

## CLASS II AIR QUALITY PERMIT

### DRAFT PERMIT No. 96134

**PERMITTEE:** Coffman Specialties, Inc.  
**FACILITY:** Coffman Specialties – Concrete Batch Plant  
**PLACE ID:** 18312  
**DATE ISSUED:** Date Pending  
**EXPIRY DATE:** Date Pending

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### SUMMARY

This Class II synthetic minor permit is issued to Coffman Specialties, Inc., the Permittee, for the continued operation of a portable concrete batch plant. The portable concrete batch plant will be located at different sites within the State of Arizona. This permit renews and supersedes Permit No. 66684.

The portable concrete batch plant is capable of producing 300 cubic yards of concrete per hour. Without the operational limits specified in this permit, the portable concrete batch plant has the potential to emit criteria pollutant emissions in excess of major source thresholds. Hence, a baghouse has been installed to control particulate matter emissions. Therefore, the portable concrete batch plant qualifies for a Class II synthetic minor permit as allowed under Arizona Administrative Code (A.A.C.) R18-2-306.01.A.

This permit is issued in accordance with Arizona Revised Statutes 49-426. It contains requirements from Title 18, Chapter 2 of the A.A.C. and Title 40 of the Code of Federal Regulations (CFR). All definitions, terms, and conditions used in this permit conform to those in the Arizona Administrative Code R18-2-101 et. seq. (A.A.C.) and Title 40 of the CFR, except as otherwise defined in this permit.

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**ATTACHMENT "A": GENERAL PROVISIONS**

**I. PERMIT EXPIRATION AND RENEWAL**

- A.** This permit is valid for a period of five (5) years from the date of issuance.  
[ARS § 49-426.F, A.A.C. R18-2-306.A.1]
- B.** The Permittee shall submit an application for renewal of this permit at least six (6) months, but not more than eighteen (18) months, prior to the date of permit expiration.  
[A.A.C. R18-2-304.D.2]

**II. COMPLIANCE WITH PERMIT CONDITIONS**

- A.** The Permittee shall comply with all conditions of this permit including all applicable requirements of the Arizona Revised Statutes (A.R.S.) Title 49, Chapter 3, and the air quality rules under Title 18, Chapter 2 of the Arizona Administrative Code. Any permit noncompliance is grounds for enforcement action; for permit termination, revocation and reissuance, or revision; or for denial of a permit renewal application. In addition, noncompliance with any federally enforceable requirement constitutes a violation of the Clean Air Act.  
[A.A.C. R18-2-306.A.8.a]
- B.** It shall not be a defense for a Permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.  
[A.A.C. R18-2-306.A.8.b]

**III. PERMIT REVISION, REOPENING, REVOCATION AND REISSUANCE, OR TERMINATION FOR CAUSE**

- A.** 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, termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition.  
[A.A.C. R18-2-306.A.8.c]
- B.** The permit shall be reopened and revised under any of the following circumstances:
1. The Director or the Administrator determines that the permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the permit; and  
[A.A.C. R18-2-321.A.1.c]
  2. The Director or the Administrator determines that the permit needs to be revised or revoked to assure compliance with the applicable requirements.  
[A.A.C. R18-2-321.A.1.d]
- C.** Proceedings to reopen and issue a permit, including appeal of any final action relating to a permit reopening, shall follow the same procedures as apply to initial permit issuance and shall affect only those parts of the permit for which cause to reopen exists. Such reopening shall be made as expeditiously as practicable. Permit reopenings shall not result in a resetting of the five-year permit term.  
[A.A.C. R18-2-321.A.2]

**IV. POSTING OF PERMIT**

**A.** The Permittee shall post this permit or a certificate of permit issuance on location where the equipment is installed in such a manner as to be clearly visible and accessible. All equipment covered by this permit shall be clearly marked with one of the following:

[A.A.C. R18-2-315.A]

1. Current permit number; or
2. Serial number or other equipment ID number that is also listed in the permit to identify that piece of equipment.

**B.** A copy of the complete permit shall be kept on site.

[A.A.C. R18-2-315.B]

**V. FEE PAYMENT**

The Permittee shall pay fees to the Director pursuant to ARS § 49-426(E) and A.A.C. R18-2-326.

[A.A.C. R18-2-306.A.9 and -326]

**VI. EMISSIONS INVENTORY QUESTIONNAIRE AND STATEMENT**

**A.** Emissions Inventory Questionnaire

1. The Permittee shall complete and submit to the Director an emissions inventory questionnaire no later than June 1 every three (3) years beginning June 1, 2021. At the Director's request, the Permittee may be required to complete and submit emissions inventory questionnaires in addition to the triennial emissions inventory questionnaire. The Director shall notify the Permittee in writing of the decision to require additional emissions inventory questionnaires.

[A.A.C. R18-2-327.A.1.b]

2. The emissions inventory questionnaire shall be on an electronic or paper form provided by the Director and shall include the information required by A.A.C. R18-2-327.A.3 for the previous calendar year.

[A.A.C. R18-2-327.A.3]

3. The Permittee shall submit to the Director an amendment to an emissions inventory questionnaire, containing the documentation required by A.A.C. R18-2-327.A.3, whenever the Permittee discovers or receives notice, within two (2) years of the original submittal, that incorrect or insufficient information was submitted to the Director by a previous emissions inventory questionnaire. The amendment shall be submitted to the Director within 30 days of discovery or receipt of notice. If incorrect or insufficient information resulted in an improper annual emissions fee, the Director shall require that additional payment be made, or shall apply an amount as a credit to a future annual emissions fee. The submittal of an amendment shall not subject the Permittee to an enforcement action or a civil or criminal penalty if the original submittal of incorrect or insufficient information was not due to willful neglect.

[A.A.C. R18-2-327.A.4]

**B.** Emissions Inventory Statement

1. If the source operated in an ozone nonattainment area and actual emissions of nitrogen oxides (NO<sub>x</sub>) and/or volatile organic compounds (VOCs) during the calendar year were 25 tons or more, then the Permittee shall complete and submit to the Director an emissions inventory statement no later than June 1 of the following year. If the Permittee submits an emission inventory questionnaire under Condition VI.A, then the Permittee is not required to submit an emissions inventory statement for that submission year.

[A.A.C. R18-2-327.B.1 and B.5]
2. The emissions inventory statement shall be on an electronic or paper form provided by the Director and shall include the information required by A.A.C. R18-2-327.B.2 for the previous calendar year.

[A.A.C. R18-2-327.B.2]
3. If either NO<sub>x</sub> or VOC annual emissions are greater than or equal to 25 tons, the other pollutant shall be included in the emissions inventory statement even if it is less than 25 tons.

[A.A.C. R18-2-327.B.3]
4. The Permittee shall submit to the Director an amendment to an emissions inventory statement containing the documentation required by A.A.C. R18-2-327.B.2 whenever the Permittee discovers or receives notice within two (2) years of the original submittal that incorrect or insufficient information was submitted to the Director by a previous emissions statement. The amendment shall be submitted to the Director within 30 days of discovery or receipt of notice. The submittal of an amendment shall not subject the Permittee to an enforcement action or a civil or criminal penalty if the original submittal of incorrect or insufficient information was not due to willful neglect.

[A.A.C. R18-2-327.B.4]

## VII. COMPLIANCE CERTIFICATION

- A. The Permittee shall submit a compliance certification to the Director annually which describes the compliance status of the source with respect to each permit condition. The certification shall be submitted no later than February 15th, and shall report the compliance status of the source during the period between January 1st and December 31st of the previous year.

[A.A.C. R18-2-309.2.a]
- B. The compliance certification shall include the following:
  1. Identification of each term or condition of the permit that is the basis of the certification;

[A.A.C. R18-2-309.2.c.i]
  2. Identification of the methods or other means used by the Permittee for determining the compliance status with each term and condition during the certification period;

[A.A.C. R18-2-309.2.c.ii]
  3. Status of compliance with the terms and conditions of the permit for the period covered by the certification, including whether compliance during the period was continuous or intermittent. The certifications shall identify each deviation (including any deviations reported pursuant to Condition XII.B of this Attachment) during the period

covered by the certification and take it into account for consideration in the compliance certification; and

[A.A.C. R18-2-309.2.c.iii]

4. Other facts the Director may require in determining the compliance status of the source.

[A.A.C. R18-2-309.2.c.iv]

C. A progress report on all outstanding compliance schedules shall be submitted every six (6) months beginning six (6) months after permit issuance.

[A.A.C. R18-2-309.5.d]

## VIII. CERTIFICATION OF TRUTH, ACCURACY AND COMPLETENESS

Any document required to be submitted by this permit, including reports, shall contain a certification by a responsible official of truth, accuracy, and completeness. This certification shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

[A.A.C. R18-2-309.3]

## IX. INSPECTION AND ENTRY

Upon presentation of proper credentials, the Permittee shall allow the Director or the authorized representative of the Director to:

A. Enter upon the Permittee's premises where a source is located, emissions-related activity is conducted, or where records are required to be kept under the conditions of the permit;

[A.A.C. R18-2-309.4.a]

B. Have access to and copy, at reasonable times, any records that are required to be kept under the conditions of the permit;

[A.A.C. R18-2-309.4.b]

C. Inspect, at reasonable times, any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit;

[A.A.C. R18-2-309.4.c]

D. Sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with the permit or other applicable requirements; and

[A.A.C. R18-2-309.4.d]

E. Record any inspection by use of written, electronic, magnetic and photographic media.

[A.A.C. R18-2-309.4.e]

## X. PERMIT REVISION PURSUANT TO FEDERAL HAZARDOUS AIR POLLUTANT STANDARD

If this source becomes subject to a standard promulgated by the Administrator pursuant to Section 112(d) of the Act, then the Permittee shall, within twelve months of the date on which the standard is promulgated, submit an application for a permit revision demonstrating how the source will comply with the standard.

[A.A.C. R18-2-304.D.3]

## XI. ACCIDENTAL RELEASE PROGRAM



If this source becomes subject to the provisions of 40 CFR Part 68, then the Permittee shall comply with these provisions according to the time line specified in 40 CFR Part 68.

[40 CFR Part 68]

## XII. EXCESS EMISSIONS, PERMIT DEVIATIONS, AND EMERGENCY REPORTING

### A. Excess Emissions Reporting

[A.A.C. R18-2-310.01.A, B, and C]

#### 1. Excess emissions shall be reported as follows:

a. The Permittee shall report to the Director any emissions in excess of the limits established by this permit. Such report shall be in two parts as specified below:  
[A.A.C. R18-2-310.01.A]

- (1) Notification by telephone or facsimile within 24 hours of the time when the Permittee first learned of the occurrence of excess emissions including all available information from Condition XII.A.1.b below.
- (2) Detailed written notification by submission of an excess emissions report within 72 hours of the notification pursuant to Condition XII.A.1.a(1) above.

b. The report shall contain the following information:

- (1) Identity of each stack or other emission point where the excess emissions occurred;  
[A.A.C. R18-2-310.01.B.1]
- (2) Magnitude of the excess emissions expressed in the units of the applicable emission limitation and the operating data and calculations used in determining the magnitude of the excess emissions;  
[A.A.C. R18-2-310.01.B.2]
- (3) Time and duration, or expected duration, of the excess emissions;  
[A.A.C. R18-2-310.01.B.3]
- (4) Identity of the equipment from which the excess emissions emanated;  
[A.A.C. R18-2-310.01.B.4]
- (5) Nature and cause of the emissions;  
[A.A.C. R18-2-310.01.B.5]
- (6) If the excess emissions were the result of a malfunction, steps taken to remedy the malfunction and the steps taken or planned to prevent the recurrence of such malfunctions;  
[A.A.C. R18-2-310.01.B.6]
- (7) Steps that were or are being taken to limit the excess emissions; and  
[A.A.C. R18-2-310.01.B.7]
- (8) If the excess emissions resulted from start-up or malfunction, the report shall contain a list of the steps taken to comply with the permit

procedures governing source operation during periods of startup or malfunction.

[A.A.C. R18-2-310.01.B.8]

2. In the case of continuous or recurring excess emissions, the notification requirements shall be satisfied if the source provides the required notification after excess emissions are first detected and includes in such notification an estimate of the time the excess emissions will continue. Excess emissions occurring after the estimated time period, or changes in the nature of the emissions as originally reported, shall require additional notification pursuant to Condition XII.A.1 above.

[A.A.C. R18-2-310.01.C]

## **B. Permit Deviations Reporting**

The Permittee shall promptly report deviations from permit requirements, including those attributable to upset conditions as defined in the permit, the probable cause of such deviations, and any corrective actions or preventive measures taken. Where the applicable requirement contains a definition of prompt or otherwise specifies a timeframe for reporting deviations, that definition or timeframe shall govern. Where the applicable requirement does not address the timeframe for reporting deviations, the Permittee shall submit reports of deviations according to the following schedule:

1. Notice that complies with Condition XII.A above is prompt for deviations that constitute excess emissions;
2. Notice that is submitted within two (2) working days of discovery of the deviation is prompt for deviations of permit conditions identified by Condition I.D.1 of Attachment “B”;
3. Except as provided in Conditions XII.B.1 and 2, prompt notification of all other types of deviations shall be annually, concurrent with the annual compliance certifications required in Section VII, and can be submitted via myDEQ, the Arizona Department of Environmental Quality’s online portal.

[A.A.C. R18-2-306.A.5.b.i]

[A.A.C. R18-2-306.A.5.b.ii]

[A.A.C. R18-2-306.A.5.b.ii]

## **C. Emergency Provision**

1. An “emergency” means any situation arising from sudden and reasonably unforeseeable events beyond the control of the source, including acts of God, that require immediate corrective action to restore normal operation, and that causes the source to exceed a technology-based emission limitation under the permit, due to unavoidable increases in emissions attributable to the emergency. An emergency shall not include noncompliance to the extent caused by improperly designed equipment, lack of preventative maintenance, careless or improper operation, or operator error.
2. An emergency constitutes an affirmative defense to an action brought for noncompliance with technology-based emission limitations if Condition XII.C.3 below is met.

[A.A.C. R18-2-306.E.1]

[A.A.C. R18-2-306.E.2]

3. The affirmative defense of emergency shall be demonstrated through properly signed, contemporaneous operating logs, or other relevant evidence that:  
[A.A.C. R18-2-306.E.3]
  - a. An emergency occurred and that the Permittee can identify the cause(s) of the emergency;  
[A.A.C. R18-2-306.E.3.a]
  - b. The permitted facility was being properly operated at the time of the emergency;  
[A.A.C. R18-2-306.E.3.b]
  - c. During the period of the emergency, the Permittee took all reasonable steps to minimize levels of emissions that exceeded the emissions standards or other requirements in the permit; and  
[A.A.C. R18-2-306.E.3.c]
  - d. The Permittee submitted notice of the emergency to the Director by certified mail, facsimile, or hand delivery within two working days of the time when emission limitations were exceeded due to the emergency. This notice shall contain a description of the emergency, any steps taken to mitigate emissions, and corrective action taken.  
[A.A.C. R18-2-306.E.3.d]
4. In any enforcement proceeding, the Permittee seeking to establish the occurrence of an emergency has the burden of proof.  
[A.A.C. R18-2-306.E.4]
5. This provision is in addition to any emergency or upset provision contained in any applicable requirement.  
[A.A.C. R18-2-306.E.5]

**D. Affirmative Defenses for Excess Emissions Due to Malfunctions, Startup, and Shutdown**

1. Applicability

A.A.C. R18-2-310 establishes affirmative defenses for certain emissions in excess of an emission standard or limitation and applies to all emission standards or limitations except for standards or limitations:

- a. Promulgated pursuant to Sections 111 or 112 of the Act;  
[A.A.C. R18-2-310.A.1]
- b. Promulgated pursuant to Titles IV or VI of the Clean Air Act;  
[A.A.C. R18-2-310.A.2]
- c. Contained in any Prevention of Significant Deterioration (PSD) or New Source Review (NSR) permit issued by the U.S. EPA;  
[A.A.C. R18-2-310.A.3]
- d. Contained in A.A.C. R18-2-715.F; or  
[A.A.C. R18-2-310.A.4]

- e. Included in a permit to meet the requirements of A.A.C. R18-2-406.A.5.  
[A.A.C. R18-2-310.A.5]

2. Affirmative Defense for Malfunctions

Emissions in excess of an applicable emission limitation due to malfunction shall constitute a violation. When emissions in excess of an applicable emission limitation are due to a malfunction, the Permittee has an affirmative defense to a civil or administrative enforcement proceeding based on that violation, other than a judicial action seeking injunctive relief, if the Permittee has complied with the reporting requirements of A.A.C. R18-2-310.01 and has demonstrated all of the following:

[A.A.C. R18-2-310.B]

- a. The excess emissions resulted from a sudden and unavoidable breakdown of process equipment or air pollution control equipment beyond the reasonable control of the Permittee;  
[A.A.C. R18-2-310.B.1]
- b. The air pollution control equipment, process equipment, or processes were at all times maintained and operated in a manner consistent with good practice for minimizing emissions;  
[A.A.C. R18-2-310.B.2]
- c. If repairs were required, the repairs were made in an expeditious fashion when the applicable emission limitations were being exceeded. Off-shift labor and overtime were utilized where practicable to ensure that the repairs were made as expeditiously as possible. If off-shift labor and overtime were not utilized, the Permittee satisfactorily demonstrated that the measures were impracticable;  
[A.A.C. R18-2-310.B.3]
- d. The amount and duration of the excess emissions (including any bypass operation) were minimized to the maximum extent practicable during periods of such emissions;  
[A.A.C. R18-2-310.B.4]
- e. All reasonable steps were taken to minimize the impact of the excess emissions on ambient air quality;  
[A.A.C. R18-2-310.B.5]
- f. The excess emissions were not part of a recurring pattern indicative of inadequate design, operation, or maintenance;  
[A.A.C. R18-2-310.B.6]
- g. During the period of excess emissions there were no exceedances of the relevant ambient air quality standards established in Title 18, Chapter 2, Article 2 of the Arizona Administrative Code that could be attributed to the emitting source;  
[A.A.C. R18-2-310.B.7]
- h. The excess emissions did not stem from any activity or event that could have been foreseen and avoided, or planned, and could not have been avoided by better operations and maintenance practices;

[A.A.C. R18-2-310.B.8]

- i. All emissions monitoring systems were kept in operation if at all practicable; and

[A.A.C. R18-2-310.B.9]

- j. The Permittee's actions in response to the excess emissions were documented by contemporaneous records.

[A.A.C. R18-2-310.B.10]

3. Affirmative Defense for Startup and Shutdown

- a. Except as provided in Condition XII.D.3 below, and unless otherwise provided for in the applicable requirement, emissions in excess of an applicable emission limitation due to startup and shutdown shall constitute a violation. When emissions in excess of an applicable emission limitation are due to startup and shutdown, the Permittee has an affirmative defense to a civil or administrative enforcement proceeding based on that violation, other than a judicial action seeking injunctive relief, if the Permittee has complied with the reporting requirements of A.A.C. R18-2-310.01 and has demonstrated all of the following:

[A.A.C. R18-2-310.C.1]

- (1) The excess emissions could not have been prevented through careful and prudent planning and design;

[A.A.C. R18-2-310.C.1.a]

- (2) If the excess emissions were the result of a bypass of control equipment, the bypass was unavoidable to prevent loss of life, personal injury, or severe damage to air pollution control equipment, production equipment, or other property;

[A.A.C. R18-2-310.C.1.b]

- (3) The air pollution control equipment, process equipment, or processes were at all times maintained and operated in a manner consistent with good practice for minimizing emissions;

[A.A.C. R18-2-310.C.1.c]

- (4) The amount and duration of the excess emissions (including any bypass operation) were minimized to the maximum extent practicable during periods of such emissions;

[A.A.C. R18-2-310.C.1.d]

- (5) All reasonable steps were taken to minimize the impact of the excess emissions on ambient air quality;

[A.A.C. R18-2-310.C.1.e]

- (6) During the period of excess emissions there were no exceedances of the relevant ambient air quality standards established in Title 18, Chapter 2, Article 2 of the Arizona Administrative Code that could be attributed to the emitting source;

[A.A.C. R18-2-310.C.1.f]

- (7) All emissions monitoring systems were kept in operation if at all practicable; and  
[A.A.C. R18-2-310.C.1.g]
- (8) Contemporaneous records documented the Permittee's actions in response to the excess emissions.  
[A.A.C. R18-2-310.C.1.h]
- b. If excess emissions occur due to a malfunction during routine startup and shutdown, then those instances shall be treated as other malfunctions subject to Condition XII.D.2 above.  
[A.A.C. R18-2-310.C.2]
4. Affirmative Defense for Malfunctions During Scheduled Maintenance
- If excess emissions occur due to a malfunction during scheduled maintenance, then those instances will be treated as other malfunctions subject to Condition XII.D.2 above.  
[A.A.C. R18-2-310.D]
5. Demonstration of Reasonable and Practicable Measures
- For an affirmative defense under Condition XII.D.2 or XII.D.3, the Permittee shall demonstrate, through submission of the data and information required by this Condition XII.D and Condition XII.A.1 above, that all reasonable and practicable measures within the Permittee's control were implemented to prevent the occurrence of the excess emissions.  
[A.A.C. R18-2-310.E]

### **XIII. RECORDKEEPING REQUIREMENTS**

- A.** The Permittee shall keep records of all required monitoring information including, but not limited to, the following:
1. The date, place as defined in the permit, and time of sampling or measurements;  
[A.A.C. R18-2-306.A.4.a.i]
  2. The date(s) any analyses were performed;  
[A.A.C. R18-2-306.A.4.a.ii]
  3. The name of the company or entity that performed the analyses;  
[A.A.C. R18-2-306.A.4.a.iii]
  4. A description of the analytical techniques or methods used;  
[A.A.C. R18-2-306.A.4.a.iv]
  5. The results of analyses; and  
[A.A.C. R18-2-306.A.4.a.v]
  6. The operating conditions as existing at the time of sampling or measurement.  
[A.A.C. R18-2-306.A.4.a.vi]
- B.** The Permittee shall retain records of all required monitoring data and support information for a period of at least five (5) years from the date of the monitoring sample, measurement, report,

or application. Support information includes all calibration and maintenance records and all original strip-chart recordings or other data recordings for continuous monitoring instrumentation, and copies of all reports required by the permit.

[A.A.C. R18-2-306.A.4.b]

#### **XIV. DUTY TO PROVIDE INFORMATION**

- A.** The Permittee shall furnish to the Director, within a reasonable time, any information that the Director may request in writing to determine whether cause exists for revising, revoking and reissuing, or terminating the permit, or to determine compliance with the permit. Upon request, the Permittee shall also furnish to the Director copies of records required to be kept by the permit. For information claimed to be confidential, the Permittee shall furnish an additional copy of such records directly to the Administrator along with a claim of confidentiality.

[A.A.C. R18-2-304.G and -306.A.8.e]

- B.** If the Permittee has failed to submit any relevant facts or has submitted incorrect information in the permit application, the Permittee shall, upon becoming aware of such failure or incorrect submittal, promptly submit such supplementary facts or corrected information.

[A.A.C. R18-2-304.H]

#### **XV. PERMIT AMENDMENT OR REVISION**

The Permittee shall apply for a permit amendment or revision for changes to the facility which does not qualify for a facility change without revision under Section XVII below, as follows:

- A.** Facility Changes that Require a Permit Revision;

[A.A.C. R18-2-317.01]

- B.** Administrative Permit Amendment;

[A.A.C. R18-2-318]

- C.** Minor Permit Revision; and

[A.A.C. R18-2-319]

- D.** Significant Permit Revision.

[A.A.C. R18-2-320]

The applicability and requirements for such action are defined in the above referenced regulations.

#### **XVI. FACILITY CHANGE WITHOUT A PERMIT REVISION**

- A.** Except for a physical change or change in the method of operation at a Class II source requiring a permit revision under A.A.C. R18-2-317.01, or a change subject to logging or notice requirements in Condition XVI.B, a change at a Class II source shall not be subject to revision, notice, or logging requirements under this Section.

[A.A.C. R18-2-317.02.A]

- B.** The following changes may be made if the source keeps on site records of the changes according to Condition XVI.F below:

[A.A.C. R18-2-317.02.B]

1. Implementing an alternative operating scenario, including raw materials changes;

2. Changing process equipment, operating procedures, or making any other physical change if the permit requires the change to be logged;
  3. Engaging in any new insignificant activity listed in A.A.C. R18-2-101.68 but not listed in the permit;
  4. Replacing an item of air pollution control equipment listed in the permit with an identical (same model, different serial number) item. The Director may require verification of efficiency of the new equipment by performance tests; and
  5. A change that results in a decrease in actual emissions if the source wants to claim credit for the decrease in determining whether the source has a net emissions increase for any purpose. The logged information shall include a description of the change that will produce the decrease in actual emissions. A decrease that has not been logged is creditable only if the decrease is quantifiable, enforceable, and otherwise qualifies as a creditable decrease.
- C.** The permit shield described in A.A.C. R18-2-325 shall not apply to any change made under this Section, other than implementation of an alternate operating scenario under Condition XVI.B.1.  
[A.A.C. R18-2-317.02.F]
- D.** Notwithstanding any other part of this Section, the Director may require a permit to be revised for any change that, when considered together with any other changes submitted by the Permittee under this Section over the term of the permit, constitutes a change under subsection A.A.C. R18-2-317.01.A.  
[A.A.C. R18-2-317.02.G]
- E.** A copy of all logs required under Condition XVI.B shall be filed with the Director within 30 days after each anniversary of the permit issuance date. If no changes were made at the source requiring logging, a statement to that effect shall be filed instead.  
[A.A.C. R18-2-317.02.I]
- F.** Logging Requirements  
[Arizona Administrative Code, Appendix 3]
1. Each log entry required by a change under Condition XVI.B shall include at least the following information:
    - a. A description of the change, including:
      - (1) A description of any process change;
      - (2) A description of any equipment change, including both old and new equipment descriptions, model numbers, and serial numbers, or any other unique equipment ID number; and
      - (3) A description of any process material change.
    - b. The date and time that the change occurred.



- c. The provisions of Condition XVI.B that authorize the change to be made with logging.
  - d. The date the entry was made and the first and last name of the person making the entry.
2. Logs shall be kept for five (5) years from the date created. Logging shall be performed in indelible ink in a bound log book with sequentially number pages, or in any other form, including electronic format, approved by the Director.

## **XVII. TESTING REQUIREMENTS**

- A.** The Permittee shall conduct performance tests as specified in the permit and at such other times as may be required by the Director.

[A.A.C. R18-2-312.A]

- B.** Operational Conditions during Performance Testing

Performance tests shall be conducted under such conditions as the Director shall specify to the plant operator based on representative performance of the source. The Permittee shall make available to the Director such records as may be necessary to determine the conditions of the performance tests. Operations during periods of start-up, shutdown, and malfunction (as defined in A.A.C. R18-2-101) shall not constitute representative conditions of performance tests unless otherwise specified in the applicable standard.

[A.A.C. R18-2-312.C]

- C.** Performance Tests shall be conducted and data reduced in accordance with the test methods and procedures contained in the Arizona Testing Manual unless modified by the Director pursuant to A.A.C. R18-2-312.B.

[A.A.C. R18-2-312.B]

- D.** Test Plan

At least 14 working days prior to performing a test, the Permittee shall submit a test plan to the Director, which must include the following, in addition to all other applicable requirements, as identified in the Arizona Testing Manual:

[A.A.C. R18-2-312.B]

1. Test duration;
2. Test location(s);
3. Test method(s); and
4. Source operation and other parameters that may affect test results.

- E.** Stack Sampling Facilities

The Permittee shall provide, or cause to be provided, performance testing facilities as follows:

[A.A.C. R18-2-312.E]

1. Sampling ports adequate for test methods applicable to the facility;

2. Safe sampling platform(s);
3. Safe access to sampling platform(s); and
4. Utilities for sampling and testing equipment.

**F. Interpretation of Final Results**

Each performance test shall consist of three (3) separate runs using the applicable test method. Each run shall be conducted for the time and under the conditions specified in the applicable standard. For the purpose of determining compliance with an applicable standard, the arithmetic mean of the results of the three (3) runs shall apply. In the event that a sample is accidentally lost or conditions occur in which one of the three (3) runs is required to be discontinued because of forced shutdown, failure of an irreplaceable portion of the sample train, extreme meteorological conditions, or other circumstances beyond the Permittee's control, compliance may, upon the Director's approval, be determined using the arithmetic mean of the results of the other two runs. If the Director or the Director's designee is present, tests may only be stopped with the Director's or such designee's approval. If the Director or the Director's designee is not present, tests may only be stopped for good cause. Good cause includes: forced shutdown, failure of an irreplaceable portion of the sample train, extreme meteorological conditions, or other circumstances beyond the Permittee's control. Termination of any test without good cause after the first run is commenced shall constitute a failure of the test. Supporting documentation, which demonstrates good cause, must be submitted.

[A.A.C. R18-2-306.A.3.c and A.A.C. R18-2-312.F]

**G. Report of Final Test Results**

A written report of the results of performance tests conducted pursuant to 40 CFR 63, shall be submitted to the Director within 60 days after the test is performed. A written report of the results of all other performance tests shall be submitted within 4 weeks after the test is performed, or as otherwise provided in the Arizona Testing Manual. All performance testing reports shall be submitted in accordance with the Arizona Testing Manual and A.A.C. R18-2-312.A.

[A.A.C. R18-2-312.A and B]

**H. Extension of Performance Test Deadline**

For performance testing required under Condition XVII.A above, the Permittee may request an extension to a performance test deadline due to a force majeure event as follows:

[A.A.C. R18-2-312.J]

1. If a force majeure event is about to occur, occurs, or has occurred for which the Permittee intends to assert a claim of force majeure, the Permittee shall notify the Director in writing as soon as practicable following the date the Permittee first knew, or through due diligence should have known that the event may cause or caused a delay in testing beyond the regulatory deadline. The notification must occur before the performance test deadline unless the initial force majeure or a subsequent force majeure event delays the notice, and in such cases, the notification shall be given as soon as practicable.

[A.A.C. R18-2-312.J.1]

2. The Permittee shall provide to the Director a written description of the force majeure event and a rationale for attributing the delay in testing beyond the regulatory deadline to the force majeure; describe the measures taken or to be taken to minimize the delay; and identify a date by which the Permittee proposes to conduct the performance test. The performance test shall be conducted as soon as practicable after the force majeure event occurs.  
[A.A.C. R18-2-312.J.2]
3. The decision as to whether or not to grant an extension to the performance test deadline is solely within the discretion of the Director. The Director shall notify the Permittee in writing of approval or disapproval of the request for an extension as soon as practicable.  
[A.A.C. R18-2-312.J.3]
4. Until an extension of the performance test deadline has been approved by the Director under Conditions XVII.H.1, 2, and 3 above, the Permittee remains subject to the requirements of Section XVII.  
[A.A.C. R18-2-312.J.4]
5. For purposes of this Section XVII, a “force majeure event” means an event that will be or has been caused by circumstances beyond the control of the Permittee, its contractors, or any entity controlled by the Permittee that prevents it from complying with the regulatory requirement to conduct performance tests within the specified timeframe despite the Permittee's best efforts to fulfill the obligation. Examples of such events are acts of nature, acts of war or terrorism, or equipment failure or safety hazard beyond the control of the Permittee.  
[A.A.C. R18-2-312.J.5]

## **XVIII. PROPERTY RIGHTS**

This permit does not convey any property rights of any sort, or any exclusive privilege.  
[A.A.C. R18-2-306.A.8.d]

## **XIX. SEVERABILITY CLAUSE**

The provisions of this permit are severable. In the event of a challenge to any portion of this permit, or if any portion of this permit is held invalid, the remaining permit conditions remain valid and in force.  
[A.A.C. R18-2-306.A.7]

## **XX. PERMIT SHIELD**

Compliance with the conditions of this permit shall be deemed compliance with all applicable requirements identified in the portions of this permit subtitled “Permit Shield”. The permit shield shall not apply to minor revisions pursuant to Condition XV.C of this Attachment and any facility changes without a permit revision pursuant to Section XVI of this Attachment.  
[A.A.C. R18-2-317.F, - 320, and -325]

## **XXI. PROTECTION OF STRATOSPHERIC OZONE**

If this source becomes subject to the provisions of 40 CFR Part 82, then the Permittee shall comply with these provisions accordingly.  
[40 CFR Part 82]

**XXII. APPLICABILITY OF NSPS/NESHAP GENERAL PROVISIONS**

For all equipment subject to a New Source Performance Standard or a National Emission Standard for Hazardous Air Pollutants, the Permittee shall comply with all applicable requirements contained in Subpart A of Title 40, Chapter 60 and Chapter 63 of the Code of Federal Regulation.

[40 CFR Part 60 Subpart A and Part 63 Subpart A]

**ATTACHMENT “B”: SPECIFIC CONDITIONS**

**I. FACILITY-WIDE REQUIREMENTS**

**A. Applicability**

This Section is applicable to all facility-wide equipment.

**B. Operational Requirement**

1. The Permittee shall operate and maintain each piece of equipment in accordance with manufacturer operation and maintenance instructions. If manufacturer operation and maintenance instructions are not available, the Permittee shall prepare an Operation and Maintenance (O&M) Plan. The O&M Plan shall provide adequate information to properly operate and maintain each piece of equipment in good working order.

[A.A.C. R18-2-306.A.2]

2. Recordkeeping Requirements

- a. The Permittee shall maintain on site records of the manufacturer operation and maintenance instructions or O&M Plan for each piece of equipment.

[A.A.C. R18-2-306.A.4]

- b. The Permittee shall maintain records of all maintenance activities carried out on each piece of equipment. These records shall include the type of maintenance activity performed and its duration, including the date, starting time, and ending time of each maintenance activity.

[A.A.C. R18-2-306.A.4]

- c. The Permittee shall retain all recordkeeping on site to demonstrate compliance with Conditions I.B.2.a and I.B.2.b. These records shall be readily available upon request for a period of at least five (5) years in a form that is suitable for expeditious inspection and review.

[A.A.C. R18-2-306.A.4]

**C. Opacity**

1. Instantaneous Surveys and Six-Minute Observations

- a. Instantaneous Surveys

Any instantaneous survey required by this permit shall be determined by either option listed in Conditions I.C.1.a(1) and (2):

[A.A.C. R18-2-311.b]

- (1) Alternative Method ALT-082 (Digital Camera Operating Technique)

- (a) The Permittee, or Permittee representative, shall be certified in the use of Alternative Method ALT-082.

- (b) The results of all instantaneous surveys and six-minute observations shall be obtained within 30 minutes.

(2) EPA Reference Method 9 Certified Observer.

b. Six-Minute Observations

Any six-minute observation required by this permit shall be determined by either option listed in Conditions I.C.1.b(1) and (2):

[A.A.C. R18-2-311.b]

(1) Alternative Method ALT-082 (Digital Camera Operating Technique)

(a) The Permittee, or Permittee representative, shall be certified in the use of Alternative Method ALT-082.

(b) The results of all instantaneous surveys and six-minute observations shall be obtained within 30 minutes.

(2) EPA Reference Method 9.

c. The Permittee shall have on site or on call a person certified in EPA Reference Method 9 unless all six-minute Method 9 observations required by this permit are conducted as a six-minute Alternative Method ALT-082 (Digital Camera Operating Technique) and all instantaneous visual surveys required by this permit are conducted as an instantaneous ALT-082 camera survey. Any six-minute Method 9 observation required by this permit can be conducted as a six-minute Alternative Method ALT-082 and any instantaneous visual survey required by this permit can be conducted as an instantaneous ALT-082 camera survey.

[A.A.C. R18-2-306.A.3.c]

2. Monitoring, Recordkeeping, and Reporting Requirements

[A.A.C. R18-2-306.A.3.c]

a. At the frequency specified in the following sections of this permit, the Permittee shall conduct an instantaneous survey of visible emissions from both process stack sources, when in operation, and fugitive dust sources.

b. If the visible emissions on an instantaneous basis appears less than or equal to the applicable opacity standard, then the Permittee shall keep a record of the name of the observer, the date on which the instantaneous survey was made, and the results of the instantaneous survey.

c. If the visible emissions on an instantaneous basis appears greater than the applicable opacity standard, then the Permittee shall immediately conduct a six-minute observation of the visible emissions.

(1) If the six-minute observation of the visible emissions is less than or equal to the applicable opacity standard, then the Permittee shall record the name of the observer, the date on which the six-minute observation was made, and the results of the six-minute observation.

- (2) If the six-minute observation of the visible emissions is greater than the applicable opacity standard, then the Permittee shall do the following:
  - (a) Adjust or repair the controls or equipment to reduce opacity to less than or equal to the opacity standard;
  - (b) Record the name of the observer, the date on which the six-minute observation was made, the results of the six-minute observation, and all corrective action taken; and
  - (c) Report the event as an excess emission for opacity in accordance with Condition XII.A of Attachment "A".
  - (d) Conduct another six-minute observation to document the effectiveness of the adjustments or repairs completed.

**D. Recordkeeping and Reporting Requirements**

1. Deviations from the following permit conditions in Attachment "B" shall be promptly reported in accordance with Condition XII.B.2 of Attachment "A":

[A.A.C. R18-2-306.A.5.b]

  - a. Condition II.B.1;
  - b. Condition II.B.2; and
  - c. Condition II.D.1.
2. The Permittee shall submit reports of all monitoring, recordkeeping and reporting required in Attachment "B" along with the compliance certification required by Section VII of Attachment "A."

[A.A.C. R18-2-306.A.5]

**II. CONCRETE BATCH PLANT REQUIREMENTS**

**A. Applicability**

This Section is applicable to each piece of equipment associated with the concrete batch plant.

**B. Operational Limitations and Standards**

1. The Permittee shall not operate the concrete batch plant in excess of 3,600 cubic yards of concrete per day.

[A.A.C. R18-2-334]
2. The Permittee shall not operate the concrete batch plant in excess of 12 hours per day.

[A.A.C. R18-2-306.A.2]

**C. Particulate Matter and Opacity**

1. Emission Limitations and Standards

- a. The Permittee shall not cause, allow or permit visible emissions from the concrete batch plant in excess of 20% opacity.  
[A.A.C. R18-2-702.B]
- b. If the presence of uncombined water is the only reason for an exceedance of any visible emissions requirement in this Section, the exceedance shall not constitute a violation of the applicable opacity limit.  
[A.A.C. R18-2-702.C]

**D. Air Pollution Control Requirements**

1. *At all times, including periods of startup, shutdown, and malfunction, the Permittee shall, install, maintain and operate the baghouse in a manner consistent with good air pollution control practices to minimize particulate matter emissions.*  
[A.A.C. R18-2-306.01, -331.A.3.d and e]  
[Material permit conditions are indicated by underlines and italics]
2. Fugitive dust emitted from the concrete batch plant shall be controlled in accordance with Section V of this Attachment.  
[A.A.C. R18-2-723]
3. The baghouse shall be maintained in accordance with the following:
  - a. Prior to start-up, visual inspections shall be conducted on all venting ducts or lines, fittings (including dust shroud), and the blower;  
[A.A.C. R18-2-306.A.3.d]
  - b. Following shut-down, all pressurized systems shall be turned “off”;  
[A.A.C. R18-2-306.A.3.d]
  - c. All pressure and temperature gauges, flow meters, and other related instruments shall be checked daily to ensure proper functioning; any detected problems shall be corrected as soon as possible;  
[A.A.C. R18-2-306.A.3.d]
  - d. All ducts, hoods, framework, and housings shall be checked daily for signs of wear; and  
[A.A.C. R18-2-306.A.3.d]
  - e. The fan motor, bearings, shaking device, reverse-jet blow rings, valves, and dampers shall be lubricated regularly and checked for wear.  
[A.A.C. R18-2-306.A.3.d]
4. Monitoring, Recordkeeping, and Reporting Requirements
  - a. A certified EPA Reference Method 9 observer shall conduct a weekly survey of visible emissions emanating from the concrete batch plant when in operation and in accordance with Condition I.C.  
[A.A.C. R18-2-306.A.3.c]
  - a. If the baghouse is equipped with a pressure drop measuring device, the Permittee shall monitor and record twice per shift the pressure drop (in inches



of water) across the baghouse. These records shall include the dates and times each reading was monitored and recorded.

[A.A.C. R18-2-306.A.3.d]

b. The Permittee shall maintain records to demonstrate compliance with the activities listed in Conditions II.D.3.a through 3.e.

[A.A.C. R18-2-306.A.4]

c. The Permittee shall maintain records of the total daily production of concrete in cubic yards per day.

[A.A.C. R18-2-306.A.4]

d. The Permittee shall maintain daily records of the total daily hours of operation of the concrete batch plant.

[A.A.C. R18-2-306.A.4]

e. The Permittee shall maintain records of all maintenance activities performed on the baghouse. These records shall include the type of maintenance activity being performed and its duration, including the date, starting time, and ending time of each maintenance activity. These records shall be readily available upon request for a period of at least five (5) years in a form that is suitable for expeditious inspection and review.

[A.A.C. R18-2-306.A.4]

**E. Permit Shield**

Compliance with the Conditions of this Section shall be deemed compliance with A.A.C. R18-2-702.B and C, and -723.

[A.A.C. R18-2-325]

**III. INTERNAL COMBUSTION ENGINE (ICE) REQUIREMENTS**

**A. Applicability**

This Section is applicable to each compression ignition (CI) ICE identified in Attachment "C".

**B. Fuel Requirements**

1. The Permittee shall only use diesel fuel in the CI ICEs that meets the following requirements:

[40 CFR 1090.305]

a. Maximum sulfur content of 15 ppm;

[40 CFR 1090.305(b)]

b. Cetane index or aromatic content;

[40 CFR 1090.305(c)]

(a) Minimum cetane index of 40; or

[40 CFR 1090.305(c)(1)]

(b) Maximum aromatic content of 35 volume percent.

[40 CFR 1090.305(c)(2)]

2. Recordkeeping Requirement

The Permittee shall keep records of fuel supplier certifications or other documentation to demonstrate compliance with Condition III.B.1. These records shall be made available to ADEQ upon request.

[A.A.C. R18-2-306.A.3.c]

C. Emission Standards and Limitations

The Permittee shall comply with the requirements in 40 CFR 60.4201 that apply to the CI ICEs.  
[40 CFR 60.4204(b)]

D. Operation and Maintenance Requirements

1. The Permittee shall operate and maintain the CI ICEs to achieve the emission standards and limitations required in Condition III.C over the entire life of the CI ICEs.

[40 CFR 60.4206]

2. *If a CI ICE is equipped with a diesel particulate filter to comply with the emission standards and limitations in Condition III.C, the Permittee shall install the diesel particulate filter with a backpressure monitor that notifies the facility when the high backpressure limit of the CI ICE is approached.*

[40 CFR 60.4209(b), A.A.C. R18-2-331.A.3.c]

[Material permit conditions are indicated by underlines and italics]

3. The Permittee shall do all of the following, except as permitted under Condition III.D.4.a below:

[40 CFR 60.4211(a)]

a. Operate and maintain the CI ICEs and control device according to the manufacturer's emission-related written instructions;

[40 CFR 60.4211(a)(1)]

b. Change only those emission-related settings that are permitted by the manufacturer; and

[40 CFR 60.4211(a)(2)]

c. Meet the requirements of 40 CFR Part 1068, as they apply.

[40 CFR 60.4211(a)(3)]

4. The Permittee shall install and configure the CI ICEs according to the manufacturer's emission-related specifications, except as permitted under Condition III.D.4.a below:

[40 CFR 60.4211(c)]

a. If the Permittee does not install, configure, operate, and maintain the CI ICEs according to the manufacturer's emission-related written instructions, or changes emission-related settings in a way that is not permitted by the manufacturer, the Permittee shall keep a maintenance plan and records of conducted maintenance and must, to the extent practicable, maintain and operate the CI ICEs in a manner consistent with good air pollution control practice for minimizing emissions. In addition, the Permittee must conduct an initial performance test to demonstrate compliance with the applicable emission standards within 1 year of startup, or within 1 year after an engine

and control device is no longer installed, configured, operated, and maintained in accordance with the manufacturer's emission-related written instructions, or within 1 year after you change emission-related settings in a way that is not permitted by the manufacturer. The Permittee must conduct subsequent performance testing every 8,760 hours of engine operation or 3 years, whichever comes first, thereafter to demonstrate compliance with the applicable emission standards.

[40 CFR 60.4211(g)(3)]

- b. If the Permittee demonstrates compliance according to Condition III.D.4.a above, the Permittee shall conduct performance tests that follow the procedures in 40 CFR 60.4212.

[40 CFR 60.4212]

5. Recordkeeping Requirement

If a CI ICE is equipped with a diesel particulate filter per Condition III.D.2, the Permittee shall keep records of any corrective action taken after the backpressure monitor has notified the facility that the high backpressure limit of the CI ICE is approached.

[40 CFR 60.4214(c)]

6. Permit Shield

Compliance with the Conditions of this Section shall be deemed compliance with 40 CFR 60.4204(b), 60.4206, 4209(b), 4211(a), (c), and (g)(3), 4212, 4214(c) and 1090.305.

[A.A.C. R18-2-325]

**IV. PORTABLE SOURCE REQUIREMENTS**

**A. Move Notice**

A portable source may be transferred from one location to another provided that the Permittee of such equipment notifies the Director and/or any control officer who has jurisdiction over the geographic area that includes the new location of the transfer at least ten (10) working days before the transfer. The location change shall include the following:

1. A description of the equipment (under the same owner or operator) which is going to be present at the site including the permit number, the manufacturer, the model number, the serial number, and the equipment ID number(s) for such equipment;  
[A.A.C. R18-2-513.F.1]
2. The address and description of the present location of the equipment;  
[A.A.C. R18-2-513.F.2]
3. The address and description of the location to which the equipment is to be transferred, including the availability of all utilities, such as water and electricity, necessary for the proper operation of all control equipment;  
[A.A.C. R18-2-513.F.3]
4. The date on which equipment is to be moved; and  
[A.A.C. R18-2-513.F.4]

[A.A.C. R18-2-513.F.4]

5. The date on which operation of the equipment will begin at the new location.  
[A.A.C. R18-2-513.F.5]

**B. Permit Shield**

Compliance with the Conditions of this Section shall be deemed compliance with A.A.C. R18-2-513.

[A.A.C. R18-2-325]

**V. FUGITIVE DUST REQUIREMENTS**

**A. Applicability**

This Section is applicable any non-point source of fugitive dust.

**B. Particulate Matter and Opacity**

Open Areas, Roadways & Streets, Storage Piles and Material Handling

1. Emission Limitations and Standards

- a. Opacity of emissions from any fugitive dust non-point source shall not be greater than 40%.

[A.A.C. R18-2-614]

- b. The Permittee shall employ the following reasonable precautions to prevent excessive amounts of particulate matter from becoming airborne:

- (1) Keep dust and other types of air contaminants to a minimum in an open area where construction operations, repair operations, demolition activities, clearing operations, leveling operations, or any earth moving or excavating activities are taking place, by good modern practices such as using an approved dust suppressant or adhesive soil stabilizer, paving, covering, landscaping, continuous wetting, detouring, barring access, or other acceptable means;

[A.A.C. R18-2-604.A]

- (2) Keep dust to a minimum from driveways, parking areas, and vacant lots where motor vehicular activity occurs by using an approved dust suppressant, or adhesive soil stabilizer, or by paving, or by barring access to the property, or by other acceptable means;

[A.A.C. R18-2-604.B]

- (3) Keep dust and other particulates to a minimum by employing dust suppressants, temporary paving, detouring, wetting down or by other reasonable means when a roadway or alley is used, repaired, constructed, or reconstructed;

[A.A.C. R18-2-605.A]

- (4) Take reasonable precautions, such as wetting, applying dust suppressants, or covering the load when transporting material likely to give rise to airborne dust. Earth or other material that is deposited by

trucking or earth moving equipment shall be removed from paved streets by the person responsible for such deposits;

[A.A.C. R18-2-605.B]

- (5) Take reasonable precautions, such as the use of spray bars, wetting agents, dust suppressants, covering the load, and hoods when crushing, screening, handling, transporting or conveying of materials or other operations likely to result in significant amounts of airborne dust;

[A.A.C. R18-2-606]

- (6) Take reasonable precautions such as chemical stabilization, wetting, or covering when organic or inorganic dust producing material is being stacked, piled, or otherwise stored;

[A.A.C. R18-2-607.A]

- (7) Operate stacking and reclaiming machinery utilized at storage piles at all times with a minimum fall of material, or with the use of spray bars and wetting agents;

[A.A.C. R18-2-607.B]

- (8) Any other method as proposed by the Permittee and approved by the Director.

[A.A.C. R18-2-306.A.3.c]

2. Air Pollution Control Requirement

Unpaved Roads and Storage Piles

*Water, or an equivalent control, shall be used to control visible emissions from unpaved roads and storage piles.*

[A.A.C. R18-2-306.A.2 and -331.A.3.d]

[Material permit conditions are indicated by underlines and italics]

3. Monitoring and Recordkeeping Requirements

- a. The Permittee shall maintain records of the dates on which any of the activities listed in Condition V.B.1.b above were performed and the control measures that were adopted.

[A.A.C. R18-2-306.A.3.c]

- b. A certified EPA Reference Method 9 observer shall conduct a weekly survey of visible emissions emanating from fugitive dust sources when in operation and in accordance with Condition I.C.

[A.A.C. R18-2-306.A.3.c]

C. Permit Shield

Compliance with the Conditions of this Section shall be deemed compliance with A.A.C. R18-2-604, -605, -606, 607 and -614.

[A.A.C. R18-2-325]

**VI. OTHER PERIODIC ACTIVITIES**

**A. Abrasive Blasting**

1. Particulate Matter and Opacity

a. Emission Limitations and Standards

The Permittee shall not cause or allow sandblasting or other abrasive blasting without minimizing dust emissions to the atmosphere through the use of good modern practices. Good modern practices include:

[A.A.C. R18-2-726]

- (1) Wet blasting;
- (2) Effective enclosures with necessary dust collecting equipment; or
- (3) Any other method approved by the Director.

b. Opacity

The Permittee shall not cause, allow or permit visible emissions from sandblasting or other abrasive blasting operations in excess of 20% opacity.

[A.A.C. R18-2-702.B.3]

2. Monitoring and Recordkeeping Requirements

a. Each time an abrasive blasting project is conducted, the Permittee shall make a record of the following:

[A.A.C. R18-2-306.A.3.c]

- (1) The date the project was conducted;
- (2) The duration of the project; and
- (3) Type of control measures employed.

b. A certified EPA Reference Method 9 observer shall conduct a quarterly survey of visible emissions emanating from sandblasting or other abrasive blasting operations when in operation and in accordance with Condition I.C.

[A.A.C. R18-2-306.A.3.c]

c. If there were no sandblasting or other abrasive blasting operations during a calendar quarter, then no quarterly survey of visible emissions is required. However, the Permittee shall record that no sandblasting or other abrasive blasting operations occurred during that calendar quarter.

[A.A.C. R18-2-306.A.3.c]

3. Permit Shield

Compliance with the Conditions of this Section shall be deemed compliance with A.A.C. R18-2-702.B.3 and -726.

[A.A.C.R18-2-325]

**B. Use of Paints**

1. Volatile Organic Compounds and Opacity

a. Emission Limitations and Standards

While performing spray painting operations, the Permittee shall comply with the following requirements:

- (1) The Permittee shall not conduct or cause to be conducted any spray painting operation without minimizing organic solvent emissions. Such operations, other than architectural coating and spot painting, shall be conducted in an enclosed area equipped with controls containing no less than 96% of the overspray.

[A.A.C.R18-2-727.A]

- (2) The Permittee or their designated contractor shall not either:

(a) Employ, apply, evaporate, or dry any architectural coating containing photochemically reactive solvents for industrial or commercial purposes; or

(b) Thin or dilute any architectural coating with a photochemically reactive solvent.

[A.A.C.R18-2-727.B]

- (3) For the purposes of Condition VI.B.1.a(1), a photochemically reactive solvent shall be any solvent with an aggregate of more than 20 percent of its total volume composed of the chemical compounds classified in Condition VI.B.1.a(2), or which exceeds any of the following percentage composition limitations, referred to the total volume of solvent:

[A.A.C.R18-2-727.C]

(a) A combination of the following types of compounds having an olefinic or cyclo-olefinic type of unsaturation-hydrocarbons, alcohols, aldehydes, esters, ethers, or ketones: 5 percent.

(b) A combination of aromatic compounds with eight or more carbon atoms to the molecule except ethylbenzene: 8 percent.

(c) A combination of ethylbenzene, ketones having branched hydrocarbon structures, trichloroethylene or toluene: 20 percent.

- (4) Whenever any organic solvent or any constituent of an organic solvent may be classified from its chemical structure into more than one of the groups of organic compounds described in Condition VI.B.1.a(3), it shall be considered to be a member of the group having the least allowable percent of the total volume of solvents.

[A.A.C.R18-2-727.D]

b. Opacity

The Permittee shall not cause, allow or permit visible emissions from painting operations in excess of 20% opacity.

[A.A.C. R18-2-702.B.3]

2. Monitoring and Recordkeeping Requirements

a. Each time a spray painting project is conducted, the Permittee shall make a record of the following:

- (1) The date the project was conducted;
- (2) The duration of the project;
- (3) Type of control measures employed;
- (4) Safety Data Sheets for all paints and solvents used in the project; and
- (5) The amount of paint consumed during the project.

b. Architectural coating and spot painting projects shall be exempt from the recordkeeping requirements of Condition VI.B.2.a.

[A.A.C. R18-2-306.A.3.c]

c. A certified EPA Reference Method 9 observer shall conduct a quarterly survey of visible emissions emanating from spray painting operations when in operation and in accordance with Condition I.C.

[A.A.C. R18-2-306.A.3.c]

d. If there were no spray painting operations during a calendar quarter, then no quarterly survey of visible emissions is required. However, the Permittee shall record that no spray painting operations occurred during that calendar quarter.

[A.A.C. R18-2-306.A.3.c]

3. Permit Shield

Compliance with the Conditions of this Section shall be deemed compliance with A.A.C.R18-2702.B.2 and -727.

[A.A.C.R18-2-325]

C. Demolition/Renovation - Hazardous Air Pollutants

1. Emission Limitations and Standards

The Permittee shall comply with all of the requirements in National Emission Standards for Hazardous Air Pollutants (NESHAP) 40 CFR Part 61 Subpart M for Asbestos.

[A.A.C. R18-2-1101.A.12]

2. Monitoring and Recordkeeping Requirement

The Permittee shall keep all required records in a file. The required records shall include the "NESHAP Notification for Renovation and Demolition Activities" form and all supporting documents.



[A.A.C. R18-2-306.A.3.c]

3. Permit Shield

Compliance with the Conditions of this Section shall be deemed compliance with A.A.C. R18-2-1101.A.12.

[A.A.C. R18-2-325]

**ATTACHMENT "C": ADDITIONAL CONDITIONS FOR OPERATIONS INSIDE MARICOPA COUNTY**

**I. APPLICABILITY**

While operating in Maricopa County the Permittee shall comply with the Conditions set forth in Attachment "B" and Attachment "C". Whenever more than one Condition in this Attachment regulating the same emissions applies to any emissions unit, or whenever a Condition in this Attachment and a Condition in Attachment "B" regulating the same emissions applies to any emissions unit, the Condition or combination of Conditions resulting in the lowest emissions rate or lowest concentration of regulated air pollutants released to the atmosphere shall apply, unless otherwise specifically exempted or designated in the applicable permit Conditions.

[A.R.S. §49-402(D)]

**II. FACILITY WIDE REQUIREMENTS**

**A. Opacity**

Emission Limitations and Standards

The Permittee shall not discharge into the ambient air from any single source of emissions any air contaminant, other than uncombined water, in excess of 20% opacity for a period aggregating more than three minutes in any 60-minute period.

[Maricopa County Rule 300 §301]  
[State and locally enforceable only]

**B. Gaseous and Odorous Emissions**

The Permittee shall not emit gaseous or odorous air contaminants from equipment, operations or premises under their control in such quantities or concentrations as to cause air pollution.

[Maricopa County Rule 320 §300]

**C. Air Pollution Control Requirements**

1. Material Containment Required

Materials including, but not limited to solvents or other volatile compounds, paints, acids, alkalis, pesticides, fertilizer and manure shall be processed, stored, used and transported in such a manner and by such means that they will not unreasonably evaporate, leak, escape, or be otherwise discharged into the ambient air so as to cause or contribute to air pollution. Where means are available to reduce effectively the contribution to air pollution from evaporation, leakage, or discharge, the installation and use of such control methods, devices, or equipment shall be mandatory.

[Maricopa County Rule 320 §302]

2. Stack Requirements

Where a stack, vent, or other outlet is at such a level that air contaminants are discharged to adjoining property, the Director may require the installation of abatement equipment or the alteration of such stack, vent, or other outlet to a degree that will adequately dilute, reduce, or eliminate the discharge of air contaminants to adjoining property.

[Maricopa County Rule 320 §303]

**D. Operations and Maintenance (O&M) Plan for Emission Control System (ECS)**

For the purposes of these conditions of this Attachment, an emission control system (ECS) is a system for reducing emissions of particulates, consisting of both collection and control devices, which are approved in writing by the Director and are designed and operated in accordance with good engineering practices.

For each ECS that is used to comply with this rule or an air pollution control permit, the Permittee shall:

1. Submit to the Director for approval an O&M Plan for each ECS and for each ECS monitoring device that is used pursuant to this rule or an air pollution control permit. The O&M Plan(s) shall include all of the following information:  
[Maricopa County Rule 320 §305.1.a]
  - a. ECS equipment manufacturer name and model designation;
  - b. ECS equipment serial number, or a unique identifier assigned by the owner;
  - c. Key system operating parameters, such as temperatures, pressures and/or flow rates, necessary to determine the ECS is functioning properly and operating within design parameters, as well as the acceptable operating range, monitoring frequency, and recording method for each operating parameter; and
  - d. Descriptions of maintenance procedures that will be performed on each ECS and ECS monitoring device and the frequency of each maintenance procedure.
2. Provide and maintain, readily available on-site at all times, the approved O&M Plan(s) for each ECS and each ECS monitoring device that is used pursuant to these conditions of this Attachment.  
[Maricopa County Rule 316 §305.1.b]
3. Install, maintain, and accurately calibrate monitoring devices described in the approved 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.  
[Maricopa County Rule 316 §305.1.c]  
[State and locally enforceable only]
4. Fully comply with all identified actions and schedules provided in each O&M Plan.  
[Maricopa County Rule 316 §305.1.d]

**E. Monitoring, Recordkeeping, and Reporting Requirements**

1. Opacity
  - a. The Permittee shall conduct a weekly facility walk-through and observe visible emissions from all equipment capable of emitting visible emissions. The Permittee shall log the visual observations, including the date and time when the reading was taken, results of the readings, name of the person who took the readings, and any other related information.  
[A.A.C. R18-2-306.A.3]

[State and locally enforceable only]

- b. Opacity observations to measure visible emissions from activities regulated by Sections 301 (excluding truck dumping directly into any screening operation, feed hopper, or crusher), 302 (excluding truck dumping directly into any screening operation, feed hopper, or crusher), and/or 303 of this rule 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. The EPA test methods as they exist in the CFR are incorporated by reference in Appendix G of these rules. Emissions shall not exceed the applicable opacity standards described in Section 301, Section 302, and Section 303 of this rule for a period aggregating more than three (3) minutes in any 60-minute period.

[Maricopa County Rule 316 §502.2.a]

2. Operational

The Permittee shall comply with the following requirements. Records shall be retained for five (5) years.

[Maricopa County Rule 316 §501]

- a. Operational information required by this rule shall be kept on-site, in written or electronic format, and in a complete and consistent manner on-site and shall be made available without delay to the Director upon request. Paper or electronic copies of records required by this rule shall be made available to the Director upon request.

[Maricopa County Rule 316 §501.1]

- b. Records of the following process and operational information, as applicable, are required:

[Maricopa County Rule 316 §501.2]

(1) Soil Moisture Testing:

[Maricopa County Rule 316 §501.2.b]

- (a) The date, time, and location for each soil moisture sample collected;
- (b) Results of each soil moisture test; and
- (c) Corrective actions taken when soil moisture test results are below the applicable minimum moisture content in Maricopa County Rule 316 § 301.2(c).

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

[Maricopa County Rule 316 §501.3]

For any ECS and any ECS monitoring devices that are used under this rule or under an air pollution control permit:

- (a) Periods of time that an approved ECS is operating to comply with the conditions in this permit;

- (b) Periods of time that an approved ECS is not operating;
  - (c) Flow rates;
  - (d) Pressure drops;
  - (e) Other conditions and operating parameters necessary to determine if the approved ECS is functioning properly;
  - (f) Results of visual inspections;
  - (g) Correction action taken, if necessary; and
  - (h) Dates of all service or maintenance related activities for each approved ECS.
3. When operating inside of Maricopa County, the Permittee shall maintain a copy of all earth moving permits obtained from Maricopa County on site and available for review upon request.  
[A.A.C. R18-2-306.A.3.c and 306.A.4]
4. When operating inside of Maricopa County, the Permittee shall maintain a copy of the most recently approved Dust Control Plan on-site and available for review upon request.  
[A.A.C. R18-2-306.A.3.c and 306.A.4]

**F. Permit Shield**

Compliance with the Conditions of this Section shall be deemed compliance with A.A.C. R18-2-306.01, -306.A.3, -306.A.3.c, -306.A.4, -331.A.3.c, Maricopa County Rule 316 §305.1.b, §305.1.c, §305.1.d, §501, §501.1, §501.2, §501.2.a, §501.2.b, §501.3.a, §502.2.a, Maricopa County Rule 320 §302, §303, and §305.1.a.  
[A.A.C. R18-2-325]

**III. CONCRETE BATCH PLANT REQUIREMENTS**

**A. Applicability**

This Section is applicable to concrete batching and material handling operations.

**B. Particulate Matter and Opacity**

1. Emission Limitations and Standards

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

- a. Stack emissions exceeding 5% opacity; or  
[Maricopa County Rule 316 §303.1.a]
- b. Fugitive dust emissions exceeding 10% opacity from any affected operation or process source, excluding truck dumping.  
[Maricopa County Rule 316 §303.1.b]

2. Air Pollution Control Requirements

The Permittee shall implement the following process controls:

- a. On all dry material storage silo(s), install and operate an overflow warning system/device.  
[Maricopa County Rule 316 §303.2.a]
- b. On all dry material storage silos installed 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.  
[Maricopa County Rule 316 §303.2.b]
- c. On dry mix concrete plant loading stations, when loading truck mixed product, the Permittee shall implement one of the following process controls:  
[Maricopa County Rule 316 §303.2.c]
  - (1) Install and use a rubber fill tube;
  - (2) Install and operate a water spray;
  - (3) Install and operate a properly sized fabric filter baghouse or delivery system;
  - (4) Enclose mixer stations such that no visible emissions occur; or
  - (5) Conduct mixer loading stations in an enclosed process building such that no visible emissions from the building occur during the mixing activities.
  - (6) On each cement silo filling process/loading operation, the Permittee shall install a pressure control system designed to shut-off cement silo filling process/loading operation if pressure from delivery truck is excessive, as defined in the approved O&M Plan.  
[Maricopa County Rule 316 §303.2.d]
- d. On each dry material storage silo filling process/loading operation installed after November 7, 2018, install a pressure control system designed to shut-off the silo filling process/loading operation if pressure from the delivery truck is excessive, as defined in the approved O&M Plan.  
[Maricopa County Rule 316 §303.2.e]

C. Monitoring, Recordkeeping, and Reporting Requirements

1. The Permittee shall comply with the following requirements. Records shall be retained for five (5) years.  
[Maricopa County Rule 316 §501]
2. Operational information required by this rule shall be kept on-site, in written or electronic format, and in a complete and consistent manner and shall be made available without delay to the Director upon request. Paper or electronic copies of records required by this rule shall be made available to the Director upon request.  
[Maricopa County Rule 316 §501.1]

3. General Data

Daily records shall be kept for all days that process equipment is operating. Records shall include all of the following:

[Maricopa County Rule 316 §501.2.a]

- a. Hours of operation;
- b. Type of batch plant (wet, dry, central);
- c. Throughput per day of materials including sand, aggregate, and cement (tons/day);
- d. Volume of concrete produced per day (cubic yards/day) and amount of asphaltic concrete produced per day (tons/day);
- e. Amount of aggregate mined per day (tons/day);
- f. Amount of each nonmetallic mineral and amount of each dry material delivered per day (tons/day or cubic yards/day);
- g. For facilities that assert to be below the thresholds in Conditions IV.C.6.a and IV.C.6.e(1) of this Attachment, the number of aggregate trucks, mixer trucks, delivery trucks, and/or batch trucks exiting the facility; and
- h. Description of operating condition of process controls as required in Maricopa County Rule 316 § 301.2(d) of this rule.

**D. Permit Shield**

Compliance with the Conditions of this Section shall be deemed compliance with Maricopa County Rule 316 §303.1.a, §303.1.b, §303.2.a, §303.2.b, §303.2.c, §303.2.d, §303.2.e, §501.1, and §501.2.a.

[A.A.C. R18-2-325]

**IV. FUGITIVE DUST REQUIREMENTS**

**A. Applicability**

This Section is applicable to any non-point source of fugitive dust in the facility.

**B. Emission Limitations**

An owner, operator, or person subject to this rule shall comply with the following limitations at all times and in all areas of a site, unless otherwise specified.

[Maricopa County Rule 316 §306]

1. 20% Opacity Limitation

For emissions that are not already regulated by an opacity limit, the Permittee shall not discharge, cause or allow to be discharge into the ambient air fugitive dust emissions

exceeding 20% opacity, in accordance with the test methods described in Appendix C of the Fugitive Dust Test Methods of the Maricopa County Rule.

[Maricopa County Rule 316 §306.1]

2. Visible Emission Limitation Beyond Property Line

The Permittee shall not cause or allow to be discharged visible emissions of particulate matter, including fugitive dust beyond the property line within which the emissions are generated.

[Maricopa County Rule 316 §306.2]

3. Wind-Blown Dust

The fugitive dust emission limitations described Conditions IV.B.1 and IV.B.2 shall not apply to wind-blown dust, if the Permittee meets the following conditions:

a. Has implemented the fugitive dust control measures described in Condition IV.C below as applicable, and the fugitive dust emissions cannot be prevented by better application, operation, or maintenance of these fugitive dust control measures;

[Maricopa County Rule 316 §306.3.a]

b. Has compiled and retained records, in accordance with Condition IV.D.5 below; and

[Maricopa County Rule 316 §306.3.b]

c. Has implemented the following control measures, as applicable:

[Maricopa County Rule 316 §306.3.c]

(1) For an active operation, implement one of the following fugitive dust control measures;

(a) Cease operation of any equipment or activity that may contribute to an exceedance of the fugitive dust emission limitations described in Condition IV.B.1 of this Attachment; or

(b) Apply water or other suitable dust suppressant to keep the soil visibly moist.

[Maricopa County Rule 316 §306.3.c(1)]

(2) For an inactive open storage pile, implement one of the following fugitive dust control measures:

(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 Condition IV.E.2.b below.

(b) Cover open storage pile with tarps, plastic, or other material such that wind will not remove the covering, if open storage pile is less than eight feet high.

[Maricopa County Rule 316 §306.3.c(2)]



- (3) For an inactive-disturbed surface area, implement one of the following fugitive dust control measures:
- (a) Uniformly apply and maintain surface gravel or a dust suppressant other than water; or
  - (b) Maintain a visible 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 Condition IV.E.2.b of this Attachment.

[Maricopa County Rule 316 §306.3.c(3)]

4. Stabilization Standards for Unpaved Roads and Unpaved Parking Lots and Unpaved Staging Areas:

The Permittee shall not allow silt loading equal to or greater than 0.33 oz/ft<sup>2</sup> for unpaved roads, unpaved parking lots, and unpaved staging areas. However, if silt loading is equal to or greater than 0.33 oz/ft<sup>2</sup>, the Permittee shall not allow:

- a. Silt content to exceed 6% for unpaved roads; or
- b. Silt content to exceed 8% for unpaved parking lots and staging areas.

[Maricopa County Rule 316 §306.4]

5. Stabilization Standards for All Other Areas

The Permittee shall stabilize all areas of the facility, excluding unpaved roads, unpaved parking lots, and unpaved staging areas, in order to meet at least one of the standards listed below, as applicable:

- a. Maintain visible soil moisture;
- b. Maintain a soil crust;
- c. Maintain a threshold friction velocity (TFV) for disturbed surface areas corrected for non-erodible elements of 100 cm/second or higher;
- d. 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%;
- e. 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%;
- f. 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;

- g. Maintain a percent cover that is equal to or greater than 10% for non-erodible elements; or
- h. Comply with a standard of an alternative test method, upon obtaining the written approval from the Director and the Administrator.
- i. If a facility contains more than one type of visibly distinguishable stabilization characteristics, soil textures, vegetation, or other characteristics, each representative surface area will be evaluated separately for stability, in accordance with the appropriate test methods described in Condition IV.E.2.b below and in Appendix C-Fugitive Dust Test Methods of these rules.

[Maricopa County Rule 316 §306.5.a]

**C. Air Pollution Control Requirements**

The Permittee shall implement the fugitive dust control measures described in Conditions IV.C.1 through IV.C.12 below, as applicable. Any fugitive dust control measure that is implemented must achieve the applicable standard(s) described in Condition IV.B above, as determined by the corresponding test method(s), as applicable, and must achieve other applicable standard(s) set forth in this Section.

The Permittee submit a request to the Director and the Administrator for the use of alternative control measure(s). The request shall include the proposed alternative control measure, the control measure that the alternative would replace, and a detailed statement or report demonstrating that the measure would result in equivalent or better emission control than the measures prescribed in this Section.

[Maricopa County Rule 316 §307]

**1. Open Storage Piles and Material Handling**

The Permittee shall implement all of the following fugitive dust control measures, as applicable, in compliance with Condition IV.B.1 through IV.B.5 of this Attachment. For the purpose of this Section, open storage pile(s) and material handling does not include berms that are installed to comply with 30 CFR 56.93000. However, such berms shall be installed and maintained in compliance with Conditions IV.B.1, IV.B.2, and IV.B.5 of this Attachment.

[Maricopa County Rule 316 §307.1]

- a. Prior to, and/or while conducting loading, unloading, and excavating operations, implement one of the following fugitive dust control measures:

- (1) Spray material with water, as necessary; or
- (2) Spray material with a dust suppressant other than water, as necessary.

[Maricopa County Rule 316 §307.1.a]

- b. When not conducting loading, unloading, and excavating operations, implement one of the following fugitive dust control measures:

[Maricopa County Rule 316 §307.1.b]

- (1) Spray material with water, as necessary;

- (2) Maintain a 1.5% or more soil moisture content of the open storage pile(s);
  - (3) Locate open storage pile(s) in a pit/in the bottom of a pit;
  - (4) Arrange open storage pile(s) such that storage pile(s) of larger diameter products are on the perimeter and act as barriers to/for open storage pile(s) that could create fugitive dust emissions;
  - (5) Construct and maintain wind barriers, storage silos, or a three-sided enclosure with walls, whose length is no less than equal to the length of the pile, whose distance from the pile is no more than twice the height of the pile, whose height is equal to the pile height, and whose porosity is no more than 50%;
  - (6) Cover open storage piles with tarps, plastic, or other material to prevent wind from removing the coverings; or
  - (7) Maintain a visible crust.
- c. When installing new open storage pile(s), the Permittee shall implement all of the following fugitive dust control measures:
- (1) Install the open storage pile(s) 25 feet or more from the property line. The Permittee may be allowed to install the open storage pile(s) less than 25 feet from the property line, if the Permittee can demonstrate to the Director that there is not adequate space to install the open storage pile(s) 25 feet or more from the property line. Such demonstration shall be made in writing and approved by the Director; and
  - (2) Limit the height of the open storage pile(s) to less than 45 feet.  
[Maricopa County Rule 316 §307.1.c]
- d. For any open storage pile(s) that are more than eight (8) feet high and are not covered, the Permittee shall install, use, and maintain a water truck or other method that is capable of completely wetting the surfaces of the open storage pile(s).  
[Maricopa County Rule 316 §307.1.d]
2. Unpaved Parking Lots, Staging Areas, and Areas Where Support Equipment and Vehicles Operate
- The Permittee shall implement one of the following fugitive dust control measures on areas other than the areas identified in Condition IV.C.3 or IV.C.4 of this Attachment where loaders, support equipment, and vehicles operate.
- a. Apply and maintain water;
  - b. Apply and maintain a dust suppressant, other than water; or
  - c. Apply and maintain a layer of washed gravel that is at least six (6) inches deep.

[Maricopa County Rule 316 §307.2]

3. Haul/Access Roads that Are Not in Permanent Areas of a Facility

a. The Permittee shall implement one of the following fugitive dust control measures, as applicable, before engaging in the use of haul/access roads. Compliance with the provisions of Condition IV.C.3 of this Attachment shall not relieve the Permittee from complying with any other federally enforceable requirements (i.e., a permit issued under Section 404 of the Clean Water Act).

- (1) Install and maintain bumps, humps, or dips for speed control and apply water, as necessary;
- (2) Limit vehicle speeds and apply water, as necessary;
- (3) Install and maintain a paved surface;
- (4) Apply and maintain a layer of washed gravel that is six inches deep;
- (5) Apply a dust suppressant, other than water; or
- (6) Install and maintain a cohesive hard surface.

[Maricopa County Rule 316 §307.3.a]

b. For a new facility, if it is determined that none of the fugitive dust control measures described in Condition IV.C.3.a can be technically and feasibly implemented, then the Permittee shall maintain a distance of 25 feet or more between the property line and haul/access roads associated with the new facility. Such determination shall be made and approved in writing by the Director and the Administrator and shall be approved in the Dust Control Plan.

[Maricopa County Rule 316 §307.3.b]

4. On-Site Traffic

a. The Permittee shall require all batch trucks and delivery trucks to remain on roads with paved surfaces or cohesive hard surfaces.

[Maricopa County Rule 316 §307.4.a]

b. The Permittee shall require all aggregate trucks to remain on paved surfaces or cohesive hard surfaces, except when driving on roads leading to and from aggregate loading areas/loading operations, as approved in the Dust Control Plan.

[Maricopa County Rule 316 §307.4.b]

c. The Permittee shall require all batch trucks and delivery trucks to exit the facility/operation only through exits that comply with the trackout control device requirements in Condition IV.C.6 of this Attachment.

[Maricopa County Rule 316 §307.4.c]

d. The Permittee shall pave or install a cohesive hard surface on permanent areas of a facility on which vehicles drive, as approved in the Dust Control Plan.

[Maricopa County Rule 316 §307.4.d]

5. Hauling and/or Transporting Bulk Material

a. When hauling and/or transporting bulk material off-site, the Permittee shall implement all of the following control measures:

- (1) Load all haul trucks such that the freeboard is not less than three (3) inches;
- (2) Prevent spillage or loss of bulk material from holes or other openings in the cargo compartment's floor, sides, and/or tailgate(s); and
- (3) Cover haul trucks with a tarp or other suitable closure.

[Maricopa County Rule 316 §307.5.a]

b. When hauling and/or transporting bulk material within the boundaries of the facility, the Permittee shall implement one of the following control measures:

- (1) Limit vehicle speed to 15 miles per hour or less while traveling within the facility;
- (2) Apply water to the top of the load; or
- (3) Cover haul trucks with a tarp or other suitable closure.

[Maricopa County Rule 316 §307.5.b]

c. When hauling and/or transporting bulk material within the boundaries of a facility and crossing or accessing an area accessible to the public, the Permittee shall implement all of the following control measures:

- (1) Load all haul trucks such that the freeboard is not less than three (3) inches;
- (2) Prevent spillage or loss of bulk material from holes or other openings in the cargo compartment's floor, sides, and/or tailgate(s); and
- (3) Cover haul trucks with a tarp or other suitable closure.

[Maricopa County Rule 316 §307.5.c]

6. Trackout Control Devices, Trackout, and Spillage

a. Trackout Control Devices for Facilities with 60 or More Trucks Exiting on Any Day

The Permittee shall install, maintain, and use a rumble grate and wheel washer, in accordance with all of the following conditions, as applicable at a permanent facility with 60 or more aggregate trucks, mixer trucks, delivery trucks, and/or batch trucks exiting a facility on any day onto paved areas accessible to the public.

- (1) The Permittee shall locate a rumble grate within 10 feet from a wheel washer.

[Maricopa County Rule 316 §307.6.a(1)]

- (a) The rumble grate and wheel washer shall be located no less than 30 feet prior to each exit that leads to a paved area accessible to the public and that is used by aggregate trucks, mixer trucks, delivery trucks, and/or batch trucks.
  - (b) The Permittee may be allowed to install a rumble grate and wheel washer less than 30 feet prior to each exit if the Permittee can demonstrate to the Director that there is not adequate space to install a rumble grate and wheel washer no less than 30 feet prior to each exit and that a rumble grate and wheel washer at a shorter distance will be adequate to prevent trackout.
  - (c) A vehicle wash and/or a cosmetic wash may be substituted for a wheel washer, provided such vehicle wash and/or cosmetic wash has at least 40 pounds per square inch (psi) water spray from the nozzle, meets the definition of wheel washer (i.e., is capable of washing the entire circumference of each wheel of the vehicle), is operated in such a way that visible deposits are removed from the entire circumference of each wheel of the vehicle exiting the wash, is installed, maintained, and used in accordance with criteria Conditions IV.C.6.a(1) through IV.C.6.a(6), and is approved in the Dust Control Plan for the facility.
- (2) The Permittee shall ensure that all aggregate trucks, mixer trucks, delivery trucks, and/or batch trucks exit the facility via the rumble grate first and then the wheel washer.  
[Maricopa County Rule 316 §307.6.a(2)]
  - (3) The Permittee shall post a sign by the rumble grate and wheel washer to designate the speed limit as 5 miles per hour.  
[Maricopa County Rule 316 §307.6.a(3)]
  - (4) The Permittee shall pave the roads from the rumble grate and wheel washer to the facility exits leading to paved areas accessible to the public.  
[Maricopa County Rule 316 §307.6.a(4)]
  - (5) The Permittee shall ensure that all aggregate trucks, mixer trucks, delivery trucks, and/or batch trucks remain on the paved roads between the rumble grate and wheel washer and the facility exits leading paved areas accessible to the public.  
[Maricopa County Rule 316 §307.6.a(5)]
  - (6) An owner, operator, or person subject to this rule shall have a water pressure gauge available on-site to measure nozzle pressure if a vehicle wash and/or cosmetic wash is substituted for a wheel washer.  
[Maricopa County Rule 316 §307.6.a(6)]
- b. Trackout Control Devices for Facilities with Less than 60 Trucks Exiting on Any Day

A Permittee not subject to Condition IV.C.6.a of this Attachment, shall install, maintain, and use a rumble grate, wheel washer, or truck washer in accordance with all of the following:

- (1) A rumble grate, wheel washer, or truck washer shall be located no less than 30 feet prior to each exit that leads to a paved area accessible to the public and that is used by aggregate trucks, mixer trucks, delivery trucks, and/or batch trucks.

The Permittee may be allowed to install a rumble grate, wheel washer, or truck washer less than 30 feet prior to each exit if the Permittee demonstrates to the Director that there is not adequate space to install a rumble grate, wheel washer, or truck washer no less than 30 feet prior to each exit and that a rumble grate, wheel washer, or truck washer at a shorter distance will be adequate to prevent trackout.

- (2) The Permittee shall ensure that all aggregate trucks, mixer trucks, delivery trucks, and/or batch trucks exit the facility via a rumble grate, wheel washer, or truck washer.
- (3) The Permittee shall post a sign by the rumble grate, wheel washer, or truck washer to designate the speed limit as 5 miles per hour.
- (4) If haul/access roads/internal roads are unpaved between the rumble grate, wheel washer, or truck washer and the facility exits leading to paved areas accessible to the public, a gravel pad shall be installed, maintained, and used from the rumble grate, wheel washer, or truck washer to such paved areas accessible to the public. The gravel pad shall be flushed with water or completely replaced as necessary to comply with the trackout threshold described in Condition IV.C.6.d.

[Maricopa County Rule 316 §307.6.b]

c. Exemptions from Trackout Control Device Requirements

- (1) The Permittee shall not be required to install, maintain, and use a wheel washer at a facility that has all paved roads and meters aggregate or related materials directly to a ready-mix or hot mix asphalt truck, with the exception of returned products. The Permittee shall install, maintain, and use a rumble grate.

[Maricopa County Rule 316 §307.6.c(1)]

- (2) The Permittee shall not be required to install, maintain, and use a wheel washer at a facility that is less than 5 acres in land size and handles recycled asphalt and recycled concrete exclusively. The Permittee shall install, maintain, and use a rumble grate and a gravel pad on all unpaved roads leading to the facility exits leading to paved areas accessible to the public.

[Maricopa County Rule 316 §307.6.c(2)]

- (3) The Permittee shall not be required to install, maintain, and use a wheel washer at a facility that has a minimum of ¼ mile paved internal

roads leading from a rumble grate to the facility exits leading to paved areas accessible to the public.

[Maricopa County Rule 316 §307.6.c(3)]

- (4) An owner, operator, or person subject to this rule shall not be required to install, maintain, and use a wheel washer at a facility that meets the definition of infrequent operations, as defined in Section 238 of MCAQD Rule 316. An owner, operator, or person subject to this rule shall install, maintain, and use a rumble grate and a gravel pad. The gravel pad shall be installed for a distance of no less than 100 feet from the rumble grate to the facility exits leading to paved areas accessible to the public. An owner, operator, or person subject to this rule shall keep records in accordance with Section 500 of this rule, as applicable. An owner, operator, or person subject to this rule shall notify the Director in the event that the facility will operate more than 52 days per year based on the average rolling 3-year period after June 8, 2005 and the owner, operator, or person subject to this rule shall comply with Condition IV.C.6 of this Attachment, as applicable.

[Maricopa County Rule 316 §307.6.c(4)]

- (5) An owner, operator, or person subject to this rule shall not be required to install, maintain, or use a wheel washer, rumble grate, or other trackout control device specified in Conditions IV.C.6.a through IV.C.6.b of this Attachment, where the only possible fugitive dust release from the facility may be generated from a process that is otherwise vented or controlled through an approved emission control system and provided the following controls are in place:

[Maricopa County Rule 316 §307.6.c(5)]

- (a) A paved surface is installed and maintained on all internal travel, parking, and vehicle maneuvering areas;
- (b) All emissions from processes that create dust are captured by an approved emission control system operated in accordance with Section 305.1 of this rule;
- (c) All dry material storage silos are equipped with an overflow warning system/device and a pressure control system which prevents spillage during silo loading;
- (d) All material from rail car bottom dumping, for rail car unloading, is contained in areas where no vehicle use or maneuvering is permitted; and
- (e) All material transfer operations are conducted in a manner that prevents spillage of material to the ground.

d. Trackout Distance

- (1) The Permittee shall not allow trackout to extend a cumulative distance of 25 linear feet or more from all facility exits onto paved areas accessible to the public.



[Maricopa County Rule 316 §307.6.d(1)]

- (2) The Permittee shall clean up all other trackout at the end of the workday.

[Maricopa County Rule 316 §307.6.d(2)]

e. Cleaning Paved Roads Identified in the Dust Control Plan

The Permittee shall clean all paved roads identified in the Dust Control Plan for a facility in accordance with all of the following as applicable:

[Maricopa County Rule 316 §307.6.e]

- (1) If the Permittee at a facility with 60 or more aggregate trucks, mixer trucks, delivery trucks, and/or batch trucks exiting the facility on any day shall sweep the paved roads with a street sweeper by the end of each production work shift, if there is evidence of dirt and/or other bulk material extending a cumulative distance of 12 linear feet or more on any paved road.
- (2) The Permittee at a facility with less than 60 aggregate trucks, mixer trucks, delivery trucks, and/or batch trucks exiting the facility on any day shall sweep the paved roads with a street sweeper by the end of every other work day, if there is evidence of dirt and/or other bulk material extending a cumulative distance of 12 linear feet or more on any paved road. On the days that paved roads are not swept, if there is evidence of dirt and/or other bulk material extending a cumulative distance of 12 linear feet or more on any paved road, The Permittee shall remove the dirt and/or other bulk material from the paved internal road by the end of the work day.
- (3) The Permittee, who purchases street sweepers after June 8, 2005, shall purchase street sweepers that meet the criteria of PM<sub>10</sub> efficient South Coast Air Quality Management Rule 1186 certified street sweepers.
- (4) The Permittee shall use South Coast Air Quality Management Rule 1186 certified street sweepers to sweep paved roads at a new facility.

7. Weed Abatement by Discing or Blading

The Permittee shall implement all of the following fugitive dust control measures before, during, and after weed abatement by discing or blading:

[Maricopa County Rule 316 §307.7]

- a. Before weed abatement by discing or blading occurs, apply water;
- b. While weed abatement by discing or blading is occurring, apply water; and
- c. After weed abatement by discing or blading occurs, pave, apply gravel, apply water, apply a suitable dust suppressant other than water, or establish vegetative ground cover.

8. Demolition

The Permittee shall implement all of the following fugitive dust control measures for demolition activities:

- a. Apply water to demolition debris immediately following demolition activity; and
- b. After demolition, apply water to all soil surfaces to establish a visible crust and to prevent wind erosion.

[Maricopa County Rule 316 §307.8]

9. Blasting Operations

The Permittee shall pre-water and maintain surface soils in a stabilized condition where support equipment and vehicles will operate when conducting blasting operations.

[Maricopa County Rule 316 §307.9]

10. Other Dust-Generating Operations

The Permittee shall implement the following control measures, as applicable, when conducting dust-generating operations not specifically listed in Condition IV.C.1 through IV.C.9 above, or when a dust-generating operation is finished for a period of 30 days or longer:

- a. Before disturbed surface areas are created, implement one of the following control measures:
  - (1) Pre-water site to depth of cuts, allowing time for penetration; or
  - (2) Phase work to reduce the amount of disturbed surface areas at any one time.

[Maricopa County Rule 316 §307.10.a]

- b. While disturbed surface areas are being created, implement one of the following control measures:

- (1) Apply water or other suitable dust suppressant other than water to keep the soil visibly moist;
- (2) Apply water to maintain a soil moisture content at a minimum of 12%, as determined by ASTM Method D2216-05 or other equivalent method as approved by the Director and the Administrator. For areas that have optimum moisture content for compaction of less than 12%, as determined by ASTM Method D1557-02e1 or other equivalent method approved by the Director and the Administrator, maintain at least 70% of the optimum soil moisture content; or
- (3) Implement control measures described in Condition IV.C.10.b(1) or Condition IV.C.10.b(2) of this attachment and construct fences or three-foot to five-foot high wind barriers with 50% or less porosity adjacent to roadways or urban areas to reduce the amount of wind-blown material leaving a site.

[Maricopa County Rule 316 §307.10.b]

- c. When a dust-generating operation is finished for a period of 30 days or longer, the owner, operator, or person subject to this rule shall implement one of the following control measures on the disturbed surface area within ten days after cessation nonmetallic mineral processing, related operations, or any other dust generating operations.
- (1) Pave, apply gravel, or apply a suitable dust suppressant other than water;
  - (2) Establish vegetative ground cover;
  - (3) Implement control measures described in Condition IV.C.10.c(1) or Condition IV.C.10.c(2) of this attachment and restrict vehicle access to the area;
  - (4) Apply water and prevent access by fences, ditches, vegetation, berms, or other suitable barrier or means sufficient to prevent vehicle access as approved by the Director;
  - (5) Restore area such that the vegetative ground cover and soil characteristics are similar to adjacent or nearby undisturbed native conditions.

[Maricopa County Rule 316 §307.10.c]

11. Nighttime Operations

The Permittee shall implement, maintain, and use fugitive dust control measures between sunset and sunrise so as to meet all of the applicable requirements in this rule, and shall identify in the Dust Control Plan such fugitive dust control measures.

[Maricopa County Rule 316 §307.11]

12. Soil Moisture

If water is the chosen control measure in an approved Dust Control Plan, the Permittee shall operate a water application system (e.g. a water truck) at the facility while conducting any operations that have the potential to generate fugitive dust emissions, unless a visible crust is maintained or the soil is sufficiently damp to prevent loose grains of soil from becoming dislodged.

[Maricopa County Rule 316 §307.12]

**D. Monitoring, Recordkeeping, and Reporting Requirements**

1. Fugitive Dust Control Technician

The Permittee with a rated or permitted capacity of 25 tons or more of material per hour or with five acres or more disturbed surface area subject to a permit, whichever is greater, 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 the conditions of this Attachment.

[Maricopa County Rule 316 §309.1]

- b. Be trained in accordance with the Comprehensive Dust Control Training Class conducted or approved by the Director, successfully complete, at least once every three (3) 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.

[Maricopa County Rule 316 §309.2]

- c. Be authorized by the Permittee to install, maintain, and use fugitive dust control measures, deploy resources, and shutdown or modify equipment or operations as needed.

[Maricopa County Rule 316 §309.3]

- d. Be on-site at all times during primary dust-generating operations related to the purposes for which the permit was obtained.

[Maricopa County Rule 316 §309.4]

- 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.

[Maricopa County Rule 316 §309.5]

- 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 Director with jurisdiction over the site, and successfully complete, at least once every three years, such Basic Dust Control Training Class.

[Maricopa County Rule 316 §309.6]

2. Basic Dust Control Training Class

- a. At least once every three (3) years, the plant manager, foreman, 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 Director requiring control of PM<sub>10</sub> emissions from dust-generating operations, shall successfully complete a Basic Dust Control Training Class conducted or approved by the Director.

[Maricopa County Rule 316 §310.1]

- b. At least once every three (3) years, water truck and water-pull drivers shall successfully complete a Basic Dust Control Training Class conducted or approved by the Director.

[Maricopa County Rule 316 §310.2]

- c. Completion of the Comprehensive Dust Control Training Class, as required in Condition IV.D.2 of this Attachment, shall satisfy the requirement of Section IV of this Attachment.

[Maricopa County Rule 316 §310.3]

- d. For water truck drivers hired on or after November 7, 2018, basic training is required within 60 days from the date of hire unless such time period is extended by the Director, upon written request, for good cause.

[Maricopa County Rule 316 §310.4]

3. Opacity

- a. Opacity monitoring of fugitive visible emissions shall be conducted in accordance with the test methods described in Appendix C (Fugitive Dust Test Methods) of the Maricopa County Rules.

[Maricopa County Rule 316 §502.2]

- b. A certified Method 9 observer shall conduct a monthly visual survey of visible emissions from the fugitive sources. The Permittee shall keep records of the name of observer, date, time, and result of the survey and observation.

[A.A.C. R18-2-306.A.3]

- c. If the observer sees a plume from a fugitive source that on an instantaneous basis appears to exceed 20%, then the observer shall, if practicable, take a Method 9 observation of the plume in accordance with Appendix C (Fugitive Dust Test Methods) of the Maricopa County Rules.

[A.A.C. R18-2-306.A.3]

- d. If the opacity of the plume is less than 20%, the observer shall make a record of the following:

[A.A.C. R18-2-306.A.3]

- (1) Location, date, and time of the observation; and
- (2) The results of the Method 9 observation.

- e. If the opacity of the plume exceeds 20%, then the Permittee shall do the following:

[A.A.C. R18-2-306.A.3]

- (1) Adjust or repair the controls or equipment to reduce opacity to below 20%; and
- (2) Report it as an excess emission under Section XII.A of Attachment "A".

4. Dust Control Plan

[Maricopa County Rule 316 §311.1]

- a. The Permittee shall submit, to the Director, a Dust Control Plan that includes, at a minimum, the following information:

- (1) Name(s), address(es), and phone numbers of person(s) responsible for the submittal and implementation of the Dust Control Plan and responsible for the dust-generating operation;

- (2) Equipment associated with any process fugitive emissions to be implemented, in order to comply with Maricopa County Rule 316 § 301, 302, and 303;
- (3) Fugitive dust control measures to be implemented, in order to comply with Maricopa County Rule 316 §305, 306, and 307;
- (4) Appropriate control measures, or a combination thereof, for every actual and potential source of fugitive dust;
- (5) Fugitive dust control measures to be implemented for other affected operations not identified in this rule, as applicable;
- (6) Installation date of trackout control device, if applicable; and
- (7) Dust suppressants to be applied, including all of the following product specifications or label instructions for approved usage:
  - (a) Method, frequency, and intensity of application;
  - (b) Type, number, and capacity of application equipment; and
  - (c) Information on environmental impacts and approvals or certifications related to appropriate and safe use for ground application.
- (8) Operation and maintenance procedures for process controls and fugitive dust control measures, including but not limited to, gravel pads, wheel washers, truck washers, rumble grates, watering systems, and street sweepers, that are used to comply with this rule or an air pollution control permit.
- (9) A drawing, on 8½” x 11” paper, that shows all of the following information:
  - (a) Property boundaries and project site boundaries with linear dimensions;
  - (b) Location, linear dimensions, and specific surfaces treatment(s) and/or control measures utilized (i.e., install and maintain a paved surface or a cohesive hard surface) for staging areas, open storage piles, haul/access roads, parking areas, and permanent areas of the facility;
  - (c) Location and type of trackout control device, if applicable;
  - (d) Nearest public roads;
  - (e) North arrow;
  - (f) Planned exit locations onto areas accessible to the public; and

- (g) Unpaved parking lot(s).
- (10) The method that will be used for soil moisture testing: ASTM C566-97 (2004) “Standard Test Method for Total Evaporable Moisture Content of Aggregate by Drying” or Speedy Moisture Meter.
- (11) A process diagram that identifies the progression of material containing aggregate material less than 0.25 inch in diameter through the process and that includes all of the following information:
  - (a) Identification of all screen outlets of aggregate material less than 0.25 inch in diameter;
  - (b) Identification of all crusher outlets of aggregate material less than 0.25 inch in diameter;
  - (c) Identification of all stacker points of aggregate material less than 0.25 inch in diameter;
  - (d) Identification of sample points for soil moisture tests required by Section 312 of this rule; and
  - (e) Identification of the applicable minimum soil moisture content required by Section 301.2(c) of this rule for each sample point for soil moisture tests.
- b. The Permittee shall submit to the Director a revised Dust Control Plan at each of the following times:

[Maricopa County Rule 316 §311.2]

  - (1) At the time such that the Permittee submits an application for an air pollution control permit to the Director;
  - (2) Prior to commencing dust generating operations, nonmetallic mineral processing, or any related operations in areas of a facility that were not previously identified in the approved Dust Control Plan;
  - (3) Prior to installing, maintaining, or using new roads (excluding new roads within a pit), new parking areas, or new staging areas that were not previously identified in the approved Dust Control Plan;
  - (4) Prior to modifying any dust control measures specified in the approved Dust Control Plan;
  - (5) Prior to implementing changes to the soil moisture testing protocol in the approved Dust Control Plan, except as allowed in Maricopa County Rule 316 §312; and
  - (6) Prior to commencing construction or demolition projects that were not previously described in the approved Dust Control Plan.

- c. The Director 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 of Section IV of this Attachment.

[Maricopa County Rule 316 §311.3]

- d. The Director shall provide written notification to the owner, operator, or person subject to this rule, if the Director determines any of the following:

[Maricopa County Rule 316 §311.4]

- (1) That a Dust Control Plan is incomplete;
- (2) That the Dust Control Plan is conditionally approved; or
- (3) That an approved Dust Control Plan has been followed, yet fugitive dust emissions still exceed the standards of this rule and, therefore, a revised Dust Control Plan is required.

- e. The Permittee who receives a notice as described in Condition IV.D.4.b of this Attachment, shall make written revisions to the Dust Control Plan and shall submit such revised Dust Control Plan to the Director within three working days of receipt of the Director's written notice, unless such time period is extended by the Director, upon written request, for good cause. During the time that the Permittee is preparing revisions to the Dust Control Plan, the Permittee shall still comply with all requirements of this rule.

[Maricopa County Rule 316 §311.5]

- f. The Permittee shall keep a complete copy of the approved Dust Control Plan on-site at all times.

[Maricopa County Rule 316 §311.6]

- g. The Permittee shall make available the approved Dust Control Plan to all contractors and subcontractors at a facility who are engaged in nonmetallic mineral processing or related operations that are subject to this rule.

[Maricopa County Rule 316 §311.7]

5. 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 any activity capable of generating fugitive dust is conducted at the facility. Self-inspection records shall include daily inspections for crusted or damp soil, trackout conditions and clean-up measures, daily water usage for dust control measures, and dust suppressant application. Such written records shall also include the following information.

[Maricopa County Rule 316 §501.4]

- a. Method, frequency, and intensity of application or implementation of the control measures;
- b. Method, frequency, and amount of water application to the site;



- c. Street sweeping frequency;
- d. Types of surface treatments applied to and maintenance of trackout control devices, gravel pads, fences, wind barriers, and tarps;
- e. Types and results of test methods conducted;
- f. If contingency control measures are implemented, actual application or implementation of contingency control measures and why contingency control measures were implemented;
- g. List of subcontractors' names and registration numbers, if applicable, updated when changes are made; and
- h. Names of employee(s) who successfully completed dust control training class(es) required by Conditions IV.D.1 and IV.D.2 of this Attachment, and the date of the class(es) that such employee(s) successfully completed.

6. Basic Dust Control Training Class Records

The Permittee shall compile, maintain, and retain written records for each employee subject to Condition IV.D.2 of this Attachment. 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.

[Maricopa County Rule 316 §501.5]

**E. Testing Requirements**

1. The Permittee shall conduct performance tests for soil stabilization and moisture content as required by the Director.  
[A.A.C. R18-2-312]
2. Compliance Determination For Emissions And Controls That Are Regulated By Maricopa County Rule 316 §306

To determine compliance with the fugitive dust emission limitations described in the stabilization standards described in Section IV.B of this Attachment, opacity observations shall be conducted in accordance with the techniques specified in Appendix C-Fugitive Dust Test Methods of the Maricopa County Rules.

[Maricopa County Rule 316 §503]

a. Soil Moisture Content and Soil Compaction Characteristic Test Methods

- (1) ASTM Method D2216-05 ("Standard Test Method For Laboratory Determination Of Water (Moisture) Content Of Soil And Rock By Mass"), 2005 edition.
- (2) ASTM Method D1557-02e1 ("Test Method For Laboratory Compaction Characteristics Of Soil Using Modified Effort (56,000 ft-lbf/ft<sup>3</sup> (2,700 kN-m/m<sup>3</sup>))"), 2002 edition.

- (3) ASTM C566-97 (2004) “Standard Test Method for Total Evaporable Moisture Content of Aggregate by Drying”.

[Maricopa County Rule 316 §504]  
Stabilization Standards Test Methods

The stabilization standards described in Section IV.B of this Attachment shall be determined by using the following test methods in accordance with Appendix C-Fugitive Dust Test Methods of these rules:

[Maricopa County Rule 316 §505]

- (4) Appendix C, Section 2.1.2 (Silt Content Test Method) of the Maricopa County Rules to estimate the silt content of the trafficked parts of unpaved roads (not to exceed 6%) and unpaved parking lots (not to exceed 8%).
- (5) Appendix C, Section 2.3 (Test Methods for Stabilization-Soil Crust Determination - The Drop Ball Test) of the Maricopa County Rules for soil crust.
- (6) Appendix C, Section 2.4 (Test Methods for Stabilization-Determination of Threshold Friction Velocity (TFV) Sieving Field Procedure) of the Maricopa County Rules for TFV corrected for non-erodible elements of 100 cm/second or higher.
- (7) Appendix C, Section 2.5 (Test Methods for Stabilization-Determination Of Flat Vegetative Cover) of the Maricopa County Rules for flat vegetation 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%.
- (8) Appendix C, Section 2.6 (Test Methods for Stabilization-Determination of Standing Vegetative Cover) of the Maricopa County Rules for standing vegetation cover (i.e., vegetation that is attached (rooted) with a predominant vertical orientation) that is equal to or greater than 30%.
- (9) Appendix C, Section 2.6 (Test Methods for Stabilization-Determination Of Standing Vegetative Cover) of the Maricopa County Rules for standing vegetation 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.
- (10) Appendix C, Section 2.7 (Test Methods for Stabilization-Rock Test Method) of the Maricopa County Rules for a percent cover that is equal to or greater than 10%, for non-erodible elements.
- (11) An alternative test method approved in writing by the Director and the Administrator of the EPA.

**F. 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 (4) inches high, and shall contain at least all of the following information:

[Maricopa County Rule 316 §308]

1. Facility name and Permittee's name;
2. Current number of the air quality permit or of authority to operate under a general permit;
3. Name and local phone number of person(s) responsible for dust control matters; and
4. Text stating: "Dust complaints? Call Maricopa County Air Quality Department- (Insert the accurate Maricopa County Air Quality Department complaint line telephone number)."

**G. Permit Shield**

Compliance with the Conditions of Section shall be deemed compliance with A.A.C. R18-2-306.A.3, -312, Maricopa County Rule 316 §306, §307, §308, §309, §310, §311, §501.4, §501.5, §502.2, §503, §504, and §505.

[A.A.C. R18-2-325]

**V. OTHER PERIODIC ACTIVITIES**

**A. Abrasive Blasting**

1. Applicability

These conditions shall apply to all abrasive blasting operations unless they meet the following criteria:

[Maricopa County Rule 312 §103]

- a. Self-contained, enclosed abrasive blasting equipment that is not vented to the atmosphere or is vented inside a building with the exhaust directed away from any opening to the building exterior, or
- b. Hydroblasting.

2. Limitations For Blasting

All abrasive blasting operations shall be performed in a confined enclosure, unless one of the following conditions are met, in which case unconfined blasting according to Condition V.A.3 of this Attachment may be performed:

[Maricopa County Rule 312 §301]

- a. The item to be blasted exceeds 8 feet in any one dimension, or

- b. The surface being blasted is fixed in a permanent location, cannot easily be moved into a confined enclosure, and the surface is not normally dismantled or moved prior to abrasive blasting.

3. Requirements For Unconfined Blasting

At least one of the following control measures shall be used:

[Maricopa County Rule 312 §302]

- a. Wet abrasive blasting,
- b. Vacuum blasting, or
- c. Dry abrasive blasting, provided that all of the following conditions are met:
  - (1) Perform only on a metal substrate.
  - (2) Use only certified abrasive for dry unconfined blasting.
  - (3) Blast only paint that is lead free (i.e. the lead content is less than 0.1 percent).
  - (4) Perform the abrasive blasting operation directed away from unpaved surfaces.
  - (5) Use the certified abrasive not more than once unless contaminants are separated from the abrasive through filtration and the abrasive conforms to its original size.

4. Requirements For Confined Blasting

Dry abrasive blasting in a confined enclosure with a forced air exhaust shall be conducted by implementing either of the following:

[Maricopa County Rule 312 §303]

- a. Using a certified abrasive, or
- b. Venting to an ECS.

5. Requirements for ECS and Monitoring Devices

- a. The following requirements apply to blasting equipment that vents through a required ECS and requires a permit under Rule 200 of the Maricopa County Rules. Buildings and/or enclosures are not considered control equipment. Equipment that meets the following two criteria and is operated and maintained in accordance with manufacturer's specifications is exempt from the requirements of this Section:

[Maricopa County Rule 312 §304]

- (1) Is self-contained and the total internal volume of the blast section is 50 cubic feet or less, and

(2) Is vented to an ECS.

b. Operation and Maintenance (O&M) Plan Required for Emission Control System (ECS)

[Maricopa County Rule 312 §304.1]

(1) The Permittee shall provide and maintain, readily available at all times, an O&M Plan for any ECS, other emission processing equipment, and ECS monitoring devices that are used pursuant to Condition V.A.5.b of this Attachment or to an air pollution control permit.

(2) The Permittee shall submit to the Director for approval the O&M Plans of each ECS and each ECS monitoring device that is used pursuant to Condition V.A.5 of this Attachment. If the O&M plan has not been filed, any owner or operator employing an approved existing ECS on the effective date of this rule shall by December 18, 2003 have an O&M plan filed with the Director.

(3) The Permittee shall comply with all the identified actions and schedules provided in each O&M Plan.

c. Installing and Maintaining ECS Monitoring Devices

The Permittee operating an ECS pursuant to this Section of this Attachment shall properly install and maintain in calibration, in good working order and in operation, devices described in the facility's O&M Plan that indicate temperatures, pressures, rates of flow, or other operating conditions necessary to determine if air pollution control equipment is function properly.

[Maricopa County Rule 312 §304.2]

6. Opacity Limitation

The Permittee shall not discharge into the atmosphere from any abrasive blasting operation any air contaminant for an observation period or periods aggregating more than three minutes in any sixty-minute period an opacity equal to or greater than 20 percent. An indicated excess will considered to have occurred if any cumulative period of 15-second increments totaling more than three (3) minutes within any sixty-minute period was in excess of the opacity standard.

[Maricopa County Rule 312 §305]

7. Wind Event

No dry unconfined abrasive blasting operation shall be conducted during a wind event.

[Maricopa County Rule 312 §306]

8. Traffic Markers

Surface preparation for raised traffic delineating markers and pavement marking removal using abrasive blasting operations shall be performed by wet blasting, hydroblasting or vacuum blasting. Dry blasting may be performed using only certified abrasives when:

[Maricopa County Rule 312 §307]

- a. Removing pavement markings of less than 1,000 square feet;
- b. Performing surface preparation for raised traffic delineating markers of less than 1,000 square feet.

9. Work Practices

a. Unconfined Blasting

The Permittee shall clean up spent abrasive material with a potential to be transported during a wind event and, until removal occurs, shall at a minimum, meet the provisions of Section V of this Attachment regarding work practices.

[Maricopa County Rule 312 §308.1]

b. Confined Blasting

At the end of the work shift the Permittee shall clean up spillage, carry-out and/or trackout of any spent abrasive material with a potential to be transported during a wind event.

[Maricopa County Rule 312 §308.2]

10. Recordkeeping and Reporting Requirements

At a minimum, the Permittee subject to this Condition shall keep the following records on-site that are applicable to all abrasive blasting operations.

[Maricopa County Rule 312 §501]

- a. If blasting operations occur daily or are a part of a facility's primary work activity, then the following shall be kept as a record:

[Maricopa County Rule 312 §501.1]

- (1) A list of the blasting equipment;
- (2) The description of the type of blasting as confined, unconfined, sand, wet, or other;
- (3) The locations of the blasting equipment or specify if the equipment is portable;
- (4) A description of the ECS associated with the blasting operations;
- (5) The days of the week blasting occurs; and
- (6) The normal hours of operation.

- b. If blasting operations occur periodically, then the following shall be kept as a record:

[Maricopa County Rule 312 §501.2]

- (1) The date the blasting occurs;

- (2) The blasting equipment that is operating;
    - (3) A description of the type of blasting; and
    - (4) A description of the ECS associated with the blasting operations.
  - c. The type and amount of solid abrasive material consumed on a monthly basis. Include name of certified abrasive used, as applicable.  
[Maricopa County Rule 312 §501.3]
  - d. Material Safety Data Sheets (MSDS) or results of any lead testing that was performed on paint that is to be removed via unconfined blasting, as applicable.  
[Maricopa County Rule 312 §501.4]
11. Records Retention  
  
Copies of reports, logs, and supporting documentation required by this Condition shall be retained for at least 5 years at permitted Title V sources and for at least 2 years at Non-Title V sources.  
[Maricopa County Rule 312 §502]
12. Compliance Determination
  - a. Control Device Efficiency  
  
Manufacturer's specifications, testing results or engineering data that demonstrate control efficiency shall be submitted upon request of the Director.  
[Maricopa County Rule 312 §503.1]
  - b. Paint Lead Level  
  
Prior to unconfined blasting of paint, the Permittee must be the generator with firsthand knowledge of lead content in the paint, or retain evidence of the lead level from the material MSDS or from a lead test performed in accordance with Maricopa County Rule 312 §506.1 through Maricopa County Rule 312 §506.7. Unconfined blasting is prohibited if the lead content of the material is greater than 0.1 percent.  
[Maricopa County Rule 312 §503.2]
13. Opacity Observations  
  
Opacity shall be determined by observations of visible emissions conducted in accordance with EPA Reference Method 9 and with the following provisions:  
[Maricopa County Rule 312 §505]
  - a. Emissions from unconfined blasting shall be observed at the densest point of the emission from the closest point of discharge, after a major portion of the spent abrasives has fallen out.  
[Maricopa County Rule 312 §505.1]
  - b. Emissions from unconfined blasting employing multiple nozzles shall be considered a single source unless it can be demonstrated by the Permittee that

each nozzle, evaluated separately, meets the emission standards of Condition V.A of this Attachment.

[Maricopa County Rule 312 §505.2]

- c. Emissions from confined blasting shall be observed at the densest point after the air contaminant leaves the enclosure or associated ECS.

[Maricopa County Rule 312 §505.3]

**B. Spray Coating Operations**

To limit the emission of particulate matter to the atmosphere from spray coating operations.

[Maricopa County Rule 315 §101]

1. Controls Required

The Permittee shall not use or operate any spray painting or spray coating equipment unless one of the following conditions is met:

a. Equipment Operated In Enclosures Located Outside a Building

Spray coating equipment shall be operated inside an enclosure which has at least three sides a minimum of eight feet in height and able to contain any object or objects being coated.

[Maricopa County Rule 315 §301.1]

(1) Three-Sided Enclosures

Spray shall be directed in a horizontal or downward pointing manner so that overspray is directed at the walls or floor of the enclosure. No spraying shall be conducted within three (3) feet of any open end or within two feet of the top of the enclosure.

[Maricopa County Rule 315 §301.1.a]

(2) More Complete Enclosures

For enclosures with three (3) sides and a roof or complete enclosures, spray shall be directed into the enclosure so that the overspray is directed away from any opening in the enclosure. No spraying shall be conducted within three (3) feet of any open end and/or within two (2) feet of any open top of the enclosure.

[Maricopa County Rule 315 §301.1.b]

b. Equipment Operated With Forced Air Exhaust Vented Directly Outside

Any spray booth or enclosure with forced air exhaust must have a filtering system with average overspray removal efficiency of at least 92% by weight for the type of material being sprayed. No gaps, sags or holes shall be present in the filters and all exhaust must be discharged into the atmosphere. Spray Booths or enclosures utilizing a water curtain, waterfall or other means to capture particulates in a liquid medium shall effectively remove at least 92% of the overspray and be operated in a manner consistent with the manufacturer's specifications to achieve such efficiency for the type of material being sprayed.



[Maricopa County Rule 315 §301.2]

2. Exemptions

The controls required in Section V.B.1 of this Attachment shall not apply:

[Maricopa County Rule 315 §302]

- a. To the spray coating of buildings or dwellings, including appurtenances and any other ornamental objects that are not normally removed prior to coating.
- b. To the spray coating of facility equipment or structures which are fixed in a permanent location and cannot easily be moved into an enclosure or spray booth and which are not normally dismantled or moved prior to coating.
- c. To the spray coating of objects which cannot fit inside of an enclosure with internal dimensions of 10'W x 25'L x 8'H.
- d. To enclosures and spray booths and exhausts located entirely in a completely enclosed building, providing that any vents or openings do not allow overspray to be emitted into the outside air.
- e. To any coating operations utilizing only hand-held aerosol cans.

C. Permit Shield

Compliance with the Conditions of Section shall be deemed compliance with Maricopa County Rule 312 §103, §301, §302, §303, §304, §305, §306, §307, §308, §501, §502, §503, §505, 315 §101, §301.1. and §302.

[A.A.C. R18-2-325]

**ATTACHMENT “D”: ADDITIONAL CONDITIONS FOR OPERATIONS INSIDE PIMA COUNTY**

**I. APPLICABILITY**

While operating in Pima County the Permittee shall comply with the Conditions set forth in Attachment “B” and Attachment “D”. Whenever more than one Condition in this Attachment regulating the same emissions applies to any emissions unit, or whenever a Condition in this Attachment and a Condition in Attachment "B" regulating the same emissions applies to any emissions unit, the Condition or combination of Conditions resulting in the lowest emissions rate or lowest concentration of regulated air pollutants released to the atmosphere shall apply, unless otherwise specifically exempted or designated in the applicable permit Conditions.

[Pima County Code 17.16.010.A-B]

**II. FACILITY WIDE REQUIREMENTS**

**A. General Requirements**

1. Fuel Requirements

The Permittee of any portable or stationary equipment, which burns any material, except natural gas, shall keep complete records of the materials used as fuel.

[Pima County Code 17.16.010.C]

2. General Control Standards

a. The Permittee shall not cause or permit the planning, construction, installation, erection, modification, use or operation of an emission source which will cause or contribute to a violation of a performance standard in Title 17 of the Pima County Code.

[Pima County Code 17.16.020.A]

b. Where a stack, vent or other outlet is at such a level that fumes, gas, mist, odor, smoke, vapor or any combination thereof constituting air pollution are discharged to adjoining property, the Director may require the installation of abatement equipment or the alteration of such stack, vent or other outlet by the owner or operator thereof to a degree that will adequately reduce or eliminate the discharge of air pollution to adjoining property.

[Pima County Code 17.16.020.B]

3. Odor Limiting Standard

The Permittee shall not emit gaseous or odorous materials from equipment, operations or premises under their control in such quantities or concentrations as to cause air pollution.

[Pima County Code 17.16.030]

**B. Visible Emission Standards**

1. Standards and Applicability (Includes NESHAP)

a. The Permittee shall not cause or permit the effluent from a single emission point, multiple emission point, or fugitive emissions source to have an average optical density equal to or greater than the opacity limiting standards specified in Table 1 of this Attachment, or as otherwise specified in this permit, subject to the following provisions:

[Pima County Code 17.16.040.A]

(1) Opacities (optical densities), as measured in accordance with Method 9, of an effluent shall be measured by a certified visible emissions evaluator with his natural eyes, approximately following the procedures which were used during their certification, or by an approved and precisely calibrated in-stack monitoring instrument.

[Pima County Code 17.16.040.A.1]

(2) A violation of an opacity standard shall be determined by measuring and recording a set of consecutive, instantaneous opacities, and calculating the arithmetic average of the measurements within the set unless otherwise noted herein. The measurements shall be made at approximately fifteen-second intervals for a period of at least six minutes, and the number of required measurements shall be as specified in Table 1. Sets need not be consecutive in time, and in no case shall two sets overlap. If the average opacity of the set of instantaneous measurements exceeds the maximum allowed by any rule, this shall constitute a violation.

[Pima County Code 17.16.040.A.2]

(3) The use of air or other gaseous diluents solely for the purpose of achieving compliance with an opacity standard is prohibited.

[Pima County Code 17.16.040.A.3]

b. When the presence of uncombined water is the only reason for failure of a source to otherwise meet the requirements of this article, this article shall not apply.

[Pima County Code 17.16.040.B]

**Table 1: Emissions-Discharge Opacity Limiting Standards**

Type of Source	Instantaneous Opacity Measurements			Maximum Allowable Average Opacity, %
	Required No. (For a Set)	Excluded No. (Highest Values)	No. to Use For Averaging	
Cold Diesel Engines <sup>1</sup>	25	0	25	60
Loaded Diesel Engines <sup>2</sup>	26	1	25	60
Other Sources <sup>3</sup>	25	0	25	20

<sup>1</sup> Applicable to the first ten (10) consecutive minutes after starting up a diesel engine.

<sup>2</sup> Applicable to a diesel engine being accelerated under load.

<sup>3</sup> Any source not otherwise specifically covered within this table.

[Pima County Code 17.16.040]

2. Visibility Limiting Standard

- a. The Permittee shall not cause, suffer, allow or permit operations or activities likely to result in excessive amounts of airborne dust without taking reasonable precautions to prevent excessive amounts of particulate matter from becoming airborne.

[Pima County Code 17.16.050.A]

- b. Except for sources located within the boundaries of the Tohono O'Odham, Pasqua-Yaqui, and San Xavier Indian Reservations, opacity of an emission from any non-point source, as measured in accordance with the Arizona Testing manual, Reference Method 9, shall not exceed the following:

- (1) 20 percent for such non-point sources in Eastern Pima County, east of the eastern boundary of the Tohono O'Odham Reservations.
- (2) 40 percent for such non-point sources in all other areas of Pima County.

[Pima County Code 17.16.050.B]

- c. Open fires permitted according to Chapter 17.14 of the Pima County Regulations are exempt from the requirements of this Section.

[Pima County Code 17.16.050.C]

- d. The Permittee shall not cause, suffer, allow, or permit diffusion of visible emissions, including fugitive dust, beyond the property boundary line within which the emissions become airborne, without taking reasonably necessary and feasible precautions to control generation of airborne particulate matter. Sources may be required to cease temporarily the activity or operation which is causing or contributing to the emissions until reasonably necessary and feasible precautions are taken.

[Pima County Code 17.16.050.D]

- (1) Sources required to obtain an air quality permit under ARS § 49-426, § 49-480 or Rule 17.14.040 of the Pima County Regulations may request to have the actions constituting reasonably necessary and feasible precautions approved and included as permit conditions.

[Pima County Code 17.16.050.D.1]

- (2) Condition II.B.2.d of this Attachment shall not apply when wind speeds exceed twenty-five (25) miles per hour (using the Beaufort Scale of Wind-Speed Equivalents, or as recorded by the National Weather Service). This exception does not apply if control measures have not been taken or were not commensurate with the size or scope of the emission source.

[Pima County Code 17.16.050.D.2]

- (3) Condition II.B.2.d of this Attachment shall not apply to the generation of airborne particulate matter from undisturbed land.

[Pima County Code 17.16.050.D.3]

### III. CONCRETE BATCH PLANT REQUIREMENTS

#### Emission Limitations

Fugitive emissions from concrete batch plants shall be controlled in accordance with Section IV of this Attachment.

[Pima County Code 17.16.380]

### IV. FUGITIVE DUST REQUIREMENTS

#### A. Standards of Performance for Concrete Batch Plants

Fugitive emissions from concrete batch plants shall be controlled in accordance with Condition IV.A.1 through Condition IV.A.5.b.

[Pima County Code 17.16.380]

##### 1. Motor Vehicle Operations

The Permittee shall not cause, suffer, allow, or permit a vacant lot, or an urban or suburban open area, to be driven over or used by motor vehicles, trucks, cars, cycles, bikes, or buggies, or by animals such as horses, without taking reasonable precautions to limit excessive amounts of particulates from becoming airborne. Dust shall be kept to a minimum by using an approved dust suppressant, or adhesive soil stabilizer, or by paving, or by barring access to the property, or by other acceptable means.

[Pima County Code 17.16.070.A]

##### 2. Vacant Lots and Open Spaces

a. The Permittee shall not cause, suffer, allow, or permit a building or its appurtenances, or a building or subdivision site, or a driveway, or a parking area, or a vacant lot or sales lot, or an urban or suburban open area to be constructed, used, altered, repaired, demolished, cleared, or leveled, or the earth to be moved or excavated, without taking reasonable precautions to limit excessive amounts of particulate matter from becoming airborne. Dust and other types of air contaminants shall be kept to a minimum by good modern practices such as using an approved dust suppressant or adhesive soil stabilizer, paving, covering, landscaping, continuous wetting, detouring, barring access, or other acceptable means.

[Pima County Code 17.16.080.A]

b. No vacant lot, housing plot, building site, parking area, sales lot, playground, livestock feedlot, or other open area other than those used solely for soil-cultivation or vegetative crop-producing and harvesting agricultural purposes shall be left in such a state after construction, alteration, clearing, leveling, or excavation that naturally induced wind blowing over the area causes visible emissions of airborne dust to diffuse beyond the property lines within which the emissions become airborne. Dust emissions must be permanently suppressed by landscaping, covering with gravel or vegetation, paving, or applying equivalently effective controls.

[Pima County Code 17.16.080.B]

- c. No vacant lot, parking area, sales lot, or other open urban area shall be used by motor vehicles in such a manner that visible dust emissions induced by vehicular traffic on the area causes visible emissions of airborne dust to diffuse beyond the property lines within which the emissions become.

[Pima County Code 17.16.080.C]

3. Roads and Streets

- a. The Permittee shall not cause, suffer, allow or permit the use, repair, construction or reconstruction of a roadway or alley without taking reasonable precautions to prevent excessive amounts of particulate matter from becoming airborne. Dust and other particulates shall be kept to a minimum by employing temporary paving, dust suppressants, wetting down, detouring or by other reasonable means.

[Pima County Code 17.16.090.A]

- b. Dust emissions from the construction phase of a new road must be minimized by applying the same measures specified in Condition IV.A of this Attachment.

[Pima County Code 17.16.090.B]

- c. No new unpaved private driveway shall be constructed unless the road will not be used by more vehicular traffic than that associated with a one or two family private residence, and the road will not be adjacent to any recreational, institutional, educational, or retail sales facility.

[Pima County Code 17.16.090.C]

- d. No new unpaved service road or unpaved haul road shall be constructed unless dust will be suppressed after construction by intermittently watering, limiting access, or applying chemical dust suppressants to the road, in such a way that visible dust emissions caused by vehicular traffic on the road do not violate Condition II.B.2 of this Attachment.

[Pima County Code 17.16.090.D]

- e. No new road other than a private driveway shall be constructed unless the paving specifications are those defined by, or equivalent to those of, the planning department or highway department of the jurisdictional agency.

[Pima County Code 17.16.090.E]

- f. The surfacing of roadways with asbestos tailings is prohibited.

[Pima County Code 17.16.090.F]

- g. No person shall cause, suffer, allow or permit transportation of materials likely to give rise to airborne dust without taking reasonable precautions, such as wetting, applying dust suppressants, or covering the load, to prevent particulate matter from becoming airborne. Earth or other material that is deposited by trucking or earth moving equipment shall be removed from paved streets by the person responsible for such deposits.

[Pima County Code 17.16.090.G]

4. Particulate Materials

- a. The Permittee shall not cause, suffer, allow or permit crushing, screening, handling, transporting or conveying of materials or other operations likely to result in significant amounts of airborne dust without taking reasonable precautions, such as the use of spray bars, wetting agents, dust suppressants, covering the load, and hoods to prevent excessive amounts of particulate matter from becoming airborne.  
[Pima County Code 17.16.100.A]
- b. Dust emissions from construction activity shall be effectively controlled by applying adequate amounts of water or other equivalently effective dust controls.  
[Pima County Code 17.16.100.B]
- c. Dust emissions from the transportation of materials shall be effectively controlled by covering stock loads in open-bodied trucks, limiting vehicular speeds, or other equivalently effective controls.  
[Pima County Code 17.16.100.C]
- d. Emissions from a sandblasting or other abrasive blasting operation shall be effectively controlled by applying water to suppress visible emissions (wet blasting), enclosing the operation, or use of other equivalently effective controls.  
[Pima County Code 17.16.100.D]

5. Storage Piles

- a. The Permittee shall not cause, suffer, allow, or permit organic or inorganic dust producing material to be stacked, piled or otherwise stored without taking reasonable precautions such as chemical stabilization, wetting, or covering to prevent excessive amounts of particulate matter from becoming airborne.  
[Pima County Code 17.16.110.A]
- b. Stacking and reclaiming machinery utilized at storage piles shall be operated at all times with a minimum fall of material and in such manner, or with the use of spray bars and wetting agents, as to minimize and control to ensure compliance Condition II.B.2 of this Attachment.  
[Pima County Code 17.16.110.B]

**B. Fugitive Dust Producing Activities**

1. The Permittee is responsible for controlling windblown dust, dust from haul roads, and dust emitted from land clearing, earthmoving, demolition, trenching, blasting, road construction, mining, racing event, and other activities, as applicable.  
[Pima County Code 17.16.060.A]
- a. Until the area becomes permanently stabilized by paving, landscaping or otherwise, the Permittee shall control dust emissions by applying adequate amounts of water, chemical stabilizer, or other effective dust suppressant.  
[Pima County Code 17.16.060.A.1]
- b. The Permittee shall not leave land in such a state that fugitive dust emissions (including windblown dust or dust caused by vehicular traffic on the area) would violate Condition III.B.2 of this Attachment.

[Pima County Code 17.16.060.A.2]

**C. Monitoring, Recordkeeping, and Reporting Requirements**

1. The Permittee shall periodically collect, record, and maintain sufficient information on the emissions operation or activity to assure that the compliance status of the operation or activity with this title can be readily ascertained at any time. The information shall be retained for at least five years.

[Pima County Code 17.24.020.A]

2. Data which may be needed for compliance determinations on batch-operated processes include chemical composition, quantity, time and duration of each charge of raw material feedstocks, types of product and/or waste product, and each burst or continuous flow of emissions; hours of operation, emissions-control device variables such as differential pressures, temperatures, and/or electrical power supplied or energy consumed; narrative description of abnormal process condition, process upsets, and malfunctions; and prevailing meteorological conditions.

[Pima County Code 17.24.020.C]

**D. Permit Shield**

Compliance with the Conditions of this Section shall be deemed compliance with Pima County Code 17.16.010.C, .020.A, .020.B, .030, .040.A, .040.A.1, .040.A.2, .040.A.3, .040.B, .050.A, .050.B, .050.C, .050.D, .050.D.1, .050.D.2, .050.D, .060.A, .070.A, .080.A, .080.B, .080.C, .090.A, .090.B, .090.C, .090.D, .090.E, .090.F, .090.G, .100.A, .100.B, .100.C, .100.D, .110.A, .110.B, .380, 17.24.020.A and .020.C.

[A.A.C. R18-2-325]



**ATTACHMENT "E": ADDITIONAL CONDITIONS FOR OPERATIONS INSIDE PINAL COUNTY**

**I. APPLICABILITY**

- A.** While operating in Pinal County the Permittee shall comply with the Conditions set forth in Attachment "B" and Attachment "E". Whenever more than one Condition in this Attachment regulating the same emissions applies to any emissions unit, or whenever a Condition in this Attachment and a Condition in Attachment "B" regulating the same emissions applies to any emissions unit, the Condition or combination of Conditions resulting in the lowest emissions rate or lowest concentration of regulated air pollutants released to the atmosphere shall apply, unless otherwise specifically exempted or designated in the applicable permit Conditions.

[A.R.S. §49-402(D)]

- B.** The provisions of this article are applicable to the following affected facilities: primary rock crushers, secondary rock crushers, tertiary rock crushers, screens, conveyors and conveyor transfer points, stackers, reclaimers, and all gravel or crushed stone processing plants and rock storage piles.

[Pinal County Code §5-5-180]

**II. FACILITY WIDE REQUIREMENTS**

**A. Material Containment Requirement**

Materials including, but not limited to solvents or other volatile compounds, paints, acids, alkalis, pesticides, fertilizer and manure shall be processed, stored, used and transported in such a manner and by such means that they will not unreasonably evaporate, leak, escape or be otherwise discharged into the ambient air so as to cause or contribute to air pollution. Where means are available to reduce effectively the contribution to air pollution from evaporation, leakage or discharge, the installation and use of such control methods, devices or equipment shall be mandatory.

[Pinal County Code §5-24-1030.F]

**B. Stack Requirements**

Where a stack, vent or other outlet is at such a level that air contaminants are discharged to adjoining property, the Director may require the installation of abatement equipment or the alteration of such stack, vent or other outlet to a degree that will adequately dilute, reduce or eliminate the discharge of air contaminants to adjoining property.

[Pinal County Code §5-24-1030.G]

**C. Permit Shield**

Compliance with the Conditions of this Section shall be deemed compliance with Pinal Code § 5-24-1030.F and G.

[A.A.C. R18-2-325]

**III. FUGITIVE EMISSIONS REQUIREMENTS**

A. Particulate Matter Emissions

Fugitive emissions from gravel or crushed stone processing plants shall be controlled in accordance with Chapter 4 of this Code.

[Pinal County Code §5-5-190.D]

1. Emission Limitations and Standards

- a. The Permittee shall not cause, suffer, allow, or permit a building or its appurtenances, subdivision site, driveway, parking area, vacant lot or sales lot, or an urban or suburban open area to be constructed, used, altered, repaired, demolished, cleared, or leveled, or the earth to be moved or excavated, or fill dirt to be deposited, without taking reasonable precautions to effectively prevent fugitive dust from becoming airborne.

[Pinal County Code §4-2-040.A]

- b. The Permittee shall not cause, suffer, allow, or permit a vacant lot, or an urban or suburban open area, to be driven over or used by motor vehicles, such as but not limited to all-terrain vehicles, trucks, cars, cycles, bikes, or buggies, without taking reasonable precautions to effectively prevent fugitive dust from becoming air borne.

[Pinal County Code §4-2-040.B]

- c. The Permittee shall not disturb or remove soil or natural cover from any area without taking reasonable precautions to effectively prevent fugitive dust from becoming airborne.

[Pinal County Code §4-2-040.D]

- d. The Permittee shall not crush, screen, handle or convey materials or cause, suffer, allow or permit material to be stacked, piled or otherwise stored without taking reasonable precautions to effectively prevent fugitive dust from becoming airborne.

[Pinal County Code §4-2-040.E]

- e. Stacking and reclaiming machinery utilized at storage piles shall be operated at all times with a minimum fall of material and in such manner, or with the use of spray bars and wetting agents, as to prevent excessive amounts of particulate matter from becoming airborne. Other reasonable precautions shall be taken, as necessary, to effectively prevent fugitive dust from becoming airborne.

[Pinal County Code §4-2-040.F]

- f. The Permittee shall not cause, suffer, allow or permit transportation of materials likely to give rise to fugitive dust without taking reasonable precautions to prevent fugitive dust from becoming airborne. Earth and other material that is tracked out or transported by trucking and earth moving equipment on paved streets shall be removed by the party or person responsible for such deposits. Removal of earth from paved streets shall not violate the visibility standard in Pinal County Code Chapter 2.

[Pinal County Code §4-2-040.G]

III. FUGITIVE EMISSIONS REQUIREMENTS

- g. The Permittee shall not cause, suffer, allow, or permit the use, repair, construction or reconstruction of any road or alley without taking every reasonable precaution to effectively prevent fugitive dust from becoming airborne.

[Pinal County Code §4-2-040.I]

- h. The Permittee shall implement the following control measures for blasting operations at a facility:

- (1) If wind gusts are above 25 miles per hour, discontinue/cease blasting;

- (2) Pre-water and maintain surface soils in a stabilized condition where support equipment and vehicles will operate.

[Pinal County Code §4-7-230.N]

2. Visibility Limiting Standard

- a. Sources subject to §4-2-040. shall also be subject to the visible opacity limitations in Chapter 2, Article 8.

[Pinal County Code §4-2-050]

- b. The opacity of any plume or effluent, from a source described in Pinal County Code 2-8-300.A, as determined by Reference Method 9 in 40 CFR 60, Appendix A, shall not be:

- (1) Greater than 20% in an area that is nonattainment or maintenance for any particulate matter standard, unless an alternative opacity limit is approved by the Director and Administrator as provided in Pinal County Code 2-8-300.C and 2-8-300.D after June 2, 2005; or

[Pinal County Code §2-8-300.B.1]

- (2) Greater than 20% in any area that is attainment or unclassifiable for each particulate matter standard except as provided in Pinal County Code 2-8-300.C and 2-8-300.D.

[Pinal County Code §2-8-300.B.3]

**B. Additional Requirements for West Pinal County PM<sub>10</sub> Nonattainment area**

[Pinal County Code §4-1-030]

1. The Permittee shall not cause or allow visible fugitive dust emissions from open areas/vacant lots (areas not currently utilized for an activity) to exceed 20% opacity based on EPA Method 9 or the continuous plume or intermittent plume methods listed in PCAQCD Code §4-9-340.
2. The Permittee shall erect barriers or no trespassing signs upon evidence of trespass on open areas/vacant lots.
3. The Permittee shall stabilize any open area/vacant lot greater than 1.0 acre that has 0.5 acre or more of disturbed surface and sign up for the Pinal County Dust Control

III. FUGITIVE EMISSIONS REQUIREMENTS

forecast within 30 days of discovery. The open area/vacant lot shall be stabilized the day leading up to and the day that is forecast to be high risk for dust emissions.

4. The Permittee shall not remove vegetation from open areas/vacant lots without applying dust suppressants before and during the weed abatement. Trackout onto paved surfaces must be prevented or eliminated and dust suppressants must be applied following weed abatement to stabilize the entire surface.
5. Stabilization of open areas/vacant lots is determined by the drop ball, threshold friction velocity, flat vegetation or standing vegetation methods listed in PCAQCD Code 4-9-320.
6. The Permittee shall not cause or allow visible fugitive dust emissions from unpaved lots (areas being utilized for an activity) greater than 5000 square feet to exceed 20% opacity based on EPA Method 9 or the continuous plume or intermittent plume methods listed in PCAQCD Code §4-9-340.
7. The Permittee shall not allow silt loading equal to or greater than 0.33 oz/ft<sup>2</sup> or allow the silt content to exceed 8% on unpaved lots greater than 5000 square feet.
8. The Permittee shall stabilize unpaved lots greater than 5000 square feet by paving, applying a dust suppressant or graveling.
9. The Permittee shall clean up trackout on a paved public roadway that exceeds 50 feet within 24 hours of discovery and limit opacity to 20% or less while using a rotary brush or broom.

**C. Monitoring and Recordkeeping Requirements**

[Pinal County Code §4-2-050 and §4-7-222]

1. Opacity observations shall not be made or additional preventive measures required when the wind speed instantaneously exceeds 25 mph or when the average wind speed is greater than 15 mph.
2. The average wind speed determination shall be on a 60-minute average from the nearest Air Quality Control District monitoring station or by a wind instrument located at the site being checked.
3. Opacity observations for visible emissions of fugitive dust shall be conducted in accordance with techniques specified in Reference Method 9 in the Arizona Testing Manual for Air Pollutant Emissions.

**D. Permit Shield**

Compliance with the Conditions of this Section shall be deemed compliance with Pinal County Code §2-8-300.B.1, -300.B.3, §4-2-040.A, -040.B, -040.D, -040.E, -040.F, -040.G, -040.I, -050, -222, and §5-5-190.D.

[A.A.C. R18-2-325]



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**ATTACHMENT "F": EQUIPMENT LIST**

EQUIPMENT TYPE	MAXIMUM CAPACITY	MAKE	MODEL	SERIAL NUMBER	DATE OF MANUFACTURE	EQUIPMENT ID NUMBER	A.A.C. / NSPS / NESHAP
<b>Concrete Batch Plant Equipment</b>							
Hopper	300 cubic yards/hour	Erie Strayer	MC-1027	N/A	1998	1 / CP-427	A.A.C. R18-2-702; A.A.C. R18-2-723
Stacking Conveyer	300 cubic yards/hour	Erie Strayer	MC-1027	N/A	1998	2 / CP-427	A.A.C. R18-2-702; A.A.C. R18-2-723
Hopper Loading	300 cubic yards/hour	Erie Strayer	MC-1027	N/A	1998	3 / CP-427	A.A.C. R18-2-702; A.A.C. R18-2-723
Feeder Belt Conveyer	300 cubic yards/hour	Erie Strayer	MC-1027	N/A	1998	4 / CP-427	A.A.C. R18-2-702; A.A.C. R18-2-723
Aggregate Storage Bin	300 cubic yards/hour	Erie Strayer	MC-1027	N/A	1998	5 / CP-427	A.A.C. R18-2-702; A.A.C. R18-2-723
Aggregate Weigh Batcher	300 cubic yards/hour	Erie Strayer	MC-1027	N/A	1998	6 / CP-427	A.A.C. R18-2-702; A.A.C. R18-2-723
Conveyor Belt	300 cubic yards/hour	Erie Strayer	MC-1027	N/A	1998	7 / CP-427	A.A.C. R18-2-702; A.A.C. R18-2-723
Cement/Fly Ash Silo	300 cubic yards/hour	Erie Strayer	MC-1027	N/A	1998	8 / CP-427	A.A.C. R18-2-702; A.A.C. R18-2-723
Cement/Fly Ash Weigh Hopper	300 cubic yards/hour	Erie Strayer	MC-1027	N/A	1998	9 / CP-427	A.A.C. R18-2-702; A.A.C. R18-2-723
Drum Mixer	300 cubic yards/hour	Erie Strayer	MC-1027	N/A	1998	10 / CP-427	A.A.C. R18-2-702; A.A.C. R18-2-723
Baghouse	4,000 CFM	Saunco	RF-2000	N/A	N/A	11	A.A.C. R18-2-702; A.A.C. R18-2-723
<b>CI ICEs</b>							
Engine C27 (Primary)	976 HP	Caterpillar	C27	MJE00109	10/3/2006	12a / CP-4068	NSPS 40 CFR Part 60 Subpart III



ATTACHMENT "F": EQUIPMENT LIST

<b>EQUIPMENT TYPE</b>	<b>MAXIMUM CAPACITY</b>	<b>MAKE</b>	<b>MODEL</b>	<b>SERIAL NUMBER</b>	<b>DATE OF MANUFACTURE</b>	<b>EQUIPMENT ID NUMBER</b>	<b>A.A.C. / NSPS / NESHAP</b>
Engine C28 (Secondary)	831 HP	Caterpillar	C18	EST00490	2007	12b / CP-4067	NSPS 40 CFR Part 60 Subpart IIII

\*N/A – Not Available.

