



**MOJAVE DESERT AIR QUALITY MANAGEMENT DISTRICT**

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

**INACTIVE**

E010649

Inactive type Permit has no description information.

**EXPIRES LAST DAY OF: DECEMBER 2016**

**OWNER OF OPERATOR (Co.#248)**

Sunray Energy, Inc  
35100 E Santa Fe Road  
Daggett, CA 92327

**EQUIPMENT LOCATION (Fac.#2009)**

Sunray Energy - SEGS II  
35100 E Santa Fe Road  
Daggett, CA 92327

**Description:**

DIESEL IC ENGINE, EMERGENCY GENERATOR consisting of: 2009 CAT C-18 Serial number TBD, 900 HP 6 cylinder 1800 RPM Internal Combustion Engine Tier II (9CPXL.1ESW) powering an emergency generator CAT LC7034F, Serial Number TBD, 600 ekW 750 kVA.

One Caterpillar, Diesel fired internal combustion engine Model No. C18-600KW and Serial No. FST00914 , Turbo Charged, After Cooled, producing 900 bhp with 6 cylinders at 1800 rpm while consuming a maximum of 43.0 gal/hr. This equipment powers a Caterpillar Generator Model No. LC7034F and Serial No. G7A02839 , rated at 600 ekW 750 kVA.

**EMISSIONS RATES**

Emission Type	Est. Max Load	Unit
CO	1.07	gm/bhp-hr
NOx	7.78	gm/bhp-hr
PM10	0.11	gm/bhp-hr
SOx	0.93	gm/bhp-hr
VOC	1.17	gm/bhp-hr

**CONDITIONS:**

1. This existing, diesel engine, and any associated air pollution control equipment, shall be installed, operated, and maintained in strict accord 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

Fee Schedule: 7 (g)

Rating: 1 device

SIC: 4911

SCC: 20300101

Location/UTM(Km):  
515E/3838N

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.

Sunray Energy, Inc  
PO Box 338  
Daggett, CA 92327

By: **COPY**  
**Eldon Heaston**  
Air Pollution Control Officer

submitted with the application for this permit.  
[40 CFR 63.6605(a) and (b) and 63.6625(e)]

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

[17 CCR 93115.10(d) and 40 CFR 63.6625(f)]

3. This equipment shall only be fired on diesel fuel that meets the requirements of CARB Diesel Fuel as defined in 17 CCR 93115.4(a)(8), or an alternative fuel that meets the requirements of 17 CCR 93115.5(a)(2-6), pursuant to the Air Toxic Control Measure for Stationary Compression Ignition Engines.

[17 CCR 93115.5(a)]

4. This equipment shall be limited to use for emergency power, defined as in response to a fire or when commercially available power has been interrupted. In addition, this unit shall be operated no more than twenty (20) hours per year for testing and maintenance.

[17 CCR 93115.6(b)(3) and 40 CFR 63.6640(f)(ii)]

5. The owner/operator shall maintain an operations log for this equipment 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/or Federal personnel, upon request. The log shall include, at a minimum, the information specified below:

- a. Date of each use and hours of operation with documentation of how many hours are spent for emergency operation, including what classified the operation as emergency, and how many hours are spent for non-emergency operation, including what classified the operation as non-emergency. [17 CCR 93115.10(f) and 40 CFR 63.6655(f)]; and,
- b. Monthly and calendar year operation in terms of total hours, both emergency and non-emergency use, classified as described in a. above [17 CCR 93115.10(f)]; and,
- c. Monthly fuel use [17 CCR 93115.10(f)]; and,
- d. Documentation of certified fuel use, as required by condition 4 (may use the supplier's certification of sulfur content if it is maintained as part of this log); and,
- e. Maintenance performed on this equipment, inclusive of the management practice requirements of condition 7 below; and,
- f. Records of the occurrence and duration of each malfunction of operation (i.e., process equipment) or the air pollution control and monitoring equipment [40 CFR 63.6640(b) and 63.6655(a)(2)]; and,
- g. Records of all required maintenance performed on the air pollution control and monitoring equipment [40 CFR 63.6655(a)(4)]; and,
- h. Records of actions taken during periods of malfunction to minimize emissions in accordance with condition 2, including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation [40 CFR 63.6655(a)(5)].

6. This engine is subject to the requirements of 40 CFR 63, Subpart ZZZZ, and pursuant to this federal regulation, this engine is required to meet the following compliance requirements by May 3, 2013:

The owner/operator of this equipment shall demonstrate continuous compliance by committing to a maintenance schedule inclusive of the management practice requirements listed below:

- a. Change oil and oil filter every 500 hours of operation or annually, whichever comes first (source has the option to utilize an oil analysis program pursuant to 40 CFR 63.6625(i) in order to extend the specified oil change requirement.);
- b. Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first; and,
- c. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.

[40 CFR 63.6603(a) and 63.6640(a)]

7. If this emergency engine is operating during an emergency and it is not possible to shut down the engine in order to perform the management practice requirements required by condition 7, or shutting down the engine would pose an unacceptable risk, the management practice can be delayed until the emergency is over, or the risk has been abated. The management practice should be performed as soon as practicable after the emergency/risk has ended. Sources must report any failure to perform the management practice on the schedule required and the Federal, State or local law under which the risk was deemed unacceptable.

[40 CFR 63.6603(a)]

8. The owner/operator must minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the emission standards applicable to

all times other than startup apply.  
[40 CFR 63.6625(h)]

9. This equipment may operate in response to notification of impending rotating outage if the area utility has ordered rotating outages in the area where the engine is located or expects to order such outages at a particular time, the engine is located in the area subject to the rotating outage, the engine is operated no more than 30 minutes prior to the forecasted outage, and the engine is shut down immediately after the utility advises that the outage is no longer imminent or in effect. [17 CCR 93115.6(b)(1) and 40 CFR 63.6640(f)(iii)]

10. This equipment shall not be used to provide power during a voluntary agreed to power outage and/or power reduction initiated under an Interruptible Service Contract (ISC); Demand Response Program (DRP); Load Reduction Program (LRP) and/or similar arrangement(s) with the electrical power supplier.  
[17 CCR 93115.6(c)(2)(C)]

11. This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.  
[District Rule 204]

12. The combined emissions from SEGS I and SEGS II shall be less than the following limits:

- a. 8 tons per year of any single HAP or 20 tons per year of any combination of HAPs on a 12 month calendar year basis
- b. 15 tons of PM10 on a 12 month calendar year basis
- c. 20 tons of NOx on a 12 month calendar year basis
- d. 20 tons of VOC on a 12 month calendar year basis

Compliance with this limit shall be verified with monthly facility emission summaries and an annual emissions inventory. Monthly emissions summaries shall be calculated using a District-approved method, with at least the last two years of monthly emissions summaries maintained and available to be provided to District, State or Federal personnel upon request. The facility must also submit an accurate emissions inventory data to the District, in a format approved by the District, on a yearly basis, which is to be received by the District no later than April 30 of each year.