



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

B007336

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:

ROLL PRESS NO. 1, RAW MATERIAL GRINDING consisting of: Roll Press Grinder. This process vents to 5 baghouses. Note: 75 GJ/Hr = 71.08 MMBTU/HR and 1 BHP = 2550 BTU/HR.

EQUIPMENT

Capacity	Equipment Description
5.09	Roll Press - KHD Humboldt Model #322/2 Serial # tbd - 2 motors @ 1,000 bhp each (2000 * 2550 = 5,100,000 btu)
0	Air Separator - DRP1VS
0	Gate Slide - DRP1VSG
0	Feed Bin - DRP1FB - 150 tons
71.08	Air Heater - Natural Gas - Aecometric Model # AC808 Serial # tbd - Rated at 75 GJ/Hr
0.1	Heater Blower Fan # 01 - DRP1AHF1 - 40 bhp
0	Fan Damper - DRP1AHF1D
0.076	Heater Blower Fan # 02 - DRP1AHF3 - 30 bhp
0	Fan Damper - DRP1AHF2D
0.765	Air Separator Roll Press #1 - DAS1 - 300 bhp
0.765	Bucket Elevator - DE04 - 2 motors at 150 bhp each
0.101	Air Slide - DAC14 - 40 bhp

Fee Schedule: 8 (e)

Rating: 79055000Btu

SIC: 3241

SCC: 30500613

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

Capacity	Equipment Description
0.063	Air Slide - DAC15 - 25 bhp
0.26	Air Slide - DAC16 - 2 motors at 15 bhp each and 3 motors at 25 bhp each
0.17	Air Slide - DAC17 - 3 motors at 15 bhp and 1 motor at 25 bhp
0.153	Air slides - DAC30 - 2 motors at 25 bhp and 1 motor at 10 bhp
0.06	Conveyor - DBC12 - 25 bhp
0.025	Conveyor - DBC13 - 10 bhp
0.153	Conveyor - DBC14 - 60 bhp
0.153	Conveyor - DBC15 - 60 bhp

CONDITIONS:

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

1.The owner/operator (o/o) shall maintain this equipment 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]

2.Equipment shall be operated/maintained according to the recommendations of the manufacturer/supplier and/or sound engineering principles.

2.This equipment shall not be operated unless it is vented to the properly functioning baghouses under valid District permits C007360 (DBH-9), C007361 (DBH-7), C007362 (DBH-8), C007363 (DBH-6), and C010085 (DBH-6A).

[District Rule 204]

3.This equipment shall not be operated unless it is vented to the properly functioning baghouses under valid District permits C007360 (DBH-9), C007361 (DBH-7), C007362 (DBH-8), C007363 (DBH-6), and C010085 (DBH-6A).

3.This equipment shall be equipped with a low-NOx burner with NOx emissions into the atmosphere not to exceed 40 PPMv @ 3% oxygen and/or 0.12 lbs of NOx per million BTU input.

[District Rule 204]

4.This equipment shall be equipped with a low-NOx burner with NOx emissions into the atmosphere not to exceed 40 PPMv @ 3% oxygen and/or 0.12 lbs of NOx per million BTU input.

4.This equipment shall not discharge into the atmosphere an exhaust stream with CO emissions not to exceed 400 ppmv.

[District Rule 204]

5.This equipment shall not discharge into the atmosphere an exhaust stream that exhibits an opacity during any one-hour (ten 6-minute averages) greater than the ten (10) percent opacity from all stacks.

[District Rule 204; 40 CFR 63.1343]

5.This equipment shall not discharge into the atmosphere an exhaust stream with CO emissions not to exceed 400 ppmv.

6.Visible emissions from this system 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 204; 40 CFR 63.1343]

6.This equipment shall not discharge into the atmosphere an exhaust stream that exhibits an opacity during any one hour (ten 6-minute averages) greater than the Ten (10) percent opacity from all stacks. (MACT 40 CFR 63 subpart LLL)

7.Visible emissions from this system 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. (Rule 401)

7.7. A facility log shall be maintained on-site for at least two (2) years and made available to District personnel upon request. This log shall contain, as a minimum:

- a. Amount of natural gas consumed per day,
 - b. Amount of natural gas consumed per month,
 - c. Amount of natural gas consumed per year,
 - d. Number of hours burner operated per day,
 - e. Number of hours burner operated per month,
 - f. Number of hours burner operated per year, and
 - g. Opacity results from fugitive emission points in accord with Conditions 6, and 7.
- [District Rules 204 and 1203]

8.A facility log shall be maintained on-site for at least two (2) years and made available to District personnel upon request. This log shall contain, as a minimum:

- a) Amount of natural gas consumed per day,
- b) Amount of natural gas consumed per month,
- c) Amount of natural gas consumed per year,
- d) Number of hours burner operated per day,
- e) Number of hours burner operated per month,
- f) Number of hours burner operated per year, and
- g) Opacity results from fugitive emission points in accord with Conditions 6, and 7.

8.The combined emissions from all permitted combustion source, including but not limited to Kilns Q2 and Q3 and Burners on Roll Press 1 and 2, on any fuel or mix of fuels, shall not exceed the following daily (midnight to midnight) limits, calculated on a rolling thirty (30) day arithmetic average basis:

- a. NO_x - 19,314 lbs (verified by CEMS and CERMS for kiln and Source Test and Production Logs for Roll Press Burners and other combustion sources)
 - b. SO_x - 4,220 lbs (verified by CEMS and CERMS for kiln and Source Test and Production Logs for Roll Press Burners and other combustion sources)
 - c. CO - 27,522 lbs (verified by CEMS and CERMS for kiln and Source Test and Production Logs for Roll Press Burners and other combustion sources)
 - d. VOC - 2,139 lbs (verified by annual source test and CERMS for kiln and Source Test and Production Logs for Roll Press Burners and other combustion sources)
 - e. Main Stack TSP - 1,435 lbs (verified by annual source test and CERMS for kiln and Source Test and Production Logs for Roll Press Burners and other combustion sources)
 - f. Clinker Cooler Stack TSP (Q2 clinker cooler only) - 699 lbs (verified by annual source test and clinker production)
- [District Rule 204]

9.The combined emissions from all permitted combustion source, including but not limited to Kilns Q2 and Q3 and Burners on Roll Press 1 and 2, on any fuel or mix of fuels, shall not exceed the following daily (midnight to midnight) limits, calculated on a rolling thirty (30) day arithmetic average basis:

- a. NO_x - 42,207 lbs (verified by CEMS and CERMS for kiln and Source Test and Production Logs for Roll Press Burners and other combustion sources)
- b. NO_x - 19,314 lbs (verified by CEMS and CERMS for kiln and Source Test and Production Logs for Roll Press Burners and other combustion sources)
- c. SO_x - 4,220 lbs (verified by CEMS and CERMS for kiln and Source Test and Production Logs for Roll Press Burners and other combustion sources)
- d. CO - 27,522 lbs (verified by CEMS and CERMS for kiln and Source Test and Production Logs for Roll Press Burners and other combustion sources)
- e. VOC - 2,139 lbs (verified by annual source test and CERMS for kiln and Source Test and Production Logs for Roll Press Burners and other combustion sources)
- f. Main Stack TSP - 1,435 lbs (verified by annual source test and CERMS for kiln and Source Test and Production Logs for Roll Press Burners and other combustion sources)

g. Clinker Cooler Stack TSP (Q2 clinker cooler only) - 699 lbs (verified by annual source test and clinker production)

(This condition should also be applied to Permits B001083, B005362, E001910, E009245, E009246, and E009247, use vendor emission data for emergency engines on E prefixed permits.)

9.The stacks (vents) that release produces of combustion shall be tested triennially for NOx, VOC and CO. (There shall be at least 30 months and no more than 40 months between source tests.)

[District Rule 204]

10.The stacks (vents) that release produces of combustion shall be tested triennially beginning in 2011 for NOx, VOC and CO. (There shall be at least 30 months and no more than 40 months between source tests.)

10.The owner/operator shall conduct all required compliance (initial and routine) tests in accordance with a District-approved test plan. Thirty (30) days prior to the compliance/certification tests the o/o shall provide a written test plan for District review and approval. Written notice of the compliance/certification test shall be provided to the District ten (10) days prior to the tests so that an observer may be present. A written report with the results of such compliance/certification tests shall be submitted to the District within forty-five (45) days after testing.

[District Rules 104 and 204]

11.The owner/operator shall conduct all required compliance (initial and routine) tests in accordance with a District-approved test plan. Thirty (30) days prior to the compliance/certification tests the o/o shall provide a written test plan for District review and approval. Written notice of the compliance/certification test shall be provided to the District ten (10) days prior to the tests so that an observer may be present. A written report with the results of such compliance/certification tests shall be submitted to the District within forty-five (45) days after testing (Rule 104)

11.This equipment is subject to the requirements of the Mojave Desert AQMD, the California Air Resources Board and the US Environmental Protection Agency. In the event of conflict between these conditions and the above requirements, the most stringent requirements shall govern.

[District Rule 204]

12.This equipment is subject to the requirements of the Mojave Desert AQMD, the California Air Resources Board and the US Environmental Protection Agency. In the event of conflict between these conditions and the above requirements, the most stringent requirements shall govern.

12.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]