



# Maricopa County

Air Quality Department

AIR QUALITY DEPARTMENT  
1001 North Central Avenue  
Phoenix, AZ 85004

CalPortland Company  
ATTN: Scott Hughes, Env. Manager AZ/NV Region  
2400 N. Central Ave, Suite 400  
Phoenix, AZ 85004

This Permit is issued in accordance with Maricopa County Air Quality Department (MCAQD) Regulations, Rule 200, §303, and Arizona Revised Statutes, §49-404c and §49-480. The Permit is issued to provide regulators, site operators or owners, and members of the public, a clear picture of what the Permit holder is required to do to meet regulatory standards. As the Permit holder, you are expected to review this Permit, become familiar with its provisions and conditions and to operate in conformance with them. The Permit (and the underlying regulations upon which it is based) is an enforceable document. Failure to conform to the emission limits and any other condition contained in the Permit is a violation of law and will form the basis of enforcement action by the department which may include civil or criminal sanctions.

If the MCAQD Control Officer determines that additional monitoring, sampling, modeling and/or control of emissions from the facility may reasonably be needed to provide for the continued protection of public health, safety and/or welfare, the MCAQD Control Officer will amend the provisions of this Permit. This Permit may be subject to suspension or revocation for cause including nonpayment of fees, noncompliance with Arizona State Statutes, Maricopa County Air Quality Regulations, or the attached Permit Conditions, or if the MCAQD Control Officer determines that significant misrepresentation exists in the application and supporting documentation filed to obtain or modify this Permit.

If you need assistance with the permit, please contact the Business Assistance Coordinator at 602.506.5102 or contact the undersigned at 602.506.7248. Email communications may be sent to [AQPermits@mail.maricopa.gov](mailto:AQPermits@mail.maricopa.gov).

MARICOPA COUNTY AIR QUALITY DEPARTMENT

Engineering and Permitting Division

1001 N. Central Avenue, Suite 400, Phoenix, Arizona 85004

Phone: (602) 506-6010

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**AIR QUALITY PERMIT TO OPERATE AND/OR CONSTRUCT**

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

**ISSUED TO**

**CalPortland Company  
31805 West Southern Avenue  
Buckeye, AZ 85326**

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

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

**PERMIT NUMBER:** 160015

**REVISION DATE:** xx/xx/xxxx

**REVISION NUMBER:** 0.0.0.0

**EXPIRATION DATE:** xx/xx/xxxx

**Todd Martin, Non-Title V Permit Supervisor**

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

## **SPECIFIC CONDITIONS**

### **CONCRETE PLANTS, BAGGING OPERATIONS, AND/OR RAW MATERIAL STORAGE AND DISTRIBUTION**

#### **1. Allowable Production Rate:**

The Permittee shall not produce more than 336,000 cubic yards of concrete per 12 consecutive-month period.

[Rule 220 §302.2] [Locally Enforceable Only]

#### **2. Process Emission Limitations:**

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

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

[SIP Rule 316 §303.1]

#### **3. Controls:**

The Permittee shall implement the following process controls:

- a. On all cement, lime, and/or fly-ash storage silo(s), install an operational overflow warning system/device. The system/device shall be designed to alert operator(s) to stop the loading operation when the cement, lime, and/or fly-ash storage silo(s) are reaching a capacity that could adversely impact pollution abatement equipment.
- b. Install a properly sized fabric filter baghouse or equivalent device designed to meet a maximum outlet grain loading of 0.01 gr/dscf on all cement, lime, and/or fly-ash storage silos.
- c. The Permittee shall not perform dry mixing of aggregates and cement.
- d. On cement silo filling processing/loading operations controls, install a pressure control system designed to shut-off cement silo filling processes/loading operations, if pressure from delivery truck is excessive, as defined in the O&M Plan.

[SIP Rule 316 §303.2]

### **GENERAL CONDITIONS FOR THE CONTROL OF FUGITIVE DUST**

#### **4. Collocation**

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

[Rule 100 §200.26, Rule 200 §303.3.c]

#### **5. Other Associated Operations:**

All other affected operations or process sources not specifically addressed in the Permit Conditions that are associated with the processing of nonmetallic minerals, all other fugitive dust emission limitations not specifically listed in Rule 316, Section 306, "Fugitive Dust Emission Limitations," all other fugitive dust control measures not specifically listed in Rule 316, Section 307, "Fugitive Dust Control Measures," and all

overburden operations shall, at a minimum, meet the provisions of Rule 310, "Fugitive Dust from Dust-Generating Operations."

[SIP Rule 316 §304]

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

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

a. Operation and Maintenance (O&M) Plan Requirements for ECS:

- i. The Permittee shall comply with the approved O&M Plan dated 02/08/2016 for the baghouses. The Permittee shall revise the O&M Plan upon the request of the Department and whenever substantive changes are made to the equipment or plan, in accordance with the Department guidelines.
- ii. Each Operation and Maintenance (O&M) Plan shall specify key system operating parameters, such as temperatures, pressures and/or flow rates, necessary to determine compliance and describe in detail procedures to maintain the approved emission control system. The Permittee shall monitor, operate and maintain the equipment in accordance with the device's approved O&M Plan. At a minimum the plan shall include:
  - 1) Baghouse: Pressures, rates of flow, or other operating conditions necessary to determine if the control devices are functioning properly.
- iii. Changes to an existing O&M Plan shall be made by submitting a complete, revised O&M Plan along with a cover letter identifying all changes and the reason for such changes. The Permittee may implement the changes addressed in the revised O&M Plan after the revision is submitted to the Department. Unless disapproved in writing by the Department, the Permittee shall continue to operate in accordance with the revised O&M Plan.
- iv. If any control device is found to be operating outside a specified range, the Permittee shall immediately take corrective action to bring the device back into the specified operating range or shut down the device and the associated equipment vented to it.
- v. If a pattern of excursions, as determined by the Department or the Permittee, of operation outside the specified operating range develops, the Permittee shall submit for Department approval a Corrective Action Plan to bring the devices back into the specified operating range. The Plan shall be submitted to the Department, Attn: Compliance Manager, within 30 days of the determination of the existence of excursions.

b. Operation and Maintenance (O&M) Plan Requirements for Dust Control Measures:

- i. The Permittee shall provide and maintain, readily available on-site at all times, (an) O&M Plan(s) for equipment associated with any process fugitive emissions and fugitive dust control measures (i.e., gravel pads, wheel washers, truck washers, rumble grates, watering systems, and street

sweepers) that are implemented to comply with Rule 316 or this Permit.

- ii. The Permittee shall submit to the Control Officer for approval the O&M Plan(s) for each Dust Control Measure.
  - iii. The Permittee shall comply with all the identified actions and schedules provided in each O&M Plan.
- c. Providing and Maintaining ECS Monitoring Devices:  
The Permittee when operating an ECS shall install, maintain, and calibrate monitoring devices described in the O&M Plan(s). The monitoring devices shall measure pressures, rates of flow, and/or other operating conditions necessary to determine if the control devices are functioning properly.
- d. O&M Plan Responsibility:  
The Permittee must fully comply with all O&M Plans that the Permittee has submitted for approval, even if such O&M Plans have not yet been approved, unless notified in writing by the Control Officer.  
[SIP Rule 316 §305]

## 7. Fugitive Dust Emission Limitations:

- a. 20% Opacity Limitation:  
For emissions that are not already regulated by an opacity limit, the Permittee shall not discharge or cause or allow to be discharged into the ambient air fugitive dust emissions exceeding 20% opacity, in accordance with the test methods described in Section 503 of Rule 316 and in Appendix C-Fugitive Dust Test Methods of Maricopa County Rules.
- b. Visible Emission Limitation beyond Property Line:  
The Permittee shall not cause or allow fugitive dust emissions from any active operation, open storage pile, or disturbed surface area associated with such facility such that the presence of such fugitive dust emissions remain visible in the atmosphere beyond the property line of such facility.
- c. Wind Event:  
Fugitive dust emission limitations shall not apply during a wind event, if the Permittee meets the following conditions:
  - i. Has implemented the Fugitive Dust Control Measures described in this Permit, as applicable;
  - ii. Has compiled and retained Dust Control Plan Records required by this Permit, and has documented, by records, the occurrence of a wind event on the day(s) in question. The occurrence of a wind event must be determined by the nearest Maricopa County Air Quality Department monitoring station, from any other certified meteorological station, or by a wind instrument that is calibrated according to manufacturer's standards and that is located at the site being checked; and
  - iii. Has implemented the following high wind fugitive dust control measures, as applicable:
    - 1) For an active operation, implement one of the following fugitive dust control measures, in accordance with the test methods described in Rule 316, Section 503 and Section 504, Maricopa County Rules and Regulations Appendix C-Fugitive Dust Test Methods:
      - a) Cease active operation that may contribute to an exceedance of the 20% opacity limitation, for the duration of the wind event and, if active operation is ceased for the remainder of the work day, stabilize the area; or
      - b) Before and during active operations, apply water or other suitable dust suppressant to keep the soil visibly moist.
    - 2) For an inactive open storage pile, implement one of the following fugitive dust control measures, in accordance with the test methods described in Rule 316, Section 503 and Section 504, Maricopa County Rules and Regulations Appendix C-Fugitive Dust Test Methods:
      - a) Maintain a soil crust by applying water or other suitable dust suppressant or by

- implementing another fugitive dust control measure, in sufficient quantities to meet the Stabilization Standards described in Subsection [e] of this Permit Condition.
- b) Cover open storage piles with tarps, plastic, or other material such that wind will not remove the covering, if the open storage pile is less than eight feet high.
  - 3) For an inactive disturbed surface area, implement one of the following fugitive dust control measures, in accordance with the test methods described in Rule 316, Section 503 and Section 504, Maricopa County Rules and Regulations Appendix C-Fugitive Dust Test Methods:
    - a) Uniformly apply and maintain surface gravel or a dust suppressant other than water; or
    - b) Maintain a soil crust by applying water or other suitable dust suppressant or by implementing another fugitive dust control measure, in sufficient quantities to meet the stabilization standards described in Rule 316, Section 505.
- d. Silt Loading and Silt Content Standards for Unpaved Roads and Unpaved Parking and Staging Areas:
- i. From unpaved roads and unpaved parking and staging areas, the Permittee shall not discharge or allow to be discharged into the ambient air fugitive dust emissions exceeding 20% opacity, in accordance with the test methods described in Rule 316, Section 502, and in Maricopa County Rules and Regulations Appendix C-Fugitive Dust Test Methods, and one of the following:
    - 1) For unpaved roads, silt loading equal to or greater than 0.33 oz/ft<sup>2</sup> or silt content exceeding 6%.
    - 2) For unpaved parking and staging areas, silt loading equal to or greater than 0.33 oz/ft<sup>2</sup> or silt content exceeding 8%.
- e. Stabilization Standards:
- i. If the Permittee has an open area or a disturbed surface area on which no activity is occurring (including areas that are temporarily or permanently inactive), the Permittee shall be considered in violation if the area is not maintained in a manner that meets at least one of the standards listed below, as applicable;
    - 1) Maintain a soil crust;
    - 2) Maintain a threshold friction velocity (TFV) for disturbed surface areas corrected for non-erodible elements of 100 cm/second or higher;
    - 3) Maintain a flat vegetative cover (i.e., attached (rooted) vegetation or unattached vegetative debris lying on the surface with a predominant horizontal orientation that is not subject to movement by wind) that is equal to at least 50%;
    - 4) Maintain a standing vegetative cover (i.e., vegetation that is attached (rooted) with a predominant vertical orientation) that is equal to or greater than 30%;
    - 5) Maintain a standing vegetative cover (i.e., vegetation that is attached (rooted) with a predominant vertical orientation) that is equal to or greater than 10% and where the threshold friction velocity is equal to or greater than 43 cm/second when corrected for non-erodible elements;
    - 6) Maintain a percent cover that is equal to or greater than 10% for non-erodible elements; or
    - 7) Comply with a standard of an alternative test method, upon obtaining the written approval from the Control Officer and the Administrator.
  - ii. If no activity is occurring on an open storage pile and material handling or surface soils where support equipment and vehicles operate in association with such facility and if an open storage pile and material handling or surface soils where support equipment and vehicles operate in association with such facility contain more than one type of visibly distinguishable stabilization

characteristics, soil, vegetation, or other characteristics, which are visibly distinguishable, the Permittee shall test each representative surface separately for stability, in an area that represents a random portion of the overall disturbed conditions of the site, in accordance with the appropriate test methods described in Rule 316, Section 505, and in Maricopa County Rules and Regulations Appendix C-Fugitive Dust Test Methods.

[SIP Rule 316 §306]

**8. Fugitive Dust Control Measures:**

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

[SIP Rule 316 §307]

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

Compliance determinations for activities regulated by Rule 316, Section 301 [excluding Section 301.1(e)], Section 302, and/or Section 303, shall be made according to the test methods for those subparts of 40 CFR Part 60, Appendix A, adopted as of July 1, 2007, as listed below. Such subparts of 40 CFR Part 60, Appendix A, adopted as of July 1, 2007 and 40 CFR Part 51, Appendix M, adopted as of July 1, 2007, are adopted by reference as indicated. This adoption by reference includes no future editions or amendments. Copies of test methods referenced in Rule 316, Section 502, are available at Maricopa County Air Quality Department, 1001 North Central Avenue, Phoenix, Arizona, 85004-1942. When more than one test method is permitted for a compliance determination, then an exceedance of the limits, determined by any of the applicable test methods, constitutes a violation.

a. Opacity Observations:

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

[SIP Rule 316 §502.2]

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

[SIP Rule 316 §503]

- iii. Moisture testing is not required on a crusher and/or screen plant equipped with a baghouse or fabric filter, electrostatic precipitator, or wet scrubber, excluding wet spray bars, for control of particulate matter.

[SIP Rule 316 §§ 301.2, 502.3]

**10. Facility Information Sign:**

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

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

[SIP Rule 316 §308]

**11. Fugitive Dust Control Technician:**

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

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

[SIP Rule 316 §309]

#### 12. Basic Dust Control Training Class:

- a. At least once every three years, the site superintendent or other designated on-site representative of the Permittee, if present at a site that has more than one acre of disturbed surface area that is subject to a permit issued by the Control Officer requiring control of PM<sub>10</sub> emissions from dust generating operation, shall successfully complete a Basic Dust Control Training Class conducted or approved by the Control Officer.
- b. At least once every three years, water truck and water-pull drivers shall successfully complete a Basic Dust Control Training Class conducted or approved by the Control Officer.

[SIP Rule 316 §310]

#### 13. Dust Control Plan:

- a. The Dust Control Plan shall describe all fugitive dust control measures to be implemented pursuant to the Conditions of this Permit.
- b. The Dust Control Plan shall, in addition, contain all the information described in Rule 310-Fugitive Dust From Dust Generating Operations.
- c. All other criteria associated with the Dust Control Plan shall meet the criteria described in Rule 310-Fugitive Dust From Dust Generating Operations.
- d. The Control Officer shall approve, disapprove, or conditionally approve the Dust Control Plan, in accordance with the criteria used to approve, disapprove or conditionally approve a permit. Failure to comply with the provisions of an approved Dust Control Plan shall be deemed a violation.
- e. With each move notice regarding portable sources, the Permittee shall submit, to the Control Officer, a Dust Control Plan that meets the previously listed requirements.

[SIP Rule 316 §311]

#### 14. General Requirements:

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

- a. Process emission limitations and controls;

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

[SIP Rule 316 §312]

#### 15. Monitoring, Recordkeeping and Reporting:

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

- a. Operational information required by this Permit shall be kept in a complete and consistent manner on-site and be made available without delay to the Control Officer upon request.
- b. Records of the following process and operational information, as applicable, are required:
  - i. Concrete Batch Plant: Daily records shall be kept for all days that the Permittee is actively operating. Records shall include all of the following, when applicable:
    - 1) Hours of operation;
    - 2) Type of batch operation (wet, dry, central);
    - 3) Throughput per day of basic raw materials including sand, aggregate, cement (tons/day);
    - 4) Volume of concrete produced per day (cubic yards/day);
    - 5) Amount of each basic raw material including sand, aggregate, cement, fly ash delivered per day (tons/day);
    - 6) Records of the 12-month rolling total emissions.
  - ii. Control and Monitoring Device Data – Records shall include all of the following:
    - 1) For a fabric filter baghouse:
      - a) Date of inspection;
      - b) Date and designation of bag replacement;
      - c) Date of service or maintenance related activities; and
      - d) Time, date, and cause of fabric filter baghouse failure and/or down time, if applicable.
- c. O&M Plan Records:

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

  - i. For any ECS ([any of the three baghouses or the dust collector](#)), any other emission processing equipment, and any ECS monitoring devices that are used pursuant to this Permit or Rule 316:
    - 1) Periods of time that an approved ECS is operating;
    - 2) Periods of time that an approved ECS is not operating;
    - 3) Flow rates;
    - 4) Pressure drops;

- 5) Other conditions necessary to determine if the approved ECS is functioning properly;
  - 6) Results of visual inspections; and
  - 7) Corrective action taken, if necessary.
- ii. For equipment associated with any process fugitive emissions and any fugitive dust control measures that are implemented to comply with this Permit or Rule 316:
    - 1) A written record of self-inspection on each day that the Permittee is actively operating process equipment. Self-inspection records shall include daily inspections or compliance with O&M Plan requirements, whichever is more frequent;
    - 2) Maintenance of street sweepers; and
    - 3) Maintenance of trackout control devices, gravel pads, wheel washers, and truck washers.
- d. Dust Control Plan Records:

The Permittee shall compile, maintain, and retain a written record of self-inspection of all fugitive dust control measures implemented, in order to comply with the Dust Control Plan, on each day that the Permittee is actively operating process equipment. Self-inspection records shall include information as described in Rule 310-Fugitive Dust from Dust Generating Operations.
  - e. Basic Dust Control Training Class Records:

The Permittee shall compile, maintain, and retain a written record for each employee subject to the Basic Dust Control Training Class requirements of this Permit. Such written records shall include the name of the employee, the date of the Basic Dust Control Training Class that such employee successfully completed, and the name of the agency/representative who conducted such class.

[SIP Rule 316 §501]

## FUEL BURNING EQUIPMENT

### 16. Operational Limitations:

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

[Rule 220 §302.2][ Locally Enforceable Only]

## PORTABLE SOURCES

### 17. Move Notice Requirements:

The Permittee may transport the portable source from one location to another within or across Maricopa County boundaries provided the Department is notified either by certified mail or email at least ten working days before the portable source is transported to the new location. The notification shall include the following:

- a. A description of the portable source to be transported including the Maricopa County permit number for such portable source;
- b. A description of the present location;
- c. A description of the location to which the portable source is to be transported, including the availability of all utilities, such as water and electricity, necessary for the proper operation of all control equipment;
- d. The date on which the portable source is to be moved;
- e. The date on which operation of the portable source will begin at the new location;
- f. The duration of operation at the new location; and
- g. An updated Dust Control Plan, if a plan is required under Rule 310 or Rule 316.
- h. Notices shall be submitted to:
  - i. By Mail: Maricopa County Air Quality Department, Attn: Permitting Manager, 1001 N. Central Ave., Suite 125, Phoenix, Arizona 85004-1944

- ii. By E-mail: AQPermits@mail.maricopa.gov  
[Rule 200 §410.4][Rule 310 §§ 402.1, 403; Rule 316 §311.6]

**40 CFR 63 Subpart ZZZZ—National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating CI Non-Emergency Engines**

Engine:

CATERPILLAR KVA 456, MANUFACTURED JANUARY 2006; diesel – 563 BHP, CI Engine

**18. Allowable Emissions:**

The Permittee shall not allow emissions from CI engine(s) into the atmosphere to exceed any of the following limits:

Pollutants	Twelve Month Rolling Total Emission Limits (tpy)
Carbon Monoxide (CO)	3.8
Nitrogen Oxide (NO <sub>x</sub> )	17.5
Sulfur Oxides (SO <sub>x</sub> )	1.2
Particulate Matter (PM)	1.3
Particulate Matter <10 Micron Diameter (PM <sub>10</sub> )	1.3
Particulate Matter <2.5 Micron Diameter (PM <sub>2.5</sub> )	1.3
Volatile Organic Compounds (VOC)	1.4

- a. The 12-month rolling total emissions shall be calculated monthly by the end of the following month by summing the emissions over the most recent 12 calendar months. The Permittee shall keep this emission record on-site for inspection or submittal upon request.

[Rule 220 §302.2]

**19. General Compliance Requirements:**

- a. The Permittee shall be in compliance with the emission limitations, operating limitations, and other requirements in this Permit at all times.
- b. The Permittee shall operate and maintain all reciprocating compression-ignition (CI) engines and associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Department which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source.

[40 CFR §63.6605]

**20. Emission Limitations:**

- a. Stationary non-emergency Compression Ignition Reciprocating Internal Combustion Engine (CI RICE) greater than 500 HP shall comply with the following emission limitations, except during periods of startup:
  - i. Limit concentration of CO in the stationary RICE exhaust to 23 ppmvd at 15 percent O<sub>2</sub>

[40 CFR §63.6603(a); Table 2d]

**21. Performance Tests and Testing Methods:**

- a. The Permittee shall conduct an initial performance test or other initial compliance demonstration no later than 180 days after the startup. The performance test shall demonstrate compliance with the Emission Limitations specified in Permit Condition 20.

[40 CFR §63.6620; Table 4(1)]

- i. Sampling sites and velocity traverse points shall be selected in accordance with EPA Test Method 1 or 1A. If using a control device, the sampling site must be located at the outlet of the control device.
- ii. O<sub>2</sub> shall be measured using Method 3 or 3A or 3B of 40 CFR Part 60, appendix A, or ASTM Method D6522–00 (2005). Measurements to determine O<sub>2</sub> must be made at the same time as the [measurements for CO concentration](#).
- iii. Moisture content of the stationary RICE exhaust shall be measured at the sampling port location using Method 4 of 40 CFR part 60, appendix A, or Test Method 320 of 40 CFR part 63, appendix A, or ASTM D 6348-03. Measurements to determine the moisture content must be made at the same time as the measurements for formaldehyde or CO concentration.
- iv. CO shall be measured using Method 10 of 40 CFR part 60, appendix A, ASTM Method D6522–00 (2005), Method 320 of 40 CFR Part 63, appendix A, or ASTM D6348–03. The CO concentration must be at 15 percent O<sub>2</sub>, dry basis.

[40 CFR 63 §ZZZZ, Table 4]

- b. The Permittee is not required to startup a non-operational engine solely to conduct the performance test. The performance test can be delayed until the engine is started up again.

[40 CFR §63.6620(b)]

- c. The Permittee is not required to conduct an initial performance test on a unit for which a performance test has already been conducted, provided all of the following criteria are met:

- i. The test must have been conducted using the same methods specified in this subpart. These methods must have been followed correctly.
- ii. The test must not be older than 2 years.
- iii. The test must be reviewed and accepted by the Administrator.
- iv. No process or equipment changes have been made since the test was performed.

[40 CFR §63.6612]

- d. Subsequent Performance Testing Requirement:

- i. The Permittee shall perform subsequent performance tests every 8,760 hrs or 3 years, whichever comes first.

[40 CFR §63.6615; Table 3(4)] [40 CFR §63.6640(a); Table 6(11)]

#### General Testing Requirements

- e. Each performance test must be conducted according to the requirements specified in 40 CFR §63.6620.
- f. Operating Conditions: Performance tests shall be conducted under representative operating conditions and all equipment shall be operated during testing in accordance with the most recently approved O&M Plan or according to its operations manual if no O&M Plan is required. The Permittee shall make available to the Control Officer any records necessary to determine appropriate conditions for performance tests. Operations during periods of startup, shutdown, and equipment malfunction shall not constitute representative conditions for performance tests unless otherwise specified in the applicable standard or permit conditions.

[County Rule 270 §403]

- g. Monitoring Requirements: The Permittee shall record all process and control equipment information that are necessary to document operating conditions during the test and explain why the conditions represent normal operation. Operational parameters shall be monitored and recorded at least once every 30 minutes during each of the required test runs and documented in the test report. The operational parameters monitored shall be capable of indicating that the equipment is operating within the permitted limits, both during and after the performance tests.

[County Rule 270 §301.1][SIP Rule 27 §B]

- h. Test Protocol Submittal: The Permittee shall submit a separate test protocol for each performance test to the Department for review and approval at least 30 days prior to each performance test unless otherwise specified in the applicable standard or in this permit. The test protocol shall be prepared in accordance with the most recent version of the Department's "Air Quality Performance Test Guidelines for Compliance Determination in Maricopa County." A completed copy of the Department's "Test Protocol Submittal Form" shall accompany each test protocol.

[County Rule 270 §301.1][SIP Rule 27 §B]

- i. Notice of Testing: The Permittee shall notify the Department in writing at least 60 days in advance of the actual date and time of each performance test so that the Department may have a representative attend.

[County Rule 270 §404] [40 CFR 63 §6645(g)]

- j. Testing Facilities Required: The Permittee shall install any and all sample ports or platforms necessary to conduct the performance tests, provide safe access to any platforms, and provide the necessary utilities for testing equipment.

[County Rule 270 §405][SIP Rule 42]

- k. Minimum Testing Requirements: Each performance test shall consist of three separate test runs with each test run being at least one hour in duration unless otherwise specified in the applicable standard or in this permit. The same test methods shall be used simultaneously for both the inlet and outlet measurements, if applicable, or justification for any necessary exceptions shall be provided in the test protocol. Emissions rates, concentrations, grain loadings, and/or efficiencies shall be determined as the arithmetic average of the values determined for each individual test run. Performance tests may only be stopped for good cause, which 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 a performance test without good cause after the first test run has commenced shall constitute a failure of the performance test.

[County Rule 270 §406]

- l. Test Report Submittal: The Permittee shall complete and submit a separate test report for each performance test to the Department within 30 days after the completion of testing unless otherwise specified in the applicable standard or in this permit. The test report shall be prepared in accordance with the most recent version of the Department's "Air Quality Performance Test Guidelines for Compliance Determination in Maricopa County." A completed copy of the Department's "Test Report Submittal Form" shall accompany each test report.

[County Rule 270 §301.1][SIP Rule 27 §B]

- m. Compliance with Emission Limits: Compliance with allowable emission limits and standards shall be determined by the performance tests specified in this permit. If test results do not demonstrate compliance with the requirements of these permit conditions, the Permittee shall make the necessary repairs and/or adjustments to the equipment and demonstrate compliance through retesting. This will not nullify the fact that test results did not demonstrate compliance with the requirements of the permit conditions or nullify any violations that may result from this noncompliance. In addition to compliance demonstrations, test results shall be used for annual emissions inventory purposes if the Permittee is required to complete an emissions inventory survey.

[County Rule 270 §407]

- n. Correspondence: All test extension requests, test protocols, test date notifications, and test reports required by this permit shall be submitted to the Department and addressed to the attention of the Performance Test Evaluation Supervisor.

[County Rule 270 §301.1][SIP Rule 27 §B]

- o. Authority: The above testing requirements represent the minimum level of testing to monitor for compliance with the emission limits in this permit. Nothing in this section shall prevent the Control Officer from requiring additional performance testing as deemed necessary to ensure permit compliance

and protection of the public health and welfare.

[County Rule 200 §309][County Rule 270 §402.5]

## 22. Operating Requirements:

The Permittee shall meet the following operating requirements:

- a. The Permittee shall install a non-resettable hour meter prior to startup of the engine. The Permittee shall not operate the engine unless the cumulative run time meter is installed and working properly.  
[Rule 324 §104.5]
- b. The Permittee shall limit the operation of the generator to no more than 2000 hours per any twelve consecutive month time period.  
[Rule 241 §302]
- c. During periods of startup the Permittee shall minimize the engine's time spent at idle during startup and minimize the engine's startup time at startup to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the non-startup emission limitations apply.  
[40 CFR §63.6625(h)]
- d. The Permittee shall comply with one of the following for the non-emergency CI engine greater than 300 HP if that engine is not already equipped with a closed crankcase ventilation system:
  - i. Install a closed crankcase ventilation system that prevents crankcase emissions from being emitted to the atmosphere; or
  - ii. Install an open crankcase filtration emission control system that reduces emissions from the crankcase by filtering the exhaust stream to remove oil mist, particulates, and metals. The Permittee shall follow the manufacturer's specified maintenance requirements for operating and maintaining the open or closed crankcase ventilation systems and replacing the crankcase filters, or can request the Administrator to approve different maintenance requirements that are as protective as manufacturer requirements.  
[40 CFR §63.6625(g); Table 6(9)]

### Oxidation Catalyst

- e. Maintain catalyst so that the pressure drop across the catalyst does not change by more than 2 inches of water at 100 percent load plus or minus 10 percent from the pressure drop across the catalyst that was measured during the initial performance test. The Permittee shall measure the pressure drop across the catalyst monthly; and,
- f. Maintain the temperature of your stationary RICE exhaust so that the catalyst inlet temperature is greater than or equal to 450°F and less than or equal to 1350°F. The Permittee shall continuously monitor and record the catalyst inlet temperature. (Sources can petition the Administrator pursuant to the requirements of 40 CFR 63.8(g) for a different temperature range.)

[40 CFR §63.6603(a); Table 2b(1)]

## 23. Good Combustion Practices/Tuning Procedure:

The Permittee shall conduct preventative maintenance or tuning procedures recommended by the engine manufacturer to ensure good combustion practices to minimize NOx emissions. The tuning procedure shall include all of the following, if so equipped, and appropriate to the engine type:

- a. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary;
- b. Lubricating Oil and Filter: change once every three months or after no more than 300 hours of operation, whichever occurs last;
- c. Inlet Air Filter: clean once every three months or after no more than 300 hours of operation and replace every 1,000 hours of operation or every year, whichever occurs last;
- d. Fuel Filter: clean once every year or replace (if cartridge type) once every 1,000 hours of operation,

whichever occurs last;

- e. Check and adjust the following once every year or after no more than 1,000 hours of operation, whichever occurs last:
  - i. Intake and exhaust valves
  - ii. Spark plugs (if so equipped)
  - iii. Spark timing and dwell or fuel injection timing (if adjustable), and
  - iv. Carburetor mixture (if adjustable).
- f. Spark Plugs and Ignition Points: replace after 3,000 hours of operation or every year whichever occurs last;
- g. Coolant: change after 3,000 hours of operation or every year whichever occurs last; and
- h. Exhaust System: check for leaks and/or restrictions after 3,000 hours of operation or every year whichever occurs last.

[Rule 324 §302] [40 CFR §63.6603(a); Table 2d]

#### 24. Additional Limitations For Prime Engines > 250 Rated bhp:

- a. The Permittee shall comply with the following emission limits for the compression-ignition prime engine greater than 250 bhp that has commenced operation on or after October 22, 2003:
  - i. NOx: 530 ppm<sub>dv</sub> or 6.9 g/bhp-hr
  - ii. PM: 0.4 g/bhp-hr

[Rule 324 §304]

- b. Efficiency Allowance:  
Each emission limit expressed in this Permit Condition may be multiplied by X, where X equals the engine efficiency (E) divided by a reference efficiency of 30 percent. Engine efficiency shall be determined by one of the following methods whichever is higher:

- i.  $E = (\text{Engine Output}) \times (100) \div (\text{Energy Input})$   
Where energy input is determined by a fuel measuring device accurate to +/- 5% and is based upon the higher heating value (HHV) of the fuel. Percent efficiency (E) shall be averaged over 15 consecutive minutes and measured at peak load for the applicable engine.
- ii.  $E = (\text{Manufacturers Rated Efficiency [Continuous] at LHV}) \times (\text{LHV}) \div (\text{HHV})$   
Where LHV = the lower heating value of the fuel

Engine efficiency (E) shall not be less than 30 percent. An engine with an efficiency lower than 30 percent shall be assigned an efficiency of 30 percent for the purposes of this rule.

[Rule 324 §305]

#### 25. Fuel Standard:

- a. The Permittee shall only use diesel fuel with a maximum sulfur content of 15 ppm and either a minimum cetane index of 40 or a maximum aromatic content of 35 volume percent.  
[40 CFR § 63.6604] [40 CFR § 80.510(b)][Rule 324 §301.1]

#### 26. Opacity:

- a. 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.
- b. Compliance with visible emissions shall be determined using the techniques specified in EPA Reference Method 9, 40 CFR Part 60, Appendix A.

[SIP Rule 324 §§303, 503.8]

## 27. Reporting

The Permittee shall comply with the following:

a. Low Sulfur Oil Verification:

If the Control Officer requests proof of the sulfur content of fuel burned in the engine(s), the Permittee shall submit fuel receipts, contract specifications, pipeline meter tickets, Material Safety Data Sheets (MSDS), fuel supplier information or purchase records, if applicable, from the fuel supplier, indicating the sulfur content of the fuel oil. In lieu of these, testing of the fuel oil for sulfur content to meet the applicable sulfur limit shall be permitted if so desired by the owner or operator for evidence of compliance.

[County Rule 220 §302.13, County Rule 324 §501.4]

b. Initial Notification:

i. The Permittee shall submit an Initial Notification no later than 120 calendar days [after the initial startup](#).

ii. The initial notification shall contain the information specified below:

- 1) The name and address of the owner or operator;
- 2) The address (i.e., physical location) of the affected source;
- 3) An identification of the relevant standard, or other requirement, that is the basis of the notification (40 CFR 63 Subpart ZZZZ) and the source's compliance date;
- 4) A brief description of the engine; and
- 5) A description of the compliance method for each engine.

[40 CFR § 63.6645(a)]

c. Following the initial and any subsequent performance tests the Permittee shall submit Notification of Compliance Status before the close of business on the 60th day following the completion of the test to the Department. The notification shall demonstrate one of the following:

- i. The average CO concentration corrected to 15 percent O<sub>2</sub>, dry basis, from the three test runs is less than or equal to the CO emission limitation of this Permit; or
- ii. The average reduction in emissions of CO determined from the initial performance test is equal to or greater than 70 percent.

[40 CFR §§63.6630, 63.6645]

d. Notifications and reports shall be submitted to:

- i. Maricopa County Air Quality Department, Attn: Permit Division Manager, 1001 N. Central Ave., Suite 400, Phoenix, Arizona 85004-1944

## 28. Recordkeeping:

The Permittee shall maintain the following records for a period of at least five years from the date of the records and make them available to the Control Officer upon request:

a. A copy of any Initial Notification and Notification of Compliance Status that were submitted and all documentation supporting those notifications.

b. An initial one time entry listing the particular engine combustion type (compression or spark-ignition or rich or lean burn); manufacturer; model designation, rated brake horsepower, serial number and where the engine is located on the site.

[Rule 324 §502.1] [Rule 220 §302.7]

c. The Permittee shall maintain a daily and 12-month rolling total record of hours of operation.

[Rule 324 §502.2] [Rule 220 §302.7]

d. Records of the 12-month rolling [total emissions](#), as required by [Permit Condition 18](#)

[Rule 220 §302.7][Locally Enforceable Only]

- e. The Permittee shall maintain an annual record of good combustion practices according to Permit Condition 23, including the following:
- i. Oil and filter change dates or oil analysis results and corresponding hours on the hour meter;
  - ii. Inspection and replacement dates for air cleaners, hoses, and belts; and
  - iii. Records of other emission-related repairs and maintenance performed.  
[Rule 324 §302] [Rule 220 §302.7] [40 CFR §63.6655(e)] [40 CFR §63.6660]
- f. Records of the occurrence and duration of each malfunction of operation (i.e., process equipment) or the air pollution control and monitoring equipment.
- g. Records of performance tests and performance evaluations as required in §63.10(b)(2)(viii).
- h. Records of all required maintenance performed on the air pollution control and monitoring equipment.
- i. Records of actions taken during periods of malfunction to minimize emissions in accordance with §63.6605(b), including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation.  
[Rule 220 §302.7]
- j. The Permittee shall keep records of the manufacturer's recommended maintenance procedures for the closed crankcase ventilation system or open crankcase filtration system and records of the maintenance performed on the system.  
[40 CFR §63.6655(e)(2)] [40 CFR §63.6660]
- i. The Permittee shall keep records of the pressure drop across the oxidation catalyst and the catalyst inlet temperature as required by [Permit Conditions \[22.f\]](#) and [\[22.g\]](#).  
[40 CFR §63.6640(a); Table 6]

## **GENERAL CONDITIONS**

### **29. Posting of Permit:**

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

[Rule 200 §312]

### **30. Compliance:**

- a. The issuance of any Permit or Permit revision shall not relieve the Permittee from compliance with any Federal laws, Arizona laws, or the County or SIP Rules, nor does any other law, regulation or permit relieve the Permittee from obtaining a Permit or Permit revision required under the County Rules.  
[Rule 200 §309][Rule 220 §406.3][Locally Enforceable Only]
- b. The Permittee shall comply with all conditions of this Permit including all applicable requirements of Federal laws, Arizona laws, and Maricopa County Air Pollution Control Rules and Regulations now in effect and as amended in the future. Any Permit noncompliance is grounds for enforcement action, Permit termination or revocation, or for denial of a renewal application. In addition, non-compliance with any federally enforceable requirements constitutes a violation of the Clean Air Act.  
[A.A.C. R18-2-306.A.8.a][Locally Enforceable Only]
- c. It shall not be a defense for the Permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with these Permit Conditions.  
[Rule 220 §302.10][A.A.C. R18-2-306.A.8.b][Locally Enforceable Only]
- d. Rights and Privileges: This Permit does not convey any property rights or exclusive privilege of any sort.

[Rule 220 §302.12][Locally Enforceable Only]

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

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

**31. Malfunctions, Emergency Upsets, and Excess Emissions:**

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

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

**32. Revision / Reopening / Revocation:**

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

[Rule 220 §302.11][Locally Enforceable Only]

**33. Records:**

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

[Rule 220 §302.13][SIP Rule 40]

- b. If the Permittee fails to submit any relevant facts or has submitted incorrect information in a permit application, the Permittee shall, upon becoming aware of such failure or incorrect submittal, promptly submit such supplementary facts or corrected information. In addition, the Permittee shall provide additional information as necessary to address any requirements that become applicable to the source after the date a complete application is filed but prior to release of a proposed permit. Willful misrepresentation of facts in a permit application is cause for revocation or denial of a permit.

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

**34. Right to Entry:**

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

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

**35. Severability:**

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

[Rule 220 §302.9][SIP Rule 80]

DRAFT

## Equipment List

CALPORTLAND COMPANY

Permit Number 160015

Date Issued:

<b>Equipment Description</b>	<b>Rated Capacity</b>	<b>Quantity Exist/Future</b>
1. CONCRETE BATCH PLANT - R&S INDUSTRIES; MODEL 12 YD APACHE; S/N UCONW136CONV; 2007	280.00 TON(S)/HR	1 /
2. WATER HEATER - KEMCO RM WATER HEATER, PROPANE. INSTALLED MARCH 2007; 2880 HRS ANNUAL OPERATION	4.50 MM BTU/HR	1 /
3. GENERATOR - CATERPILLAR KVA 456, KW 365;DIESEL; 2400 HOURS ANNUALLY; MANUF. JAN. 1, 2006	563.00 HP	1 /
4. CHILLER - TRANE; S/N U07D03574	80.00 TON(S)	1 /
5. EQUIPMENT - GUPPY	150.00 TON(S)	1 /
6. EQUIPMENT - AGGREGATE SCALE	198.00 TON(S)/HR	1 /
<b>SILO</b>		
1. SILO - CEMENT; S/N UCONW136CONV; 2007	90.00 TON(S)	1 /
2. SILO - FLYASH;2007	42.00 TON(S)	1 /
3. SILO - SUPER SILO (CEMENT) 2007;	150.00 TON(S)	1 /
<b>CONVEYOR &amp; BIN</b>		
1. BIN - CONVEYOR & BIN	100.00 TON(S)/HR	1 /
2. BIN - CONVEYOR & BIN	86.00 TON(S)/HR	1 /
3. BIN - CONVEYOR & BIN	12.00 TON(S)/HR	1 /
4. BIN - AGGREGATE BIN	198.00 TON(S)/HR	1 /
<b>DUST CONTROL</b>		
1. DUST COLLECTOR - R&S INDUSTRIES PJB 1100DC; SN 7008D;99.9% EFF.	6,700.00 CFM	1 /
2. BAGHOUSE - CEMENT; R&S INDUSTRIES;2007;99.9% EFF.	1,000.00 CFM	1 /
3. BAGHOUSE - FLYASH; R&S INDUSTRIES;2007; 99.9% EFF.	1,000.00 CFM	1 /
4. BAGHOUSE - CEMENT; R&S INDUSTRIES; 2006; 99.9% EFF.	1,000.00 CFM	1 /
<b>De Minimis Equipment:</b>		
7. TANK - DIESEL FUEL TANK	10,000.00 GALLON(S)	1 /