



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

C013624

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: NOVEMBER 2026

OWNER OF OPERATOR (Co.#88)

NAWS
429 E Bowen Road - Stop 4014
China Lake, CA 93555-6108

EQUIPMENT LOCATION (Fac.#4653)

NAWCWD Research and Development
429 E Bowen Road - Stop 4014
China Lake, CA 93555

Description:

DUST COLLECTOR, ABRASIVE BLASTING SYSTEM (AREA 'R') consisting of: A custom manufactured pulsejet cartridge style dust collector with 24 pleated filters, each measuring 13 inches in diameter by 26 inches long. The total filter area is 5,424 square feet and maximum unobstructed air flow is 12,000 acfm, yielding an air to cloth ratio of 2.2:1. The overall dimensions are 10 feet wide by 5 feet deep by 11 feet high and the exhaust fan is driven by a 25 hp motor. Maximum designed outlet grain loading is 0.001 grains/dscf.

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 for this permit. [District Rule 1302]
2. A manometer shall be installed to indicate the pressure differential across the filters. Furthermore, the pressure differential shall be maintained within the range specified by the filter manufacturer and that range shall be clearly marked/indicated on the manometer. [District Rules 1302 and 1303]

Fee Schedule: 7 (h)

Rating: 1 device

SIC: 8734

SCC: 30900201

Location/UTM(Km):
450E/3946N

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.

NAWS
Environmental Management Division

China Lake, CA 93555-6108

By: **COPY**
Brad Poiriez
Executive Director

3. This Dust Collector shall be fully functional and operating whenever the Abrasive Blaster described in District Permit A013623 is operating.

[District Rules 1302, 1303 and 1320]

4. Visible emissions from this equipment shall not exceed an opacity equal to, or greater than, twenty percent (20%) for a period aggregating more than three (3) minutes in any one (1) hour, excluding uncombined water vapor [District Rule 401]. This equipment shall not discharge air contaminants or materials constituting a nuisance to any considerable number of persons or to the public [District Rule 402].

[District Rules 401, 402, 403, and 1302(C)(2)(a)]

5. The owner/operator will periodically monitor opacity from fugitive emission points according to the following methodology:

(a) The owner or operator must conduct a monthly 6-minute visible emissions test in accordance with USEPA Method 22, provided the equipment under this permit is in operating within the corresponding month. Visible emissions tests shall be conducted while the equipment is in operation concurrently with abrasive blasting operations under permit A013326.

(b) If no visible emissions are observed in the first six months of visible emissions tests, the owner or operator may decrease the frequency of testing from monthly to semi-annually. If visible emissions are observed during any semi-annual test, the owner or operator must resume testing on a monthly basis and maintain that schedule until no visible emissions are observed in a six-month period.

(c) If no visible emissions are observed during two consecutive semi-annual tests, the owner or operator may decrease the frequency of testing from semi-annually to annually. If visible emissions are observed during any annual test, the owner or operator must resume testing on a monthly basis and maintain that schedule until no visible emissions are observed in two consecutive monthly tests.

[District Rules 401, 402, 403, and 1302(C)(2)(a)]

In the event that opacity is observed during the USEPA Method 22, the owner/operator must do one of the following:

a. Conduct a USEPA Method 9 to determine compliance with the opacity limit under this condition. If the opacity limit of this condition is not violated, the owner/operator must ensure that all equipment and controls are operating correctly, but operations are not required to be shut down. If the opacity limit of condition #4 is violated the owner/operator must adhere to option 'b' below.

b. Shut down the affected equipment and take corrective action to preclude any further emissions. Upon restarting the affected equipment, the owner/operator must conduct a USEPA Method 22 and/or Method 9 to demonstrate that the corrective action taken was sufficient. Equipment breakdowns resulting in violation and/or shutdown shall be reported to the District in accordance with District Rule 430.

[District Rules 403 and 430]

6. The owner/operator shall conduct semi-annual inspections of the filters, the filter suspension system, and the pulsing system to ensure there are no holes in the bags and the suspension and pulsing systems are functioning properly.

[District Rule 1302]

7. In the event of a malfunction of any emissions related part of this dust collector, the associated Abrasive Blaster described in District Permit A013623 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]

8. The owner/operator must maintain an operations log for this equipment. This log shall be maintained current, kept for a total of five (5) years and be provided to authorized personnel upon request. The log shall contain the following at a minimum:

(a) Pressure differential readings on the day of normal operations, in inches of water column.

(b) Results of all opacity checks as required by Condition #5;

(c) Results of all semi-annual system inspections as required by Condition #6; and

(d) Times and durations of malfunctions, a description of each malfunction, and the corrective action taken for each malfunction.

[District Rules 401 and 1302]

9. This facility has elected to voluntarily limit its emissions to the extent that this facility is no longer subject to the provisions of Regulation XII - Federal Operating Permits [District Rule 221(B)]. As such, 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) 25 tons per year of Oxides of Nitrogen (NOx) [More stringent limit is offset based]

- (c) 25 tons per year of Volatile Organic Compounds (VOC) [More stringent limit is offset based]
- (d) 15 tons per year of Particulate Matter of 10 microns or less (PM10) [More stringent limit is offset based]
- (e) 10 tons per year of Hydrogen Sulfide (H2S) [More stringent limit is offset based]
- (f) 25 tons per year of Oxides of Sulfur (SOx)
- (g) 0.5 tons per year of Lead (Pb)
- (h) 8 tons per year of any single Hazardous Air Pollutant (HAP)
- (i) 20 tons per year of any combination of HAP

Compliance with these emission limitations must be verified by pollutant-specific emission summaries for each calendar year. These emission summaries must be retained on-site for a minimum of five (5) years; and, must be made available for review upon request by District, State, and/or Federal personnel.

[District Rules 221(B), 1201(S) and 1303(B) - basis: offsets for NOx, VOC, PM10 and H2S only]

For the purposes of implementation of the Title I (Part D) Nonattainment New Source Review (nonattainment NSR), Title I (Part C) Prevention of Significant Deterioration (PSD), and Title V Operating Permit Programs under the Clean Air Act, Facility refers to a stationary source, or group of stationary sources that are located on one or more contiguous or adjacent properties that are owned, operated, supervised, or controlled by one or more Department of Defense (DoD) component(s) that were disaggregated during the course of major source determination(s), based upon appropriate industrial groupings and support facility relationships. Compliance with these limits shall be demonstrated through the submission of an installation-wide Comprehensive Emission Inventory (CEI) for all emitted regulated air pollutants or any pollutant listed under section 112(b) of the Clean Air Act (including 12 month emissions summary). Exceedance of these emission limits may trigger offsets, BACT, and/or require submission of a Title V permit application. [District Rules 1302 and 1303, 40 CFR 51.165, 40 CFR 52.21(b), 40 CFR 70.2 and "Major Source Determinations for Military Installations under the Air Toxics, New Source Review, and Title V Operating Permit Programs of the Clean Air Act," memorandum from John S. Seitz, Director, Office of Air Quality Planning and Standards, (August 2, 1996)]

10. A Comprehensive Emission Inventory (CEI) for all emitted criteria and toxic air pollutants located at this military installation (including, but not limited to, MDAQMD Facility nos. 567, 4650, 4651, 4652 and 4653) must be submitted to the District, in a format approved by the District, upon District request. For the purposes of CEI, Facility is defined as every structure, appurtenance, installation, and improvement on land which is associated with a source of air releases or potential air releases of a hazardous material. [District Rule 107(b); H&S Code 39607 & 44341-44342; 17 CCR 93400 et seq.; and 40 CFR 51, Subpart A]