



MOJAVE DESERT AIR QUALITY MANAGEMENT DISTRICT

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

INACTIVE

C013056

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:

WET ELECTROSTATIC PRECIPITATOR, COMBUSTION LINE #1 consisting of: A custom built wet ESP manufactured by Envirepel Energy, Inc., model WESP M44, Serial Number 001. This system has 2,192 square feet of collecting electrode area and is designed to flow up to 29,000 acfm at 260 degrees Fahrenheit, though nominal flow is calculated to be 14,500 acfm at 260 degrees Fahrenheit.

CONDITIONS:

1. This wet electrostatic precipitator 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 B013149 is operating.
[District Rules 1303 and 1320]
3. A volt meter and an amperage meter shall be installed and maintained on both the Primary side and the Secondary side of this unit to measure the draw across this unit. These meters shall be checked at least once each day and the results shall be logged.
[District Rules 1302 and 1303]

Fee Schedule: 7 (h)

Rating: 1 device

SIC: 4953

SCC: 10200905

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
Executive Director

4. All piping, valves, and flanges shall be properly maintained to minimize emissions of air pollutants to the atmosphere.
[District Rules 1302 and 1320]

5. 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 daily voltmeter and ammeter readings; and
- b. Records of all repairs, maintenance actions, and inspections.

[District Rules 204 and 1302]

6. 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]

7. The facility shall not exceed the following emission limits whenever any material is being processed, except for periods of malfunction/breakdown:

- a. Oxides of Nitrogen (NOx): No more than 20 lbs per day nor more than 3.5 tons per year;
- b. Oxides of Sulfur (SOx): No more than 4 lbs per day nor more than 0.7 tons per year;
- c. Volatile Organic Compounds (VOC): No more than 4 lbs per day nor more than 0.7 tons per year;
- d. Carbon Monoxide (CO): No more than 20 lbs per day nor more than 3.5 tons per year;
- e. Particulate Matter 10 Microns and Less (PM10): No more than 5.75 lbs per day nor more than 1.0 tons per year; and
- f. Ammonia Slip: No more than 20 lbs per day nor more than 3.5 tons per year

[District Rules 1157, 1302 and 1320]

8. The owner/operator shall conduct an initial performance (source test) to ensure compliance with the emission limits set forth in Condition #7. This test shall be conducted within 60 days of reaching full production rate but in no case shall exceed 180 days from first placing any ground green waste/clean wood waste into the system. The tests shall be completed in accordance with the following USEPA Reference Methods unless specifically authorized in writing by the District:

- a. NOx: USEPA Reference Method 7 or 7E;
- b. SOx: USEPA Reference Method 6 or 6C;
- c. VOC: USEPA Reference Method 18 or 25A;
- d. CO: USEPA Reference Method 10 or 10B;
- e. PM10: USEPA Reference Method 5;
- f. Hydrogen Halides and Halogens: USEPA Method 26A;
- g. Volatile Organic HAPs: USEPA Reference Method 028; and
- h. Ammonia slip: USEPA Conditional Test Method 027 or equivalent

Furthermore, the facility shall provide all required platforms, ports, and support systems necessary to properly and safely conduct the above tests.

Upon receipt of the initial source test results, the District shall complete a revised HARP Prioritization Score analysis to determine if a full Health Risk Assessment (HRA) or additional/periodic source testing will be required.

[District Rules 217, 1303, and 1320]

9. The owner/operator shall establish the following maximum and minimum operating parameters during the initial performance testing discussed in condition #7. Furthermore, the facility shall establish procedures and provide equipment necessary to meet the following required measurement and recording frequencies:

// Operating Parameter // Minimum Data Measurement Frequency // Minimum Data Recording Frequency

Maximum Charge Rate // Hourly // Once per Hour and Cumulative Daily

Maximum MSAC Outlet Temperature // Once per minute // Once per Hour

Minimum MSAC Outlet Temperature // Once per minute // Once per Hour

Minimum NOx Box Inlet Temperature // Once per minute // Once per Hour

Maximum NOx Box Outlet Temperature // Once per minute // Once per Hour

Minimum Sorbent Flow Rate // Once per minute // Once per Hour

Wet ESP Plate Voltage // Once per minute // Once per Hour

Urea Injection Rate // Once per hour // Once per Hour

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Once these operating parameters are determined, operating this system outside of the established parameters by more than ten percent (10%) will result in a violation. The values for these parameters shall be submitted to the District within 60 days of completing initial source testing and shall include a description, including sample calculations, of how the operating parameters were established.
[District Rules 204, 1303, and 1320]

10. Operation of this equipment shall not cause or allow the discharge into the atmosphere from any single source of emission whatsoever any air contaminant for a period or periods aggregating more than three minutes in any one hour which is:

(a) As dark or darker in shade as that designated No. 1 on the Ringelmann Chart, as published by the United States Bureau of Mines, or

(b) Of such opacity as to obscure an observer's view to a degree equal to or greater than does smoke described in subparagraph (a).

[District Rule 401]

11. Operation of this equipment shall not cause or allow the discharge from any source whatsoever such quantities of air contaminants or other material which cause injury, detriment, nuisance or annoyance to any considerable number of persons or to the public, or which endanger the comfort, repose, health or safety of any such persons or the public, or which cause, or have a natural tendency to cause, injury or damage to business or property.

[District Rule 402]

12. Operation of this equipment shall not cause or allow the emissions of fugitive dust from any transport, handling, construction or storage activity so that the presence of such dust remains visible in the atmosphere beyond the property line of the emission source. Furthermore, the facility shall take every reasonable precaution to minimize fugitive dust emissions from wrecking, excavation, grading, clearing of land and solid waste disposal operations.

[District Rule 403]

13. 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]