



MOJAVE DESERT AIR QUALITY MANAGEMENT DISTRICT

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

INACTIVE

C013199

Inactive type Permit has no description information.

EXPIRES LAST DAY OF: JUNE 2021

OWNER OF OPERATOR (Co.#2415)

Envirepel Energy Inc.
219 Rancho Bonito Road
Fallbrook, CA 92028

EQUIPMENT LOCATION (Fac.#3807)

Phelan Park Renewable Energy Facility
18101 Sheep Creek Road
Adelanto, CA 92301

Description:

CATALYTIC CONVERTER, COMBUSTION LINE #2 consisting of: A SINOx model catalytic converter system manufactured by Johnson-Matthey with a custom manufactured urea injection system installed in the Heat Recovery Steam Generator (HRSG) exhaust stream prior to reaching the converter. Maximum exhaust gas flow rate into the catalyst is approximately 4538 scfm and the exhaust temperature at the point of urea injection is approximately 500 degrees Fahrenheit. The catalyst bed is approximately three feet long and the calculated urea resonance time is approximately 1.2 seconds.

CONDITIONS:

1. This catalytic converter system shall be installed, operated and maintained in strict accordance with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of contaminants. Unless otherwise noted, this equipment shall also be operated in accordance with all data and specifications submitted with the application for this permit. [District Rules 204 and 1302]

2. This equipment shall be operating and fully functional whenever the combustion equipment identified in District Permit B013198 is operating. [District Rules 1303 and 1320]

3. A temperature sensor shall be installed at the inlet of the catalytic converter housing to measure the inlet temperature. This sensor shall be checked at least once each minute and the results shall be logged at least hourly. Furthermore, the inlet temperature shall be maintained within 10 percent of the value determined during source testing. [District Rules 1302 and 1303]

4. A flow meter shall be installed in the urea injection line to measure the urea injection flow rate. This sensor shall be checked at least

Fee Schedule: 7 (h) Rating: 1 device SIC: 4953 SCC: 10101207 Location/UTM(Km): 446E/3826N

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

once each hour and the results shall be logged.

Furthermore, the urea injection rate shall be maintained within 10 percent of the value determined during source testing.

[District Rules 1302 and 1303]

5. All piping, valves, and flanges shall be properly maintained to minimize emissions of air pollutants to the atmosphere.

[District Rules 1302 and 1320]

6. The owner/operator shall maintain an operations log for this unit current and on-site (or at a central location) for a minimum of three (3) years, and this log shall be provided to District, State and Federal personnel upon request. The log shall include, at a minimum, the information specified below:

a. Results of all inlet temperature and urea injection rate readings; and

b. Records of all repairs, maintenance actions, and inspections.

[District Rules 204 and 1302]

7. Ammonia Slip shall not exceed twenty (20) lbs per day, averaged over any twenty four hour period.

[District Rules 1302 and 1320]

8. In the event of a malfunction of any part of this equipment, the entire process line must be shut down as soon as safely possible and shall not be restarted until all malfunctions have been corrected. Equipment breakdowns shall be reported to the District in accordance with District Rule 430.

[District Rules 430 and 1302]

9. 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]