



## MOJAVE DESERT AIR QUALITY MANAGEMENT DISTRICT

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

### AUTHORITY TO CONSTRUCT

B015036

If construction is not completed by the expiration date of this permit, it may be renewed for one additional year upon payment of applicable fees. Any additional extension will require the written approval of the Air Pollution Control Officer. This Authority to Construct may serve as a temporary Permit to Operate provided the APCO is given prior notice of intent to operate and the Permit to Operate is not specifically denied.

### EXPIRES LAST DAY OF: APRIL 2025

#### OWNER OF OPERATOR (Co. #3025)

StratosFuel, Inc.  
P.O. Box 1446  
Riverside, CA 92502

#### EQUIPMENT LOCATION (Fac. #4460)

Mojave River Hydrogen Facility  
TBD  
Victorville, CA 92394

#### Description:

DEAERATOR, HYDROGEN PRODUCTION consisting of: One deaerator, manufactured by Sterling Deaerator Company; model no. Series HD-VTHS, serial no. TBD. Vent height 38 ft, diameter 0.17 ft, with an exhaust temperature of approximately 220 degrees Fahrenheit and an exhaust rate of approximately 104 scfm.

#### CONDITIONS:

1. This equipment 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(s) for this permit.

[District Rule 204]

2. The steam inlet flow to this equipment shall be measured and recorded for use in the quantification of the steam released to atmosphere through the deaerator vent. The calculations shall assume fifteen (15) percent of the measured inlet steam flow is released through the vent. Any proposed modification to this assumption due to design changes after the issuance of this permit will require the submission of an application to modify this permit, and will require the preparation of a revised Health Risk Assessment (HRA). In addition, public notice, additional equipment restrictions, and/or a commenting period may be required.

[District Rules 1302 and 1320]

3. The owner/operator shall maintain a current operations log for this deaerator on-site (or at a central location) for a minimum of five (5) years, and this log shall be provided to District, State and Federal personnel upon request. The log shall include, at a minimum, the

Fee Schedule: 5 (a)      Rating: 2222 gallons      SIC: 2813      SCC: 30180013      Location/UTM(Km): 466E/3827N

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.

StratosFuel, Inc.  
P.O. Box 1446  
Riverside, CA 92502

By: **COPY**  
Brad Poiriez  
Air Pollution Control Officer

information specified below:

- a. Records of the quantity of chemicals added to treat the feed water within this vessel, sufficient to calculate the concentration of toxic pollutants within the steam vented through this equipment;
- b. Records of the quantity of steam vented through this equipment (as calculated in accordance with condition #2);
- c. Records of repairs/maintenance performed on this deaerator; and,
- d. Records of malfunctions, including dates and durations, a description of each malfunction, and the corrective action taken for each malfunction.

[District Rules 204 and 1302]

4. In the event of a malfunction of any emissions related part of this deaerator, the unit 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]

5. The entire facility shall not emit any of the Regulated Pollutants listed below in excess of the following limits in any consecutive 12 month period to remain below the USEPA's Synthetic Minor - 80% (SM-80) threshold:

- a. Oxides of Nitrogen (NO<sub>x</sub>): 20 tons per consecutive twelve (12) month period, measured as NO<sub>2</sub>;
- b. Oxides of Sulfur (SO<sub>x</sub>): 20 tons per consecutive twelve (12) month period;
- c. Volatile Organic Compounds (VOC): 20 tons per consecutive twelve (12) month period;
- d. Carbon Monoxide (CO): 80 tons per consecutive twelve (12) month period;
- e. Hydrogen Sulfide (H<sub>2</sub>S): 8 tons per consecutive twelve (12) month period;
- f. Lead (Pb): 0.48 tons per consecutive twelve (12) month period;
- g. Particulate Matter 10 microns and less (PM<sub>10</sub>): 14.5 tons per consecutive twelve (12) month period;
- h. Any single Hazardous Air Pollutant (HAP): 8 tons per consecutive twelve (12) month period; and,
- i. All HAPs combined: 20 tons per consecutive twelve (12) month period.

Compliance with these limits shall be demonstrated through the submission of a facility-wide Comprehensive Emission Inventory (CEI) for all emitted Regulated Air Pollutants. Exceedance of these emission limits may trigger offsets, BACT, National Emission Standards for Hazardous Air Pollutants (NESHAP), 40 CFR Part 63, and/or require submission of a Title V permit application.

[District Rules 1302 and 1303]

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]