

MARICOPA COUNTY AIR QUALITY DEPARTMENT

Engineering and Permitting Division

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AIR QUALITY PERMIT TO OPERATE AND/OR CONSTRUCT

(As required by Title 49, Chapter 3, Article 2, Section 49-480, Arizona Revised Statutes)

ISSUED TO

CEMEX Construction Materials South, LLC

22625 W. Beloit Road

Buckeye, AZ 85326

This air quality permit to operate and/or construct does not relieve the applicant of the responsibility of meeting all air pollution regulations.

THE PERMITTEE IS SUBJECT TO THE SPECIFIC AND GENERAL CONDITIONS IDENTIFIED IN THIS PERMIT.

PERMIT NUMBER: 050001

REVISION DATE: xx/xx/xxxx

REVISION NUMBER: 2.0.0.0

EXPIRATION DATE: 10/31/2020

Todd Martin, Non-Title V Permit Supervisor

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Any cited regulatory paragraphs or section numbers refer to the version of the rules and regulations that were in effect on the first date of public notice of the applicable Permit Condition unless specified otherwise. However, in the event the rules and regulations are amended during the term of this Permit, the amended rules and regulations shall apply to this Permit. Whenever the term, Control Officer, is used in this Permit it shall be interpreted to mean, Control Officer or designated representative. Where the term "Rule" appears, it shall be construed to mean "Maricopa County Air Pollution Control Regulations" unless otherwise noted.

SPECIFIC CONDITIONS

CONCRETE BATCH PLANT

1. Allowable Production Rate:

The Permittee shall not produce more than **4,007** cubic yards of concrete per day and **1,250,000** cubic yards of concrete per 12 consecutive-month period in the batch plant.

[Rule 220 §302.2] [Locally Enforceable Only]

2. Process Emission Limitations:

The Permittee shall not discharge or cause or allow to be discharged into the ambient air:

- a. Stack emissions exceeding 5% opacity.
- b. Fugitive dust emissions exceeding 10% opacity from any affected operation or process source, excluding truck.

[SIP Rule 316 §303.1]

3. Controls:

The Permittee shall implement the following process controls:

- a. On all cement, lime, and/or fly-ash storage silo(s), install an operational overflow warning system/device. The system/device shall be designed to alert operator(s) to stop the loading operation when the cement, lime, and/or fly-ash storage silo(s) are reaching a capacity that could adversely impact pollution abatement equipment.
- b. On new cement, lime, and/or fly-ash storage silos (defined as silos that began operation on or after June 8, 2005), install a properly sized fabric filter baghouse or equivalent device designed to meet a maximum outlet grain loading of 0.01 gr/dscf.
- c. On dry mix concrete plant loading stations/truck mixed product, implement one of the following process controls:
 - i. Install a rubber fill tube;
 - ii. Install a water spray;
 - iii. Install a properly sized fabric filter baghouse or delivery system;
 - iv. Enclose mixer loading stations such that no visible emissions occur; or
 - v. Conduct mixer loading stations in an enclosed process building such that no visible emissions from the building occur during the mixing activities.
- d. On cement silo filling processing/loading operations controls, install a pressure control system designed to shut-off cement silo filling processes/loading operations, if pressure from delivery truck is excessive, as defined in the O&M Plan.

[SIP Rule 316 §303.2]

CRUSHING AND SCREENING OPERATIONS

4. Allowable Production Rate:

The Permittee shall not process more than **7,000** tons of nonmetallic minerals per day and **2,520,000** tons of nonmetallic minerals per 12 consecutive-month period.

[Rule 220 §302.2] [Locally Enforceable Only]

5. New Source Performance Standards:

The Permittee shall comply with the requirements specified in 40 CFR 60, Subpart A, General Provisions and 40 CFR 60, Subpart OOO: Standards of Performance for Nonmetallic Mineral Processing Plants for all affected facilities that commenced construction, modification, or reconstruction after August 31, 1983. Affected facilities include each crusher, grinding mill, screening operation, bucket elevator, belt conveyor, bagging operation, storage bin, and enclosed truck or railcar loading station.

[40 CFR §§ 60.1, 60.670]

6. Process Emission Limitations:

The Permittee shall not discharge or cause or allow to be discharged into the ambient air:

- a. Fugitive dust emissions exceeding 7% opacity from any transfer point on a conveying system, except where the nonmetallic mineral is being transferred to a stockpile.
- b. Crushers:
 - i. Fugitive dust emissions exceeding 12% opacity from any crusher that commence construction, modification, or reconstruction on or after April 22, 2008.
 - ii. Fugitive dust emissions exceeding 15% opacity from any crusher that commences construction, modification, or reconstruction before April 22, 2008.
- c. Other affected operations:
 - i. Fugitive dust emissions exceeding 7% opacity from any affected operation or process source, excluding truck dumping that commence construction, modification, or reconstruction on or after April 22, 2008.
 - ii. Fugitive dust emissions exceeding 10% opacity from any affected operation or process source, excluding truck dumping that commences construction, modification, or reconstruction before April 22, 2008.
- d. Fugitive dust emissions exceeding 10% opacity from any transfer point on a conveying system to a stockpile.
- e. Fugitive dust emissions exceeding 20% opacity truck dumping directly into any screening operation, feed hopper, or crusher.
- f. Opacity observations to determine compliance shall be conducted in accordance with the techniques specified in Appendix C-Fugitive Dust Test Methods, of Rule 316.

[SIP Rule 316 §301.1] [40 CFR §60.672]

7. Controls:

The Permittee shall enclose the sides of all shaker screens and shall implement the following process controls:

- a. Permanently mount spray bars on the points listed below:
 - i. Inlet and outlet of all crushers;
 - ii. Outlet of all shaker screens; and
 - iii. Outlet of all material transfer points, excluding wet plants.
- b. Operate spray bars on the points listed in Subection [b] of this Permit Condition for crushers, shaker screens, and material transfer points, excluding wet plants, to continuously maintain a 4% minimum moisture content.
 - i. The watering systems shall be maintained in good operating condition, as verified by daily inspections.
 - ii. The Permittee shall investigate and correct any problems before continuing and/or resuming operations.

- iii. For affected facilities for which construction, modification, or reconstruction commenced on or after April 22, 2008, the Permittee shall perform monthly periodic inspections to check that water is flowing to discharge spray nozzles in the wet suppression system. The Permittee shall initiate corrective action within 24 hours and complete corrective action as expeditiously as practical if the Permittee finds that water is not flowing properly during an inspection of the water spray nozzles. The Permittee shall record each inspection of the water spray nozzles, including the date of each inspection and any corrective actions taken, in the logbook required under the Record Keeping provisions of this permit.
- iv. If an affected facility that routinely uses wet suppression water sprays ceases operation of the water sprays or is using a control mechanism to reduce fugitive emissions other than water sprays during the monthly inspection (for example, water from recent rainfall), the logbook entry required under the Record Keeping provisions of this permit shall specify the control mechanism being used instead of the water sprays.

[SIP Rule 316 §301.2] [40 CFR §60.674(b)]

VISIBLE EMISSIONS TESTING

8. Visible Emissions Testing:

- a. The Permittee shall demonstrate compliance with Condition [8] by conducting a visible emissions test of the following equipment using EPA Method 9. The test shall be conducted in accordance with 40 CFR §60.675.
 - i. Crusher in the primary crushing operations; and
 - ii. Any screening operations, transfer points on belt conveyors after this crusher, excluding any equipment associated with the wash plant.
- b. Testing Requirements: The Permittee shall conduct visible emissions tests on the equipment above within 60 calendar days after resuming operation.

[Rule 270 §401][SIP Rule 27 §A][40 CFR §§ 60.8(a), 60.675(i)]
- c. Testing Criteria: Visible emissions tests shall be conducted and data reduced in accordance with the test methods and procedures specified unless the Control Officer and Administrator specifies or approves minor changes in methodology to a reference method, approves the use of an equivalent test method, approves the use of an alternative method that has been determined to be acceptable for demonstrating compliance, or waives the requirement for performance tests because the Permittee has demonstrated by other means that the source is in compliance with the standard. For NSPS facilities, only EPA has the authority to waive initial testing requirements.

[Rule 270 §402][SIP Rule 27 §B][40 CFR §60.8(b)]
- d. Test Methods: The visible emissions evaluation shall be conducted in accordance with EPA Test Method 9.
 - i. When determining compliance with the fugitive emissions standards the duration of the Method 9 observations must be 30 minutes (five 6-minute averages). Compliance with the applicable fugitive emission limits must be based on the average of the five 6-minute averages.
 - ii. When determining compliance with the opacity of stack emissions from any baghouse that controls emissions only from an individual enclosed storage bin the duration of the Method 9 observations shall be 1 hour (ten 6-minute averages). The duration of the observations may be reduced to the duration the facility operates (but not less than 30 minutes) for baghouses that control storage bins or enclosed truck or railcar loading stations that operate for less than 1 hour at a time.

[Rule 270 §301.1][SIP Rule 27 §B][40 CFR §60.675]

- e. Operating Conditions: Visible emissions tests shall be conducted under representative operating conditions and all equipment shall be operated during testing in accordance with the most recently approved O&M Plan or according to its operations manual if no O&M Plan is required. The Permittee shall make available to the Control Officer any records necessary to determine appropriate conditions for visible emissions tests. Operations during periods of startup, shutdown, and equipment malfunction shall not constitute representative conditions for visible emissions tests unless otherwise specified in the applicable standard or permit conditions.

[Rule 270 §403][40 CFR §60.8(c)]

- f. Notice of Testing: The Permittee shall notify the Department in writing at least 7 days in advance of the actual date and time of each visible emissions test so that the Department may have a representative attend.

[Rule 270 §404][40 CFR §§ 60.8(d), 60.672]

WASH PLANT

9. Controls:

The Permittee operating a wash plant shall ensure that process materials are completely saturated with water. Saturated material means, mineral material with sufficient surface moisture such that particulate matter emissions are not generated from processing of the material through screening operations, bucket elevators and belt conveyors. Material that is wetted solely by wet suppression systems is not considered to be “saturated” for purposes of this definition.

[Rule 220 §302.2; Rule 241 §302] [Locally Enforceable Only]

GENERAL CONDITIONS FOR THE CONTROL OF FUGITIVE DUST

10. Collocation

The Permittee shall not co-locate any crushing & screening, hot mix asphalt plant and/or concrete batch facilities with the equipment covered by this permit as documented in the equipment list. Co-located sources are those located on contiguous or adjacent properties, which are under common control of the Permittee.

[Rule 100 §200.26, Rule 200 §303.3.c]

11. Other Associated Operations:

All other affected operations or process sources not specifically addressed in the concrete batch plant, asphaltic concrete plant, and/or the crushing and screening condition(s) associated with the processing of nonmetallic minerals, all other fugitive dust emission limitations not specifically listed in Rule 316 Section 306, “Fugitive Dust Emission Limitations,” all other fugitive dust control measures not specifically listed in Rule 316, Section 307, “Fugitive Dust Control Measures,” and all overburden operations shall, at a minimum, meet the provisions of Rule 310, “Fugitive Dust from Dust-Generating Operations.”

[SIP Rule 316 §304]

12. Air Pollution Control Equipment and Approved Emission Control System (ECS):

The Permittee shall provide, properly install and maintain in calibration, in good working order, and in operation any air pollution control equipment required in these permit conditions. When selecting air pollution control equipment, the Permittee may consider the site-specific and/or material-specific conditions and logistics of the specifically addressed facility. When doing so, some air pollution control equipment may be more reasonable to implement than others. Regardless, any air pollution control equipment that is installed must achieve the applicable standard(s) required by Rule 316, as determined by the corresponding test method(s), as applicable, and must achieve other applicable standard(s) set forth in Rule 316. The Permittee may submit a request to the Control Officer and the Administrator for the use of alternative air pollution control equipment. The request shall include the proposed alternative air pollution control equipment, the air pollution control equipment that the alternative would replace, and a detailed statement or report demonstrating that the air pollution control equipment would result in equivalent or better emission control than the equipment prescribed in Rule 316. Nothing in Rule 316 shall be construed to prevent the Permittee from making such demonstration. Following a decision by the Control Officer and the Administrator to grant the petition, the facility shall incorporate the alternative air pollution control equipment in any required Operation and Maintenance (O&M) Plan.

- a. Operation and Maintenance (O&M) Plan Requirements for ECS:
- i. The Permittee shall comply with the approved O&M Plan dated 07/16/2013 for the baghouses. The Permittee shall revise the O&M Plan upon the request of the Department and whenever substantive changes are made to the equipment or plan, in accordance with the Department guidelines.
 - ii. Each Operation and Maintenance (O&M) Plan shall specify key system operating parameters, such as temperatures, pressures and/or flow rates, necessary to determine compliance and describe in detail procedures to maintain the approved emission control system. The Permittee shall monitor, operate and maintain the equipment in accordance with the device's approved O&M Plan. At a minimum the plan shall include:
 - 1) Baghouse: Pressures, rates of flow, or other operating conditions necessary to determine if the control devices are functioning properly.
 - 2) Bin Vent Filter: Visible emissions.
 - iii. Changes to an existing O&M Plan shall be made by submitting a complete, revised O&M Plan along with a cover letter identifying all changes and the reason for such changes. The Permittee may implement the changes addressed in the revised O&M Plan after the revision is submitted to the Department. Unless disapproved in writing by the Department, the Permittee shall continue to operate in accordance with the revised O&M Plan.
 - iv. If any control device is found to be operating outside a specified range, the Permittee shall immediately take corrective action to bring the device back into the specified operating range or shut down the device and the associated equipment vented to it.
 - v. If a pattern of excursions, as determined by the Department or the Permittee, of operation outside the specified operating range develops, the Permittee shall submit for Department approval a Corrective Action Plan to bring the devices back into the specified operating range. The Plan shall be submitted to the Department, Attn: Compliance Manager, within 30 days of the determination of the existence of excursions.
- b. Operation and Maintenance (O&M) Plan Requirements for Dust Control Measures:
- i. The Permittee shall provide and maintain, readily available on-site at all times, (an) O&M Plan(s) for equipment associated with any process fugitive emissions and fugitive dust control measures (i.e., gravel pads, wheel washers, truck washers, rumble grates, watering systems, and street sweepers) that are implemented to comply with Rule 316 or an air pollution control permit.
 - ii. The Permittee shall submit to the Control Officer for approval the O&M Plan(s) for each Dust Control Measure.
 - iii. The Permittee shall comply with all the identified actions and schedules provided in each O&M Plan.
- c. Providing and Maintaining ECS Monitoring Devices:
The Permittee when operating an ECS shall install, maintain, and calibrate monitoring devices described in the O&M Plan(s). The monitoring devices shall measure pressures, rates of flow, and/or other operating conditions necessary to determine if the control devices are functioning properly.
- d. O&M Plan Responsibility:
The Permittee must fully comply with all O&M Plans that the Permittee has submitted for approval, even if such O&M Plans have not yet been approved, unless notified in writing by the Control Officer.
[SIP Rule 316 §305]
[40 CFR §60.674(d)(3)]

13. Fugitive Dust Emission Limitations:

- a. 20% Opacity Limitation:
For emissions that are not already regulated by an opacity limit, the Permittee shall not discharge or

cause or allow to be discharged into the ambient air fugitive dust emissions exceeding 20% opacity, in accordance with the test methods described in Section 503 of Rule 316 and in Appendix C-Fugitive Dust Test Methods of Maricopa County Rules.

b. Visible Emission Limitation beyond Property Line:

The Permittee shall not cause or allow fugitive dust emissions from any active operation, open storage pile, or disturbed surface area associated with such facility such that the presence of such fugitive dust emissions remain visible in the atmosphere beyond the property line of such facility.

c. Wind Event:

Fugitive dust emission limitations shall not apply during a wind event, if the Permittee meets the following conditions:

- i. Has implemented the Fugitive Dust Control Measures described in this Permit, as applicable;
- ii. Has compiled and retained Dust Control Plan Records required by this Permit, and has documented, by records, the occurrence of a wind event on the day(s) in question. The occurrence of a wind event must be determined by the nearest Maricopa County Air Quality Department monitoring station, from any other certified meteorological station, or by a wind instrument that is calibrated according to manufacturer's standards and that is located at the site being checked; and
- iii. Has implemented the following high wind fugitive dust control measures, as applicable:
 - 1) For an active operation, implement one of the following fugitive dust control measures, in accordance with the test methods described in Rule 316, Section 503 and Section 504, Maricopa County Rules and Regulations Appendix C-Fugitive Dust Test Methods:
 - a) Cease active operation that may contribute to an exceedance of the 20% opacity limitation, for the duration of the wind event and, if active operation is ceased for the remainder of the work day, stabilize the area; or
 - b) Before and during active operations, apply water or other suitable dust suppressant to keep the soil visibly moist.
 - 2) For an inactive open storage pile, implement one of the following fugitive dust control measures, in accordance with the test methods described in Rule 316, Section 503 and Section 504, Maricopa County Rules and Regulations Appendix C-Fugitive Dust Test Methods:
 - a) Maintain a soil crust by applying water or other suitable dust suppressant or by implementing another fugitive dust control measure, in sufficient quantities to meet the Stabilization Standards described in Section [e] of this Condition.
 - b) Cover open storage piles with tarps, plastic, or other material such that wind will not remove the covering, if the open storage pile is less than eight feet high.
 - 3) For an inactive disturbed surface area, implement one of the following fugitive dust control measures, in accordance with the test methods described in Rule 316, Section 503 and Section 504, Maricopa County Rules and Regulations Appendix C-Fugitive Dust Test Methods:
 - a) Uniformly apply and maintain surface gravel or a dust suppressant other than water; or
 - b) Maintain a soil crust by applying water or other suitable dust suppressant or by implementing another fugitive dust control measure, in sufficient quantities to meet the stabilization standards described in Rule 316, Section 505.

d. Silt Loading and Silt Content Standards for Unpaved Roads and Unpaved Parking and Staging Areas:

- i. From unpaved roads and unpaved parking and staging areas, the Permittee shall not discharge or allow to be discharged into the ambient air fugitive dust emissions exceeding 20% opacity, in accordance with the test methods described in Rule 316, Section 502, and in Maricopa County

Rules and Regulations Appendix C-Fugitive Dust Test Methods, and one of the following:

- 1) For unpaved roads, silt loading equal to or greater than 0.33 oz/ft² or silt content exceeding 6%.
- 2) For unpaved parking and staging areas, silt loading equal to or greater than 0.33 oz/ft² or silt content exceeding 8%.

e. Stabilization Standards:

i. If the Permittee has an open area or a disturbed surface area on which no activity is occurring (including areas that are temporarily or permanently inactive), the Permittee shall be considered in violation if the area is not maintained in a manner that meets at least one of the standards listed below, as applicable;

- 1) Maintain a soil crust;
- 2) Maintain a threshold friction velocity (TFV) for disturbed surface areas corrected for non-erodible elements of 100 cm/second or higher;
- 3) Maintain a flat vegetative cover (i.e., attached (rooted) vegetation or unattached vegetative debris lying on the surface with a predominant horizontal orientation that is not subject to movement by wind) that is equal to at least 50%;
- 4) Maintain a standing vegetative cover (i.e., vegetation that is attached (rooted) with a predominant vertical orientation) that is equal to or greater than 30%;
- 5) Maintain a standing vegetative cover (i.e., vegetation that is attached (rooted) with a predominant vertical orientation) that is equal to or greater than 10% and where the threshold friction velocity is equal to or greater than 43 cm/second when corrected for non-erodible elements;
- 6) Maintain a percent cover that is equal to or greater than 10% for non-erodible elements; or
- 7) Comply with a standard of an alternative test method, upon obtaining the written approval from the Control Officer and the Administrator.

ii. If no activity is occurring on an open storage pile and material handling or surface soils where support equipment and vehicles operate in association with such facility and if an open storage pile and material handling or surface soils where support equipment and vehicles operate in association with such facility contain more than one type of visibly distinguishable stabilization characteristics, soil, vegetation, or other characteristics, which are visibly distinguishable, the Permittee shall test each representative surface separately for stability, in an area that represents a random portion of the overall disturbed conditions of the site, in accordance with the appropriate test methods described in Rule 316, Section 505, and in Maricopa County Rules and Regulations Appendix C-Fugitive Dust Test Methods.

[SIP Rule 316 § 306]

14. Fugitive Dust Control Measures:

The Permittee shall comply with the requirements of the facility's Dust Control Plan and the provisions of MCAQD Rule 316, Section 307 at all times.

[SIP Rule 316 § 307]

15. Compliance Determination for Process Emissions, Fugitive Dust and Controls:

Compliance determinations for activities regulated by Rule 316, Section 301 [excluding Section 301.1(e)], Section 302, and/or Section 303, shall be made according to the test methods for those subparts of 40 CFR Part 60, Appendix A, adopted as of July 1, 2007, as listed below. Such subparts of 40 CFR Part 60, Appendix A, adopted as of July 1, 2007 and 40 CFR Part 51, Appendix M, adopted as of July 1, 2007, are adopted by reference as indicated. This adoption by reference includes no future editions or amendments. Copies of test methods referenced in Rule 316, Section 502, are available at Maricopa County Air Quality

Department, 1001 North Central Avenue, Phoenix, Arizona, 85004-1942. When more than one test method is permitted for a compliance determination, then an exceedance of the limits, determined by any of the applicable test methods, constitutes a violation.

a. Opacity Observations:

- i. Opacity observations to determine compliance with the visible emission limitations from processes and controls shall be conducted in accordance with the techniques specified in EPA Reference Method 203B (Visual Determination of Opacity of Emissions from Stationary Sources for Time-Exception Regulations), 40 CFR Part 51, Appendix M, adopted as of July 1, 2007. Emissions shall not exceed the applicable opacity standards for a period aggregating more than three minutes in any 60-minute period.

[SIP Rule 316 §502.2]

- ii. Opacity observations to determine compliance with fugitive dust emission limitations shall be conducted in accordance with the test methods described in Appendix C (Fugitive Dust Test Methods) of the Maricopa County Air Pollution Control Regulations (hereafter, Appendix C).

[SIP Rule 316 §503]

b. Soil Moisture Testing For Watering Systems:

- i. Moisture sampling shall be conducted within one hour of startup and again at 3 pm or within one hour prior to daily shutdown but no less frequently than once every 8-hour period.

- ii. If the Permittee demonstrates that the 4% minimum moisture content is maintained for a minimum of four weeks, then soil moisture tests may be conducted weekly.

- iii. If any of the following situations occur, the Permittee shall conduct soil moisture tests in accordance with Subsection [b.i] of this Permit Condition:

- 1) The Permittee fails to comply with the process emission opacity limitations described in Permit Condition 8; or
- 2) The Permittee fails to comply with the opacity or visible emission limitations described in Permit Conditions 15.a or 15.b; or
- 3) If two consecutive soil moisture tests are below 4%.

- iv. Moisture testing shall be conducted on all crushers, shaker screens, and material transfer points (excluding wet plants). Unless prior approval from the Control Officer is granted, moisture testing shall be conducted at the following sample points:

- 1) Within 10 feet from the point where crushed aggregate material is placed on the discharge belt conveyor from the crusher;
- 2) Within 10 feet from the point where screened aggregate material is placed on the conveyor; and
- 3) From each stacker point.

- v. The number of sampling points identified in Subsection [b.iv.1-3] of this Permit Condition may be reduced if the Permittee complies with all of the following requirements:

- 1) A 5% minimum moisture content, as demonstrated by a soil moisture test conducted in accordance with the test methods described in this Permit Condition, is maintained at the primary crusher;
- 2) A minimum of 20 soil moisture samples are taken at all of the points identified in Subsection [b.iv] of this Permit Condition;
- 3) A 4% minimum moisture content, as demonstrated by a soil moisture test conducted in accordance with the test methods described in this Permit Condition, and as demonstrated by the soil moisture samples required by Subsection [b.v.2] of this Permit Condition, is

maintained at all of the points identified in Subsection [b.iv] of this Permit Condition; and,

- 4) A written request is submitted to and approved by the Control Officer to revise/modify the Dust Control Plan to reflect the change in moisture content and the reduced number of sampling points according to the demonstration made by the Permittee.
- vi. Moisture testing is not required on a crusher and/or screen plant equipped with a baghouse or fabric filter, electrostatic precipitator, or wet scrubber, excluding wet spray bars, for control of particulate matter.
- vii. Moisture testing shall include all aggregate material less than 0.25 inch in diameter.
- viii. Moisture testing shall be conducted in accordance with the requirements of American Society for Testing and Materials C566-97 (2004) "Standard Test Method for Total Evaporable Moisture Content of Aggregate by Drying" with the exception that smaller sample portions may be used.

[SIP Rule 316 §§ 301.2, 502.3]

16. Facility Information Sign:

The Permittee shall erect and maintain a facility information sign at the main entrance such that members of the public can easily view and read the sign at all times. Such sign shall have a white background, have black block lettering that is at least four inches high, and shall contain at least all of the following information:

- a. Facility name and the Permittee's name;
- b. Current number of the air quality permit or of authority to operate under a general permit;
- c. Name and local phone number of person(s) responsible for dust control matters; and
- d. Text stating: "Dust complaints? Call Maricopa County Air Quality Department: 602-372-2703"

[SIP Rule 316 § 308]

17. Fugitive Dust Control Technician:

The Permittee shall have in place a Fugitive Dust Control Technician, who shall meet all of the following qualifications:

- a. Be authorized by the Permittee to have full authority to ensure that fugitive dust control measures are implemented on-site and to conduct routine inspections, recordkeeping, and reporting to ensure that all fugitive dust control measures are installed, maintained, and used in compliance with Rule 316.
- b. Be trained in accordance with the Comprehensive Dust Control Training Class conducted or approved by the Control Officer, successfully complete, at least once every three years, such Comprehensive Dust Control Training Class, and have a valid dust training certification identification card readily accessible on-site while acting as a Fugitive Dust Control Technician.
- c. Be authorized by the Permittee to install, maintain, and use fugitive dust control measures, deploy resources, and shutdown or modify activities as needed.
- d. Be on-site at all times during primary dust generating operations related to the purposes for which the permit was obtained.
- e. Be certified to determine opacity as visible emissions in accordance with the provisions of the EPA Method 9 as specified in 40 CFR, Part 60, Appendix A.
- f. Be authorized by the Permittee to ensure that the site superintendent or other designated on-site representative of the Permittee and water truck and water pull drivers for each site be trained in accordance with the Basic Dust Control Training Class conducted or approved by the Control Officer with jurisdiction over the site and successfully complete, at least once every three years, such Basic Dust Control Training Class.

[SIP Rule 316 § 309]

18. Basic Dust Control Training Class:

- a. At least once every three years, the site superintendent or other designated on-site representative of the

Permittee, if present at a site that has more than one acre of disturbed surface area that is subject to a permit issued by the Control Officer requiring control of PM10 emissions from dust generating operation, shall successfully complete a Basic Dust Control Training Class conducted or approved by the Control Officer.

- b. At least once every three years, water truck and water-pull drivers shall successfully complete a Basic Dust Control Training Class conducted or approved by the Control Officer.

[SIP Rule 316 § 310]

19. Dust Control Plan:

- a. The Permittee shall submit a Dust Control Plan to the Control Officer that describes all fugitive dust control measures to be implemented pursuant to the Conditions of this Permit.
- b. The Permittee shall submit a Dust Control Plan to the Control Officer that describes all equipment associated with process fugitive emissions dust control measures to be implemented in order to comply with the Conditions of this Permit.
- c. If an alternative plan for conducting required soil moisture tests is approved by the Control Officer, included in a Dust Control Plan, and implemented by the Permittee, as allowed under Rule 316, Section 301.2(c)(4), and if the Control Officer determines that such alternative plan included in a Dust Control Plan has been followed, yet fugitive dust emissions still exceed the standards of Rule 316, then the Control Officer shall issue a written notice to the Permittee explaining such determination. The Permittee shall make written revisions to the Dust Control Plan and shall submit such revised Dust Control Plan to the Control Officer within three working days of receipt of the Control Officer's written notice, unless such time period is extended by the Control Officer, upon request, for good cause. During the time that the Permittee is preparing revisions to the Dust Control Plan, the Permittee must still comply with all requirements of Rule 316, including:
 - i. Documentation of soil moisture content in order to comply with Rule 316, Section 301.2;
- d. The Dust Control Plan shall, in addition, contain all the information described in Rule 310-Fugitive Dust From Dust Generating Operations.
- e. All other criteria associated with the Dust Control Plan shall meet the criteria described in Rule 310-Fugitive Dust From Dust Generating Operations.
- f. The Control Officer shall approve, disapprove, or conditionally approve the Dust Control Plan, in accordance with the criteria used to approve, disapprove or conditionally approve a permit. Failure to comply with the provisions of an approved Dust Control Plan shall be deemed a violation.

[SIP Rule 316 § 311]

20. General Requirements:

The Permittee shall be subject to the standards and/or requirements of Rule 316 at all times. Failure to comply with any one of the following requirements shall constitute a violation.

- a. Process emission limitations and controls;
- b. Operation and Maintenance (O&M) Plan requirements for an emission control system and for dust control measures;
- c. Fugitive dust emission limitations;
- d. Fugitive dust control measures;
- e. Facility information sign requirement(s);
- f. Fugitive Dust Control Technician requirements;
- g. Basic Dust Control Training Class requirements;
- h. Dust Control Plan requirements;
- i. Monitoring and recordkeeping requirements;

[SIP Rule 316 § 312]

21. Monitoring, Recordkeeping and Reporting:

The Permittee shall comply with the following requirements. Records shall be retained for five years and shall be made available to the Control Officer upon request.

- a. Operational information required by this Permit shall be kept in a complete and consistent manner on-site and be made available without delay to the Control Officer upon request.
- b. Records of the following process and operational information, as applicable, are required:
 - i. Crushing and Screening: Daily records shall be kept for all days that the Permittee is actively operating. Records shall include all of the following, when applicable:
 - 1) Hours of operation;
 - 2) Amount of aggregate processed per day (tons per day);
 - ii. Concrete Batch Plant: Daily records shall be kept for all days that the Permittee is actively operating. Records shall include all of the following, when applicable:
 - 1) Hours of operation;
 - 2) Type of batch operation (wet, dry, central);
 - 3) Throughput per day of basic raw materials including sand, aggregate, cement (tons/day);
 - 4) Volume of concrete produced per day (cubic yards/day);
 - 5) Amount of each basic raw material including sand, aggregate, cement, fly ash delivered per day (tons/day);
 - iii. For facilities that assert to have less than 60 aggregate trucks, mixer trucks, and/or batch trucks exiting a facility on any day onto paved public roadways/paved areas accessible to the public, the Permittee shall record the number of aggregate trucks, mixer trucks, and/or batch trucks exiting the facility.
 - iv. Control and Monitoring Device Data – Records shall include all of the following:
 - 1) For a fabric filter baghouse or bin vent filter:
 - a) Date of inspection;
 - b) Date and designation of bag / cartridge replacement;
 - c) Date of service or maintenance related activities; and
 - d) Time, date, and cause of fabric filter baghouse / bin vent filter failure and/or down time, if applicable.
 - 2) For watering systems (e.g., spray bars or an equivalent control):
 - a) Date, time, and location of each moisture sampling point; and
 - b) Results of moisture testing.
- c. O&M Plan Records:

The Permittee shall maintain all of the following records in accordance with an approved O&M Plan:

 - i. For any ECS, any other Emission Processing Equipment, and any ECS Monitoring Devices that are used pursuant to this Permit or Rule 316:
 - 1) Periods of time that an approved ECS is operating;
 - 2) Periods of time that an approved ECS is not operating;
 - 3) Flow rates;
 - 4) Pressure drops;

- 5) Other conditions necessary to determine if the approved ECS is functioning properly;
 - 6) Results of visual inspections; and
 - 7) Correction action taken, if necessary.
- ii. For equipment associated with any process fugitive emissions and any fugitive dust control measures that are implemented to comply with this Permit or Rule 316:
- 1) A written record of self-inspection on each day that the Permittee is actively operating process equipment. Self-inspection records shall include daily inspections or compliance with O&M Plan requirements, whichever is more frequent;
 - 2) Maintenance of street sweepers; and
 - 3) Maintenance of trackout control devices, gravel pads, wheel washers, and truck washers.
- d. Dust Control Plan Records:
The Permittee shall compile, maintain, and retain a written record of self-inspection of all fugitive dust control measures implemented, in order to comply with the Dust Control Plan, on each day that the Permittee is actively operating process equipment. Self-inspection records shall include information as described in Rule 310-Fugitive Dust from Dust Generating Operations.
- e. Basic Dust Control Training Class Records:
The Permittee shall compile, maintain, and retain a written record for each employee subject to the Basic Dust Control Training Class requirements of this Permit. Such written records shall include the name of the employee, the date of the Basic Dust Control Training Class that such employee successfully completed, and the name of the agency/representative who conducted such class.
- f. Visible Emissions Test Reports:
The Permittee shall submit written reports of the results of all visible emissions tests conducted to demonstrate compliance with the standards set forth in NSPS Subpart OOO, including reports of opacity observations made using Method 9. The Permittee shall complete and submit the reports to the Department within 30 days after the completion of testing.
- g. Periodic Inspection Records for Wet Suppression System:
The Permittee of affected facilities for which construction, modification, or reconstruction commenced on or after April 22, 2008, shall record each periodic inspection, including dates and any corrective actions taken, in a logbook (in written or electronic format). The owner or operator shall keep the logbook onsite and make hard or electronic copies (whichever is requested) of the logbook available to the Maricopa County Air Quality Department upon request.
- h. The Permittee of any wet material processing operation that processes saturated and subsequently processes unsaturated materials, shall submit a report of this change within 30 days following such change. At the time of such change, this screening operation, bucket elevator, or belt conveyor becomes subject to the applicable opacity limits in this Permit.
- i. A notification of the actual date of initial startup of each affected facility, as defined in Permit Condition 7, shall be submitted to the Maricopa County Air Quality Department.
- i. For a combination of affected facilities in a production line that begin actual initial startup on the same day, a single notification of startup shall be submitted by the Permittee to Maricopa County Air Quality Department. The notification shall be postmarked within 15 days after such date and shall include a description of each affected facility, equipment manufacturer, and serial number of the equipment, if available.

[SIP Rule 316 §501] [40 CFR §60.676]

FUEL BURNING EQUIPMENT WITH INPUT CAPACITIES <10 MMBTU/HR

22. Operational Limitations:

The Permittee may only use natural gas, butane and propane as fuels for boilers and heaters.

[Rule 220 §302.2]

GENERAL CONDITIONS**23. Posting of Permit:**

This Permit shall be posted in a clearly visible and accessible location on the site where the equipment is installed.

[Rule 200 §312]

24. Compliance:

a. The issuance of any Permit or Permit revision shall not relieve the Permittee from compliance with any Federal laws, Arizona laws, or the County or SIP Rules, nor does any other law, regulation or permit relieve the Permittee from obtaining a Permit or Permit revision required under the County Rules.

[Rule 200 §309][Rule 220 §406.3][Locally Enforceable Only]

b. The Permittee shall comply with all conditions of this Permit including all applicable requirements of Federal laws, Arizona laws, and Maricopa County Air Pollution Control Rules and Regulations now in effect and as amended in the future. Any Permit noncompliance is grounds for enforcement action, Permit termination or revocation, or for denial of a renewal application. In addition, non-compliance with any federally enforceable requirements constitutes a violation of the Clean Air Act.

[A.A.C. R18-2-306.A.8.a][Locally Enforceable Only]

c. It shall not be a defense for the Permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with these Permit Conditions.

[Rule 220 §302.10][A.A.C. R18-2-306.A.8.b][Locally Enforceable Only]

d. Rights and Privileges: This Permit does not convey any property rights or exclusive privilege of any sort.

[Rule 220 §302.12][Locally Enforceable Only]

e. Fees: The Permittee shall pay all fees to the Control Officer in accordance with Rule 280. No permit or permit revision is valid until the applicable permit fee has been received and until the permit is issued by the Control Officer.

[Rule 200 §409][Rule 280 §302][A.R.S. 49-480(D)][SIP Rule 28]

25. Malfunctions, Emergency Upsets, and Excess Emissions:

An affirmative defense of an emergency, excess emission, and/or during startup and shutdown shall be demonstrated through properly signed, contemporaneous operating logs, or other relevant evidence as outlined in Rule 130 for emergencies and Rule 140 for excess emissions.

[Rule 130 §§201, 400][Rule 140 §§400, 500][SIP Rule 140]

26. Revision / Reopening / Revocation:

The Permit may be revised, reopened, revoked and reissued, or terminated for cause. The filing of a request by the Permittee for a permit revision, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any Permit Condition.

[Rule 220 §302.11][Locally Enforceable Only]

27. Records:

a. The Permittee shall furnish information that the Control Officer may request in writing to determine whether cause exists for revising, revoking and reissuing this permit, or terminating this permit, or to determine compliance with this permit. The information shall be provided in a timeframe specified by the Control Officer. Upon request, the Permittee shall also furnish to the Control Officer copies of records required to be kept by this Permit. For information claimed to be confidential, the Permittee shall furnish a copy of such records directly to the Administrator along with a claim of confidentiality.

[Rule 220 §302.13][SIP Rule 40]

b. If the Permittee fails to submit any relevant facts or has submitted incorrect information in a permit application, the Permittee shall, upon becoming aware of such failure or incorrect submittal, promptly submit such supplementary facts or corrected information. In addition, the Permittee shall provide additional information as necessary to address any requirements that become applicable to the source

after the date a complete application is filed but prior to release of a proposed permit. Willful misrepresentation of facts in a permit application is cause for revocation or denial of a permit.

[Rule 220 §§301.5, 301.6][Locally Enforceable Only]

28. Right to Entry:

- a. The Control Officer during reasonable hours, for the purpose of enforcing and administering County or SIP Rules or the Clean Air Act, or any provision of the Arizona Revised Statutes relating to the emission or control prescribed pursuant thereto, may enter every building, premises, or other place, except the interior of structures used as private residences. Every person is guilty of a petty offense under A.R.S. 49-488 who in any way denies, obstructs or hampers such entrance or inspection that is lawfully authorized by warrant.
- b. The Permittee shall allow the Control Officer or his designated representatives, upon presentation of proper credentials (e.g., Maricopa County Air Quality Department identification) and other documents as may be required by law, to:
 - i. Enter upon the Permittee's premises where a source is located or emissions-related activity is conducted, or where records are required to be kept pursuant to the conditions of the permit;
 - ii. Have access to and copy, at reasonable times, any records that are required to be kept pursuant to the conditions of the permit;
 - iii. Inspect, at reasonable times, any sources, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required pursuant to this permit;
 - iv. Sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with the Permit or other applicable requirements; and
 - v. To record any inspection by use of written, electronic, magnetic, and photographic media.

[Rule 100 §105][Rule 220 §302.17-21][SIP Rule 43]

29. Severability:

The rules, paragraphs, clauses, provisions, and/or sections of this Permit are severable, and, if any rule, paragraph, clause, provision, and/or section of this Permit is held invalid, the remainder of this Permit shall not be affected thereby.

[Rule 220 §302.9][SIP Rule 80]

Equipment List

CEMEX - BUCKEYE PLANT

Permit Number 050001

Date Issued: 10/24/05

Revision: 2.0.0.0

Equipment Description	Rated Capacity	Quantity Exist/Future
CONCRETE BATCH PLANT		
1. BIN - 4-COMPARTMENT AGGREGATE BIN (100 CU. YD HEAPED CAPACITY), HINGED BIN EXTENSION W/ ONE REMOVABLE PARTITION, 12 CU. YD. AGG. BATCHER W/ TWO DISCHARGE GATES		1 /
2. WATER HEATER - PROPANE FIRED	1,260,000.00 BTU/HR	1 /
3. CONVEYOR - 4- AGGREGATE BIN CHARGING CONVEYORS W/ 25 HP DRIVE		/
4. CONVEYOR - SILT CONVEYOR W/ 15 HP DRIVE		1 /
5. CONVEYOR - 36" INCLINED BATCH TRANSFER CONVEYOR, 87'-7" C. TO C. W/ 60 HP DRIVE & ACCESS WALKWAY		1 /
6. BIN - 3-COMPARTMENT CEMENT BIN, FILTER VENT		1 /
7. CONCRETE BATCH PLANT - 12 CU. YD. CEMENT BATCHER, FILTER VENT	458.00 TON(S)/HR	1 /
8. HOPPER - 12 CU. YD. COMBINATION AGG, CEMENT & H2O HOLDING HOPPER, FILTER VENT		1 /
9. CHUTE - TRUCK CHARGING CHUTE W/ STEEL EXTENSION		1 /
10. EQUIPMENT - GUPPY #1, RETESA, 34-61116	157.00 TON(S)	1 /
11. EQUIPMENT - GUPPY #2, RETESA, 34-59337	157.00 TON(S)	1 /
12. DUST COLLECTOR - CENTRAL LOADING STATION DUST COLLECTOR-C&W RA-120, SERIAL #8925 5000 CFM		1 /
13. DUST COLLECTOR - C&W ATTACHED TO CEMENT .SILO-4101-CS1A, MODEL LPR-8-S, SERIAL #22789	2,340.00 CFM	1 /
14. DUST COLLECTOR - C&W,CP-LPR-6, SERIAL #13440	1,760.00 CFM	1 /
15. DUST COLLECTOR - C&W ATTACHED TO CEMENT SILO-4101-CS2A, MODEL LPR-8-S, SERIAL #22789	2,340.00 CFM	1 /
16. SILO - FLYASH; PORTABLE BATCHING SILO W/ AUGER/ DSS/LO-PRO	30.00 TON(S)	1 /
17. DUST COLLECTOR - DSS AIRMAX 150	375.00 CFM	1 /
DREDGE		
1. EQUIPMENT - DREDGE, RHOR AS07/0165		1 /
2. CRUSHER - DREDGE JAW CRUSHER WITH DISCHARGE BELT, KOLBERG/PIONEER 3055, #407954	1,000.00 TON(S)/HR	1 /
3. SCREEN - DEWATERING SCREEN, DBR FORDERTECHNIK H2PP6000180015	1,000.00 TON(S)/HR	2 /
4. SCREEN - DEWATERING SCREEN WITH CROSS CONVEYOR, DBR FORDERTECHNIK H1E40001600-3	1,000.00 TON(S)/HR	1 /
5. CONVEYOR - FLOATING CONVEYOR, RHOR 42"X100'	1,000.00 TON(S)/HR	1 /
6. CONVEYOR - FLOATING CONVEYOR, RHOR 42"X150'	1,000.00 TON(S)/HR	1 /
7. CONVEYOR - LAND TO WATER CONVEYOR, RHOR 42"X80'	1,000.00 TON(S)/HR	1 /
8. CONVEYOR - LAND CONVEYOR, REUTER 42"X60'	1,000.00 TON(S)/HR	2 /
9. STACKER - THOR T135-12 #1806	1,000.00 TON(S)/HR	1 /
PRIMARY CRUSHER		

Equipment List

CEMEX - BUCKEYE PLANT

Permit Number 050001

Equipment Description	Rated Capacity	Quantity Exist/Future
1. FEEDER - PIONEER	700.00 TON(S)/HR	1 /
2. CONVEYOR - FEEDER DISCHARGE CONVEYOR, REUTER 3660-0402-S, 36"X60'	700.00 TON(S)/HR	1 /
3. CONVEYOR - SCREEN FEED CONVEYOR, REUTER 3660-1104-4, 36"X60'	700.00 TON(S)/HR	1 /
4. SCREEN - JCI S041292, 7'X20'	700.00 TON(S)/HR	1 /
5. CONVEYOR - CONE FEED CONVEYOR, REUTER 3660-0904-S, 36"X60'	700.00 TON(S)/HR	1 /
6. CRUSHER - CONE CRUSHER WITH UNDER CONE BELT, JCI RA-1400, 00C01G1400RA	300.00 TON(S)/HR	1 /
7. CONVEYOR - RETURN ROCK CONVEYOR, REUTER 3030-1004-2, 30"X30'	700.00 TON(S)/HR	1 /
8. CONVEYOR - RETURN ROCK CONVEYOR, REUTER 3660-0804, 36"X60'	700.00 TON(S)/HR	1 /
9. CONVEYOR - AB TRANSFER CONVEYOR, REUTER 3660-1104-3, 36"X40'	700.00 TON(S)/HR	1 /
10. CONVEYOR - SCALE CONVEYOR, REUTER 3660-0904, 36"X60'	700.00 TON(S)/HR	1 /
11. CONVEYOR - STACKER FEED CONVEYOR, REUTER 3660-0904, 36"X36'	700.00 TON(S)/HR	1 /
12. STACKER - AB STACKER, THOR 1525	700.00 TON(S)/HR	1 /
WASH PLANT		
1. FEEDER - REUTER 3612-0704	350.00 TON(S)/HR	1 /
2. CONVEYOR - SCREEN FEED CONVEYOR, DAKOTA FAB, 36"X80'	350.00 TON(S)/HR	1 /
3. SCREEN - WET SCREEN, JCI, 6'X20'	350.00 TON(S)/HR	1 /
4. SCREW - TWIN SAND SCREW, KOLBERG 5044-321	350.00 TON(S)/HR	1 /
5. CONVEYOR - CONCRETE SAND FEED CONVEYOR, REUTER 36"X60'	350.00 TON(S)/HR	1 /
6. STACKER - CONCRETE SAND STACKER, SUPERIOR, 36"X125'	350.00 TON(S)/HR	1 /
7. SCREW - MORTAR SAND SCREW, EAGLE IRON, 25'X40'	350.00 TON(S)/HR	1 /
8. STACKER - MORTAR SAND STACKER, SUPERIOR, 36"X125'	350.00 TON(S)/HR	1 /
9. CONVEYOR - 3/8" STACKER FEED CONVEYOR, REUTER, 36"X60'	350.00 TON(S)/HR	1 /
10. STACK - 3/8" STACKER, REUTER, 36"X60'	350.00 TON(S)/HR	1 /
11. CONVEYOR - 1" STACKER FEED CONVEYOR, REUTER, 30"X60'	350.00 TON(S)/HR	1 /
12. STACKER - 1" STACKER, REUTER, 36"X60'	350.00 TON(S)/HR	1 /
13. CONVEYOR - 1/2" STACKER FEED CONVEYOR, REUTER, 36"X60'	350.00 TON(S)/HR	1 /
14. STACKER - 1/2" STACKER, REUTER, 36"X60'	350.00 TON(S)/HR	1 /
De Minimis Equipment:		
1. TANK, ABOVEGROUND STORAGE - DIESEL	10,000.00 GALLON(S)	1 /

Equipment List

CEMEX - BUCKEYE PLANT
Permit Number 050001

Equipment Description	Rated Capacity	Quantity Exist/Future
De Minimis Equipment:		
2. EQUIPMENT - ROCK BREAKER (DREDGE), BREAKER TECHNOLOGY MB513H-BT2000		1 /