



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

B015662

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: FEBRUARY 2027

OWNER OF OPERATOR (Co. #102)

Elementis Specialties, Inc.
31763 Mountain View Road
Newberry Springs, CA 92365

EQUIPMENT LOCATION (Fac. #982)

Elementis Specialties - E Hector Rd
27575 E Hector Road
Newberry Springs, CA 92365

Description:

DIESEL IC ENGINE, PORTABLE* PRIME GENERATOR consisting of: A Certified Tier 4 Final diesel engine, USEPA family LCPXL12.5HTF, manufactured in TBD. Exhaust flow approximately 2461 acfm, at 936 degrees Fahrenheit through a TBD foot high by TBD inch diameter exhaust stack. Equipment is located at an elevation of 1937 feet above MSL. *Please note, this equipment may be operated at various locations, however emissions comply with the stationary requirements of 17 CCR 93115 and 40 CFR 60, Subpart IIII. While the engine MAY be used at various locations, the engine is not required to move from its footprint on an annual basis.

One AB Volvo Penta, Diesel fired internal combustion engine Model No. TWD1672GE and Serial No. 2016173958, Ammonia Oxidation Catalyst, Charge Air Cooler, Direct Injected, Electronic Control Module, Selective Catalytic Reduction, Selective Catalytic Reduction, Smoke Puff Limiter, Turbo Charged, producing 919 bhp with 6 cylinders at 1800 rpm while consuming a maximum of 41 gal/hr. This equipment powers a Model No. and Serial No. , rated at .

EMISSIONS RATES

Emission Type	Est. Max Load	Unit
CO	0.075	gm/bhp-hr
NOx	0.27	gm/bhp-hr
PM10	0.015	gm/bhp-hr
PM2.5	0.015	gm/bhp-hr
SOx	0.004	gm/bhp-hr
VOC	0.007	gm/bhp-hr

Fee Schedule: 1 (c)

Rating: 919 bhp

SIC: 1499

SCC: 20100102

Location/UTM(Km):
551E/3845N

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.

Elementis Specialties, Inc.
31763 Mountain View Road
Newberry Springs, CA 92365

By: **COPY**
Brad Poiriez
Executive Director

CONDITIONS:

1. This certified Tier 4 Final stationary compression-ignited internal combustion engine and any associated air pollution control 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 air 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 Rule 204; 40 CFR 60.4211(a)]

2. A non-resettable four-digit (9,999) hour timer shall be installed and maintained on this equipment to indicate elapsed engine operating time.

[District Rule 1160(E)(1)(ii); 17 CCR 93115.10(d)(1); 40 CFR 60.4209(a)]

3. This equipment shall only be fired on diesel fuel that meets the following requirements, or an alternative fuel approved by the ATCM for Stationary CI Engines:

a. Ultra-low sulfur concentration of 0.0015% (15 ppm) or less, on a weight per weight basis; and,

b. A cetane index or aromatic content, as follows:

(i) A minimum cetane index of 40; or,

(ii) A maximum aromatic content of 35 volume percent.

[17 CCR 93115.5(a); 40 CFR 60.4207(b); and 40 CFR 1090.305]

Note: Use of CARB certified ULSD fuel satisfies these requirements.

4. This engine shall not be operated unless all of the following emission control systems are properly functioning:

a. Ammonia Oxidation Catalyst;

b. Turbocharger;

c. Electronic Control Module;

d. Selective Catalytic Reduction System;

e. Charge Air Cooler; and

f. Electronic Direct Injection.

Furthermore, no changes shall be made to any of the above systems unless done so by a factory certified technician.

[District Rule 1302; 40 CFR 60.4211]

5. The owner/operator of this Internal Combustion Engine shall conduct inspections, whichever is the more frequent of, at least once every calendar quarter; or, after every 2,000 hours of engine operation. An inspection includes any testing, maintenance, and/or other procedures that ensure this Internal Combustion engine is operated in strict accordance with the manufacturer's specifications and in continual compliance with the provisions of this rule.

[District Rule 1160 (E)(1)(a)(i)]

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 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 information specified below:

a. Date, location (lat/long to five decimal places), and duration of each use (in hours);

b. Quarterly operating hours on a calendar quarter basis as determined by the installed hour meter;

c. Records of all inspection, maintenance and/or repair actions performed on the engine or associated air pollution control equipment, including date and description on any equipment noted in Condition #4;

d. Fuel sulfur concentration as required by condition #2 (you may use the supplier's certification of sulfur content if it is maintained as part of this log);

e. Any corrective action taken after the DPF backpressure monitor has notified the owner or operator that the high backpressure limit of the engine is approached;

f. Quarterly fuel use on a calendar quarter basis; and,

g. Calendar year operating hours as determined by the installed hour meter (to assist in CEI calculations).

[District Rule 204; District Rule 1160, 17 CCR 93115.10(a)(3)(C) and (D); 40 CFR 60.4214(c)]

7. This unit shall not operate within a 700 meters (2,295 feet) of any residential or sensitive receptor. Such operation will require the submittal of an application for a revised permit to operate so additional analysis can be performed to determine if a Health Risk Assessment and/or Public Notice will be applicable.

[District Rule 1302(C)(7)]

8. This engine's operation is not limited in its use as a stationary prime generator. Based on emission rates, this engine can be operated up to 24 hours/day, 7 days/week, 52 weeks/year as it meets the requirements of 40 CFR 60 Subpart IIII and 17 CCR 93115.7(a) Table 4, as well as the daily, monthly, and yearly emissions as defined in MDAQMD rules for equipment within the FONA.

[District Rule 1160; District Rule 1303; District Rule 1320; District Rule 1520; District Rule 1600; 17 CCR 93115.7(a)]

9. This engine is subject to the requirements of Title 17 CCR 93115, the Airborne Toxic Control Measure (ATCM) for Stationary Compression Ignition Engines and 40 CFR 60, Subpart IIII - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines (NSPS). In the event of a conflict between these conditions and the ATCM or NSPS, the more stringent requirements shall govern.

[District Rule 1302; Title 17 CCR 93115, the Airborne Toxic Control Measure (ATCM) for Stationary Compression Ignition Engines; 40 CFR 60, Subpart IIII - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines (NSPS)]

10. The facility-wide emissions must be less than the following limitations in each calendar year:

- a. 80 tons per year of Carbon Monoxide (CO)
- b. 20 tons per year of Oxides of Nitrogen (NO_x)
- c. 20 tons per year of Volatile Organic Compounds (VOC)
- d. 15 tons per year of Particulate Matter of 10 microns or less (PM₁₀) [More stringent limit is offset based]
- e. 20 tons per year of Oxides of Sulfur (SO_x)
- f. 8 tons per year of any single Hazardous Air Pollutant (HAP)
- g. 20 tons per year of any combination of HAP

Compliance shall be demonstrated to the District through the submission of a District approved Comprehensive Emission Inventory Report (CEIR) or other District approved equivalent method. The report shall be submitted to the District upon request.

Note: These emission limits keeps this facility BELOW SM-80 thresholds and precludes the requirements for Federal reportability.

[District Rules 1301 and 1320]

11. 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), Health & Safety Code 39607 & 44341-44342, 17 CCR 93400 et seq., and 40 CFR 51, Subpart A]