MOJAVE DESERT AIR QUALITY MANAGEMENT DISTRICT
14306 Park AvenueVictorville,CA92392-2310
760.245.1661 -- 800.635.4617 -- FAX760.245.2022

INACTIVE

B013238

Inactive type Permit has no description information.

EXPIRES LAST DAY OF:JULY 2019

OWNER OF OPERATOR (Co.#2222)

Palmdale Energy, LLC
801 2nd Avenue
Seattle,WA98104

EQUIPMENT LOCATION (Fac.#3582)

Palmdale Energy LLC
950 East Avenue M
Palmdale,CA93550

Description:
AUXILIARY BOILER consisting of:Manufactured by Cleaver Brooks, Model: NB-300D-65 Water tube type or equivalent, Natural Gas fired, 110 MMBtu/hr, equipped with ultra low NOx boilers and flue gas recirculation. Stack Height: 18.3 meters Temp: 422 K Velocity: 20.4 m/s Diameter: 0.91 meters

CONDITIONS:

1.Operation of this equipment shall be conducted in compliance with all data and specifications submitted with the application under which this permit is issued unless otherwise noted below.
[Rule 204]

2.This equipment shall be exclusively fueled with pipeline quality natural gas and shall be operated and maintained in accordance with the recommendations of its manufacturer or supplier and/or sound engineering principles.
[Rule 431.1; Rule 1303(A); 40 CFR 60 Subpart Db]

3.This equipment is subject to the Federal NSPS codified at 40 CFR Part 60, Subparts A (General Provisions) and Db (Industrial-Commercial-Institutional Steam Generating Units).

4.Emissions from this equipment shall not exceed the following emission limits at any firing rate, verified by fuel use and annual compliance tests:
a. NOx as NO2 - 9.0 ppmvd corrected to 3% O2, 0.011 lbs/MMBtu, and 1.21 lb/hr (averaged over one hour)
b. CO - 50 ppmvd corrected to 3% O2, 0.037 lbs/MMBtu, and 4.07 lb/hr (averaged over one hour)
c. VOC as CH4 - 0.006 lbs/MMBtu and 0.66 lb/hr
d. SOx as SO2 - 0.0022 lbs/MMBtu and 0.25 lb/hr (based on 0.75 grains/100 dscf fuel sulfur)

Fee Schedule:C (N/A) Rating:1device SIC:491 SCC:10100601 Location/UTM(Km):425E/3830N

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.

Palmdale Energy, LLC
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By: **COPY**
Brad Poiriez
Air Pollution Control Officer

e. PM10/2.5 - 0.007 lbs/MMBtu and 0.77 lb/hr (front and back half)
[Rule 404; Rule 407; Rule 409; Rule 475; Rule 476; Rule 1303(A); 40 CFR 60.44b]

5.This equipment shall not be operated for more than 4,884 hours per rolling twelve month period.
[Rule 1303]

6.The o/o shall maintain an operations log for this equipment on-site and current for a minimum of five (5) years, and said log shall be provided to District personnel on request. The operations log shall include the following information at a minimum:
a. Total operation time (hours per month, by month);
b. Daily fuel use (to be used for calculating annual (12 month rolling sum) capacity factor;
c. Maximum hourly, maximum daily, total quarterly, and total calendar year emissions of NOx, CO, PM10/2.5, VOC and SOx (including calculation protocol); and,
c. Any permanent changes made to the equipment that would affect air pollutant emissions, and indicate when changes were made.
[Fuel Sulfur Monitoring- 40 CFR 60.42(b)(k)(2); 40 CFR 60.49b(r)(1)]

7.The o/o shall perform the following annual compliance tests on this equipment in accordance with the AVAQMD Compliance Test Procedural Manual. The test report shall be submitted to the District no later than six weeks prior to the expiration date of this permit. The following compliance tests are required:
a. NOx as NO2 in ppmvd at 3% oxygen and lb/hr (measured per USEPA Reference Methods 19 and 20).
b. VOC as CH4 in ppmvd at 3% oxygen and lb/hr (measured per USEPA Reference Methods 25A and 18).
c. SOx as SO2 in ppmvd at 3% oxygen and lb/hr (measured per USEPA Reference Method 6 or 6C or equivalent).
d. CO in ppmvd at 3% oxygen and lb/hr (measured per USEPA Reference Method 10).
e. PM10 and PM2.5 in mg/m3 at 3% oxygen and lb/hr (measured per USEPA Reference Methods 5 and 202 or CARB Method 5).
f. Flue gas flow rate in dscf per minute (measured per USEPA Method 2B or F Factor).
g. Opacity (measured per USEPA reference Method 9) initial test only
[40 CFR 60.44b(l) and 60.46b(c)(e)(g); Rule 1303]

8.A non-resettable four-digit (9,999) hour timer shall be installed and maintained on this unit to indicate elapsed operating time.
[Rule 1303]

9.This equipment shall exhaust through a stack at a minimum height of 60.5 feet.
[Rule 1303]

10.The o/o shall continuously monitor and record fuel flow rate and flue gas oxygen level.
[40 CFR 60 Subpart Db, Section 60.49b; Reporting and Recordkeeping Requirements]

11.In lieu of installing CEMs to monitor NOx emissions, and pursuant to 40 CFR 60 Subpart Db, Section 60.49b(c), the owner/operator shall monitor boiler operating conditions and estimate NOx emission rates per a District approved emissions estimation plan. The plan shall be based on the annual source tests required by Condition 7. The plan shall include test results, operating parameters, analysis, conclusions and proposed NOx estimating relationship consistent with established emission chemistry and operational effects. Any proposed changes to a District-approved plan shall include subsequent test results, operating parameters, analysis, and any other pertinent information to support the proposed changes. The District must approve any emissions estimation plan or revision for estimated NOx emissions to be considered valid. [40 CFR 60 Subpart Db, Section 60.49b(c)]