



MOJAVE DESERT AIR QUALITY MANAGEMENT DISTRICT

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

PERMIT TO OPERATE

C001091

Operation under this permit must be conducted in compliance with all information included with the initial application, initial permit condition, and conditions contained herein. The equipment must be maintained and kept in good operating condition at all times. This Permit to Operate or copy must be posted on or within 8 meters of equipment. If a copy is posted, the original must be maintained on site, available for inspection at all times.

EXPIRES LAST DAY OF: JUNE 2025

OWNER OF OPERATOR (Co.#1)

CEMEX Construction Materials Pacific LLC
16888 North E Street
Victorville, CA 92392

EQUIPMENT LOCATION (Fac.#5)

CEMEX - Black Mountain Quarry Plant
25220 Black Mountain Quarry Road
Apple Valley, CA 92307

Description:

AIR POLLUTION CONTROL EQUIPMENT (GGF 2) consisting of: Kiln 2 Clinker Cooler Baghouse, Lurgi DS Model 2x4/4 DDS 28/N, Gravel Bed Type, with a Design Gas Flow rate of 425000 cubic meters (150,000 ACFM) per hour at an inlet temperature of 255 Degrees C. Total number of bags is 2080; material is Quartz; length is 5500 mm; diameter is 160mm; total filtration area is 5750 square meters; total number of Cages is 2080; Compressed Air Consumption (average) 87 Nm/h; Compressed Air Pressure for CLEANING 4 Bars; Compressed Air Pressure for ACTUATORS 7 Bars; Bag Cleaning on demand differential Pressure controller; Serves Kiln Q2 (B001083), Fan motor rated at 1475 hp, Exhaust temperature is 280 F. Facility has specified that the normal operating range for pressure differential is between 1 and 5 inches water column.

CONDITIONS:

1. This baghouse shall be operated in compliance with applicable requirements of 40 CFR 60 Subpart F - Standards of Performance for Portland Cement Plants and 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants From the Portland Cement Manufacturing Industry.

[District Rule 204]

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.

[District Rule 204]

Fee Schedule: 7 (h)

Rating: 1 device

SIC: 3241

SCC: 30500606

Location/UTM(Km): 476E/3826N

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.

CEMEX Construction Materials Pacific
LLC
16888 North E Street
Victorville, CA 92392

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

2.This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten percent opacity. [40 CFR Part 63 Subpart LLL Section 63.1345].

2.This baghouse shall operate concurrently with the Kiln Q2 under District Permit B001083. [District Rule 204]

3.The o/o shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63, Subpart LLL. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District, State or Federal personnel upon request:

- a. A site-specific opacity monitoring plan;
- b. Daily reading of baghouse pressure drop, date and value;
- c. Quarterly bag and bag suspension system inspection date and results;
- d. Monthly baghouse stack observations using USEPA Method 22 (10-minute test). The Method 22 test shall be conducted while the baghouse is operating. The test is successful if no visible emissions are observed. If any visible emissions are observed, the owner/operator of the affected facility must initiate corrective action within 24 hours to return the baghouse to normal operation;
- e. Date of bag replacements;
- f. Date and nature of any system repairs; and,
- g. PM emissions in lb/ton of clinker (per condition 8).

[District Rule 1302; 40 CFR 63.1350(f), 1355(g), 40 CFR 64.7(d)]

3.This baghouse shall not discharge PM10 in excess of 0.01 grains/dscf at the operating conditions given in the above description. [District Rule 1302]

4.This air pollution control device shall be fitted with an operating air lock system on each material discharge port and shall be provided with a differential pressure measuring device. The nominal design operational/differential pressure range shall be maintained in accordance with manufacturer's recommendations and/or good engineering practices.

[District Rule 1302]

4.The o/o shall conduct a minimum program of inspection and maintenance on this equipment. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District, State or Federal personnel upon request:

- a. Weekly reading of baghouse pressure drop, date and value;
- b. Quarterly bag and bag suspension system inspection date and results;
- c. Date of bag replacements;
- d. Date and nature of any system repairs; and,
- e. PM emissions in lb/ton of clinker (Not To Exceed 0.07)

[District Rule 1302]

5.This equipment shall be installed, operated and maintained in strict accordance with those recommendations of the manufacturer 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 204]

5.This baghouse shall be operated in compliance with applicable requirements of 40 CFR 60 Subpart F - Standards of Performance for Portland Cement Plants and 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants From the Portland Cement Manufacturing Industry.

[District Rule 204]

6.The owner/operator shall maintain a record of repairs and maintenance on this equipment and submit it to the District, State, or Federal personal upon request. The record shall be retained for a minimum period of five (5) years.

[District Rule 204]

6.This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten percent opacity. [40 CFR Part 63 Subpart LLL Section 63.1345]

7.This air pollution control device shall be fitted with an operating air lock system on each material discharge port and shall be provided with a differential pressure measuring device. The nominal design operational/differential pressure range shall be maintained in accordance with manufacturer's recommendations and/or good engineering practices.

[District Rule 1302]

7.This air pollution control device shall discharge no more than 2.14 pounds per hour of PM10 at a maximum concentration of 0.01 grains/dscf of TSP at the operating conditions given in the above description. To demonstrate compliance with this condition, the owner/operator shall maintain the manufacturer's data guaranteeing the grain loading of this dust collector.

[District Rule 1303 - NSR Requirements]

8.The owner/operator shall maintain on-site, as a minimum, an inventory of replacement bags/filters that assures compliance these conditions.

[District Rule 1302]

8.Pursuant to 40 CFR part 63 subpart LLL, PM emissions from this clinker cooler baghouse shall not exceed 0.07 lb/ton of clinker as verified by annual source testing.

[40 CFR Part 63 Subpart LLL Section 63.1343]

9.This air pollution control device shall discharge no more than 2.14 pounds per hour of PM10 at a maximum concentration of 0.01 grains/dscf at the operating conditions given in the above description. To demonstrate compliance with this condition, the owner/operator shall maintain the manufacturer's data guaranteeing the grain loading of this dust collector.

[District Rule 1303 - NSR Requirements]

9.PM shall be continuously monitored with a properly functioning PM Continuous Parametric Monitoring System (CPMS), maintained and calibrated in accordance with the manufactures requirements and the requirements of subsection 63.1350(b).

[District Rule 1302]

10.Pursuant to 40 CFR part 63 subpart LLL, PM emissions from this clinker cooler baghouse shall not exceed 0.07 lb/ton of clinker as verified by annual source testing.

[40 CFR part 63 subpart LLL section 63.1343]

10.The owner/operator shall conduct PM performance tests at a minimum of once every twelve (12) months. Tests shall be performed in accordance with EPA Method 5 or 5I and Method 202 (for Condensable quantification), and consist of three 1-hr tests. Test results shall indicate that baghouse stack emissions of filterable PM are no more than 0.07 Lbs/Ton - Clinker as required by subpart LLL and Condition 10 above.

[District Rule 204; 40 CFR 63 Subpart LLL]

11.PM shall be continuously monitored with a properly functioning PM Continuous Parametric Monitoring System (CPMS), maintained and calibrated in accordance with the manufactures requirements and the requirements of subsection 63.1350(b).

[District Rule 1302]

11.The owner/operator must submit a compliance/certification test protocol at least thirty (30) days prior to the compliance/certification test date. The owner/operator must conduct all required compliance/certification tests in accordance with a District-approved test protocol. The owner/operator must notify the District a minimum of ten (10) days prior to the compliance/certification test date so that an observer may be present. The final compliance/certification test results must be submitted to the District within forty-five (45) days of completion of the test. All compliance/certification test notifications, protocols, and results may be submitted electronically to reporting@mdaqmd.ca.gov.

[District Rule 204]

12.The owner/operator shall conduct PM performance tests at a minimum of once every twelve (12) months. Tests shall be performed in accordance with EPA Method 5 or 5I and Method 202 (for Condensable quantification), and consist of three 1-hr tests. Test results shall indicate that baghouse stack emissions of filterable PM are no more than 0.07 Lbs/Ton - Clinker as required by subpart LLL and Condition 10 above.

[40 CFR 63 Subpart LLL and District Rule 204]

12. The owner/operator shall maintain on-site, as a minimum, an inventory of replacement bags/filters that assures compliance these conditions.

[District Rule 1302]

13. The owner/operator must submit a compliance/certification test protocol at least thirty (30) days prior to the compliance/certification test date. The owner/operator must conduct all required compliance/certification tests in accordance with a District-approved test protocol. The owner/operator must notify the District a minimum of ten (10) days prior to the compliance/certification test date so that an observer may be present. The final compliance/certification test results must be submitted to the District within forty-five (45) days of completion of the test. All compliance/certification test notifications, protocols, and results may be submitted electronically to reporting@mdaqmd.ca.gov.

[District Rule 204]

13. The pollutant-specific emission unit (B001083), for which this baghouse controls is subject to the requirements of Compliance Assurance Monitoring (CAM) of 40 CFR 64. As such, this permit unit must be compliant with an approved CAM Plan. An excursion of the CAM Plan is defined as a differential pressure outside the range of 1 and 5 inches of column; and/or the presence of visible emissions, as demonstrated by condition 3(d) of this District Permit. Any excursion of the CAM Plan requires the owner operator to do the following:

- a. Inspect the affected equipment;
- b. Initiate a corrective action, within 24 hours; and
- c. Report/Document the excursion in facility recordkeeping required under condition 3 of this District Permit.

[40 CFR 64.7(d)]

14. This Baghouse is subject to District Rules and Regulations and the Cement NESHAP 40 CFR 63 Subpart LLL. In the event of conflict the more stringent requirements shall govern.

[District Rule 204]

14. 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); H&S Code 39607 & 44341-44342; 40 CFR 51, Subpart A]