



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

C015037

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:

RELIEF FLARE consisting of: One relief flare, manufactured by GBA-Corona; model no. PF-10, serial no. TBD. Stack height approximately 99 feet, diameter approximately 10 inches, with an exhaust temperature of 2000 degrees Fahrenheit and a flow rate of 11 MMscf/day.

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

[District Rules 1302 and 1320]

3. A flaring event is defined as any planned or unplanned combustion of vent gas (any gas directed to a flare, excluding assist air or steam, flare pilot and sweep gas, and any continuous purge gas) in a flare. Emissions from all flaring events must be recorded in the log for this equipment and reported via facility wide Comprehensive Emission Inventory (CEI) Plan and Report.

[District Rule 204]

Fee Schedule: 7 (h)

Rating: 53 device

SIC: 2813

SCC: 39990024

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.

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

4. Visible emissions from this equipment shall not exceed 20 percent opacity (#1 on the Ringelmann Chart) for an aggregated period in excess of three minutes in any 60 minute period.

[District Rule 401]

5. Operation of this system shall not cause a public nuisance as defined in District Rule 402.

[District Rule 402]

6. The owner/operator shall maintain a pilot flame present at all times the flare is operational.

[District Rule 1303]

7. These flaring events are limited to the following durations:

- a. Shutdown: 1.5 hours per event, 9 hours total per year;
- b. SMR Maintenance: 1.5 hours per event, 1.5 hours total per year;
- c. PSA Maintenance: 2.5 hours per event, 2.5 hours total per year; and,
- d. Startup: 6 hours per event, 48 hours total per year.

Any flaring events exceeding the annual limitations above will require the submission of an application to modify the permit, and will require the preparation of a revised Health Risk Assessment (HRA). In addition, exceedance of the above limitations may trigger offsets, BACT, National Emission Standards for Hazardous Air Pollutants (NESHAP), require submission of a Title V permit application, public notice, additional equipment restrictions, and/or a commenting period may be required.

[District Rules 1302, 1303 and 1320]

8. The owner/operator shall maintain an operations log for this equipment on-site and current for a minimum of five (5) years, and log shall be provided to District personnel upon request. The operations log shall include, at a minimum, the following information:

- a. Total operation time (hours per month and an annual total);
- b. Total volume of each fuel combusted by this equipment on a monthly and annual basis (reported in standard cubic feet);
- c. Records of all planned and unplanned flaring events, including description and duration (in hours);
- d. Records of all maintenance and repair actions performed on this equipment by description and date; and,
- e. Records of malfunctions, including dates and durations, a description of each malfunction, and the corrective action taken for each malfunction.

[District Rules 1302 and 1303]

9. In the event of a malfunction of any emissions related part of this flare, 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]

10. 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_x): 20 tons per consecutive twelve (12) month period, measured as NO₂;
- b. Oxides of Sulfur (SO_x): 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 (H₂S): 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 (PM₁₀): 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), and/or require submission of a Title V permit application.

[District Rules 1302 and 1303]

11. A facility wide Comprehensive Emission Inventory (CEI) Plan and Report 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]