59 ft deep. This unit has an ammonia injection system with dilution air flow. It is designed for 1100 cfm of dilution air and 37.3 lb/h ammonia injection. There are two 15 hp dilution air fans, one for operation and one for standby. The catalyst, being a retrofit is sized specifically for this operation and is a horizontal flow position with honeycomb configuration. The ammonia injection system is skid mounted, with the ammonia being injected downstream from the air dilution fans from a small pipe, which ties into an existing ammonia header. Control can be manual, with a set ammonia injection, or automatic. This system is typically run in auto and the outlet NOx remains steady. The air/ammonia mixture is injected into the turbine exhaust through 20 equally spaced pipes. Each pipe has a hand valve to adjust ammonia flow if it is necessary to balance the system.

CONDITIONS:

1. Operation of this equipment shall be conducted in compliance with data and specifications submitted with the application under which this permit is issued unless otherwise noted below.

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

3. This equipment shall be operated concurrently with the Gas Turbine covered in valid District permit B000339.

Fee Schedule: 7 (h) | Rating: 1 device | SIC: 1474 | SCC: 99999999 | Location/UTM(Km): 464E/3951N

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.

5E SVM Operations, LLC
P.O. Box 367
Trona, CA 93592-0367

By: **COPY**
Brad Poiriez
Executive Director

UNOFFICIAL

4. The exhaust emissions of this equipment shall not exceed the following when averaged over a rolling three (3) hour period:
a. NOx - 46.3 lb/hr at 15% oxygen (based on a concentration of 42 ppm and a maximum firing rate of 295 MMBTU/hr);
b. PM10 - 3.50 lb/hr
c. SOx - 0.120 lb/hr
d. CO - 1.50 lb/hr
e. CO2 - 3,840 lb/hr

5. The NOx emission limit given above shall apply at all times except for a period of up to one (1) hour for either start-up or shutdown of the Turbine and during malfunctions that do not exceed 12 hours in duration. Malfunction means any sudden, infrequent, and not reasonably preventable failure of air pollution control equipment, process equipment, or a process to operate in a normal or usual manner. Failures that are caused in part by poor maintenance or careless operation are not malfunctions. The owner/operator (o/o) shall, at all times, including periods of start-up, shutdown, and malfunction, to the extent practicable, maintain and operate the Turbine in a manner consistent with good air pollution control practice for minimizing emissions.

6. This unit shall demonstrate compliance with condition 4 on an annual basis in accordance with the District Compliance Test Procedural Manual.

7. Quality assurance for the CEMS shall conform to 40 CFR 60, appendix F. The RATA shall conform to Performance Specifications 2 and 3 for NOx and oxygen respectively under 40 CFR 60, appendix B.