

**EASTERN KERN AIR POLLUTION CONTROL DISTRICT**



**MAJOR SOURCE  
PERMIT TO OPERATE**

2700 "M" STREET, SUITE 302  
BAKERSFIELD, CA 93301-2370  
BAKERSFIELD: (661) 862-5250  
FIELD OFFICE: (661) 824-7085

**Permittee:** California Portland Cement Company  
**Location:** 9350 Oak Creek Road  
Mojave, California 93501-7738  
**Permit No:** 1003-V-2000  
**Issuance Date:** March 29, 2011  
**Expiration Date:** March 29, 2016  
**Nature of Business:** Producer of Portland Cement

This permit is issued pursuant to and is conditioned upon compliance with provisions of the Eastern Kern Air Pollution Control District Rules and Regulations as authorized by the California Health and Safety Code, Section 39002. This permit is subject to accuracy of all information submitted relating to the permit application and to conditions appended hereto. It is valid from date of issuance until date of expiration unless renewed and shall be made readily available for inspection at any reasonable time to any and all persons who may request to see it.

Pursuant to the Clean Air Act Amendments of 1990 (CAAA), all conditions of this permit are federally enforceable by U.S. EPA and Eastern Kern Air Pollution Control District. Those provisions which are not required by the CAAA are considered to be Eastern Kern provisions and are not federally enforceable by U.S. EPA.

By:

A handwritten signature in black ink, appearing to read "DJ Jones", written over a horizontal line.

David L. Jones  
Air Pollution Control Officer

## **TABLE OF CONTENTS**

General Permit Conditions

List of Insignificant Air Pollutant Emitting Equipment

### **Emission Unit**

### **Description of Source**

001	Primary Crushing Operation
004	D-3 Finish Mill
010	Coal Supply System
016	Clinker & Additive Storage Operation
017	Finish Grinding Operation #1
018	Packhouse & Loading Facilities
020	Gasoline Storage & Dispensing System
021	Sampling System
022	Limestone Storage & Reclaim System
023	Additives System
024	Roller Mill System
025	Homogenizing & Kiln Feed System
026	Pyroprocessing System
027	Clinker Cooling System
032	Standby Piston Engine with Generator
033	Standby Piston Engine with Generator
042	Piston Engine with Welder
043	Piston Engine with Welder
044	Piston Engine with Compressor
045	Piston Engine with Compressor

## **TABLE OF CONTENTS**

<b><u>Emission Unit</u></b>	<b><u>Description of Source</u></b>
048	Piston Engine
049	Piston Engine with Washer
051	Vacuum Truck
053	Kiln Engine
054	Bulk Clinker Truck Loadout Operation
055	Finish Grinding Operation #2
056	Finish Grinding Operation #3
057	Finish Grinding Operation #4
058	Finish Grinding Operation #5
059	Finish Grinding Operation #6
061	Portable Crushing Plant
062	Paint Spray Operation
063	Quarry Drill #1
064	Quarry Drill #2
065	Finish Mill System
066	Sweeper #1
068	Vacuum Truck
069	Portable Crushing Operation
	Appendix A (40 CFR Part 63, Subpart LLL)
	Appendix B (PSD Conditions)
	Appendix C (Compliance Assurance Monitoring)
	Appendix D (Greenhouse Gas Facility Wide Reporting)

## **List of Insignificant Air Pollutant Emitting Equipment**

Space Heating Equipment

Welding Equipment

Portable IC Engines - California Registered

Small IC Engines  $\leq 50$  bhp

Boilers & Heaters  $< 5$  MM Btu/hr

Air Conditioning Equipment

Atomic Absorption

Bunsen Burners

Inductively Coupled Plasma

Steam Cleaners, Natural Gas

Water Heaters, Natural Gas

Motor Vehicles as Defined in the CH&SC

Spectro Photometer

Above Ground Fuel Oil Storage Tanks  $\leq 19,800$  gallon (471 bbls)

Below Ground Diesel Storage Tanks  $\leq 19,800$  gallon (471 bbls)

Small Degreasing Operations

**General Permit Conditions**

In accordance with California Health and Safety Code, Sections 39002 and 42301.10 through 42301.12 and all applicable Eastern Kern Air Pollution Control District (District) Rules and Regulations, the conditions which are listed below are hereby contained in and made a part of this permit:

	<b>Federally Enforceable Conditions</b>	<b>Reg/Rule</b>
1.	<p><b><u>Inspections</u></b></p> <p>Inspections shall be made by the enforcement agency for the purpose of obtaining information necessary to determine whether air pollution sources are in compliance with applicable rules and regulations, including authority to require record keeping and to make inspections and conduct tests of air pollution sources.</p>	Reg. I, Rule 107
2.	<p><b><u>Stack Monitoring</u></b></p> <p>Upon the request of and as directed by the Control Officer, the owner shall provide, install, and operate continuous monitoring equipment on such operations as directed. The owner shall maintain, calibrate, and repair the equipment and shall keep the equipment operating at design capabilities.</p>	Reg. I, Rule 108
3.	<p><b><u>Source Sampling</u></b></p> <p>Upon the request of the Control Officer and as directed by him the owner of any source operation which emits or may emit air contaminants, for which emission limits have been established, shall provide the necessary and proper facilities for source sampling.</p> <p>The applicable test method, if not specified in the rule, shall be conducted in accordance with Title 40 CFR, Subpart 60, Appendix A - Reference Methods, except particulate matter (PM10) for compliance with Rule 210.1 requirements shall be conducted in accordance with Title 40 CFR, Subpart 51, Appendix M, Method 201 or 201A. Where no test method exists in the preceding references for a source type source sampling shall be conducted in accordance with California Air Resources Board (CARB) approved methods.</p>	Reg. I, Rule 108.1
4.	<p><b><u>Equipment Breakdown</u></b></p> <p>An occurrence which constitutes a breakdown condition, and which persists only until the end of the production run or 24-hours, whichever is sooner (except for continuous monitoring equipment, for which the period shall be ninety-six (96) hours), shall constitute a violation of any applicable emission limitation or restriction prescribed by these Rules and Regulations; however, no enforcement action may be taken provided the owner or operator demonstrates to the Control Officer that a breakdown condition exists and the proper requirements are met.</p>	Reg. I, Rule 111

	<b>Federally Enforceable Conditions</b>	<b>Reg/Rule</b>
5.	<p><b><u>Severability</u></b></p> <p>If any provision, clause, sentence, paragraph, section or part of these Regulations or application thereof to any person or circumstance shall for any reason be adjudged by a court of competent jurisdiction to be unconstitutional or invalid, such judgement shall not affect or invalidate the remainder of this Regulation and the application of such provision to other persons or circumstances, but shall be confined in its operation to the provision, clause, sentence, paragraph, section or part thereof directly involved in the controversy in which such judgement shall have been rendered and to the person or circumstance involved, and it is hereby declared to be the intent of the Eastern Kern Air Pollution Control Board that these Regulations would have been adopted in any case had such invalid provision or provisions not been included.</p>	Reg. I, Rule 114
6.	<p><b><u>Conditional Approval</u></b></p> <p>The Control Officer shall issue an Authority to Construct or a Permit to Operate, subject to conditions to insure compliance of the operation of any article, machine, equipment or other contrivance within the standards of Rule 208 and 208.1, in which case the conditions shall be specified in writing. Commencing work under such Authority to Construct or operation under such Permit to Operate shall be deemed acceptance of all conditions so specified. The Control Officer shall issue an Authority to Construct or Permit to Operate with revised conditions upon receipt of a new application, if the applicant demonstrates the article, machine, equipment or other contrivance can be operated within the standards of Rule 208 and 208.1 under the revised conditions.</p>	Reg. II, Rule 209
7.	<p><b><u>Standards for Authority to Construct</u></b></p> <p>A. The Permittee may make a change to this permitted facility that is not addressed or prohibited by the federally enforceable conditions of this Part 70 permit without obtaining a Part 70 permit revision if:</p> <ol style="list-style-type: none"> <li>1) The Permittee has obtained all permits and approvals required by District Rules 201 and 210.1 (unless the change is exempt under District Rule 202);</li> <li>2) The change is not subject to any requirements under Title IV of the Clean Air Act;</li> <li>3) The change is not a Title I modification; and</li> <li>4) The change does not violate an applicable requirement of the Clean Air Act or a federally enforceable term or condition of this permit.</li> </ol> <p>B. For a change that qualified under this section, the Permittee shall provide contemporaneous written notice to the District and the U.S. EPA (except for a change that is exempt under District Rule 202). This written notice shall describe the change, including the date it was made, and shall contain other information as required to determine new applicable requirements of the Clean Air Act that apply as a result of the change;</p>	Reg. II, Rule 210.1 Section IV. D.3

	<b>Federally Enforceable Conditions</b>	<b>Reg/Rule</b>
7.	<p><b><u>Standards for Authority to Construct (continued)</u></b></p> <p>C. Upon satisfying the requirements of paragraph B above, the Permittee may make the proposed change;</p> <p>D. Changes that qualify under this section are not subject to the requirements for Part 70 revisions;</p> <p>E. The Permittee shall include each off-permit change made under this section in the application for renewal of this Part 70 permit; and</p> <p>F. The permit shield(s) provided in this permit do not apply to off-permit changes made under this section.</p>	
8.	<p><b><u>Prevention of Significant Deterioration (PSD)</u></b></p> <p>Facility may be subject to District Rule 210.4, Prevention of Significant Deterioration (PSD) if it undergoes major modification(s).</p>	Reg. II, Rule 210.4
9.	<p><b><u>Permit Fees</u></b></p> <p>Every applicant for an Authority to Construct or a Permit to Operate shall pay a filing fee. For issuance of an Authority to Construct, or an initial Permit to Operate, the applicant shall pay fees as prescribed in Rule 301. For issuance of an Authority to Construct, application processing fees shall also be paid as prescribed in Rule 303. The applicant shall receive credit for filing fees paid.</p> <p>Annually on the anniversary of issuance of a Permit to Operate, the permittee shall pay a renewal fee as prescribed in Rule 301. Fees collected pursuant to Rule 201.1, Section VII.A. shall supplement applicable Rules 301 and 301.3 fee requirements.</p> <p><b><u>Payment of Supplemental Fee</u></b></p> <p>An owner or operator, or his designee, shall pay an annual supplemental fee for a permit to operate pursuant to this Rule as determined by the calculation method in Subsection C., to provide a District-wide fee rate of \$25 per ton of fee-based emissions (CPI-adjusted) for all facilities subject to Rule 201.1, unless Rule 201.1 VII.B. applies.</p>	Reg. III, Rule 301          Rule 201.1 Section VII. A.

	<b>Federally Enforceable Conditions</b>	<b>Reg/Rule</b>
10.	<p><b><u>Visible Emissions</u></b></p> <p><b><u>Limits</u></b>            A person shall not discharge into the atmosphere, from any single source of emission whatsoever, except for exceptions provided for in rule, any air contaminant for a period or periods aggregating more than three minutes in any one hour which is:</p> <p>A. As dark or darker in shade as that designated as No. 1 on the Ringelmann Chart, as published by the United States Bureau of Mines; or</p> <p>B. Of such opacity as to obscure an observer's view to a degree equal to or greater than does smoke described in Subsection A.</p>	Reg. IV, Rule 401
11.	<p><b><u>Particulate Matter Concentration - Desert Basin</u></b></p> <p>A. A person shall not discharge into the atmosphere from any single source operation, in service on the date this Rule is adopted, particulate matter in excess of 0.2 grains per cubic foot of gas at standard conditions.</p> <p>B. A person shall not discharge into the atmosphere from any single source operation, the construction or modification of which commenced after the adoption of this Rule, particulate matter in excess of 0.1 grains per cubic foot of gas at standard conditions</p>	Reg. IV, Rule 404.1
12.	<p><b><u>Particulate Matter - Emission Rate</u></b></p> <p>A person shall not discharge into the atmosphere from any source operation, particulate matter in excess of the limits set forth in the allowable particle emissions based on process weight rate table included in Rule 405.</p>	Reg. IV, Rule 405
13.	<p><b><u>Process Weight - Portland Cement Kilns</u></b></p> <p>Cement kilns, the construction or modification of which is commenced after August 17, 1971, shall not discharge into the atmosphere particulate matter in excess of the Environmental Protection Agency Standards of Performance. Cement kilns regulated by this Rule are not subject to other process weight Rules.</p>	Reg. IV, Rule 406
14.	<p><b><u>Sulfur Compounds</u></b></p> <p>A person shall not discharge into the atmosphere sulfur compounds, which would exist as a liquid or gas at standard conditions, exceeding in concentration at the point of discharge: 0.2 percent by volume calculated as sulfur dioxide (SO<sub>2</sub>).</p>	Reg. IV, Rule 407
15.	<p><b><u>Fuel Burning Equipment - Combustion Contaminants</u></b></p> <p>A person shall not discharge into the atmosphere combustion contaminants exceeding in concentration at the point of discharge: 0.1 grain per cubic foot of gas calculated to 12 percent of carbon dioxide (CO<sub>2</sub>) at standard conditions.</p>	Reg. IV, Rule 407.2



	<b>Federally Enforceable Conditions</b>	<b>Reg/Rule</b>
16.	<p><b><u>Fuel Burning Equipment - Desert Basin</u></b></p> <p>Fuel burning equipment, the construction or modification of which is commenced after August 17, 1971, shall not discharge into the atmosphere particulate matter, sulfur dioxide or nitrogen oxides in excess of the Environmental Protection Agency Standard of Performance.</p>	Reg. IV, Rule 409
17.	<p><b><u>Organic Solvents</u></b></p> <p>A person shall not discharge into the atmosphere more organic materials in any one day from any article, machine, equipment or other contrivance in which any organic solvent or any material containing organic solvent is utilized unless the emissions are controlled or reduced as outlined in the organic solvent rule (410).</p>	Reg. IV, Rule 410
18.	<p><b><u>Disposal and Evaporation of Solvents</u></b></p> <p>A person shall not during any one day disposed of a total of more than 1½ gallons of any photochemically reactive solvent as defined in Rule 410.X., or of any material containing more than 1½ gallons of any such photochemically reactive solvent into the atmosphere.</p>	Reg. IV, Rule 410
19.	<p><b><u>Organic Solvent Degreasing Operation</u></b></p> <p>A person shall not operate any organic solvent degreasing operation unless the equipment utilized complies with all applicable requirements of Rule 410.3.</p>	Reg. IV, Rule 410.3
20.	<p><b><u>Storage of Organic Liquids</u></b></p> <p>A person shall not use equipment to store organic liquids and petroleum distillates with a true vapor pressure greater than 1.5 psia unless provisions are made for controlling organic vapors.</p>	Reg. IV, Rule 411
21.	<p><b><u>Gasoline Transfer into Stationary Storage Containers, Delivery Vessels and Bulk Plants</u></b></p> <p>A person shall not transfer gasoline into storage or delivery vessels unless provisions are made to recover 95% of the displaced vapors.</p>	Reg. IV, Rule 412
22.	<p><b><u>Transfer of Gasoline into Vehicle Fuel Tanks</u></b></p> <p>No person shall transfer gasoline into vehicle fuel tanks requiring Phase II unless CARB-Certified Phase II dispensing equipment is utilized and maintained in correct working order.</p>	Reg. IV, Rule 412.1
23.	<p><b><u>Nuisance</u></b></p> <p>A person shall not discharge from any source whatsoever such quantities of air contaminants or other material which cause injury, detriment, nuisance or annoyance to any considerable number of persons or to the public or which endanger the comfort, repose, health or safety of any such persons or the public or which cause or have a natural tendency to cause injury or damage to business or property.</p>	Reg. IV, Rule 419

	<b>Federally Enforceable Conditions</b>	<b>Reg/Rule</b>
24.	<p><b><u>Federal New Source Performance Standards (NSPS)</u></b></p> <p>Provisions of Part 60, Chapter 1, Title 40, Code of Federal Regulations, in effect September 5, 1996, are hereby adopted by reference and made a part hereof. All new and modified sources shall comply with standards, criteria and requirements set forth therein.</p> <p>All applicable requirements of 40 CFR Part 60, Subparts A, F, Y, and IIII apply to this facility</p>	Reg. IV, Rule 422
25.	<p><b><u>National Emission Standards for Hazardous Air Pollutants and Source Categories (NESHAPS)</u></b></p> <p>Provisions of Title 40, Chapter 1, Parts 61 and 63, Code of Federal Regulations, in effect September 5, 1996, are hereby adopted by reference and made a part hereof. All sources of hazardous air pollution shall comply with applicable standards, criteria and requirements set forth herein.</p> <p>All applicable requirements of 40 CFR Part 61, Subpart M and 40 CFR Part 63, Subparts A, LLL, and ZZZZ apply to this facility.</p>	Reg. IV, Rule 423
25.	<p><b><u>National Emission Standards for Hazardous Air Pollutants and Source Categories (NESHAPS) (continued)</u></b></p> <p>For the purposes of 40 CFR Part 63, Subpart LLL, “Significant Change” is defined as the use by the facility of a fuel or alternate raw material that is a Federally regulated hazardous waste. The normal use of District approved fuels and/or fuel blends and District approved raw materials or raw material blends does not constitute a “significant change” in operation of the facility.</p> <p>For the purposes of 40 CFR Part 63, Subpart ZZZZ, “Stationary Reciprocating Internal Combustion Engines” You are subject to this subpart if you own or operate a stationary RICE at a major or area source of HAP emissions, except if the stationary RICE is being tested at a stationary RICE test cell/stand.</p>	
26.	<p><b><u>Compliance Certification</u></b></p> <p>The owner/operator shall comply with the following procedures for compliance certification:</p> <p>A. Submittal of a compliance certification by the owner or operator to the U.S. EPA and the APCO every 12 months;</p> <p>B. Such compliance certification shall identify the basis for each permit term or condition, e.g., specify the emissions limitation, standard or work practice, and a means of monitoring compliance with the term or condition;</p>	40 CFR 70.5d

	<b>Federally Enforceable Conditions</b>	<b>Reg/Rule</b>
26.	<p><b><u>Compliance Certification (continued)</u></b></p> <p>C. Such compliance certification shall include compliance status and method(s) used to determine compliance for the current time period and over entire reporting period; and</p> <p>D. Such compliance certification shall include any additional inspection, monitoring or entry requirement promulgated pursuant to Sections 114(a) and 504(b) of the CAA.</p> <p>Any application form, report, or compliance certification submitted pursuant to these regulations shall contain certification by a responsible official of truth, accuracy, and completeness. This certification and any other certification required under this part shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.</p> <p>U.S. EPA's Mailing Address:            Director, Air Division            75 Hawthorne Street            AIR-3            San Francisco, CA 94105</p>	
27.	<p><b><u>Compliance with Permit Conditions</u></b></p> <p>A. Permittee shall comply with all permit conditions;</p> <p>B. Permit does not convey any property rights or any exclusive privilege;</p> <p>C. Non-compliance with any permit condition shall be grounds for permit termination, revocation and reissuance, modification, enforcement action or denial of permit renewal;</p> <p>D. Permittee shall not use "need to halt or reduce a permitted activity in order to maintain compliance" as a defense for non-compliance with any permit condition;</p> <p>E. Pending permit action or notification of anticipated non-compliance does not stay any permit condition; and</p> <p>F. Within a reasonable time period, permittee shall furnish any information requested by the APCO, in writing, for purpose of determining: 1) compliance with the permit, or 2) whether or not cause exists for a permit or enforcement action.</p>	Reg. II, Rule 201.1

	<b>Federally Enforceable Conditions</b>	<b>Reg/Rule</b>
28.	<p><b><u>Emergency Provisions</u></b></p> <p>A. The permittee shall comply with the requirements of Rule 111 and the emergency provisions contained in all permit streamlining requirements imposed in accordance with Subsection V.J., Page 201.1-27, all District-only rules which apply in accordance with Subsection V.K.1., Page 201.1-28, and all applicable federal requirements not subsumed by such permit streamlining requirement(s) or District-only rules;</p> <p>B. Within two weeks of an emergency event, an owner or operator of the source shall submit to the District a properly signed, contemporaneous log or other relevant evidence which demonstrates that:</p> <ol style="list-style-type: none"> <li>1) An emergency occurred;</li> <li>2) The permittee can identify the cause(s) of the emergency;</li> <li>3) The facility was being properly operated at the time of the emergency;</li> <li>4) All steps were taken to minimize the emissions resulting from the emergency; and</li> <li>5) Within two working days of the emergency event, the permittee provided the District with a description of the emergency and any mitigating or corrective actions taken;</li> </ol> <p>C. In any enforcement proceeding, the permittee has the burden of proof for establishing that an emergency occurred.</p>	<p>Reg. II,          Rule 201.1          Section VI.          B.12</p>
29.	<p><b><u>Record keeping</u></b></p> <p>A. Recording of maintenance of all monitoring and support information associated with all permit streamlining requirements imposed in accordance with Subsection V.J., all District-only rules which apply in accordance with Subsection V.K.1., and all applicable federal requirement not submitted by such permit streamlining requirement(s) or District-only rules, including:</p> <ol style="list-style-type: none"> <li>1) Date, place, and time of sampling;</li> <li>2) Operating conditions at time of sampling;</li> <li>3) Date, place, and method of analysis; and</li> <li>4) Results of analysis;</li> </ol> <p>B. Retention of records of all required monitoring data and support information for a period of at least five years from the date of sample collection, measurement, report, or application; and</p> <p>C. Any other record keeping deemed necessary by the APCO to ensure compliance with all permit streamlining requirements imposed in accordance with Subsection V.J., all District-only rules which apply in accordance with Subsection V.K.1., and all applicable federal requirements not subsumed by such permit streamlining requirement(s) or District-only rules.</p>	<p>Reg. III,          Rule 201.1</p>

	<b>Federally Enforceable Conditions</b>	<b>Reg/Rule</b>
30.	<p><b><u>Reporting</u></b></p> <p>A. Any non-conformance with permit requirements, including any attributable to emergency conditions (as defined in the permit) shall be promptly reported to the APCO and in accordance with Rule 111;</p> <p>B. Monitoring report shall be submitted at least every six months identifying any non-conformance with permit requirements, including any previously reported to the APCO;</p> <p>C. All reports of non-conformance with permit requirements shall include probable cause of non-conformance and any preventative or corrective action taken;</p> <p>D. Progress report shall be made on a compliance schedule at least semi-annually and including:</p> <ol style="list-style-type: none"> <li>1) Date when compliance will be achieved,</li> <li>2) Explanation of why compliance was not, or will not be achieved by the scheduled date, and</li> <li>3) Log of any preventative or corrective action taken; and</li> </ol> <p>E. Each monitoring report shall be accompanied by a written statement from the responsible official certifying the truth, accuracy, and completeness of the report.</p> <p>F. Facility may be subject to Greenhouse Gas (GHG) reporting requirements.</p>	Reg. II, Rule 201.1
31.	<p><b><u>Referencing of District and Applicable Requirements</u></b></p> <p>Pursuant to Rule 201.1.VI.c. District hereby references the following documents which are clearly identified and available to the District and to the public:</p> <p>A. Plant modernization project 1980; and</p> <p>B. Each Authority to Construct file for new equipment and each Authority to Construct file to modify existing equipment.</p> <p>These files contain title, document number, applicant, and date received. Also included in these files are rule citations, engineering evaluations, and final documents all related to the existing permit conditions and emissions limits set forth in this permit.</p>	Reg. II, Rule 201.1

	<b>Federally Enforceable Conditions</b>	<b>Reg/Rule</b>
32.	<p><b><u>Right of Entry</u></b></p> <p>The source shall allow entry of District, CARB, or U.S. EPA officials for purpose of inspection and sampling, including:</p> <p>A. Inspection of the stationary source, including equipment, work practices, operations, and emission-related activity;</p> <p>B. Inspection and duplication of records required by the permit to operate; and</p> <p>C. Source sampling or other monitoring activities.</p>	Reg. III, Rule 201.1
33.	<p><b><u>Permit Life</u></b></p> <p>The life of this permit shall be five years from the date of issuance.</p>	Reg. II, Rule 201.1 Section VI. B.15
34.	<p><b><u>Administrative Permit Amendment and Minor Permit Modification</u></b></p> <p>Administrative Permit Amendment and Minor Permit Modification are those actions taken by the District as defined in Rule 201.1.</p>	Reg. II, Rule 201.1
35.	<p><b><u>Applicability of Federally Enforceable Conditions</u></b></p> <p>Federally Enforceable Conditions <b><u>do not apply</u></b> to the following permit sections: Equipment Descriptions, and any Design Conditions, Operational Conditions, Special Conditions, or Compliance Testing Requirements designated as District only. Federally Enforceable Conditions <b><u>shall apply</u></b> to Design Conditions, Operational Conditions, Special Conditions, Compliance Testing Requirements, and Emission Limits except as noted above.</p>	Reg. II, Rule 201.1
36.	<p><b><u>Periodic Monitoring</u></b></p> <p><b><u>Non-Point</u></b>          California Portland Cement Company shall conduct testing semi-annually, in accordance with the methodology contained in EPA Method 22 for all non-point sources. This testing will be the basis for determining compliance with the visible emission standard in District.</p> <p>Rule 401. If no emissions are observed utilizing Method 22, the non-point source shall be deemed to be in compliance with the visible emission standard. If emissions are observed from any non-point source and that source is not operating under breakdown condition as defined in and allowed for in District Rule 111, California Portland Cement Company shall conduct testing on that non-point source within 24 hours of the Method 22 testing in accordance with EPA Method 9 to verify compliance with the visible emission standard.</p> <p>NOTE: This requirement does not apply to fugitive emissions resulting from activities not covered by a permit to operate unless the source is subject to District Rule 210.1 (NSR) requirements.</p>	

	<b>Federally Enforceable Conditions</b>	<b>Reg/Rule</b>
36.	<p><b><u>Point</u></b>            California Portland Cement Company shall conduct testing semi-annually, in accordance with the methodology contained in EPA Method 22 for all point sources. This testing will be the basis for determining compliance with the visible emission standard in District Rule 401. If no emissions are observed utilizing Method 22, the point source shall be deemed to be in compliance with the visible emission standard. If emissions are observed from any point source and that point source is not operating under breakdown condition as defined in and allowed for in District Rule 111, California Portland Cement Company shall conduct testing on that point source:</p> <ul style="list-style-type: none"> <li>A. Within 24 hours of the Method 22 testing in accordance with EPA Method 9 to verify compliance with the visible emission standard. If compliance is not documented:</li> <li>B. Within 30 days of the Method 9 testing in accordance with EPA Method 5 or 5D to verify compliance with the requirements of District Rules 404.1, 405, 406 and/or 210.1.</li> </ul> <p><b><u>Additional Monitoring</u></b>            Diesel standby and emergency piston engines do not require opacity monitoring if utilizing California diesel or other low-sulfur, low aromatic fuel. Fuel records shall be kept for verification purposes and an operational log for hours of operation.</p> <p>All control equipment shall be inspected annually for proper operation. California Portland Cement Company shall maintain all records of control equipment maintenance for a period of five years.</p> <p>Monitoring shall be the responsibility of the source; however, a visible emissions inspection or Method 9 conducted by a District inspector may be counted as meeting the requirement for the source to conduct same if the information and records generated by the inspector meets the requirements of the permit and a copy of the records are maintained by the source for a period of five years.</p> <p>Record keeping provisions associated with all monitoring requirements shall include the following information:</p> <ul style="list-style-type: none"> <li>A. Identification of stack or emission point being monitored;</li> <li>B. Operational conditions at the time of monitoring;</li> <li>C. Records of any monitoring conducted, including records of emission or operational parameter values and the date, place and time of sampling or measurement; and</li> <li>D. Where corrective action is triggered, description of the corrective action and the date, time and results of any corrective action.</li> </ul>	

	<b>Federally Enforceable Conditions</b>	<b>Reg/Rule</b>
36.	<p><b><u>Testing</u></b>                      California Portland shall conduct stack testing annually and at other times as specified by U.S. EPA or the District, in accordance with the methodology outlined in EPA Methods 5-8, 7E, 10, 18, 5 or equivalent, to verify compliance with emission limits and the accuracy of any continuous in-stack monitors. The District and U.S. EPA shall be notified at least 30 days in advance of the testing to allow an observer to be present and the report of results shall be transmitted to the District as soon as they are available. (PSD Permit #SE78-73 and District Rule 210.1)</p> <p><b><u>Monitoring, Testing, Record Keeping Requirements</u></b>                      (Portland Cement Kilns - Oxides of Nitrogen)                      Continuous NOx emissions monitoring system records and clinker production records for the cement kiln shall be maintained at the facility for a period of at least five years and made readily available to District personnel.</p> <p>Oxides of nitrogen stack testing for purposes of this requirement shall be conducted using EPA Test Method 7E.</p> <p>Stack gas flow rate testing for purposes of this requirement shall be conducted using EPA Test Method 2.</p> <p>The following formula shall be used to convert uncorrected observed NOx concentration in ppmv to tons per day at standard conditions of 68°F and a gas pressure of 29.92 inches of mercury:</p> $\frac{\text{Tons} \cdot \text{NOx}}{\text{day}} = (\text{ppmv} \cdot \text{NOx}) \times \left( \frac{46 \text{ grams}}{\text{mole}} \right) \times (1.56 \times 10^{-7}) \left( \frac{\text{dscf}}{\text{min}} \right) \times (0.0120)$ <p>Applies to EU 026</p> <p><b><u>Monitoring, Record keeping Requirements</u></b>                      (Coating of Metallic Parts)                      California Portland shall maintain and have available during an inspection:</p> <p>A. A current list of VOC containing products in use containing all data necessary to evaluate compliance, including the following information, as applicable:</p> <ol style="list-style-type: none"> <li>1) Material name and manufacturer's identification,</li> <li>2) Application method,</li> <li>3) Material type and specific use instructions,</li> <li>4) Specific mixing instructions,</li> <li>5) Maximum VOC content of coating as applied, including thinning solvents, hardeners, etc., excluding water and exempt compounds, and</li> <li>6) Coating composition and density;</li> </ol>	



	<b>Federally Enforceable Conditions</b>	<b>Reg/Rule</b>
36.	<p><b><u>Monitoring, Record keeping Requirements(continued)</u></b></p> <p>B. Daily coating and solvent use records, including the following information for each:</p> <ol style="list-style-type: none"> <li>1) Volume used of each component and mix ratio,</li> <li>2) VOC content in grams/liter (or pounds/gallon) as applied/used, and</li> <li>3) Volume in liters (or gallons) applied/used;</li> </ol> <p>C. Capture and control equipment operating records, including:</p> <ol style="list-style-type: none"> <li>1) Periods of operation corresponding to use records showing control equipment was used as necessary,</li> <li>2) Key system operating parameters showing operation as required to comply and as intended by manufacturer, and</li> <li>3) Date performed, and description of all control system maintenance.</li> </ol> <p>Facilities exempt by District Rule 410.4, Subsection III.A. may maintain records on an extended basis provided such records show emissions are less than 15 pounds for the entire extended period.</p> <p>All records shall be retained and made available for inspection by the Control Officer for at least five years.</p> <p>Applies to EU 062</p> <p><b><u>Monitoring, Record keeping Requirements</u></b>                      (Motor Vehicle &amp; Mobile Equipment Coating)                      California Portland shall maintain and have available during an inspection:</p> <p>A. A current list of VOC containing products in use containing all data necessary to evaluate compliance, including the following information, as applicable:</p> <ol style="list-style-type: none"> <li>1) Material name and manufacturer’s identification,</li> <li>2) Application method,</li> <li>3) Material type and specific use instructions, for example, “Group I single stage topcoat or precoat shall be applied to bare metal and followed with compliant primer”,</li> <li>4) Specific mixing instructions,</li> <li>5) Maximum VOC content of coating as applied, including thinning solvents, hardeners, etc., excluding water and exempt compounds, and</li> <li>6) Coating composition and density;</li> </ol>	

	<b>Federally Enforceable Conditions</b>	<b>Reg/Rule</b>
36.	<p><b><u>Monitoring, Record keeping Requirements (continued)</u></b></p> <p>B. Daily job and coating and solvent use records, including the following information:</p> <ol style="list-style-type: none"> <li>1) Each type of vehicle, equipment, part or component coated. Vehicle types are the following:               <ol style="list-style-type: none"> <li>a) Group I Vehicle,</li> <li>b) Group I Vehicle with lacquer,</li> <li>c) Group II Vehicle and Mobile Equipment with color match, or</li> <li>d) Group II Vehicle and Mobile Equipment with no color match;</li> </ol> </li> <li>2) Specific coatings used on each job, e.g. pretreatment wash primer, precoat, topcoat,</li> <li>3) Volume in liters (or gallons) of each component and mix ratio,</li> <li>4) VOC content in grams/liter (or pounds/gallon) as applied/used,</li> <li>5) Specific solvents used,</li> <li>6) Volume List of Insignificant Air Pollutant Emitting Equipment of each solvent used in liters (or gallons), and</li> <li>7) Primers and primer surfacers mixed for use on multiple vehicles may be recorded as single line item including all information required in District Rule 410.4A, Subsections V.2.c. through V.2.f.;</li> </ol> <p>C. Capture and control equipment operating records, if applicable, including:</p> <ol style="list-style-type: none"> <li>1) Periods of operation corresponding to use records kept showing control equipment was used as necessary,</li> <li>2) Key system operating parameters showing operation as required to comply with this requirement and as intended by manufacturer, and</li> <li>3) Date performed, and description of all control system maintenance;</li> </ol> <p>D. Purchase records showing date, type, and amount of VOC containing material.</p> <p>All records shall be maintained for five years and made available for inspection by the Control Officer upon request.</p> <p>Applies to EU 062.</p>	

## **List of Insignificant Air Pollutant Emitting Equipment**

Space Heating Equipment

Welding Equipment

Portable IC Engines - California Registered

Small IC Engines < 50 bhp

Boilers & Heaters < 5 MM Btu/hr

Air Conditioning Equipment

Atomic Absorption

Bunsen Burners

Inductively Coupled Plasma

Steam Cleaners, Natural Gas

Water Heaters, Natural Gas

Motor Vehicles as Defined in the CH&SC

Spectro Photometer

Above Ground Fuel Oil Storage Tanks

Below Ground Diesel Storage Tanks

Small Degreasing Operations

Emission Unit 001 Permit Conditions

<u>Facility Number</u>	<u>Emissions Unit</u>	<u>Description of Source</u>
1003	001	Primary Crusher Operation

**Emission Unit Equipment Description/Permit Conditions**

**Federally Enforceable Conditions**

**EQUIPMENT DESCRIPTION:** Primary Crusher Operation, including following equipment:

- A. Partially enclosed raw ore receiving hopper (B2-HOP1) equipped with dust suppressant spray system (30 hp pump, B2-WP1) and tank (B2-WT1);
- B. Apron feed (B2-PF1);
- C. Scalping vibrating grizzly (B2-VG1) with dust control ventilation by fabric collector (B2-DC1);
- D. Impact crusher (B2-IC1) with dust collection by fabric collector (B2-DC1) and dust suppression by treated water sprays from spray system (B1-DS1), + 10-hp pump;
- E. Belt conveyor (B2-BC1) with dust collection by fabric collector (B2-DC1) and dust suppression by treated water sprays from spray system (B1-DS1);
- F. Primary crushing fabric collector (B2-DC1) with 522 - 4.75 in. dia by 10 ft. long polyester filter tubes, pulse-jet cleaning mechanism and 100 hp exhaust fan;
- G. Dust suppressant system (B1-DS1) using treated water sprays or lime slurry with 10 hp pump and two lime slurry storage tanks;
- H. Two lime slurry tanks with two 15 hp pumps, shared alternately with dust suppressant system (B1-DS1);
- I. Four compartment surge bin with dust control ventilation by fabric collector (B2-DC2);
- J. Top silo fabric dust collector (B2-DC2) with 96-4.75 in. dia. by 10 ft. long polyester filter tubes, pulse jet cleaning mechanism and 15 hp exhaust fan;
- K. Four vibrating feeders (B3-VF1, VF2, VF3, and VF4) with dust collection by fabric collectors (B3-DC1, C3-DC1) and dust suppression by spray system (B1-DS1);
- L. Belt conveyor (B3-BC1) with dust collection by fabric collectors (B3-DC1, C3-DC1) and dust suppression by spray system (B1-DS1);
- M. Bottom silo, fabric dust collector (B3-DC1) with 144-4.75 in dia. by 10 ft. long filter tubes, pulse jet cleaning mechanism and 40 hp exhaust fan;
- N. Two diverter gates (B3-DG1,2);
- O. Stacking conveyor belt (B5-BC1) with dust control ventilation by fabric collector (B3-DC2);
- P. Fabric dust collector (B3-DC2) with 234-4.75" dia. by 10 ft. long polyester filter tubes, pulse jet cleaning mechanism and 40 hp exhaust fan; and
- Q. Radial stacker conveyor, (B5-TS1, inside limestone storage building) with dust control ventilation by fabric collector (C2-DC1). (EU 022)

Emission Unit 001 Permit Conditions

**OPERATIONAL CONDITIONS:**

1. Quarry drilling equipment shall be equipped with water injection or fabric collectors. (Rule 210.1)
2. Quarry shall be equipped with dust suppressant spray system or utilize water spray truck at all fugitive dust sources. (Rule 210.1)
3. Visible emissions from any single emission point shall be less than 10% opacity. (Rule 422)
4. Material collected in dust collector shall be disposed of in manner preventing entrainment in atmosphere. (Rules 209 and 210.1)
5. Water sprays shall be operational and shall be located as described in equipment description. (Rule 210.1 BACT Requirement)
6. Lime slurry obtained from off-site sources shall be used only as wetting agent to prevent fugitive dust emissions from sources described in Equipment Description, and in quantity not to exceed average daily rate of 25 tons per day on monthly basis. Slurry shall originate from softening municipal water only without prior District approval. (Rule 209 and per application)
7. Compliance with all operational conditions shall be verified by appropriate record keeping, including, hours of operations and corresponding process rates. Such records shall be kept on site in readily available format.

**COMPLIANCE TESTING REQUIREMENTS:**

Should visible emissions indicate non-compliance with dust collector emission limits, compliance with hourly and concentration emission limits for particulates shall be verified pursuant to Rule 108.1 and District Guidelines for Compliance Testing, within 30 days of District request. (Rule 108.1)

**EMISSION LIMITS:**

Maximum emission rate of each air contaminant from this emission unit shall not exceed following limits:

**Particulate Matter:**

All Fabric Collectors:	0.015	grains/scf (of PM) (Rule 404.1)
Fabric Collector B2-DC1:	3.99	lb/hr (of PM <sub>10</sub> )
	95.66	lb/day (of PM <sub>10</sub> )
Fabric Collector B2-DC2:	0.64	lb/hr (of PM <sub>10</sub> )
	15.43	lb/day (of PM <sub>10</sub> )
Fabric Collector B3-DC1:	1.16	lb/hr (of PM <sub>10</sub> )
	27.77	lb/day (of PM <sub>10</sub> )
Fabric Collector B3-DC2:	1.80	lb/hr (of PM <sub>10</sub> )
	43.20	lb/day (of PM <sub>10</sub> )

(Emission limits established pursuant to Rule 210.1, unless otherwise noted.)

California Portland Cement Company  
Permit No. 1003-V-2011

Compliance with maximum daily emission limits shall be verified by source operator (with appropriate operational data and record keeping to document maximum daily emission rate) each day source is operated and such documentation of compliance shall be retained and made readily available to District for period of five years. (Rules 201.1, 209 and 210.1)

Emission Unit 004 Permit Conditions

<u>Facility Number</u>	<u>Emissions Unit</u>	<u>Description of Source</u>
1003	004	D-3 Finish Mill

**Emission Unit Equipment Description/Permit Conditions**

**Federally Enforceable Conditions**

**EQUIPMENT DESCRIPTION:** D-3 Finish Mill, including following equipment:

1. 32 proportioning silos served by four fabric collectors (D3-DC2, D3-DC3, D3-DC4, and D3-DC5);
2. Conveying equipment from clinker & gypsum storage served by four fabric collectors with pulse jet cleaning mechanism (D3-DC8 and D3-DC1), shared with finish mills 1-5, EUs 1003017D and 1003055-058 and one fabric collector (D3-1-DC2) with 1433 sq.ft. filter area and 6000 cfm volumetric flow;
3. Three finish grinding mills (D3-1-M1, D3-1-M2, and D3-1-M3);
4. Three bottom removal fabric collectors (D3-1-M1-DC1, D3-1-M2-DC1, and D3-1-M3-DC1) each with 3688 sq. ft. filter area, 16,500 cfm, with reverse jet cleaning mechanism each serving mills D3-1-M1, 'M2, and M3 (respectively);
5. Fabric collector (D3-1-DC1) with 1664 filter bags, with 350-hp fan, 72,000 cfm @ 19 in w.c., serving separator;
6. Two finish grinding mills (D3-1-M4 and D3-1-M5); and
7. Fabric collectors (D3-M4-DC1 and D3-M5-DC1) each with 3,100 sq. ft. filter area, 12,000 cfm, with reverse pulse-jet cleaning mechanism each serving mills D3-1-M4, and D3-1-M5 .

**OPERATIONAL CONDITIONS:**

1. Exhaust stack shall be equipped with adequate provisions facilitating collection of samples consistent with EPA test methods, i.e. capped sample port in accessible location of uniform flow. (Rule 108.1)
2. Each fabric collector shall be equipped with operational pressure differential indicator. (Rule 210.1)
3. Particulate matter emissions from any single source operation shall be no more than 0.1-gr/scf. (Rule 404.1)
4. Visible emissions from all emission points shall not exhibit or exceed 10% opacity. (Rule 422, 40 CFR 60 Subpart F)
5. Fabric dust collectors shall be in operation when associated equipment is operated. (Rule 210.1)
6. All piping, ducting, and connections shall be leak-tight and shall have no visible emissions. (Rule 210.1)
7. Visible emissions from fabric collectors D3-1-DC2, D3-M4-DC1, and D3-M5-DC1 shall be less than 5% opacity. (Rule 210.1 BACT Requirement)
8. Material collected in fabric dust collectors shall be disposed of in manner preventing entrainment in atmosphere. (Rule 210.1)
9. Mill maximum process weight rates shall not exceed 150 tons/hour. (Rule 210.1)

Emission Unit 004 Permit Conditions

10. Equipment shall be maintained according to manufacturer's specifications. (Rules 210.1 and 209)
11. Compliance with all operational conditions shall be verified by appropriate record keeping, including records of operational data needed to demonstrate compliance. Such records shall be kept on site in readily available format. (Rule 210.1)
12. Emission from use of this equipment shall not cause injury, detriment, nuisance, annoyance to or endanger comfort, repose, health, or safety of any considerable number of persons or public. (Rule 419 and CH&SC, Sec 41700)

**STATE OF CALIFORNIA AIR TOXICS HOT SPOTS REQUIREMENTS:**

Facility shall comply with California Health and Safety Code, Sections 44300 through 44384. (Rule 208.1)

**COMPLIANCE TESTING REQUIREMENTS:**

Should inspection reveal conditions indicative of non-compliance, compliance with fabric collector emission limitations shall be verified, within 60 days of District request. (Rule 108.1)

**EMISSION LIMITS:**

Maximum emission rate of each air contaminant from this emission unit shall not exceed following limits:

**Particulate Matter:**

Fabric Collector (D3-DC8):	0.075	grains/scf
	3.86	lb/hr
	92.57	lb/day
	15.57	ton/yr
Fabric Collector (D3-DC1):	0.075	grains/scf
	3.86	lb/hr
	92.57	lb/day
	15.57	ton/yr
Fabric Collector (D3-1-DC2):	0.010	grains/scf
	0.51	lb/hr
	12.34	lb/day
	2.08	ton/yr
Fabric Collector (D3-1-M1-DC1):	0.008	grains/scf
	0.72	lb/hr
	17.16	lb/day
	2.89	ton/yr



Emission Unit 004 Permit Conditions

**Particulate Matter:**

Fabric Collector (D3-1-M2-DC1): 0.008 grains/scf  
0.72 lb/hr  
17.16 lb/day  
2.89 ton/yr

Fabric Collector (D3-1-M3-DC1): 0.008 grains/scf  
0.72 lb/hr  
17.16 lb/day  
2.89 ton/yr

Fabric Collector (D3-1-DC1): 0.008 grains/scf  
3.93 lb/hr  
94.30 lb/day  
15.86 ton/yr

Fabric Collector (D3-M4-DC1): 0.010 grains/scf  
1.03 lb/hr  
24.69 lb/day  
4.15 ton/yr

Fabric Collector (D3-M5-DC1): 0.010 grains/scf  
1.03 lb/hr  
24.69 lb/day  
4.15 ton/yr

(Emission limits established pursuant to Rule 210.1, unless otherwise noted.)

Compliance with maximum daily emission limits shall be verified by source operator (with appropriate operational data and record keeping to document maximum daily emission rate) each day source is operated and such documentation of compliance shall be retained and made readily available to District for period of five years. (Rules 201.1, 209 and 210.1)

Emission Unit 010 Permit Conditions

<u>Facility Number</u>	<u>Emissions Unit</u>	<u>Description of Source</u>
1003	010	Coal Supply System

**Emission Unit Equipment Description/Permit Conditions**

**Federally Enforceable Conditions**

**EQUIPMENT DESCRIPTION:** Coal Supply System, including following equipment:

- A. Two rail car receiving hoppers with undergrate and vibrating feeder sprays;
- B. Two vibrating feeders;
- C. Seven material transfer conveyors;
- D. Concrete storage silo with bin vent filter;
- E. Coke truck receiving (no dust control provisions);
- F. Rotary crusher with dust collector; and
- G. Pre-heater/pre-calciner coal mill system including the following:
  - 1. Roller mill with motors totaling 200-hp;
  - 2. Dynamic separator with 40-hp motor;
  - 3. Dense phase pressure pot;
  - 4. Surge bin;
  - 5. Pneumatic conveying system including compressor with 220-hp motor;
  - 6. Fabric collector (H7-6-CM2-DC1) with 125-hp exhaust fan; and
  - 7. Receiver fabric collector.

**OPERATIONAL CONDITIONS:**

- 1. Fabric collector shall be equipped with operational differential pressure indicator. (Rule 210.1)
- 2. Fabric collector shall be equipped with pulse-jet cleaning mechanism. (Rule 210.1)
- 3. Particulate matter emissions from any single source operation shall be no more than 0.1-gr/scf. (Rule 404.1)
- 4. Sufficient moisture shall be applied to prevent coal and/or petroleum coke from exhibiting visible emissions. (Rule 210.1)
- 5. Visible emissions from coal/coke storage shall not exceed 10% opacity. (Rule 422, Subpart F)
- 6. Particulate matter emissions from roller mill fabric collector (H7-6-CM2-DC1) and receiver fabric collector exhaust shall not exceed 0.005-gr/scf. (Rule 210.1 BACT Requirement)
- 7. Fabric collector (H7-6-CM2-DC1) and receiver fabric collector shall have no visible emissions. (Rule 210.1 BACT Requirement)
- 8. Fabric collector (H7-6-CM2-DC1) volumetric exhaust flow rate shall not exceed 15,000 standard cubic feet per minute (scfm). (Rule 210.1)
- 9. Receiver fabric collector volumetric exhaust flow rate shall not exceed 600 standard cubic feet per minute (scfm). (Rule 210.1)
- 10. Fabric dust collector and shall be in operation when associated equipment is operated. (Rule 210.1)
- 11. All piping, ducting, and connections shall be leak-tight and have no visible emissions. (Rule 210.1)
- 12. All conveyors transporting dried material shall be covered, leak-tight, and have no visible emissions. (Rule 210.1)

Emission Unit 010 Permit Conditions

13. Material collected in fabric dust collectors shall be disposed of in manner preventing entrainment in atmosphere. (Rule 210.1)
14. Equipment shall be maintained according to manufacturer's specifications. (Rules 210.1 and 209)
15. Compliance with all operational conditions shall be verified by appropriate record keeping, including records of operational data needed to demonstrate compliance. Such records shall be kept on site in readily available format. (Rule 210.1)
16. Emission from use of this equipment shall not cause injury, detriment, nuisance, annoyance to or endanger comfort, repose, health, or safety of any considerable number of persons or public. (Rule 419 and CH&SC, Sec 41700)

**STATE OF CALIFORNIA AIR TOXICS HOT SPOTS REQUIREMENTS:**

Facility shall comply with California Health and Safety Code Sections 44300 through 44384. (Rule 208.1)

**COMPLIANCE TESTING REQUIREMENTS:**

Should inspection reveal conditions indicative of non-compliance, compliance with any emission limitations shall be verified, within 60 days of District request. Test results shall be submitted to District within 30 days after test completion. (Rule 108.1 and 210.1)

**EMISSION LIMITS:**

Maximum emission rate of each air contaminant from this emission unit shall not exceed following limits:

**Particulate Matter (PM<sub>10</sub>):**

Coal Unloading and Storage:	0.10	lb/hr
	2.32	lb/day
	0.42	ton/yr
Fabric Collector (H7-6-CM2-DC1):	0.005	gr/scf (Rule 210.1 BACT Requirement)
	0.64	lb/hr
	15.43	lb/day
	2.82	ton/yr
Receiver Fabric Collector:	0.005	gr/scf (Rule 210.1 BACT Requirement)
	0.03	lb/hr
	0.62	lb/day
	0.11	

(Emission limits established pursuant to Rule 210.1, unless otherwise noted.)

California Portland Cement Company  
Permit No. 1003-V-2011

#### Emission Unit 010 Permit Conditions

Compliance with maximum daily emission limits shall be verified by source operator (with appropriate operational data and record keeping to document maximum daily emission rate) each day source is operated and such documentation of compliance shall be retained and made readily available to District for period of five years. (Rules 201.1, 209 and 210.1)

Emission Unit 016 Permit Conditions

<u>Facility Number</u>	<u>Emissions Unit</u>	<u>Description of Source</u>
1003	016	Clinker & Additive Storage Operation

**Emission Unit Equipment Description/Permit Conditions**

**Federally Enforceable Conditions**

**EQUIPMENT DESCRIPTION:** Clinker & Additive Storage Operation, including following equipment:

- A. Clinker storage building with clinker and additive bins;
- B. Clinker discharge ladder chute with dust control ventilation by dust collector (H2-6-DC4) with 121 - 5 in. dia. by 8 ft. long filter tubes and reverse pulse jet cleaning mechanism;
- C. Two overhead cranes;
- D. Additives unloading hopper;
- E. Conveyors with covers served by fabric collector (D3-DC9-A) and fabric collector (D3-DC9); and
- F. Movable tripper for transferring additives into storage building.

**OPERATIONAL CONDITIONS:**

- 1. Exhaust stack shall be equipped with adequate provisions facilitating collection of samples consistent with U. S. EPA test methods, i.e. capped sample ports in accessible location of uniform flow. (Rule 108.1)
- 2. Dust collectors shall be equipped with operational pressure differential indicators. (Rule 210.1)
- 3. Material collected in dust collector shall be disposed of in manner preventing entrainment in atmosphere. (Rules 209 and 210.1)
- 4. Visible emissions from clinker storage shall not exceed 10% opacity during normal operation. (Rule 422, 40 CFR 60, Subpart F)
- 5. Clinker storage pile(s) constructed for outside storage separate from clinker storage building shall be covered with tarp or similar material at end of active addition to or removal of clinker from pile(s). (Rule 210.1 BACT Requirement)
- 6. Equipment shall be maintained according to manufacturer's specifications to ensure compliance with emissions limitations. (Rules 210.1)
- 7. No emission resulting from use of this equipment shall cause injury, detriment, nuisance, annoyance to or endanger comfort, repose, health, or safety of any considerable number of persons or public. (Rule 419 and CH&SC, Sec 41700)
- 8. Compliance with all operational conditions shall be verified by appropriate record keeping, including records of operational data needed to demonstrate compliance. Such records shall be kept on site in readily available format. (Rule 210.1)

Emission Unit 016 Permit Conditions

**EMISSION LIMITS:**

Maximum emission rate of each air contaminant from this emission unit shall not exceed following limits:

**Particulate Matter (PM<sub>10</sub>):**

From H2-6-DC4:	0.01	grains/scf
	1.03	lb/hr
	24.69	lb/day
	4.51	ton/yr
Clinker Handling:	2.59	lb/hr
	62.03	lb/day
	11.32	ton/yr
Clinker Storage Fugitive Emissions:	0.02	lb/hr
	0.55	lb/day
	0.10	ton/yr

(Emission limits established pursuant to Rule 210.1, unless otherwise noted.)

Compliance with maximum daily emission limits shall be verified by source operator (with appropriate operational data and record keeping to document maximum daily emission rate) each day source is operated and such documentation of compliance shall be retained and made readily available to District for period of five years. (Rules 201.1, 209 and 210.1)

Emission Unit 017 Permit Conditions

<u>Facility Number</u>	<u>Emissions Unit</u>	<u>Description of Source</u>
1003	017	Finish Grinding Operation #1

**Emission Unit Equipment Description/Permit Conditions**

**Federally Enforceable Conditions**

**EQUIPMENT DESCRIPTION:** Finish Grinding Operation #1, including following equipment:

- A. Conveying equipment from clinker and gypsum bins and transfer points to existing belt (D3-BC1) with four pulse jet cleaning mechanism, insertable collectors ( FOW-1-DC and FOW-2-DC1) shared with finish mills 1-5, EUs 1003017D and 1003055-058 and (FOW-3-DC1 and FOW-6-DC1) shared with finish mills 1-5, EUs 1003017D and 1003055-058 and finish mills 1-3, EU 1003004A, each with 5-hp fan;
- B. Finish mill D3-F1 with fabric collector (FM-1-DC1) with 240 - 5.875 in. dia. by 10 ft. long polyester filter tubes, reverse pulse jet cleaning mechanism and 75 hp exhaust fan;
- C. Two separator assemblies;
- D. Conveying equipment with fabric collector (D3-F2-DC2);
- E. Conveying equipment with one fabric collector (D3-DC1) shared with finish mills 1-5, EUs 1003017D and 1003055-058;
- F. 36 cement storage silos with 18 interstices and four fabric collectors (D3-DC2, D3-DC3, D3-DC4, and D3-DC5) shared with EUs 1003017D and 1003055-059; and
- G. Conveyors with two fabric collectors (D3-DC6 and D3-DC7) shared between finish mills 1-6, EUs 1003017D and 1003055-059.

**OPERATIONAL CONDITIONS:**

- 1. Maximum process weight shall not exceed 25 tons per hour. (Rule 210.1)
- 2. Visible emissions from any single emission point shall be less than 20% opacity. (Rule 422)
- 3. Conveyor covers and elevator hoods shall be maintained. (Rule 209)
- 4. Material collected in dust collectors shall be disposed of in manner preventing entrainment in atmosphere. (Rules 209 and 210.1)
- 5. Fabric collectors shall have operational differential pressure indicators. (Rule 209)
- 6. Fabric collectors shall operate whenever associated equipment is operating. (Rule 209)

Emission Unit 017 Permit Conditions

**EMISSION LIMITS:**

Maximum emission rate of each air contaminant from this emission unit shall not exceed following limits:

**Particulate Matter (PM<sub>10</sub>):**

From FM-1-DC1:	0.02	gr/scr
	3.43	lb/hr
	82.29	lb/day

All Other Source Operations:      0.2    gr/scf (PM) (Rule 404.1)

(Emission limits established pursuant to Rule 210.1, unless otherwise noted.)

Compliance with maximum daily emission limits shall be verified by source operator (with appropriate operational data and record keeping to document maximum daily emission rate) each day source is operated and such documentation of compliance shall be retained and made readily available to District for period of five years. (Rules 201.1, 209, and 210.1)



Emission Unit 018 Permit Conditions

<u>Facility Number</u>	<u>Emissions Unit</u>	<u>Description of Source</u>
1003	018	Packhouse & Loading Facilities

**Emission Unit Equipment Description/Permit Conditions**

**Federally Enforceable Conditions**

**EQUIPMENT DESCRIPTION:** Packhouse & Loading Facilities, including following equipment:

- A. Twelve cement feed bins;
- B. Two rotary screens with two fabric collectors, PHI-DC-1 and PHI-DC-2;
- C. Four air slides with four fabric collectors, PHI-DC-3, PHI-DC-4, PHI-DC-5, PHI-DC-6;
- D. Conveyors;
- E. Three loading hoods with three fabric collectors, PH-I-N1-DC-1 (will be removed and replaced with item L and M), PH-I-N2-DC-1, and PH-I-N3-DC-1;
- F. Two truck vacuum cleaners (one spare);
- G. Fabric collector (PH-I-DC-7);
- H. Three screw conveyors (PH-S1, PH-S23, and PH-S-11) ventilated to both existing fabric collector (item I) and additional fabric collector (item G);
- I. Fabric collector (PH-E6-DC);
- J. Fabric collector (PH-E6-DC);
- K. Fabric collector (PH1-DC-2A);
- L. East Loadout Station fabric collector and fan (DCL CFM-470) (PH-N1-SP2, 5 hp);
- M. West Loadout Station fabric collector and fan (DCL CFM-470) (ph-n1-sp1, 5hp);
- N. East horizontal spout with self sealing discharge;
- O. West horizontal spout with self sealing discharge;
- P. Four manually operated rotary throttles for maintenance; and
- Q. Four air operated rotary throttles for product shut-off.

**OPERATIONAL CONDITIONS:**

- 1. Particulate matter emissions from new East and West Loadout Station fabric collectors shall not exceed 0.0075 grains per standard cubic feet for continuous operation. (Rule 210.1)
- 2. Fabric collectors shall be equipped with operational manometers. (Rule 210.1)
- 3. Visible emissions from any single emission point shall be less than 10% opacity. (Rule 422, Subpart F)
- 4. Particulate matter emissions from any single source operation shall be no more than 0.075 gr/scf. (Rule 210.1)
- 5. Material collected in dust collectors shall be disposed of in manner preventing entrainment in atmosphere. (Rules 209 and 210.1)

Emission Unit 018 Permit Conditions

- 6. Truck vacuuming equipment shall be maintained. (Rule 210.1)
- 7. Conveyors shall be equipped with covers, screen covers, and elevator hoods. (Rule 210.1)
- 8. Covers, screen covers, and elevator hoods shall be maintained without holes. (Rule 210.1)

**STATE OF CALIFORNIA AIR TOXICS HOT SPOTS REQUIREMENTS:**

Facility shall comply with California Health and Safety Code, Sections 44300 through 44384. (Rule 208.1)

**COMPLIANCE TESTING REQUIREMENTS:**

Should inspection reveal conditions indicative of non-compliance, compliance with hourly and concentration emission limits shall be verified pursuant to Rule 108.1 and District Guidelines for Compliance Testing, within 30 days of District request. (Rule 108.1)

**EMISSION LIMITS:**

Maximum emission rate of each air contaminant from this emission unit shall not exceed following limits:

**Particulate Matter (PM<sub>10</sub>):**

East Load-Out Station Fabric Collection PH-N1-Sp2:	0.09	lb/hr
	2.16	lb/day
	0.39	ton/yr
West Load-Out Station Fabric Collection PH-N1-Sp1:	0.12	lb/hr
	2.78	lb/day
	0.51	ton/yr
Fabric Collector PHI-DC-1:	2.14	lb/hr
	51.43	lb/day
	8.02	ton/yr
Fabric Collector PHI-DC-2:	2.14	lb/hr
	51.43	lb/day
	8.02	ton/yr
Fabric Collector PHI-DC-3:	1.07	lb/hr
	25.71	lb/day
	4.01	ton/yr
Fabric Collector PHI-DC-4:	1.07	lb/hr
	25.71	lb/day
	4.01	ton/yr

Emission Unit 018 Permit Conditions

**Particulate Matter (PM<sub>10</sub>):**

Fabric Collector PHI-DC-5:	1.07	lb/hr
	25.71	lb/day
	4.01	ton/yr
Fabric Collector PHI-DC-6:	1.07	lb/hr
	25.71	lb/day
	4.01	ton/yr
Fabric Collector PH-I-N2-DC-1:	2.14	lb/hr
	51.43	lb/day
	8.02	ton/yr
Fabric Collector PH-I-N3-DC-1:	2.14	lb/hr
	51.43	lb/day
	8.02	ton/yr
Fabric Collector PH-I-DC-7:	2.14	lb/hr
	51.43	lb/day
	8.02	ton/yr
Fabric Collector PH-E6-DC:	9.86	lb/hr
	236.57	lb/day
	36.91	ton/yr
Fabric Collector PH-E6-DC-1:	4.97	lb/hr
	119.31	lb/day
	18.61	ton/yr
Fabric Collector PH-I-DC-2A:	5.66	lb/hr
	135.77	lb/day
	21.18	ton/yr

(Emission limits established pursuant to Rule 210.1, unless otherwise noted.)

Compliance with maximum daily emission limits shall be verified by source operator (with appropriate operational data and record keeping to document maximum daily emission rate) each day source is operated and such documentation of compliance shall be retained and made readily available to District for period of five years. (Rules 201.1, 209, and 210.1)

**SPECIAL CONDITIONS:**

- aa) Owner/operator shall remove fabric collector PH1-N1-DC1 from service prior to operation of new fabric collectors, DCL CFM-470. (Rule 210.1)
- bb) No emission reduction shall be obtained for the shutdown and removal of fabric collector PH1-N1-DC1. (Rules 201.3 and 210.1)

Emission Unit 020 Permit Conditions

<u>Facility Number</u>	<u>Emissions Unit</u>	<u>Description of Source</u>
1003	020	Gasoline Storage & Dispensing System

**Emission Unit Equipment Description/Permit Conditions**

**Federally Enforceable Conditions**

**EQUIPMENT DESCRIPTION:** Gasoline Storage & Dispensing System, including following equipment:

- A. 1 – 5,000 gallon regular unleaded aboveground gasoline storage tank with a permanently affixed fill tube terminating no more than six inches from bottom of tank and provisions for collection of gasoline vapors during filling;
- B. Phase I (Filling of storage tank) 2-point vapor collection system including separate vapor riser with:
  - 1. Liquid Fill Adapter
  - 2. Liquid Fill Cap
  - 3. Vapor Adapter
  - 4. Vapor Cap
  - 5. Drop Tube
  - 6. Pressure Vacuum Relief Valve
  - 7. Overfill Protection
- C. One Fill-Rite dispenser equipped with one nozzle for total of 1 coaxial balance type certified vapor recovery nozzle;
- D. Balance type Phase II (Refueling of motor vehicles) gasoline vapor control system, including:
  - 1. Nozzle
  - 2. Swivel
  - 3. Flow Limiter
  - 4. Vapor Check Valve
  - 5. Coaxial Hose
  - 6. Breakaway Fitting
  - 7. Dispenser

**OPERATIONAL CONDITIONS:**

- 1. Storage/dispensing facility shall be equipped with California Air Resources Board "certified" Phase I (filling of storage tanks) and Phase II (fueling of vehicle) gasoline vapor control systems. (Rules 209, 412 and 412.1)
- 2. Gasoline storage tanks shall be equipped with two-point Phase I vapor control system. (Rule 412)
- 3. Tank shall be equipped with pressure/vacuum relief valve set to within 10% of maximum working pressure of tank. (Rule 412)

Emission Unit 020 Permit Conditions

4. Vapor control system shall be of California Air Resources Board (CARB) certified design and installed, operated, and maintained in accordance with manufacturer's recommendation to prevent at least 95% by weight of all gasoline vapors from entering atmosphere. (Rules 209, 412, and 412.1)
5. All Phase I (filling of storage tank) vapor collection equipment shall be used when tanks are filled. (Rules 209 and 412)
6. Phase II (filling of vehicle tank) vapor collection equipment shall be maintained according to manufacturer's recommendations and used when vehicles tanks are filled. (Rules 209 and 412)
7. Gasoline flow through any nozzle shall not exceed 10 gallons per minute. (Rule 412.1)
8. No emission resulting from use of this equipment shall cause injury, detriment, nuisance, annoyance to or endanger comfort, repose, health, or safety of any considerable number of persons or public. (Rule 419 and CH&SC Sec 41700)
9. Retail stations shall post following: Illustrated instructions for dispensing fuel to vehicle; warning that topping off is prohibited; and toll-free number for registering complaints regarding operation of vapor recovery system. (Rule 209)
10. Any tank with vapor recovery system having defect shall not be operated until defect has been repaired, replaced, or adjusted as necessary to correct defect, and District has re-inspected system or has authorized its use pending re-inspection. All such defects shall be tagged "out of service" upon detection. (Rules 412 and 412.1)
11. All lines, fittings, adapters, caps, and connections shall be maintained leak-free. (Rule 412.1)
12. Tanks shall be equipped with permanently submerged fill pipe terminating no more than six inches from bottom of tank. (Rule 412)

**STATE OF CALIFORNIA AIR TOXICS HOT SPOTS REQUIREMENTS:**

Facility shall comply with California Health and Safety Code, Sections 44300 through 44384. (Rule 208.1)

**COMPLIANCE TESTING REQUIREMENTS:**

Should inspection reveal conditions indicative of non-compliance, compliance with hourly and concentration emission limits shall be verified pursuant to Rule 108.1 and District Guidelines for Compliance Testing, within 30 days of District request. (Rule 108.1)

**SPECIAL CONDITIONS:**

- aa. Gasoline usage for gasoline storage tanks shall not exceed 72,000 gallons per year without prior District approval. (Rule 210.1)
- bb. Vapor-return and/or vapor control systems shall comply with all safety, fire, weights and measures, and other applicable codes and/or regulations. (Rule 412)
- cc. Equipment shall be installed and tested in accordance with attached CARB Executive Orders G-70-190, G-70-96-A, and G-70-52-AM. (Rule 412.1)
- dd. System and components shall be of California Air Resources Board "certified" design, any component changes shall be approved in advance by District. (Rule 412)

Emission Unit 021 Permit Conditions

<u>Facility Number</u>	<u>Emissions Unit</u>	<u>Description of Source</u>
1003	021	Sampling System

**Emission Unit Equipment Description/Permit Conditions**

**Federally Enforceable Conditions**

**EQUIPMENT DESCRIPTION:** Sampling System, including following equipment:

- A. Primary sampler (B4-SX1);
- B. Sample feed belt conveyor (B4-BC1) with dust control ventilation by fabric collectors (B4-DC1 and B3-DC2);
- C. Surge bin (B4-B1) with dust control ventilation by fabric collector (B4-DC1);
- D. Vibrating feeder (B4-VF1) with dust control ventilation by fabric collector (B4-DC1);
- E. Hammer mill (B4-IC1) with dust control ventilation by fabric collector (B4-DC1);
- F. Cam belt conveyor (B4-BC3) with dust control ventilation by fabric collector (B4-DC1);
- G. Belt feeder (B4-BF1) with dust control ventilation by fabric collector (B4-DC1);
- H. Secondary sampler (B4-SX2);
- I. Manual diverter gate (B4-DG2) with chute exiting to three-sided bunker and water sprays at chute exit;
- J. Sample system fabric dust collector (B4-DC1) with 216 - 4.75 in. dia. by 10 ft. long polyester filter tubes, pulse jet cleaning mechanism, and 40 hp exhaust fan;
- K. Rotary splitter (B4-RF1);
- L. Vibrating mill (B4-PL1) with dust control ventilation by fabric collector (B4-DC2);
- M. Belt feeder (B4-BF2) with dust control ventilation by fabric collector (B4-DC2);
- N. Vibrating mill fabric dust collector (B4-DC2) with 16 - 4.5 in. dia. by 6 ft. long polyester filter tubes, pulse jet cleaning mechanism, and 3 hp exhaust fan;
- O. Tertiary sampler (B4-SX3);
- P. Sample return cam belt (B4-BC4) with dust control ventilation by fabric collectors (B4-DC2 and C3-DC1) shared with Emissions Unit (EU) 1003023; and
- Q. Diverter gate (B4-DG1).

**OPERATIONAL CONDITIONS:**

- 1. No more than 16 tons per hour shall be diverted to chute. (Rule 210.1)
- 2. Moisture content of material entering diverter chute shall not be less than 2.80% by weight. (Rule 210.1)
- 3. Water spray nozzles shall be periodically cleaned and maintained to ensure proper spray pattern. (Rule 210.1)
- 4. There shall be no visible emissions from diverter chute or chute exit to bunker. (Rule 210.1)
- 5. If material is stored in bunker, material shall be completely covered. (Rules 210.1)
- 6. Diverted material shall be used only as road covering material. (Rule 210.1)

Emission Unit 021 Permit Conditions

- 7. Water sprays shall be positioned at diverter chute exit to minimize visible emissions. (Rule 210.1)
- 8. Bunker shall be three-sided shall extend at least 6 inches above material in bunker to prevent wind erosion. (Rule 210.1)
- 9. Sampling system operation shall not exceed 2,100 hours per year. (Rule 210.1)

**EMISSION LIMITS:**

Maximum emission rate of each air contaminant from this emission unit shall not exceed following limits:

**Particulate Matter (PM<sub>10</sub>):**

Fabric Collector B4-DC1:	0.015	gr/scf
	1.67	lb/hr
	40.08	lb/day
	1.75	ton/yr
Fabric Collector B4-DC2:	0.015	gr/scf
	0.06	lb/hr
	1.44	lb/day
	0.06	ton/yr
Fabric Collector C3-DC1: (Shared with EU 1003001):	0.015	gr/scf
	1.67	lb/hr
	40.08	lb/day
	1.75	ton/yr

(Emission limits established pursuant to Rule 210.1, unless otherwise noted.)

Compliance with maximum daily emission limits shall be verified by source operator (with appropriate operational data and record keeping to document maximum daily emission rate) each day source is operated and such documentation of compliance shall be retained and made readily available to District for period of five years. (Rules 201.1, 209, and 210.1)

Emission Unit 022 Permit Conditions

<u>Facility Number</u>	<u>Emissions Unit</u>	<u>Description of Source</u>
1003	022	Limestone Storage & Reclaim System

**Emission Unit Equipment Description/Permit Conditions**

**Federally Enforceable Conditions**

**EQUIPMENT DESCRIPTION:** Limestone Storage & Reclaim System, including following equipment:

- A. Blend rock storage pile enclosed by dust control ventilated structure;
- B. Storage pile structure fabric dust collector (C2-DC1) with 252 - 4.75 in. dia. by 10 ft. long polyester filter tubes, pulse jet cleaning mechanism, and 60-hp exhaust fan;
- C. Storage pile reclaim hopper (C2-HOP1);
- D. Storage pile reclaim vibrating feeder (C2-VF1) with dust control ventilation by fabric collector (C2-DC2A);
- E. Tunnel reclaim fabric dust collector (C2-DC2A) with 55 - 4.5 in. dia. by 6 ft. long polyester filter tubes, pulse jet cleaning mechanism, and 15 hp exhaust fan shared by fabric collector (C2-DC2B);
- F. Traveling radial reclaim (C2-RC1);
- G. Limestone reclaim belt conveyor (C2-BC1) with dust control ventilation by fabric collectors (C2-DC2A and DC2B);
- H. Emergency manual reclaim hopper (C2-HOP2);
- I. Manual reclaim vibrating feeder (C2-VF2) with dust control ventilation by fabric collector (C2-DC2B);
- J. Manual reclaim fabric dust collector (C2-DC2B) with 55 - 4.5 in. dia. by 6 ft. long polyester filter tubes, pulse jet cleaning mechanism, and 15 hp exhaust fan shared by fabric collector (C2-DC2A);
- K. Diverter gate (C2-DG1) to ball mill storage or additive emergency storage system;
- L. Roller mill storage feed belt conveyor (C2-BC2) with dust control ventilation by fabric collectors (C2-DC3 and C2-DC4);
- M. Reclaim fabric dust collector (C2-DC3) with 64 - 4.75 in. dia. by 10 ft. long polyester filter tubes, pulse jet cleaning mechanism, and 15 hp exhaust fan;
- N. Diverter gate (C2-DG2) to roller mill storage silo and roller mill feed belt conveyor;
- O. Roller mill storage feed belt conveyor (C2-BC3) with dust control ventilation by fabric collector (C2-DC4); and
- P. Roller mill silo fabric dust collector (C2-DC4) with 128 - 4.75 in. dia. by 10 ft. long polyester filter tubes, pulse jet cleaning mechanism, and 25 hp exhaust fan.

**OPERATIONAL CONDITIONS:**

- 1. Visible emissions from any single emission point shall be less than 10% opacity. (Rule 422, 40 CFR 60 Subpart F)
- 2. Material removed from fabric dust collectors shall be returned to product stream. (Rule 210.1)
- 3. Fabric dust collectors shall have operational differential pressure indicators. (Rule 210.1)



Emission Unit 022 Permit Conditions

4. Emergency manual reclaim hopper shall be operated only if an adequate water spray system is made available as necessary or if emergency variance is obtained from District Hearing Board. (Rule 210.1)
5. This system shall not have fugitive particulate sources. (Rule 210.1)
6. Fabric collectors (except for C2-DC1) serving limestone storage and reclaim system shall not be operated more than 7,231 hours per year. (Rule 210.1)

**EMISSION LIMITS:**

Maximum emission rate of each air contaminant from this emission unit shall not exceed following limits:

**Particulate Matter (PM<sub>10</sub>):**

Fabric Collector C2-DC1:	0.015	gr/scf
	3.86	lb/hr
	92.64	lb/day
	16.91	ton/yr
Fabric Collector C2-DC2:	0.015	gr/scf
	0.52	lb/hr
	12.48	lb/day
	1.88	ton/yr
Fabric Collector C2-DC3:	0.015	gr/scf
	0.51	lb/hr
	12.24	lb/day
	1.84	ton/yr
Fabric Collector C2-DC4:	0.015	gr/scf
	0.96	lb/hr
	23.04	lb/day
	3.47	ton/yr

(Emission limits established pursuant to Rule 210.1, unless otherwise noted.)

Compliance with maximum daily emission limits shall be verified by source operator (with appropriate operational data and record keeping to document maximum daily emission rate) each day source is operated and such documentation of compliance shall be retained and made readily available to District for period of five years. (Rules 201.1, 209, and 210.1)

Emission Unit 023 Permit Conditions

<u>Facility Number</u>	<u>Emissions Unit</u>	<u>Description of Source</u>
1003	023	Additives System

**Emission Unit Equipment Description/Permit Conditions**

**Federally Enforceable Conditions**

**EQUIPMENT DESCRIPTION:** Additives System, including following equipment:

- A. Additives receiving hopper (C4-HOP1) with partially enclosed truck and rail car dump station with water spray dust suppressant system;
- B. Under hopper belt feeder (C4-BF1) equipped with treated water spray dust suppressant system (B1-DS1);
- C. Take-away belt conveyor (C4-BC1) with dust control ventilation by fabric collectors (C4-DC1, C4-DC2), and dust suppression by treated water spray system (B1-DS1);
- D. Water dust suppression spray system connected to spray system (B1-DS1) of primary crusher area;
- E. Additives unloading fabric dust collector (C4-DC1) with 96 - 4.75 in. dia. by 10 ft. long polyester filter tubes, pulse jet cleaning mechanism, and 20 hp exhaust fan;
- F. Additives unloading fabric dust collector (C4-DC2) with 16 - 4.5 in. dia. by 8 ft. long polyester filter tubes, pulse jet cleaning mechanism, and 3 hp exhaust fan;
- G. Diverter gate (C4-DG1) to emergency storage or roller mill storage silos;
- H. Roller mill storage silos belt conveyor (C3-BC1) with dust control ventilation by fabric collectors (C3-DC1 and C3-DC2);
- I. Conveying transfer fabric dust collector (C3-DC1) with 216 - 4.75 in. dia. by 10 ft. long polyester filter tubes, pulse jet cleaning mechanism, and 40 hp exhaust fan;
- J. Turn head (C3-THD1) serving 6 roller mill storage silos (C3-S1 through C3-S6);
- K. Diverter gate (C3-DG1) to interstice silica storage silos east and west (C3-S5 and S6);
- L. Silo transport conveyor belt (C3-BC2) with dust control ventilation by fabric collector (C3-DC2);
- M. Silo fabric dust collector (C3-DC2) with 252 - 4.75 in. dia. by 10 ft. long polyester filter tubes, pulse jet cleaning mechanism, and 40 hp exhaust fan;
- N. Emergency stacker (B5-ST2) with dust control ventilation at loading by fabric collector (B5-DC1); and
- O. Emergency fabric dust collector (B5-DC1) with 49-4.5-in. dia. by 10-ft. long polyester filter tubes, pulse jet cleaning mechanism, and 7.5-hp exhaust fan.

**OPERATIONAL CONDITIONS:**

- 1. Visible emissions from any single emission point shall be less than 10% opacity. (Rule 422, 40 CFR 60 Subpart F)
- 2. Material removed from fabric dust collectors shall be returned to product stream. (Rule 210.1)
- 3. Fabric dust collectors shall have operational differential pressure indicators. (Rule 210.1)

Emission Unit 023 Permit Conditions

- 4. Emergency stacker (B5-ST2) shall be operated only if an adequate water spray system is made available as necessary or if emergency variance is obtained from District Hearing Board. (Rule 210.1)
- 5. This system shall not have fugitive particulate sources. (Rule 210.1)
- 6. Operation of additives system shall not exceed 3,692 hours per year. (Rule 210.1)

**EMISSION LIMITS:**

Maximum emission rate of each air contaminant from this emission unit shall not exceed following limits:

**Particulate Matter (PM<sub>10</sub>):**

Fabric Collector C4-DC1:	0.015 gr/scf
	0.77 lb/hr
	18.48 lb/day
	1.42 ton/yr
Fabric Collector C4-DC2:	0.015 gr/scf
	0.08 lb/hr
	1.92 lb/day
	0.15 ton/yr
Fabric Collector C3-DC1: (shared with EUs 1003001 and 021)	0.015 gr/scf
	1.67 lb/hr
	40.08 lb/day
	3.08 ton/yr
Silo Fabric Collector C3-DC2:	0.015 gr/scf
	2.06 lb/hr
	49.44 lb/day
	3.80 ton/yr
Emergency Fabric Collector B5-DC1:	0.015 gr/scf
	0.32 lb/hr
	7.68 lb/day
	0.59 ton/yr

(Emission limits established pursuant to Rule 210.1, unless otherwise noted.)

Compliance with maximum daily emission limits shall be verified by source operator (with appropriate operational data and record keeping to document maximum daily emission rate) each day source is operated and such documentation of compliance shall be retained and made readily available to District for period of five years. (Rules 201.1, 209, and 210.1)

Emission Unit 024 Permit Conditions

<u>Facility Number</u>	<u>Emissions Unit</u>	<u>Description of Source</u>
1003	024	Roller Mill System

**Emission Unit Equipment Description/Permit Conditions**

**Federally Enforceable Conditions**

**EQUIPMENT DESCRIPTION:** Roller Mill System, including following equipment:

- A. Eight storage silos: two blend rock (C2-S1 and S2) and six proportioning silos (C3-S1, S2, S3, S5, and S6) containing following raw and processed materials:
  - 1. Raw materials - earthen materials rich in oxides of calcium, alumina, iron, silica; and
  - 2. Processed materials - gold mine tailings, mill scale, and fluid catalytic cracking operation catalyst fines, or copper slag material recycled after use as sandblast agent.
- B. Four vibrating feeders (D2-6-VF1, VF2, VF3, and VF4) with dust control ventilation by fabric collector (D2-6-DC1);
- C. Four vibrating feeders (C5-VF1 thru VF4) with dust control ventilation by fabric collector (C5-DC1A);
- D. Seven material reclaim weight feeders (D2-6-WF1 - WF7) and screw conveyor (D2-6-SC1 - SC7), one for each silo except north blend rock silo, with dust control ventilation at loading by fabric collectors (D2-6-DC1A, DC1B, and DC1C);
- E. Seven material reclaim weigh feeders and screw conveyors (C5-WF1 thru WF7) for: north blend rock, high alumina shale, shale, iron, magnesite, interstice silica west, interstice silica east, all with dust control ventilation fabric collectors (C5-DC1A, DC1B, and DC1C);
- F. Roller mill feed belt conveyor (D2-6-BC1) with dust control ventilation at loading by fabric collectors (D2-6-DC1A, DC1B, DC1C, and DC2);
- G. Material reclaim conveyor belt (C5-BC1) with control ventilation by fabric collectors (C5-DC1A, DC1B, and DC1C);
- H. Three reclaim fabric dust collectors (D2-6-DC1A, DC1B, and DC1C) each with 32 - 4.5 in. dia. by 10 ft. long polyester filter tubes, pulse jet cleaning mechanism, and one 25 hp exhaust fan serving all three dust collectors;
- I. Three reclaim fabric dust collectors (C5-DC1A, DC1B, and DC1C), each with 32 - 4.5 in. dia. by 10 ft. long polyester filter tubes, pulse jet cleaning mechanism, and one 25 hp exhaust fan serving all three dust collectors;
- J. Transfer point fabric dust collector (D2-6-DC2) with 64 - 4.75 in. dia. by 10 ft. long Rynoflex filter tubes, pulse jet cleaning mechanism, and one 7.5 hp exhaust fan;
- K. Reclaim transport conveyor belt (C5-BC2) with control ventilation by fabric collector (C5-DC2);
- L. Roller mill rotary feeder air lock (D2-6-RF1);
- M. Roller mill (D2-6-RM1) swept by hot gas from preheater exhaust heat exchanger (H4-6-HE1);
- N. Roller mill enclosed drag conveyor (D2-6-DRC1);
- O. Four product collection cyclones (D2-6-CC1);

Emission Unit 024 Permit Conditions

- P. Three air slides (D2-6-AS1, AS2, and AS3) with two blowers (D2-6-BL1 and BL2) and dust control ventilation at loading by fabric collector (D2-6-DC3);
- Q. Airslide fabric dust collector (D2-6-DC3) each with 96 - 4.75 in. dia. by 10 ft. long polyester filter tubes, pulse jet cleaning mechanism, and 20 hp exhaust fan;
- R. Sampling bucket elevator (D2-6-BE1) with sampling port box and dust control ventilation by homogenizing fabric collector (H4-6-DC1);
- S. Sampling air slide (D2-6-AS5) with dust control ventilation by homogenizing fabric collector (H4-6-DC1);
- T. Screw feeder (D2-6-SC8);
- U. Secondary sampler (D2060SZ2) with twin screw feeder (D2-6-SC9);
- V. Totally enclosed sample pulverizer (D2-6-PL1);
- W. Totally enclosed vibrating feeder (D2-6-VF5) with screw conveyor (D2-6-SC10);
- X. X-ray emission sampler (D2-6-XEC1);
- Y. Screw conveyor (D2-6-SC11);
- Z. Airslide (D2-6-AS4) with blower (F3-6-BL4) and dust control ventilation by homogenizing fabric collector (H4-6-DC1); and
- AA. Raw Mill Reject Recirculation System (new), including the following:
  - 1. Weigh belt feeder with 3-hp motor,
  - 2. Vibratory feeder with 1-hp motor,
  - 3. Small bucket elevator with 20-hp motor,
  - 4. Large bucket elevator with 40-hp motor, and

**OPERATIONAL CONDITIONS:**

- 1. Each fabric collector shall be equipped with operational differential pressure indicator. (Rule 210.1)
- 2. Each fabric collector shall be equipped with pulse-jet cleaning mechanism. (Rule 210.1)
- 3. Each fabric collector exhaust stack shall be equipped with adequate provisions facilitating collection of samples consistent with U.S. EPA test methods, i.e. capped sample ports in accessible location of uniform flow. (Rule 108.1)
- 4. Visible emissions from fabric collector shall not exceed 5% opacity. (Rule 210.1)
- 5. Fabric collectors shall be maintained in proper working order. (Rule 210.1)
- 6. Process shall not be operated unless emission control equipment is in operation. (Rules 210.1 and 209)
- 7. Material removed from dust collector(s) shall be disposed of in manner preventing entrainment in atmosphere. (Rule 210.1)
- 8. Bulk clinker storage bin shall be vented to dust collector. (Rule 210.1)
- 9. There shall be no fugitive emissions from any process or dust control equipment. (Rule 210.1)
- 10. Bulk clinker storage bin and connections shall be maintained "dust-tight"; equipment shall be maintained so as not to allow visible greater than 5% opacity or fugitive emissions. (Rules 210.1)
- 11. All ventilation ducts shall be equipped with pitot ports and shall be of "self-cleaning" configuration or shall be designed to maintain minimum transport velocity of 400 fpm. (Rule 210.1)
- 12. Each fabric collector of pulse jet cleaning type shall be equipped with differential pressure indicator and each fabric collector of reverse air cleaning type shall be equipped with differential pressure indicator on each compartment. (Rule 210.1)

Emission Unit 024 Permit Conditions

- 13. Each pulse jet fabric collector cleaning mechanism shall be provided with dry air supply of adequate volume and pressure. (Rule 210.1)
- 14. Collected fines shall be returned to product stream. (Rule 210.1)
- 15. Visible emissions from any single emission point shall be less than 10% opacity (Ringelmann ½). (Rule 422, Subpart F)
- 16. Operation of roller mill system shall not exceed 7,231 hours per year. (Rule 210.1)
- 17. No emission resulting from use of this equipment shall cause injury, detriment, nuisance, annoyance to or endanger comfort, repose, health, or safety of any considerable number of persons or public. (Rule 419 and CH&SC, Sec 41700)

**STATE OF CALIFORNIA AIR TOXICS HOT SPOTS REQUIREMENTS:**

Facility shall comply with California Health and Safety Code Sections 44300 through 44384. (Rule 208.1)

**COMPLIANCE TESTING REQUIREMENTS:**

Should inspection reveal conditions indicative of non-compliance, compliance with any emission limitations shall be verified, within 60 days of District request. Test results shall be submitted to District within 30 days after test completion. (Rule 108.1 and 210.1)

**EMISSION LIMITS:**

Emissions rate of each air contaminant from this unit shall not exceed following limits:

**Particulate Matter (PM<sub>10</sub>):**

Fabric Collector D2-6-DC1A, DC1B, and DC1C	0.015	gr/scf
	0.99	lb/hr
	23.76	lb/day
	3.58	tons/yr
Fabric Collector C5-DC1A, DC1B, and DC1C	0.015	gr/scf
	0.99	lb/hr
	23.76	lb/day
	3.58	tons/yr
Fabric Collector D2-6-DC2	0.015	gr/scf
	0.31	lb/hr
	7.44	lb/day
	1.12	tons/yr
Fabric Collector D2-6-DC3	0.015	gr/scf
	0.71	lb/hr
	17.04	lb/day
	2.57	tons/yr

Emission Unit 024 Permit Conditions

Fabric Collector C5-DC2	0.015	gr/scf
	0.51	lb/hr
	12.24	lb/day
	1.84	tons/yr
Fabric Collector C5-DC3	0.015	gr/scf
	0.51	lb/hr
	12.24	lb/day
	1.84	tons/yr
Fabric Collector CVT-3	0.002	gr/scf
	0.02	lb/hr
	0.49	lb/day
	0.09	tons/yr

(Emissions limits established pursuant to Rule 210.1, unless otherwise noted.)

Compliance with maximum daily emission limits shall be verified by source operator (with appropriate operational data and record keeping to document maximum daily emission rate) each day source is operated and such documentation of compliance shall be retained and made readily available to District for period of three years. (Rules 209 and 210.1)

Emission Unit 025 Permit Conditions

<u>Facility Number</u>	<u>Emissions Unit</u>	<u>Description of Source</u>
1003	025	Homogenizing & Kiln Feed System

**Emission Unit Equipment Description/Permit Conditions**

**Federally Enforceable Conditions**

**EQUIPMENT DESCRIPTION:** Homogenizing & Kiln Feed System, including following equipment:

- A. 2,000 ton homogenizing silo (F2-6-HS) and two compressors (F2-6-FC1 and FC2) with dust control ventilation by fabric collector (H4-6-DC1);
- B. Two storage silos, 3,300 ton and 6,700 ton capacity, (F3-6-KS1 and KS2) and two blowers (F3-6-BL1 and BL2) with dust control ventilation by fabric collector (H4-6-DC1);
- C. Four airslides (F3-6-AS1, AS2, AS3, and AS6) and two blowers (F3-6-BL3 and BL4) with dust control ventilation by fabric collector (F3-6-DC1);
- D. Airslide fabric dust collector (F3-6-DC1) with 96 - 4.75 in. dia. by 10 ft. long polyester filter tubes, pulse jet cleaning mechanism, and 15 hp exhaust fan;
- E. Take-away bucket elevator (F3-6-BE1) with dust control ventilation by fabric collector (F3-6-DC1);
- F. Three airslides (F3-6-AS4, AS5, and AS7) served by blower (H4-6-BL1) with dust control ventilation by fabric collector (H4-6-DC1);
- G. Level box (H4-6-LB1) with weigh feeder (H4-6-WF1), load cells, and blower (H4-6-BL2);
- H. Two level box overflow airslide (H4-6-AS1 and AS7) served by blower (H4-6-BL1);
- I. Level box overflow impact scale (H4-6-IS2);
- J. Level box loadout airslide (H4-6-AS2) served by blower (H4-6-BL3) with modulating valve (H4-6-MV1) and dust control ventilation by fabric collector (H4-6-DC1);
- K. Impact scale (H4-6-IS1);
- L. Two loadout airslides (H4-6-AS3 and AS4) served by blower (H4-6-BL3) with dust control ventilation by fabric collectors (H4-6-DC1 and DC2);
- M. Loadout bucket elevator (H4-6-BE1) with dust control ventilation by fabric collector (H4-6-DC2);
- N. Loadout airslide (H4-6-AS6) and blower (H4-6-BL5), with dust control ventilation by fabric collector (H4-6-DC2) (to pyro-processing preheater stage one);
- O. Loadout fabric dust collector (H4-6-DC2) with 128 - 4.75 in. dia. by 10 ft. long polyester filter tubes, pulse jet cleaning mechanism, and 25 hp exhaust fan;
- P. Loadout level box alternate airslide (H4-6-AS5) served by blower (H4-6-BL3), with dust control ventilation by fabric collector (H4-6-DC1);
- Q. Loadout airslide alternate main flow pump, (H4-6-FP1) hopper, and compressor (H4-6-FC1), with dust control ventilation by fabric collector (H4-6-DC3) (to pyro-processing preheater stage one);
- R. Alternate flow recirculation pump, (F3-6-FP1) hopper and compressor (F3-6-FC1), with dust control ventilation by fabric collector (F3-6-DC3) (flow from airslide F3-6-AS3 and roller mill airslide D2-6-AS4);
- S. Recirculation alleviator (F3-6-CC1) with dust control ventilation by fabric collector (H4-6-DC1);



Emission Unit 025 Permit Conditions

- T. Fabric dust collector (H4-6-DC1) with 450 - 4.75 in. dia. by 10 ft. long polyester filter tubes, pulse jet cleaning mechanism, and 75 hp exhaust fan; and
- U. Homogenizing silo airslide (F2-6-AS1) served by blower (F2-6-BL1).

**OPERATIONAL CONDITIONS:**

1. Visible emissions from any single emission point shall be less than 10% opacity. (Rule 422, 40 CFR 60 Subpart F)
2. Material removed from fabric dust collectors shall be returned to product stream. (Rule 210.1)
3. Fabric dust collectors shall have operational differential pressure indicators. (Rule 210.1)
4. This system shall not have fugitive particulate sources. (Rule 210.1)

**EMISSION LIMITS:**

Maximum emission rate of each air contaminant from this emission unit shall not exceed following limits:

**Particulate Matter (PM<sub>10</sub>):**

Fabric Collector F3-6-DC1: Emissions Listed on EU 1003026  
(shared with EUs 1003024 and 026)

Fabric Collector H4-6-DC2: Emissions Listed on EU 1003026  
(shared with EUs 1003024 and 026)

Fabric Collector H4-6-DC1: Emissions Listed on EU 1003026  
(shared with EUs 1003024 and 026)

(Emission limits established pursuant to Rule 210.1, unless otherwise noted.)

Compliance with maximum daily emission limits shall be verified by source operator (with appropriate operational data and record keeping to document maximum daily emission rate) each day source is operated and such documentation of compliance shall be retained and made readily available to District for period of five years. (Rules 201.1, 209, and 210.1)

Emission Unit 026 Permit Conditions

<u>Facility Number</u>	<u>Emissions Unit</u>	<u>Description of Source</u>
1003	026	Pyroprocessing System

**Emission Unit Equipment Description/Permit Conditions**

**Federally Enforceable Conditions**

**EQUIPMENT DESCRIPTION:** Pyroprocessing System, including following equipment:

- A. Oxygen injection system including: Vacuum Swing Absorption (VSA) plant, cryogenic storage tanks, vaporizers, pressure temperature control manifold with associated piping valves, regulators, trim heater and injection nozzles;
- B. Scrap tire shipping trailer parking/storage area;
- C. Scrap tire receiving conveyor;
- D. Scrap tire elevator;
- E. Scrap tire weigh bridge and conveyor;
- F. Scrap tire sliding air lock gate valve followed by two air lock flap gates;
- G. Two first stage preheating cyclones (H4-CC1A and CC1B) exhausting to heat exchanger (H4-6-HE1);
- H. Second stage preheater cyclone (H4-6-CC2);
- I. Third stage preheater cyclone (H4-6-CC3);
- J. Fourth stage preheater cyclone (H4-6-CC4);
- K. Air-cooled heat exchanger (H4-6-HE1) with two cooling fans;
- L. Preheater section exhaust fan and roller mill sweep fan (H4-6-KF1) with 3,000 hp motor;
- M. Preheater/precalciner combination burner assembly with coal and/or petroleum coke pipe, natural gas nozzle, and fuel oil nozzle;
- N. Preheater bypass/beneficiation quench air chamber and blower (H6-6-BL1);
- O. Bleed air damper (H6-6-D1) with one drop out box (H6-6-B1) and two screw conveyors (H6-6-SC1 and H6-6-DC1-SC1) ventilated by fabric collector (H6-6-DC1);
- P. Beneficiation fabric dust collector (H6-6-DC1) with 432 - 12 in. dia. by 20.83 ft. long fiberglass twill filter tubes, reverse air cleaning mechanism, 300 hp exhaust fan, and 50 hp reverse air fan;
- Q. Three beneficiation loadout screw conveyors (H6-6-DC1-SC1, SC2, and SC3) ventilated by fabric collector (H6-6-DC2);
- R. Beneficiation bucket elevator (H6-6-BE1) ventilated by fabric collector (H6-6-DC2);
- S. Beneficiation surge bin (H6-6-B2) ventilated by fabric collector (H6-6-DC2);
- T. Beneficiation truck loadout screw conveyor (H6-6-SC4) ventilated by fabric collector (H6-6-DC2);
- U. Beneficiation pneumatic transfer system (H6-6-FP1) and 100 hp compressor ventilated by fabric collector (H6-6-DC2);
- V. Beneficiation loadout fabric dust collector (H6-6-DC2) with 64 - 4.75 in. dia. by 10 ft. long polyester filter tubes, pulse jet cleaning mechanism, and 15 hp exhaust fan;

Emission Unit 026 Permit Conditions

- W. Beneficiation system alleviator (H6-6-CC1) going to existing surge bin ventilated by fabric collector (H6-6-DC3);
- X. Beneficiation surge bin fabric dust collector (H6-6-DC3) with 25 - 4.5 in. dia. by 10 ft. long polyester filter tubes, pulse jet cleaning mechanism, and 7.5 hp exhaust fan;
- Y. Rotary kiln #6 with variable, multiple fuel burner assembly with retractable burner pipes for coal and/or petroleum coke, and nozzles for natural gas and fuel oil;
- Z. Coal and/or petroleum coke transfer belt conveyors (R3-BC7 and BC8) (from existing storage) with dust control achieved by maintaining adequate moisture content (supplied by existing coal and/or petroleum coke handling system EU 1003010);
- AA. Coal and/or petroleum coke storage silo (R3-CSS2) with dust control achieved by maintaining adequate moisture content (supplied by existing coal and/or petroleum coke handling system EU 1003010);
- BB. Coal and/or petroleum coke mill weigh feeder (H7-6-WF1) ventilated by fabric collector (H7-6-DC1);
- CC. Inerting bin (H7-6-CC1) with two dampers (H7-6-D1 and H7-6-D2);
- DD. Coal and/or petroleum coke mill (H7-6-CM1), natural gas-fired air heater (H7-6-AH1), and blower (H7-6-BL1) ventilated to fabric collector (H7-6-DC1);
- EE. Coal and/or petroleum coke mill hot air (from clinker cooler) cleaning cyclone (H7-6-CC1) with two dampers (H7-6-D1 and D2);
- FF. Coal and/or petroleum coke mill hot air alternate flow damper (H7-6-D4) and blower (H7-6-BL2) into kiln #6;
- GG. Coal and/or petroleum coke mill fabric dust collector (H7-6-DC1) with 633 - 4.5 in. dia. by 10 ft. long polyester filter tubes, pulse jet cleaning mechanism, and 300 hp exhaust fan;
- HH. Coal and/or petroleum coke mill mini bins (H7-6-B1, B2, and B3) ventilated by fabric collector (H7-6-DC1);
- II. Two parallel coal and/or petroleum coke airslides (H7-6-AS1 and AS2), blower, and impact scales (H7-6-IS1 and IS2) ventilated by fabric collector (H7-6-DC1);
- JJ. Two parallel coal and/or petroleum coke diverter gates (H7-6-DG1 and DG2);
- KK. Coal and/or petroleum coke pump (H7-6-FP1) and 150 hp blower with dust control ventilation by fabric collector (H7-6-DC1) (to precalciner burners);
- LL. Coal and/or petroleum coke pump (H7-6-FP3) and 150 hp blower with dust control ventilation by fabric collector (H7-6-DC1) (to coal burner H3-6-KBC01 at kiln #6);
- MM. Coal and/or petroleum coke pump (H7-6-FP2) and 150 hp blower with dust control ventilation by fabric collector (H7-6-DC1);
- NN. Two precalciner hot air (from clinker cooler) dust settling chambers and one damper (H4-6-D1);
- OO. One dust settling conveyor belt (H4-6-DCR1) ventilated by fabric collector (H2-6-DC1);
- PP. Kiln gas fabric dust collector (H5-6-DC1) (gas from roller mill) with 1,728 - 12 in. dia. by 20 ft. long fiberglass twill filter tubes, 125 hp reverse air cleaning fan, and 1,750 hp exhaust fan;
- QQ. Five kiln gas section screw conveyors (H5-6-DC1-SC1, SC2, SC3, SC4, and H5-6-SC1);
- RR. Kiln gas section bucket elevator (H5-6-BE1) ventilated by fabric collector (D2-6-DC2) (roller mill system); and
- SS. Two kiln gas section airslides (H5-6-AS1 and AS2) and blower (H5-6-BL1) ventilated by fabric collector (D2-6-DC3) (roller mill system).

Emission Unit 026 Permit Conditions

**OPERATIONAL CONDITIONS:**

1. Oxygen injection system including VSA plant shall be constructed and maintained in accordance with manufacturer's specifications. (Rule 210.1)
2. Visible emissions from kiln shall not exceed 20% opacity. Visible emissions from all other sources shall not exceed 10% opacity. (Rule 422, 40 CFR 60 Subpart F)
3. Material removed from fabric dust collectors and other collected fines shall be returned to product stream (except beneficiation system alkali fines) or otherwise disposed of using method preventing entrainment in atmosphere. (Rule 210.1)
4. Alkali dust from beneficiation system shall be slurrolized before discharging to pond. (Rule 210.1)
5. Each fabric collector shall have operational differential pressure indicator(s). (Rule 210.1)
6. Sufficient moisture shall be applied to coal supply system (EU 1003010) to prevent dust emissions when handling, storing, and transferring. (Rule 210.1)
7. Kiln shall be fired only with coal, petroleum coke, natural gas, fuel oil, or whole tires. No other combustible products shall be added to kiln system without prior written permission of Control Officer. (Rule 210.1)
8. Tires shall not exceed 3.6% by weight of total pyroprocessing system fuel without prior District approval and toxics testing. (Rule 210.1 and per application and EIR)
9. Kiln combined fuel (oil, coal, petroleum coke, and/or tire) sulfur content shall not exceed 2.0% by weight without prior District approval. (Rule 210.1)
10. Tires to be used as fuel shall not be open-stored or stockpiled, and, unless otherwise prohibited by local Fire Marshall, tires stored in delivery trailers shall not exceed seven days inventory without prior approval of Control Officer. (Rule 210.1)
11. No air contaminant shall be released into atmosphere which causes public nuisance or public health hazard. (Rule 419 and CH&SC, Sec 41700)
12. Equipment breakdowns resulting in non-compliance with any emission limitations shall be reported pursuant to Rules 111 and 422. (Rule 422, 40 CFR 60 Subpart F)
13. Kiln shall be operated using tire-derived fuel only when all pyroprocessing system control equipment is operated pursuant to manufacturer's recommendations resulting in particulate emissions not exceeding 0.015 gr/scf and 0.30 lb/ton of kiln feed. (Rules 210.1 and 422, Subpart F)
14. California Portland Cement Company shall maintain files including: a) data collected from in-stack monitoring instruments and process monitoring, b) fuel input rate, c) sulfur content of fuels input into kiln, d) fuels sulfur balance showing compliance with 2.0% limit, e) clinker production rates, and f) results of all source tests and calibrations checks.
15. APCO or any authorized representative shall have access to and be provided, upon request, with copies of any record required to be kept under terms and conditions of permit. Furthermore, such persons shall have access to inspect any equipment, operation, or method required in this permit, and to sample, or require sampling, of emissions sources. (Rule 107)
16. H5-6-DC1 exhaust stack shall be equipped with continuous monitors/recorders for opacity, nitrogen oxides, and non-methane hydrocarbons; and precalciner combustion chamber shall be equipped with continuous monitors/recorders for oxygen and carbon monoxide. Non-methane hydrocarbons and oxygen and carbon monoxide shall be monitored only when using tires as fuel. (Rule 210.1)

Emission Unit 026 Permit Conditions

**COMPLIANCE TESTING REQUIREMENTS:**

Within 30 days of District-approved use of an increased percentage of tires as fuel and production of useable clinker, full source testing of kiln exhaust stack, H5-6-DC1, shall be conducted for both criteria and toxic air pollutants. Testing shall be conducted by independent laboratory certified by CARB to conduct each test. Additionally, testing shall be conducted pursuant to requirements of Rule 108.1 and most updated CARB/OEHHA version of AB2588 Air Toxic Guidelines. Detailed source test protocol shall be submitted at least 15 days prior to testing and complete source test results shall be submitted to District within 60 days of completion of source testing.

Annual testing for compliance with volatile organic compound, particulate, and oxides of nitrogen emission limits shall be demonstrated by District-witnessed sample collection by certified testing laboratory pursuant to Rule 108.1. Should inspection reveal conditions, including operational conditions, indicating potential non-compliance with emission limitations, or analysis assumptions, or which may result in significant adverse health effect, testing for toxics shall be required. (Rules 108.1 and 210.1)

**EMISSION LIMITS:**

Maximum emission rate of each air contaminant from this emission unit shall not exceed following limits:

**Particulate Matter (PM<sub>10</sub>):**

All Fabric Collectors Maximum Particulate Matter Exhaust Concentration:	0.015	grains/scf
Beneficiation Collector H6-6-DC1:	5.79	lb/hr
Loadout Collector H6-6-DC2:	0.51	lb/hr
Surge Bin Collector H6-6-DC3:	0.15	lb/hr
Coal Mill Collector H7-6-DC1:	3.86	lb/hr
Kiln #6 Collector H5-6-DC1:	31.89	lb/hr
Fabric Collector D2-6-DC1:	0.99	lb/hr
Fabric Collector D2-6-DC2:	0.31	lb/hr
Fabric Collector D2-6-DC3:	0.71	lb/hr
Fabric Collector H4-6-DC1:	3.41	lb/hr
Fabric Collector H4-6-DC2:	0.90	lb/hr
<u>Fabric Collector F3-6-DC1:</u>	<u>0.58</u>	<u>lb/hr</u>
1003026B PM <sub>10</sub> Emission Totals:	49.10	lb/hr
	1,178.40	lb/day
	215.06	ton/yr
<b><u>Sulfur Oxides (as SO<sub>2</sub>):</u></b>	616.00	lb/hr
	14,784.00	lb/day
	2,698.08	ton/yr

Emission Unit 026 Permit Conditions

<b><u>Oxides of Nitrogen (as NO<sub>2</sub>)</u></b> :	855.00	lb/hr
	20,520.00	lb/day
	3,744.90	ton/yr
<b><u>Volatile Organic Compounds (VOC)</u></b> :	18.35	lb/hr (of NMHC)
	440.40	lb/day (of NMHC)
	80.37	ton/yr (of NMHC)
<b><u>Carbon Monoxide</u></b> :	183.50	lb/hr
	4,404.00	lb/day
	803.73	ton/yr

(Emission limits established pursuant to Rule 210.1, unless otherwise noted.)

Compliance with maximum daily emission limits shall be verified by source operator (with appropriate operational data and record keeping to document maximum daily emission rate) each day source is operated and such documentation of compliance shall be retained and made readily available to District for period of five years. (Rules 201.1, 209, and 210.1)

Emission Unit 027 Permit Conditions

<u>Facility Number</u>	<u>Emissions Unit</u>	<u>Description of Source</u>
1003	027	Clinker Cooling System

**Emission Unit Equipment Description/Permit Conditions**

**Federally Enforceable Conditions**

**EQUIPMENT DESCRIPTION:** Clinker Cooling System, including following equipment:

- A. Clinker coolers (H2-6-QC1, QC2, and QC3), breaker (H2-6-IC1), drag conveyor (H2-6-DRC1), and nine cooling air blowers (H2-6-B1 thru B9) with ventilation by fabric collector (H2-6-DC1);
- B. Dust settling chamber (prior to fabric collector);
- C. Clinker cooler fabric dust collector (H2-6-DC1) with 2,016 - 12 in. dia. by 20 ft. 10 in. long fiberglass twill filter tubes, reverse air cleaning mechanism with 50 hp air reversal fan and 1,750 hp exhaust fan;
- D. Two clinker drag conveyor belts (H2-6-DCR2 and DCR3) with dust control ventilation by dust collector (H2-6-DC3);
- E. Clinker bucket elevator (H2-6-BE1) with dust control ventilation by dust collector (H2-6-DC3);
- F. Clinker diverter gate (H2-6-DG1) to conveyor belt (H2-6-BC1) under normal conditions and to ground under emergency conditions;
- G. Clinker belt conveyor (H2-6-BC1) with dust control ventilation by fabric collector (H2-6-DC3) goes to existing clinker storage building;
- H. Clinker transport fabric dust collector (H2-6-DC3) with 128 - 4.75" in. dia. by 10 ft. long polyester filter tubes, pulse jet cleaning mechanism, and 25 hp exhaust fan;
- I. Two telescoping clinker loader or equivalent (connected to diverter gate, for emergency use only); and
- J. Clinker sampler (H2-6-SX1).

**OPERATIONAL CONDITIONS:**

- 1. Visible emissions from any single emission point shall be less than 10% opacity. (Rule 422, 40 CFR 60 Subpart F)
- 2. Material removed from fabric dust collectors shall be returned to product stream. (Rule 210.1)
- 3. Fabric dust collectors shall have operational differential pressure indicators. (Rule 210.1)
- 4. Volume flowrate through clinker cooler fabric dust collector (H2-6-DC1) shall at no time exceed 360,000 acfm. (Rule 210.1)
- 5. This system shall not have fugitive particulate sources. (Rule 210.1)

**COMPLIANCE TESTING:**

Compliance clinker cooler dust collector (H2-6-DC1) shall be demonstrated annually by independent lab pursuant to Rule 108.1 and District Source Test Guidelines. (Rule 108.1)

Emission Unit 027 Permit Conditions

**EMISSION LIMITS:**

Maximum emission rate of each air contaminant from this emission unit shall not exceed following limits:

**Particulate Matter (PM<sub>10</sub>):**

Fabric Collector H2-6-DC1:	0.015	gr/scf
	24.69	lb/hr
	592.56	lb/day
	108.14	ton/yr

Fabric Collector H2-6-DC3:	0.015	gr/scf
	0.90	lb/hr
	21.60	lb/day
	3.94	ton/yr

(Emission limits established pursuant to Rule 210.1, unless otherwise noted.)

Compliance with maximum daily emission limits shall be verified by source operator (with appropriate operational data and record keeping to document maximum daily emission rate) each day source is operated and such documentation of compliance shall be retained and made readily available to District for period of five years. (Rules 201.1, 209, and 210.1)



Emission Unit 032 Permit Conditions

<u>Facility Number</u>	<u>Emissions Unit</u>	<u>Description of Source</u>
1003	032	Standby Piston Engine with Generator

**Emission Unit Equipment Description/Permit Conditions**

**Federally Enforceable Conditions**

**EQUIPMENT DESCRIPTION:** Standby Piston Engine with Generator, including following equipment:

- A. 1,566-bhp diesel fueled piston engine, turbocharged and water-cooled;
- B. Blower pressure relief valve for NO<sub>x</sub> control; and
- C. 2,100 kW electrical power generator (shared with EU 1003033).

**OPERATIONAL CONDITIONS:**

- 1. Fuel oil sulfur content shall not exceed 0.05% by weight. (Rule 210.1)
- 2. Fuel oil consumption shall not exceed 80.1 gallons per hour at full load conditions. (Rule 210.1)
- 3. Engine shall not operate more than ½ hour in any day for function and maintenance check without prior District approval. (Rule 210.1)
- 4. Engine shall not operate for longer than ½ hour unless pyroprocessor kiln (EU 1003026), roller mill (EU 1003024), are shut down and have no emissions. (Rule 210.1)
- 5. Engine shall be equipped with fuel oil flow meter. (Rule 209)
- 6. Engine shall be equipped with hours of operation recorder. (Rule 209)

**EMISSION LIMITS:**

Maximum emission rate of each air contaminant from this emission unit shall not exceed following limits:

**Power Generation Mode:**

**Particulate Matter:** 3.13 lb/hr

**Sulfur Compounds (of SO<sub>2</sub>):** 0.55 lb/hr

**Oxides of Nitrogen (as NO<sub>2</sub>):** 31.32 lb/hr

**Hydrocarbons:** 4.70 lb/hr

**Carbon Monoxide:** 10.96 lb/hr

Emission Unit 032 Permit Conditions

**Function/Maintenance Mode:**

<b><u>Particulate Matter:</u></b>	1.96 lb/hr
<b><u>Sulfur Compounds (of SO<sub>2</sub>):</u></b>	0.16 lb/hr
<b><u>Oxides of Nitrogen (as NO<sub>2</sub>):</u></b>	6.34 lb/hr
<b><u>Hydrocarbons:</u></b>	2.94 lb/hr
<b><u>Carbon Monoxide:</u></b>	1.75 lb/hr

(Emission limits established pursuant to Rule 210.1, unless otherwise noted.)

Emission rates for SO<sub>2</sub>, NO<sub>2</sub>, and HC have been determined to constitute LAER on basis that no more than 180 hours per year of power generation operation and 18 hours per year of function/maintenance operations are carried out. (Rule 210.1 LAER Requirement)

Any increase in hours of operation will require installation of air pollution control provisions deemed to constitute LAER at such time of application and conversion to gas-firing. (Rule 210.1 LAER Requirement)

**COMPLIANCE TESTING REQUIREMENTS:**

Compliance with particulates, oxides of nitrogen, hydrocarbons, and carbon monoxide emission limits shall be demonstrated under "function/maintenance mode" by District-witnessed sample collection by independent testing laboratory upon detection of visible emissions exceeding 20% opacity or Ringelmann 1. (Rule 108.1)

Compliance with sulfur compounds emission limit shall be demonstrated by record of fuel sulfur content analysis by independent testing laboratory upon detection of visible emissions exceeding 20% opacity or Ringelmann 1. (Rule 108.1)

**SPECIAL CONDITION:**

California Portland Cement Company shall maintain accurate records of fuel sulfur content of each fuel shipment received, hours of operations of engine, and daily fuel consumption and shall make such records readily available for District inspection upon request. (Rule 107.1)

Emission Unit 033 Permit Conditions

<u>Facility Number</u>	<u>Emissions Unit</u>	<u>Description of Source</u>
1003	033	Standby Piston Engine with Generator

**Emission Unit Equipment Description/Permit Conditions**

**Federally Enforceable Conditions**

**EQUIPMENT DESCRIPTION:** Standby Piston Engine with Generator, including following equipment:

- A. 1,578-bhp diesel fueled piston engine, turbocharged and water-cooled;
- B. Blower pressure relief valve, for NO<sub>x</sub> control; and
- C. 2,100 kW electrical power generator (shared with EU 1003032).

**OPERATIONAL CONDITIONS:**

- 1. Fuel oil sulfur content shall not exceed 0.05% by weight. (Rule 210.1)
- 2. Fuel oil consumption shall not exceed 80.1 gallons per hour at full load conditions. (Rule 210.1)
- 3. Engine shall not operate more than ½ hour in any day for function and maintenance check without prior District approval. (Rule 210.1)
- 4. Engine shall not operate for longer than ½ hour unless pyroprocessor kiln 6 (EU 1003026), roller mill (EU 1003024), are shut down and have no emissions. (Rule 210.1)

**EMISSION LIMITS:**

Maximum emission rate of each air contaminant from this emission unit shall not exceed following limits:

<b><u>Particulate Matter:</u></b>	3.16 lb/hr
<b><u>Sulfur Compounds (of SO<sub>2</sub>):</u></b>	0.55 lb/hr
<b><u>Oxides of Nitrogen (as NO<sub>2</sub>):</u></b>	31.56 lb/hr
<b><u>Hydrocarbons:</u></b>	4.73 lb/hr
<b><u>Carbon Monoxide:</u></b>	11.05 lb/hr

(Emission limits established pursuant to Rule 210.1, unless otherwise noted.)

Emission rates for SO<sub>2</sub>, NO<sub>2</sub>, and HC have been determined to constitute LAER on the basis that no more than 180 hours per year of power generation operation and 18 hours per year of function/maintenance operations are carried out. (Rule 210.1 LAER requirement)

Emission Unit 033 Permit Conditions

Emission Unit 033 Permit Conditions

Any increase in hours of operation will require installation of air pollution control provisions deemed to constitute LAER at such time of application and conversion to gas-firing. (Rule 210.1 LAER requirement)

**COMPLIANCE TESTING REQUIREMENTS:**

Compliance with particulates, oxides of nitrogen, hydrocarbons, and carbon monoxide emission limits shall be demonstrated under "function/maintenance mode" by District-witnessed sample collection by independent testing laboratory upon detection of visible emissions exceeding 20% opacity or Ringelmann 1. (Rule 108.1)

Compliance with sulfur compounds emission limit shall be demonstrated by records fuel sulfur content analysis by independent testing laboratory upon detection of visible emissions exceeding 20% opacity or Ringelmann 1. (Rule 108.1)

**SPECIAL CONDITION:**

California Portland Cement Company shall maintain accurate records of fuel sulfur content of each fuel shipment received, hours of operations of engine, and daily fuel consumption and shall make such records readily available for District inspection upon request. (Rule 107.1)

Emission Unit 042 Permit Conditions

<u>Facility Number</u>	<u>Emissions Unit</u>	<u>Description of Source</u>
1003	042	Piston Engine with Welder

**Emission Unit Equipment Description/Permit Conditions**

**Federally Enforceable Conditions**

**EQUIPMENT DESCRIPTION:** Piston Engine with Welder, including following equipment:

70-bhp gasoline fueled piston engine powering welder.

**OPERATIONAL CONDITIONS:**

1. Visible emissions shall be less than 20% opacity or Ringelmann No. 1 except for not more than three minutes in any one hour. (Rule 401)
2. Exhaust gas particulate matter concentration shall be no more than 0.1-gr/scf (0.2-gr/scf if installed before 4/18/72). (Rule 404.1)
3. Sulfur compounds emissions shall be no more than 0.2% (2,000 ppmv) calculated as sulfur dioxide (SO<sub>2</sub>). (Rule 407)
4. With exception of emergency standby equipment, if engine is operated at same location within facility for more than one year, such unit shall comply with Rule 427. (Rule 427)

Emission Unit 043 Permit Conditions

<u>Facility Number</u>	<u>Emissions Unit</u>	<u>Description of Source</u>
1003	043	Piston Engine with Welder

**Emission Unit Equipment Description/Permit Conditions**

**Federally Enforceable Conditions**

**EQUIPMENT DESCRIPTION:** Piston Engine with Welder, including following equipment:

70-bhp gasoline fueled piston engine powering welder.

**OPERATIONAL CONDITIONS:**

1. Visible emissions shall be less than 20% opacity or Ringelmann No. 1 except for not more than three minutes in any one hour. (Rule 401)
2. Exhaust gas particulate matter concentration shall be no more than 0.1-gr/scf (0.2-gr/scf if installed before 4/18/72). (Rule 404.1)
3. Sulfur compounds emissions shall be no more than 0.2% (2,000 ppmv) calculated as sulfur dioxide (SO<sub>2</sub>). (Rule 407)
4. With exception of emergency standby equipment, if engine is operated at same location within facility for more than one year, such unit shall comply with Rule 427. (Rule 427)

Emission Unit 044 Permit Conditions

<u>Facility Number</u>	<u>Emissions Unit</u>	<u>Description of Source</u>
1003	044	Piston Engine with Compressor

**Emission Unit Equipment Description/Permit Conditions**

**Federally Enforceable Conditions**

**EQUIPMENT DESCRIPTION:** Piston Engine with Compressor, including following equipment:

85-bhp diesel fueled piston engine powering compressor.

**OPERATIONAL CONDITIONS:**

1. Visible emissions shall be less than 20% opacity or Ringelmann No. 1 except for not more than three minutes in any one hour. (Rule 401)
2. Exhaust gas particulate matter concentration shall be no more than 0.1-gr/scf (0.2-gr/scf if installed before 4/18/72). (Rule 404.1)
3. Sulfur compounds emissions shall be no more than 0.2% (2,000 ppmv) calculated as sulfur dioxide (SO<sub>2</sub>). (Rule 407)
4. With exception of emergency standby equipment, if engine is operated at same location within facility for more than one year, such unit shall comply with Rule 427. (Rule 427)

Emission Unit 045 Permit Conditions

<u>Facility Number</u>	<u>Emissions Unit</u>	<u>Description of Source</u>
1003	045	Piston Engine with Compressor

**Emission Unit Equipment Description/Permit Conditions**

**Federally Enforceable Conditions**

**EQUIPMENT DESCRIPTION:** Piston Engine with Compressor, including following equipment:

168-bhp diesel fueled piston engine powering compressor.

**OPERATIONAL CONDITIONS:**

1. Visible emissions shall be less than 20% opacity or Ringelmann No. 1 except for not more than three minutes in any one hour. (Rule 401)
2. Exhaust gas particulate matter concentration shall be no more than 0.1-gr/scf (0.2-gr/scf if installed before 4/18/72). (Rule 404.1)
3. Sulfur compounds emissions shall be no more than 0.2% (2,000 ppmv) calculated as sulfur dioxide (SO<sub>2</sub>). (Rule 407)
4. With exception of emergency standby equipment, if engine is operated at same location within facility for more than one year, such unit shall comply with Rule 427. (Rule 427)



Emission Unit 048 Permit Conditions

<u>Facility Number</u>	<u>Emissions Unit</u>	<u>Description of Source</u>
1003	048	Piston Engine

**Emission Unit Equipment Description/Permit Conditions**

**Federally Enforceable Conditions**

**EQUIPMENT DESCRIPTION:** Piston Engine, including following equipment:

95-bhp diesel fueled piston engine powering compressor.

**OPERATIONAL CONDITIONS:**

1. Visible emissions shall be less than 20% opacity or Ringelmann No. 1 except for not more than three minutes in any one hour. (Rule 401)
2. Exhaust gas particulate matter concentration shall be no more than 0.1-gr/scf (0.2-gr/scf if installed before 4/18/72). (Rule 404.1)
3. Sulfur compounds emissions shall be no more than 0.2% (2,000-ppmv) calculated as sulfur dioxide (SO<sub>2</sub>). (Rule 407)
4. With exception of emergency standby equipment, if engine is operated at same location within facility for more than one year, such unit shall comply with Rule 427. (Rule 427)

Emission Unit 049 Permit Conditions

<u>Facility Number</u>	<u>Emissions Unit</u>	<u>Description of Source</u>
1003	049	Piston Engine with Washer

**Emission Unit Equipment Description/Permit Conditions**

**Federally Enforceable Conditions**

**EQUIPMENT DESCRIPTION:** Piston Engine with Washer, including following equipment:

95-bhp diesel fueled piston engine powering high pressure washer.

**OPERATIONAL CONDITIONS:**

1. Visible emissions shall be less than 20% opacity or Ringelmann No. 1 except for not more than three minutes in any one hour. (Rule 401)
2. Exhaust gas particulate matter concentration shall be no more than 0.1-gr/scf (0.2-gr/scf if installed before 4/18/72). (Rule 404.1)
3. Sulfur compounds emissions shall be no more than 0.2% (2,000-ppmv) calculated as sulfur dioxide (SO<sub>2</sub>). (Rule 407)
4. With exception of emergency standby equipment, if engine is operated at same location within facility for more than one year, such unit shall comply with Rule 427. (Rule 427)

Emission Unit 051 Permit Conditions

<u>Facility Number</u>	<u>Emissions Unit</u>	<u>Description of Source</u>
1003	051	Vacuum Truck

**Emission Unit Equipment Description/Permit Conditions**

**Federally Enforceable Conditions**

**EQUIPMENT DESCRIPTION:** Vacuum Truck, including following equipment:

165-bhp diesel fueled vacuum truck.

**OPERATIONAL CONDITIONS:**

1. Visible emissions shall be less than 20% opacity or Ringelmann No. 1 except for not more than three minutes in any one hour. (Rule 401)
2. Exhaust gas particulate matter concentration shall be no more than 0.1 gr/scf (0.2 gr/scf if installed before 4/18/72). (Rule 404.1)
3. Sulfur compounds emissions shall be no more than 0.2% (2,000 ppmv) calculated as sulfur dioxide (SO<sub>2</sub>). (Rule 407)
4. With exception of emergency standby equipment, if engine is operated at same location within facility for more than one year, such unit shall comply with Rule 427. (Rule 427)

Emission Unit 053 Permit Conditions

<u>Facility Number</u>	<u>Emissions Unit</u>	<u>Description of Source</u>
1003	053	Kiln Engine

**Emission Unit Equipment Description/Permit Conditions**

**Federally Enforceable Conditions**

**EQUIPMENT DESCRIPTION:** Kiln Engine, including following equipment:

180-bhp propane fueled kiln engine.

**OPERATIONAL CONDITIONS:**

1. Visible emissions shall be less than 20% opacity or Ringelmann No. 1 except for not more than three minutes in any one hour. (Rule 401)
2. Exhaust gas particulate matter concentration shall be no more than 0.1 gr/scf (0.2 gr/scf if installed before 4/18/72). (Rule 404.1)
3. Sulfur compounds emissions shall be no more than 0.2% (2,000 ppmv) calculated as sulfur dioxide (SO<sub>2</sub>). (Rule 407)
4. With exception of emergency standby equipment, if engine is operated at same location within facility for more than one year, such unit shall comply with Rule 427. (Rule 427)

Emission Unit 054 Permit Conditions

<u>Facility Number</u>	<u>Emissions Unit</u>	<u>Description of Source</u>
1003	054	Bulk Clinker Truck Loadout Operation

**Emission Unit Equipment Description/Permit Conditions**

**Federally Enforceable Conditions**

**EQUIPMENT DESCRIPTION:** Bulk Clinker Truck Loadout Operation, including following equipment:

- A. 24-inch wide by 200-feet long belt conveyor (H2-6-BC3) with 20-hp motor;
- B. Bulk clinker storage bin (Bin #1); and
- C. Fabric collector (D3-DC8) with 1,425-sq. ft. filter area, pulse jet cleaning mechanism, 20-hp motor, and discharge belt conveyor.

**OPERATIONAL CONDITIONS:**

- 1. Fabric collector shall be equipped with operational differential pressure indicator. (Rule 210.1)
- 2. Fabric collector shall be equipped with pulse-jet cleaning mechanism. (Rule 210.1)
- 3. Visible emissions from fabric collector shall not exceed 5% opacity. (Rule 210.1)
- 4. Fabric collectors shall be maintained in proper working order. (Rule 210.1)
- 5. Process shall not be operated unless emission control equipment is in operation. (Rules 210.1 and 209)
- 6. Material removed from dust collector(s) shall be disposed of in manner preventing entrainment in atmosphere. (Rule 210.1)
- 7. Bulk clinker storage bin shall be vented to dust collector. (Rule 210.1)
- 8. There shall be no fugitive emissions from any process or dust control equipment. (Rule 210.1)
- 9. Bulk clinker storage bin and connections shall be maintained "dust-tight"; equipment shall be maintained so as not to allow visible greater than 5% opacity or fugitive emissions. (Rules 210.1)
- 10. Opacity of visible emissions from any point on this facility shall not exceed 10%. (Rule 422)
- 11. No emission resulting from use of this equipment shall cause injury, detriment, nuisance, annoyance to or endanger comfort, repose, health, or safety of any considerable number of persons or public. (Rule 419 and CH&SC, Sec 41700)

**STATE OF CALIFORNIA AIR TOXICS HOT SPOTS REQUIREMENTS:**

Facility shall comply with California Health and Safety Code Sections 44300 through 44384. (Rule 208.1)

Emission Unit 054 Permit Conditions

**COMPLIANCE TESTING REQUIREMENTS:**

Should inspection reveal conditions indicative of non-compliance, compliance with any emission limitations shall be verified, within 60 days of District request. Test results shall be submitted to District within 30 days after test completion. (Rule 108.1 and 210.1)

**EMISSION LIMITS:**

Maximum emission rate of each air contaminant from this emission unit shall not exceed following limits:

**Particulate Matter (PM<sub>10</sub>):**

Fabric Collector #D3-DC8	0.008	gr/scf
	0.34	lb/hr
	8.23	lb/day
	1.50	tons/yr

(Emission limits established pursuant to Rule 210.1, unless otherwise noted.)

Compliance with maximum daily emission limits shall be verified by source operator (with appropriate operational data and record keeping to document maximum daily emission rate) each day source is operated and such documentation of compliance shall be retained and made readily available to District for period of five years. (Rules 201.1, 209, and 210.1)

Emission Unit 055 Permit Conditions

<u>Facility Number</u>	<u>Emissions Unit</u>	<u>Description of Source</u>
1003	055	Finish Grinding Operation #2

**Emission Unit Equipment Description/Permit Conditions**

**Federally Enforceable Conditions**

**EQUIPMENT DESCRIPTION:** Finish Grinding Operation #2, including following equipment:

- A. Conveying equipment from clinker and gypsum bins and transfer points to existing belt (D3-BC1) with four insertable collectors with pulse jet cleaning mechanism, ( FOW-1-DC1 and FOW-2-DC1) shared with finish mills 1-5, EUs 1003017D and 1003055-058 and (FOW-3-DC1 and FOW-6-DC1) shared with finish mills 1-5, EUs 1003017D and 1003055-058 and finish mills 1-3, EU 1003004A, each with 5-hp fan;
- B. Finish mill D3-F2 with fabric collector (D3-F2-DC1) with 240 - 5.875 in. dia. by 10 ft. long polyester filter tubes, reverse pulse jet cleaning mechanism and 75-hp exhaust fan;
- C. Two separator assemblies;
- D. Conveying equipment with fabric collector (D3-F2-DC2);
- E. Conveying equipment with one fabric collector (D3-DC1) shared with finish mills 1-5, EUs 1003017D and 1003055-058;
- F. 36 cement storage silos with 18 interstices and four c collectors (D3-DC2, D3-DC3, D3-DC4, and D3-DC5) shared with EUs 1003017D and 1003055-059; and
- G. Conveyors with two fabric collectors (D3-DC6 and D3-DC7) shared with finish mills 1-6, EUs 1003017D and 1003055-059.

**OPERATIONAL CONDITIONS:**

- 1. Maximum process weight shall not exceed 25-tons per hour (. (Rule 210.1)
- 2. Particulate matter emissions from any single source operation shall not exceed 0.1-gr/scf. (Rule 404)
- 3. Visible emissions from any single emission point shall be less than 20% opacity. (Rule 422)
- 4. Conveyor covers and elevator hoods shall be maintained. (Rule 209)
- 5. Material collected in fabric collectors shall be disposed of in manner preventing entrainment in atmosphere. (Rules 209 and 210.1)
- 6. Fabric collectors shall have operational differential pressure indicators. (Rule 209)
- 7. Fabric collectors shall operate whenever associated equipment is operating. (Rule 209)

**EMISSION LIMITS:**

Maximum emission rate of each air contaminant from this emission unit shall not exceed following limits:

California Portland Cement Company  
Permit No. 1003-V-2011

Emission Unit 055 Permit Conditions

**Particulate Matter (PM<sub>10</sub>):**

Fabric Collector FM-2-DC1:	0.02	gr/scf
	3.43	lb/hr
	82.29	lb/day

(Emission limits established pursuant to Rule 210.1, unless otherwise noted.)

Compliance with maximum daily emission limits shall be verified by source operator (with appropriate operational data and record keeping to document maximum daily emission rate) each day source is operated and such documentation of compliance shall be retained and made readily available to District for period of five years. (Rules 201.1, 209, and 210.1)



Emission Unit 056 Permit Conditions

<u>Facility Number</u>	<u>Emissions Unit</u>	<u>Description of Source</u>
1003	056	Finish Grinding Operation #3

**Emission Unit Equipment Description/Permit Conditions**

**Federally Enforceable Conditions**

**EQUIPMENT DESCRIPTION:** Finish Grinding Operation #3, including following equipment:

- A. Conveying equipment from clinker and gypsum bins and transfer points to existing belt (D3-BC1) with four insertable collectors with pulse jet cleaning mechanism, ( FOW-1-DC1 and FOW-2-DC1) shared with finish mills 1-5, EUs 1003017D and 1003055-058 and (FOW-3-DC1 and FOW-6-DC1) shared with finish mills 1-5, EUs 1003017D and 1003055-058 and finish mills 1-3, EU 1003004A, each with 5-hp fan;
- B. Finish mill D3-F3 with fabric collector (D3-F3-DC1) with 240 - 5.875 in. dia. by 10 ft. long polyester filter tubes, reverse pulse jet cleaning mechanism and 75-hp exhaust fan;
- C. Two separator assemblies;
- D. Conveying equipment with fabric collector (D3-F3-DC2);
- E. Conveying equipment with one fabric collector (D3-DC1) shared with finish mills 1-5, EUs 1003017D and 1003055-058;
- F. 36 cement storage silos with 18 interstices and four c collectors (D3-DC2, D3-DC3, D3-DC4, and D3-DC5) shared with EUs 1003017D and 1003055-059; and
- G. Conveyors with two fabric collectors (D3-DC6 and D3-DC7) shared with finish mills 1-6, EUs 1003017D and 1003055-059.

**OPERATIONAL CONDITIONS:**

- 1. Maximum process weight shall not exceed 25-tons per hour (. (Rule 210.1)
- 2. Particulate matter emissions from any single source operation shall not exceed 0.1-gr/scf. (Rule 404)
- 3. Visible emissions from any single emission point shall be less than 20% opacity. (Rule 422)
- 4. Conveyor covers and elevator hoods shall be maintained. (Rule 209)
- 5. Material collected in fabric collectors shall be disposed of in manner preventing entrainment in atmosphere. (Rules 209 and 210.1)
- 6. Fabric collectors shall have operational differential pressure indicators. (Rule 209)
- 7. Fabric collectors shall operate whenever associated equipment is operating. (Rule 209)

**EMISSION LIMITS:**

Maximum emission rate of each air contaminant from this emission unit shall not exceed following limits:

California Portland Cement Company  
Permit No. 1003-V-2011

Emission Unit 056 Permit Conditions

**Particulate Matter (PM<sub>10</sub>):**

Fabric Collector D3-F3-DC1:	0.02	gr/scf
	3.43	lb/hr
	82.29	lb/day

(Emission limits established pursuant to Rule 210.1, unless otherwise noted.)

Compliance with maximum daily emission limits shall be verified by source operator (with appropriate operational data and record keeping to document maximum daily emission rate) each day source is operated and such documentation of compliance shall be retained and made readily available to District for period of five years. (Rules 201.1, 209, and 210.1)

Emission Unit 057 Permit Conditions

<u>Facility Number</u>	<u>Emissions Unit</u>	<u>Description of Source</u>
1003	057	Finish Grinding Operation #4

**Emission Unit Equipment Description/Permit Conditions**

**Federally Enforceable Conditions**

**EQUIPMENT DESCRIPTION:** Finish Grinding Operation #4, including following equipment:

- A. Conveying equipment from clinker and gypsum feed bins and transfer points to existing belt (D3-BC1) with four insertable collectors with pulse jet cleaning mechanism, ( FOW-1-DC1 and FOW-2-DC1) shared with finish mills 1-5, EUs 1003017D and 1003055-058 and (FOW-3-DC1 and FOW-6-DC1) shared with finish mills 1-5, EUs 1003017D and 1003055-058 and finish mills 1-3, EU 1003004A, each with 5-hp fan;
- B. Finish mill D3-F4 with fabric collector (D3-F4-DC1) with 240 - 5.875 in. dia. by 10 ft. long polyester filter tubes, reverse pulse jet cleaning mechanism and 75-hp exhaust fan;
- C. Two separator assemblies;
- D. Conveying equipment with fabric collector (D3-F4-DC2);
- E. Conveying equipment with one fabric collector (D3-DC1) shared with finish mills 1-5, EUs 1003017D and 1003055-058;
- F. 36 cement storage silos with 18 interstices and four c collectors (D3-DC2, D3-DC3, D3-DC4, and D3-DC5) shared with EUs 1003017D and 1003055-059; and
- G. Conveyors with two fabric collectors (D3-DC6 and D3-DC7) shared with finish mills 1-6, EUs 1003017D and 1003055-059.

**OPERATIONAL CONDITIONS:**

- 1. Maximum process weight shall not exceed 25-tons per hour (. (Rule 210.1)
- 2. Particulate matter emissions from any single source operation shall not exceed 0.1-gr/scf. (Rule 404)
- 3. Visible emissions from any single emission point shall be less than 20% opacity. (Rule 422)
- 4. Conveyor covers and elevator hoods shall be maintained. (Rule 209)
- 5. Material collected in fabric collectors shall be disposed of in manner preventing entrainment in atmosphere. (Rules 209 and 210.1)
- 6. Fabric collectors shall have operational differential pressure indicators. (Rule 209)
- 7. Fabric collectors shall operate whenever associated equipment is operating. (Rule 209)

**EMISSION LIMITS:**

Maximum emission rate of each air contaminant from this emission unit shall not exceed following limits:

California Portland Cement Company  
Permit No. 1003-V-2011

Emission Unit 057 Permit Conditions

**Particulate Matter (PM<sub>10</sub>):**

Fabric Collector D3-F4-DC1:	0.02	gr/scf
	3.43	lb/hr
	82.29	lb/day

(Emission limits established pursuant to Rule 210.1, unless otherwise noted.)

Compliance with maximum daily emission limits shall be verified by source operator (with appropriate operational data and record keeping to document maximum daily emission rate) each day source is operated and such documentation of compliance shall be retained and made readily available to District for period of five years. (Rules 201.1, 209, and 210.1)

Emission Unit 058 Permit Conditions

<u>Facility Number</u>	<u>Emissions Unit</u>	<u>Description of Source</u>
1003	058	Finish Grinding Operation #5

**Emission Unit Equipment Description/Permit Conditions**

**Federally Enforceable Conditions**

**EQUIPMENT DESCRIPTION:** Finish Grinding Operation #5, including following equipment:

- A. Conveying equipment from clinker and gypsum feed bins and transfer points to existing belt (D3-BC1) with four insertable collectors with pulse jet cleaning mechanism, ( FOW-1-DC1 and FOW-2-DC1) shared with finish mills 1-5, EUs 1003017D and 1003055-058 and (FOW-3-DC1 and FOW-6-DC1) shared with finish mills 1-5, EUs 1003017D and 1003055-058 and finish mills 1-3, EU 1003004A, each with 5-hp fan;
- B. Finish mill D3-F5 with fabric collector (D3-F5-DC1) with 240 - 5.875 in. dia. by 10 ft. long polyester filter tubes, reverse pulse jet cleaning mechanism and 75-hp exhaust fan;
- C. Two separator assemblies;
- D. Conveying equipment with fabric collector (D3-F5-DC2);
- E. Conveying equipment with one fabric collector (D3-DC1) shared with finish mills 1-5, EUs 1003017D and 1003055-058;
- F. 36 cement storage silos with 18 interstices and four c collectors (D3-DC2, D3-DC3, D3-DC4, and D3-DC5) shared with EUs 1003017D and 1003055-059; and
- G. Conveyors with two fabric collectors (D3-DC6 and D3-DC7) shared with finish mills 1-6, EUs 1003017D and 1003055-059.

**OPERATIONAL CONDITIONS:**

- 1. Maximum process weight shall not exceed 25-tons per hour (. (Rule 210.1)
- 2. Particulate matter emissions from any single source operation shall not exceed 0.1-gr/scf. (Rule 404)
- 3. Visible emissions from any single emission point shall be less than 20% opacity. (Rule 422)
- 4. Conveyor covers and elevator hoods shall be maintained. (Rule 209)
- 5. Material collected in fabric collectors shall be disposed of in manner preventing entrainment in atmosphere. (Rules 209 and 210.1)
- 6. Fabric collectors shall have operational differential pressure indicators. (Rule 209)
- 7. Fabric collectors shall operate whenever associated equipment is operating. (Rule 209)

**EMISSION LIMITS:**

Maximum emission rate of each air contaminant from this emission unit shall not exceed following limits:

California Portland Cement Company  
Permit No. 1003-V-2011

Emission Unit 058 Permit Conditions

**Particulate Matter (PM<sub>10</sub>):**

Fabric Collector D3-F5-DC1:	0.02	gr/scf
	3.43	lb/hr
	82.29	lb/day

(Emission limits established pursuant to Rule 210.1, unless otherwise noted.)

Compliance with maximum daily emission limits shall be verified by source operator (with appropriate operational data and record keeping to document maximum daily emission rate) each day source is operated and such documentation of compliance shall be retained and made readily available to District for period of five years. (Rules 201.1, 209, and 210.1)

Emission Unit 059 Permit Conditions

<u>Facility Number</u>	<u>Emissions Unit</u>	<u>Description of Source</u>
1003	059	Finish Grinding Operation #6

**Emission Unit Equipment Description/Permit Conditions**

**Federally Enforceable Conditions**

**EQUIPMENT DESCRIPTION:** Finish Grinding Operation #6, including following equipment:

- A. Conveying equipment from clinker and gypsum feed bins with fabric collector (D3-FM6-DC2);
- B. Finish mill #6 with Fabric collector (D3-FM6-DC1);
- C. One separator assembly;
- D. Conveying equipment vented fabric collector (D3-FM6-DC2);
- E. 36 cement storage silos with 18 interstices and four size 156A fabric collectors (D3-DC2, D3-DC3, D3-DC4 and D3-DC5) shared with PTO's 1003017D and 1003055-059; and
- F. Conveyors with two size 156A fabric collectors (D3-DC6 and D3-DC7) shared with finish mills 1 - 6, PTO's 1003017D and 1003055-058.

**OPERATIONAL CONDITIONS:**

- 1. Exhaust stack shall be equipped with adequate provisions facilitating collection of samples consistent with EPA test methods, i.e. capped sample port in accessible location of uniform flow. (Rule 108.1)
- 2. Fabric dust collectors shall be equipped with operational pressure differential indicator. (Rule 209)
- 3. Fabric dust collectors shall be maintained at manufacturer's recommended differential pressure to insure proper operation. (Rule 209)
- 4. Particulate matter emissions from fabric collectors D3-FM6-DC1 and D3-FM6-DC2 shall be no more than 0.01gr/scf. (Rule 210.1)
- 5. Visible emissions from fabric collectors shall not exceed 5% opacity. (Rule 210.1 BACT)
- 6. Fugitive emission points shall not exhibit visible emissions. (Rule 210.1)
- 7. Exhaust gas flow rate from fabric collector (D3-FM6-DC2) shall not exceed 2,000 acfm. (Rule 210.1)
- 8. Exhaust gas flow rate from fabric collector (D3-FM6-DC1) shall not exceed 60,000 acfm. (Rule 210.1)
- 9. Maximum process weight shall not exceed 60 tons per hour. (Rule 210.1)
- 10. Conveyor covers and elevator hoods shall be maintained. (Rule 210.1)
- 11. Conveyors shall be covered when in operation. (Rule 210.1)
- 12. Material collected in fabric collectors shall be disposed of in manner preventing entrainment in atmosphere. (Rules 209 and 210.1)

Emission Unit 059 Permit Conditions

13. Fabric dust collectors shall be in operation when associated equipment is operated. (Rule 210.1)
14. All piping, ducting, and connections shall be leak-tight and shall have no visible emissions. (Rule 210.1)
15. Equipment shall be maintained according to manufacturer's specifications. (Rules 210.1 and 209)
16. Compliance with all operational conditions shall be verified by appropriate record keeping, including records of operational data needed to demonstrate compliance. Such records shall be kept on site in readily available format. (Rule 210.1)
17. Emission from use of this equipment shall not cause injury, detriment, nuisance, annoyance to or endanger comfort, repose, health, or safety of any considerable number of persons or public. (Rule 419 and CH&SC, Sec 41700)

**STATE OF CALIFORNIA AIR TOXICS HOT SPOTS REQUIREMENTS:**

Facility shall comply with California Health and Safety Code, Sections 44300 through 44384. (Rule 208.1)

**COMPLIANCE TESTING REQUIREMENTS:**

Compliance with hourly and concentration emission limits shall be verified pursuant to Rule 108.1 and District Guidelines for Compliance Testing, within 30 days of District request and official results submitted within 30 days thereafter. (Rule 108.1)

**EMISSION LIMITS:**

Maximum emission rate of each air contaminant from this emission unit shall not exceed following limits:

**Particulate Matter:**

Fabric Collector D3-FM6-DC2:	0.01 grains/dscf (of PM) (Rule 210.1 BACT)
	0.17 lb/hr(of PM <sub>10</sub> )
	4.11 lb/day (of PM <sub>10</sub> )
	0.75 ton/yr (of PM <sub>10</sub> )
Fabric Collector D3-FM6-DC1:	0.01 grains/dscf (of PM) (Rule 210.1 BACT)
	5.14 lb/hr (of PM <sub>10</sub> )
	123.43 lb/day (of PM <sub>10</sub> )
	22.53 ton/yr (of PM <sub>10</sub> )

(Emission limits established pursuant to Rule 210.1, unless otherwise noted.)

Compliance with maximum daily emission limits shall be verified by source operator (with appropriate operational data and record keeping to document maximum daily emission rate) each day source is operated and such documentation of compliance shall be retained and made readily available to District for period of five years. (Rules 201.1, 209, and 210.1)



California Portland Cement Company  
Permit No. 1003-V-2011

Emission Unit 059 Permit Conditions

**SPECIAL CONDITION:**

California Portland Cement Company shall shutdown fabric collector, fabric collector, cement cooler, fabric collector (D3-F6-DC1), two separator assemblies conveying product to D3 mill system, and fabric collector upon installation of fabric collectors D3-FM6-DC1, D3-FM6-DC2 and O=Sepa separator assembly.

Emission Unit 061 Permit Conditions

<u>Facility Number</u>	<u>Emissions Unit</u>	<u>Description of Source</u>
1003	061	Portable Crushing Plant

**Emission Unit Equipment Description/Permit Conditions**

**Federally Enforceable Conditions**

**EQUIPMENT DESCRIPTION:** Portable Crushing Plant, including following equipment:

- A. Vibrating Feeder and Tapered Loading Hopper with 20.0-hp electric motor;
- B. Impact Crusher with 75.0-hp electric motor;
- C. Under-Crusher Conveyor with 5.0-hp electric motor;
- D. Double-Deck Vibrating Screen with 15.0-hp electric motor;
- E. Closed-Circuit Conveyor with 5.0-hp electric motor;
- F. Side Transfer Conveyor with 5.0-hp electric motor;
- G. Side Transfer Product Conveyor with 10.0-hp electric motor;
- H. Radial Stacker 15.0-hp electric motor;
- I. Under-Screen Conveyor with 15.0-hp electric motor; and
- J. Product Conveyor with 15.0-hp electric motor.

**OPERATIONAL CONDITIONS:**

- 1. Water sprays shall be installed to minimize dust emissions. (Rule 210.1)
- 2. Visible emissions from any emission point associated with portable crushing plant (including conveyor transfers and discharges) shall not exceed 10% opacity. (Rules 422, 40 CFR 60 Subpart F and 210.1 BACT Requirement)
- 3. Operator shall maintain water suppression as necessary to reduce dusting. (Rule 210.1 BACT Requirement)
- 4. Crushing operation may be used for processing recycled kiln brick or raw materials for clinker production process. (Rule 210.1)
- 5. Crushed kiln brick shall not be stockpiled uncovered outside. (Rule 210.1)
- 6. Monthly throughput rate to this crusher shall not exceed 55,300 tons. (Rule 210.1)
- 7. Compliance with all operational conditions shall be verified by appropriate record keeping. Such records shall be kept on site in readily available format. (Rule 210.1)
- 8. No emission resulting from use of this equipment shall cause injury, detriment, nuisance, annoyance to or endanger comfort, repose, health or safety of any considerable number of persons or public. (Rule 419 and CH&SC Sec 41700)
- 9. Equipment breakdowns resulting in non-compliance with any emission limitations shall be reported pursuant to Rules 111 and 422. (Rules 111 and 422)
- 10. Air Pollution Control Officer (APCO) or any authorized representative shall have access to and copies of any record required to be kept under terms and conditions of permit. Furthermore, such persons shall have access to inspect any equipment, operation or method required in this permit, and to sample, or require sampling, of emissions from source. (Rule 107)

California Portland Cement Company  
Permit No. 1003-V-2011

Emission Unit 061 Permit Conditions

**EMISSION LIMITS:**

Emission rate of each air contaminant from this emission unit shall not exceed following limits:

**Particulate Matter (PM-10):**

Crushing, Screening, Transfer, and Loading Emissions:	1.31 lb/hr
	5.97 lb/day
	1.09 tons/yr

(Emission limits established pursuant to Rule 210.1, unless otherwise noted.)

Compliance with maximum daily emission limits shall be verified by source operator (with appropriate operational data and record keeping to document maximum daily emission rate) each day source is operated and such documentation of compliance shall be retained and made readily available to District for period of five years. (Rules 201.1, 209, and 210.1)

Emission Unit 062 Permit Conditions

<u>Facility Number</u>	<u>Emissions Unit</u>	<u>Description of Source</u>
1003	062	Surface Coating Operation

**Emission Unit Equipment Description/Permit Conditions**

**Federally Enforceable Conditions**

**EQUIPMENT DESCRIPTION:** Paint Spray Operation, including following equipment:

Binks auto-sized spray booth with paint arrestor filters, 14 ft. wide x 9 ft. high x 26 ft. deep.

**OPERATIONAL CONDITIONS:**

1. Operator shall maintain use records demonstrating facility-wide daily VOC emissions from painting of metal parts and products (as defined in Rule 410.4) do not exceed 15.00 lbs. in any one day. Records may be maintained on extended basis provided such records show emissions are less than 15 lbs. VOC for entire extended period.
2. Exhaust filters shall be replaced when differential pressure reaches 0.5 in. W.C. (Rule 209)
3. Storage and Disposal: Regardless of VOC content, all VOC-containing materials used in solvent cleaning operations, such as solvents, and cloth and paper moistened with solvents, shall be stored in non-absorbent, non-leaking containers kept closed at all times except when filling or emptying. (Rule 209)
4. Coatings containing chromium compounds (examples, Zinc Chromate, Strontium Chromate, and Barium Chromate) shall not be spray applied. Roll, dip, or brush applications may be used. (Rule 419 and CH&SC, Sec 41700)
5. Architectural coatings shall comply with Rule 410.1.
6. Operation shall not cause nuisance to nearby receptors. (Rule 419)
7. Coating of Motor Vehicles and Mobile Equipment: (Rule 410.4A)
  - a. Except as provided below, no person shall refinish, or spot/panel repair any car, truck, van, or motorcycle, or where color match is required, any bus, mobile equipment, or parts and components of such vehicles or equipment, using coating with VOC content in excess of following limits as applied:

<b>VOC Content Limits</b>	
<b>(Grams of VOC Per Liter of Coating Less Water and Less Exempt Compounds)</b>	
<u>Coating Type</u>	<u>Max VOC--g/l (lb/gal)</u>
Pretreatment Wash Primer	780 (6.5)
Primer/Primer Surfacer/Precoat	250 (2.1)
Primer Sealer	420 (3.5)
Multistage Topcoat	540 (4.5)
Single stage Topcoat	420 (3.5)
Metallic/Iridescent Topcoat	540 (4.5)

Emission Unit 062 Permit Conditions

- b. Except as provided above, where color match is not required, no person shall refinish or spot/panel repair any bus, or mobile equipment, or parts and components of such vehicle or equipment using coating with VOC content in excess of following limits as applied:

<b>VOC Content Limits</b>	
<b>(Grams of VOC Per Liter of Coating Less Water and Less Exempt Compounds)</b>	
<b><u>Coating Type</u></b>	<b><u>Max VOC--g/l (lb/gal)</u></b>
Pretreatment Wash Primer	780 (6.5)
Primer/Primer Surfaces/Primer Sealer/Precoat	250 (2.1)
Topcoat	420 (3.5)
Metallic/Iridescent Topcoat	420 (3.5)
Extreme Performance	420 (3.5)
Camouflage	420 (3.5)

- 8. Coating of Metal Parts and Products (Rule 410.4). (Exempt if less than 15 lb-VOC/day, see Condition 1) No person shall coat any metal part or product excluding those motor vehicles and mobile equipment covered by Rule 410.4A, with VOC content in excess of following limits as applied:
  - a. All coatings except those in b., following, 340 g/l (2.8 lb/gal); and
  - b. Camouflage, Extreme Performance, Heat Resistant, High Gloss High Performances Architectural, High Temperature, Metallic Topcoat, Silicone Release, and Solar Absorbent Coatings shall not exceed 420 g/l (3.5 lb/gal.).
- 9. HVLP spray guns shall be operated with air pressure at gun of between 0.1 and 10 psig. and with fluid pressure of no more than 50 psig. (Rules 410.4 and 410.4A)
- 10. Application Equipment Requirements. (Rules 410.4 and 410.4A)  
 No person shall coat any vehicle, or mobile equipment, or parts and components of such vehicles and equipment, unless one of following methods is used:
  - a. Brush, dip, or roll coating conducted in accordance with manufacturer's recommendations;
  - b. Electrostatic or electrode position application conducted in accordance with manufacturer's recommendations;
  - c. High Volume Low Pressure (HVLP) spray equipment operated in accordance with manufacturer's recommendations; or
  - d. Non-refillable aerosols may only be used to repair minor surface damage and imperfections, provided area to be covered does not exceed 9 square feet.
- 11. Surface Preparation and Equipment Cleanup Requirements. (Rules 410.4 and 410.4A)  
 No person shall conduct surface preparation or equipment cleanup for activities subject to provisions of this Rule unless following VOC limits are met and methods are used:
  - a. Surface Cleaning: No material shall be used containing VOC in excess of 200 grams per liter (1.7 lb/gal) of material to remove dirt, oils, or other contaminants prior to application of surface coatings or adhesives;
  - b. Stripping: No material shall be used containing VOC in excess of 200 grams per liter of material to strip any coating;
  - c. Cleaning of Coatings Application Equipment: Solvents used for cleaning of coatings application equipment shall comply with both limits specified below:
    - 1) Solvent shall have VOC content of 950 grams or less per liter (7.9 lb/gal) of material; and
    - 2) Solvent shall have VOC composite partial pressure of 35 mm Hg or less at 20°C (68°F).

Emission Unit 062 Permit Conditions

- d. Cleaning Devices and Methods Requirements: No person shall perform solvent cleaning operations unless one of following cleaning devices or methods is used:
  - 1) Wipe cleaning;
  - 2) Spray bottles or containers with maximum capacity of 16 fluid ounces from which solvents are applied without propellant-induced force;
  - 3) Cleaning equipment having closed solvent container during cleaning operations, except when depositing and removing objects to be cleaned, and closed during nonoperation except during maintenance and repair of cleaning equipment itself;
  - 4) Remote reservoir cold cleaner operated in conformance with Rule 410.3;
  - 5) System totally enclosing spray guns, cups, nozzles, bowls, and other parts during washing, rinsing, and draining procedures;
  - 6) Non-atomized solvent flow method collecting cleaning solvent in container or collection system closed except for solvent collection openings and, if necessary, openings to avoid excessive pressure build-up inside container; or
  - 7) Solvent flushing method discharging cleaning solvent into container closed except for solvent collection openings and, if necessary, openings to avoid excessive pressure build-up inside container. Discharged solvent from such equipment shall be collected into containers without atomizing into open air. Solvent may be flushed through system by air or hydraulic pressure, or by pumping.
12. Touch-up, primers, primer surfacers, and precoats may be applied outside of spray booth provided total surface covered does not exceed 9 square feet per vehicle and provided coating does not contain lead or chromium compounds. All other motor vehicles and mobile equipment coatings shall be applied within operational spray booth. Operator may request, on case by case basis, written approval to coat vehicles unable to fit in spray booth. (Rule 410.4A)
13. Record Keeping Requirements: (Rules 410.4 and 410.4A)
  - a. Current list of VOC containing products in use containing all data necessary to evaluate compliance, including following information, as applicable:
    - 1) Material name and manufacturer's identification;
    - 2) Application method;
    - 3) Material type and specific use instructions, for example, "single stage topcoat" or "precoat shall be applied to bare metal and followed with compliant primer";
    - 4) Specific mixing instructions;
    - 5) Maximum VOC content of coating as applied, including thinning solvents, hardeners, etc., excluding water and exempt compounds; and
    - 6) Coating composition and density.
  - b. Daily job, coating, and solvent use records, including following information:
    - 1) Type of vehicle, equipment, part, or component coated;
    - 2) Application method (HVLP, brush, rag, aerosol, etc.);
    - 3) Specific coatings used on each job, e.g. pretreatment wash primer, precoat, topcoat;
    - 4) Volume in gallons (or liters) of each component and mix ratio;
    - 5) VOC content in pounds/gallon (or grams/liter) as applied/used;
    - 6) Specific solvents used;
    - 7) Volume of each solvent used in gallons (or liters); and
    - 8) Primers and primer surfacers mixed for use on multiple units may be recorded as single line item provided quantity and VOC content are recorded. Conditions

Emission Unit 062 Permit Conditions

- c. Purchase records showing date, type, and amount of VOC containing material shall be maintained and be made available to District personnel upon request.
- d. All records shall be maintained for five years and made available for inspection by Control Officer upon request.

Emission Unit 063 Permit Conditions

<u>Facility Number</u>	<u>Emissions Unit</u>	<u>Description of Source</u>
1003	063	Quarry Drill #1

**Emission Unit Equipment Description/Permit Conditions**

**Federally Enforceable Conditions**

**EQUIPMENT DESCRIPTION:** Quarry Drill #1, including following equipment:

- A. 600-bhp diesel piston engine powering quarry drill; and
- B. Wet suppression type dust control system.

**OPERATIONAL CONDITIONS:**

- 1. Quarry drill #1 shall be equipped with wet suppression dust control system. (Rule 210.1 BACT Requirement)
- 2. Visible emissions from drill shall not exceed 10% opacity or Ringelmann No. ½ for more than three minutes in any one hour during normal operations. (Rule 210.1 BACT Requirement)
- 3. Engine exhaust gas particulate matter concentration shall not exceed 0.1 gr/scf @ 12% CO<sub>2</sub>. (Rule 409)
- 4. Diesel engine shall be fired on diesel fuel with a sulfur content not to exceed 0.05%. (Rule 210.1 BACT Requirement)

**EMISSION LIMITS:**

Maximum emission rate of each air contaminant from this emission unit shall not exceed following limits:

**Particulate Matter (PM<sub>10</sub>):**

Drilling Emissions:	0.078 lb/hr
	1.87 lb/day
	0.25 ton/yr
Engine Emissions:	1.32 lb/hr
	31.68 lb/day
	4.28 ton/yr
PM <sub>10</sub> Emission Totals:	1.40 lb/hr
	33.55 lb/day
	4.53 ton/yr



Emission Unit 063 Permit Conditions

<b><u>Sulfur Oxides (as SO<sub>2</sub>)</u></b> :	1.23	lb/hr
	29.52	lb/day
	3.99	ton/yr
<b><u>Oxides of Nitrogen (as NO<sub>2</sub>)</u></b> :	18.60	lb/hr
	446.40	lb/day
	60.34	ton/yr
<b><u>Volatile Organic Compounds (VOC)</u></b> :	1.51	lb/hr (of NMHC)
	36.20	lb/day (of NMHC)
	4.89	ton/yr (of NMHC)
<b><u>Carbon Monoxide</u></b> :	4.01	lb/hr
	96.19	lb/day
	13.00	ton/yr

(Emission limits established pursuant to Rule 210.1, unless otherwise noted.)

Compliance with maximum daily emission limits shall be verified by source operator (with appropriate operational data and record keeping to document maximum daily emission rate) each day source is operated and such documentation of compliance shall be retained and made readily available to District for period of five years. (Rules 201.1, 209, and 210.1)

Emission Unit 064 Permit Conditions

<u>Facility Number</u>	<u>Emissions Unit</u>	<u>Description of Source</u>
1003	064	<u>Quarry Drill #2</u>

**Emission Unit Equipment Description/Permit Conditions**

**Federally Enforceable Conditions**

**EQUIPMENT DESCRIPTION:** Quarry Drill #2, including following equipment:

- A. Quarry blast hole drill with 365-bhp diesel piston engine; and
- B. Dust collar with collection system and water injection dust suppression.

**OPERATIONAL CONDITIONS:**

- 1. Quarry blast hole drill shall be equipped with water injection system and dust collection system.
- 2. Visible emissions from engine exhaust after engine has reached normal operating temperature shall not equal or exceed 20% opacity or Ringelmann No. 1 for more than 3 minutes in any one hour. (Rule 401)
- 3. Visible emissions from drilling operation shall not exceed 10% opacity or Ringelmann No. ½ for more than 3 minutes in any one hour. (Rule 210.1)
- 4. Exhaust gas particulate matter concentration shall not exceed 0.1 grains/ft<sup>3</sup> of gas at standard conditions. (Rule 404.1)
- 5. Fuel for diesel piston engine shall conform to California Air Resources Board standards for reformulated diesel fuel (low sulfur, 0.05% by weight and low aromatic hydrocarbon, 20% by weight). (Rule 209)
- 6. Equipment shall be maintained according to manufacturer's specifications to ensure compliance with emissions limitations. (Rule 210.1 and Rule 209)
- 7. Compliance with all operational conditions shall be verified by appropriate record keeping, including records of operational data needed to demonstrate compliance. Such records shall be kept on site in readily available format. (Rule 209)
- 8. No emission resulting from use of this equipment shall cause injury, detriment, nuisance, annoyance to or endanger comfort, repose, health or safety of any considerable number of persons or public. (Rule 419 and CH&SC 41700)

**STATE OF CALIFORNIA AIR TOXICS HOT SPOTS REQUIREMENTS:**

Facility shall comply with California Health and Safety Code Sections 44300 through 44384. (Rule 208.1)

**COMPLIANCE TESTING REQUIREMENTS:**

Should inspection reveal conditions indicative of non-compliance, compliance with diesel piston engine emission limitations shall be verified, within 60 days of District request. Test results shall be submitted to District within 30 days after test completion. (Rule 108.1 and 209)

California Portland Cement Company  
Permit No. 1003-V-2011

Emission Unit 064 Permit Conditions

**EMISSION LIMITS:**

Emissions rate of each air contaminant from this unit shall not exceed following limits:

**Particulate Matter (PM<sub>10</sub>):**

<b>Drilling Operation:</b>	1.32	lb/hr
	31.68	lb/day
	2.38	ton/yr

(Emissions limits established pursuant to Rule 210.1, unless otherwise noted.)

Compliance with maximum daily emission limits shall be verified by source operator (with appropriate operational data and record keeping to document maximum daily emission rate) each day source is operated and such documentation of compliance shall be retained and made readily available to District for period of five years. (Rules 201.1, 209, and 210.1)

Emission Unit 065 Permit Conditions

<u>Facility Number</u>	<u>Emissions Unit</u>	<u>Description of Source</u>
1003	065	Finish Mill System

**Emission Unit Equipment Description/Permit Conditions**

**Federally Enforceable Conditions**

**EQUIPMENT DESCRIPTION:** Finish Mill System, including following equipment and design specifications:

- A. Two clinker weigh feeders, D4-1-WF1 and D4-1-WF2, ventilated to item E;
- B. Two gypsum/ mineral addition feeders, D4-1-WF3 and D4-1-WF4, ventilated to item E;
- C. One gypsum/clinker/mineral addition conveyor, D4-1-BC1, ventilated to item E and F;
- D. One gypsum/clinker/mineral addition conveyor, D4-1-BC2 ventilated to item K;
- E. One 7.5 hp, 1,500 acfm pulse-jet fabric collector, D4-1-DC3, with double tipping valve feeding to item D;
- F. One 20 hp, 3,000 acfm, pulse-jet fabric collector, D4-1-DC4, with double tipping valve feeding to item C;
- G. One 7.5 hp 24@ by 20' mill recirculation belt conveyor, D4-1-BC3, with vibrating feeder ventilated to item K and recirculated to item H;
- H. One 60 hp, 15.75@ gypsum/clinker/mineral addition bucket elevator, D4-1-BE1, with one 2 hp inching drive and one 7.5 hp electric hoist ventilated to item K;
- I. One 7.5 hp 30@ by 34' gypsum/clinker belt conveyor, D4-1-BC4, ventilated to item K;
- J. One 3 hp magnetic separator belt, D4-1-TM1, with one 1.0 hp magnetic separator/magnet;
- K. One 20 hp 10,000 acfm, pulse-jet fabric collector, D4-1-DC2, with double tipping valve feeding to item H;
- L. One pneumatic diverter gate D4-1-DG1;
- M. One 20 cubic meter steel plate bin, D4-1-B2 with 38@ by 60@ slide gate and ventilated to item K (to truck load out);
- N. One 10 cubic meter steel plate surge bin, D4-1-B1, with 38@ slide gate ventilated to item K;
- O. One 10 hp 30@ by 20' clinker/gypsum belt weigh feeder, D4-1-RM-WF, ventilated to item K;
- P. One rotary feeder mill inlet air lock, D4-1-RF1;
- Q. One 5,000 hp vertical roller Mill, D4-1-M, with four rollers and one 350 hp ROKS 40 separator, D4-1-SS-M;
- R. Two cyclones, D4-1-CC1 and D4-1-CC2, each with rotary airlocks with emissions fed to item U;
- S. One air heater with a 10 hp fan recirculating air to item Q;
- T. One 2500 hp mill system fan, D4-1-DF, ventilating emissions to item U;
- U. One 150 hp, 61,000 acfm, 16,116 ft<sup>2</sup> pulse-jet mill vent fabric collector, D4-1-DC1, with 5 hp screw conveyor and 2 hp rotary feeder with cement fed to item V;
- V. Three cement transport airslides, D4-1-AS1, D4-1-AS2 and D4-1-AS3 with diverter gates;
- W. One 10 hp blower ventilating to item V to item U;

Emission Unit 065 Permit Conditions

- X. Two cement coolers, D4-1-QC1 and D4-1-QC2;
- Y. Cement transport air slide, D4-1-AS4, ventilated to item V;
- Z. Cement transport system, one 300 hp compressor, D4-1-FP1, and one 150 hp pneumatic pump, D4-1-FC1, with diverter valve feeding item BB;
- AA. Two cement transport alleviators, D4-1-A1 and D4-1-A2, each with rotary feeders with emissions ventilated to item BB;
- BB. Two 15 hp, 6,000 acfm, pulse jet fabric collector, D3-1-DC11, with rotary feeder; and
- CC. Airslide from fabric collector D4-1-DC1 to cyclone #2.

**OPERATIONAL CONDITIONS:**

1. Fabric collector D4-1-DC3 filter are shall be at least 134 square feet. (Rule 210.1)
2. Fabric collector D4-1-DC4 filter are shall be at least 667 square feet. (Rule 210.1)
3. Fabric collector D4-1-DC2 filter are shall be at least 67 square feet. (Rule 210.1)
4. Fabric collector D3-1-DC11 filter are shall be at least 400 square feet. (Rule 210.1)
5. Each fabric collector shall be equipped with operational pressure differential indicator. (Rule 209)
6. Each fabric collector shall be equipped with pulse-jet cleaning mechanisms. (Rule 210.1)
7. Each fabric collector shall be equipped with polyester filters or equivalent. (Rule 210.1)
8. Mill outlet air heater shall be equipped with low-NOx burners. (Rule 210.1 BACT)
9. Maximum throughput shall not exceed 250 tons per hour without prior District approval. (Rule 210.1)
10. Mill outlet air heater usage shall not exceed 15,840 MMBtu per year without prior District approval. (Rule 210.1)
11. Fabric collectors D3-1-DC10 and D3-1-DC11 and pump system associated with each fabric collector shall not be operated simultaneously without prior District approval. (Rule 210.1)
12. Fabric collectors shall be in operation when associated equipment is operated. (Rule 210.1)
13. Visible emissions from fabric collector stacks shall not be greater than 5% opacity. (Rule 210.1 BACT)
14. There shall be no visible emissions from fugitive emissions points. (Rule 210.1 BACT)
15. Mill outlet air heater shall have no visible emissions after equipment achieves normal operating temperature. (Rule 210.1 BACT)
16. All piping, ducting and connections shall be leak-tight and shall produce no visible emissions. (Rule 210.1)
17. Material collected in fabric collectors shall be disposed of in manner preventing entrainment in atmosphere. (Rules 209 and 210.1)
18. Owner/ operator shall install and maintain appropriate provisions to monitor operational parameters and/or NOx control system that correlate to NOx emissions. (Rule 425.2)
19. Owner/ operator shall comply with applicable administrative requirements of Rule 425.2.
20. Owner/ operator shall perform NOx minimization procedures as prescribed by Rule 425.2.
21. Operation of this equipment shall be conducted in compliance with all data and specifications submitted with application under which this permit is issued. (Rule 210.1)
22. Equipment shall be maintained according to manufacturer's specifications to ensure compliance with emissions limitations. (Rules 209 and 210.1)

Emission Unit 065 Permit Conditions

- 23. No emission resulting from use of this equipment shall cause injury, detriment, nuisance, annoyance to or endanger comfort, repose, health, or safety of any considerable number of persons or public. (Rule 419 and CH&SC, Sec 41700)
- 24. Exhaust stacks shall be equipped with adequate provisions facilitating collection of samples consistent with U.S. EPA test methods, i.e. capped sample ports in accessible location of uniform flow. (Rule 108.1)
- 25. Compliance with all operational conditions shall be verified by appropriate record keeping, including records of operational data needed to demonstrate compliance. Such records shall be kept on site in readily available format. (Rules 209, 210.1 and 425.2)

**STATE OF CALIFORNIA AIR TOXICS HOT SPOTS REQUIREMENTS:**

Facility shall comply with California Health and Safety Code, Sections 44300 through 44384. (Rule 208.1)

**COMPLIANCE TESTING REQUIREMENTS:**

Compliance with hourly and concentration emission limits shall be verified pursuant to Rule 108.1 and District Guidelines for Compliance Testing, within 30 days of District request and official results submitted within 30 days thereafter. (Rule 108.1)

**EMISSION LIMITS:**

Maximum emission rate of each air contaminant from this emission unit shall not exceed following limits:

**Particulate Matter:**

Bin Fabric Collector:	0.01 grains/dscf (of PM) (Rule 210.1 BACT)
	0.86 lb/hr (of PM <sub>10</sub> )
	20.57 lb/day (of PM <sub>10</sub> )
	3.75 ton/yr (of PM <sub>10</sub> )
Mill Outlet Fabric Collector:	0.01 grains/dscf (of PM) (Rule 210.1 BACT)
	5.23 lb/hr (of PM <sub>10</sub> )
	125.50 lb/day (of PM <sub>10</sub> )
	22.90 ton/yr (of PM <sub>10</sub> )
Pump Fabric Collectors (combined emissions):	0.01 grains/dscf (of PM) (Rule 210.1 BACT)
	0.51 lb/hr (of PM <sub>10</sub> )
	12.34 lb/day (of PM <sub>10</sub> )
	2.25 ton/yr (of PM <sub>10</sub> )
Plant Conveying Fabric Collector:	0.01 grains/dscf (of PM) (Rule 210.1 BACT)
	0.13 lb/hr (of PM <sub>10</sub> )
	3.10 lb/day (of PM <sub>10</sub> )
	0.56 ton/yr (of PM <sub>10</sub> )

Emission Unit 065 Permit Conditions

**Particulate Matter:**

Plant Conveying Fabric Collector:	0.01 grains/dscf (of PM) (Rule 210.1 BACT)
	0.26 lb/hr (of PM <sub>10</sub> )
	6.17 lb/day (of PM <sub>10</sub> )
	1.13 ton/yr (of PM <sub>10</sub> )
Heater D4-1-DC1	0.10 grains/dscf (of PM) (Rule 404.1)
	0.07 lb/hr (of PM <sub>10</sub> )
	1.61 lb/day (of PM <sub>10</sub> )
	0.06 ton/yr (of PM <sub>10</sub> )

**Sulfur Oxides (as SO<sub>2</sub>):**

Heater D4-1-DC1	0.01 lb/hr
	0.12 lb/day
	0.00 ton/yr

**Oxides of Nitrogen (as NO<sub>2</sub>):**

Heater D4-1-DC1	30 lb/MMBtu (BACT)
	0.72 lb/hr
	17.16 lb/day
	0.39 ton/yr

**Volatile Organic Compounds (VOC):**

Heater D4-1-DC1	0.05 lb/hr
	1.18 lb/day
	0.04 ton/yr

**Carbon Monoxide:**

Heater D4-1-DC1	400.00 ppmv (Rule 425.2)
	0.74 lb/hr
	17.78 lb/day
	0.65 ton/yr

(Emission limits established pursuant to Rule 210.1, unless otherwise noted.)

Compliance with maximum daily emission limits shall be verified by source operator (with appropriate operational data and record keeping to document maximum daily emission rate) each day source is operated and such documentation of compliance shall be retained and made readily available to District for period of five years. (Rules 201.1, 209, and 210.1)

Emission Unit 066 Permit Conditions

<u>Facility Number</u>	<u>Emissions Unit</u>	<u>Description of Source</u>
1003	066	Sweeper #1

**Emission Unit Equipment Description/Permit Conditions**

**Federally Enforceable Conditions**

**EQUIPMENT DESCRIPTION:** Sweeper #1, including following equipment:

Mobile sweeper.

**OPERATIONAL CONDITIONS:**

1. Particulate emissions shall be no more than 0.1-gr/scf. (Rule 404.1)
2. Visible emissions shall be less than 20% opacity or Ringelmann No. 1 except for not more than three minutes in any one hour. (Rule 401)
3. Collected dust shall be disposed of in manner preventing entrainment in atmosphere. (Rule 209)



Emission Unit 068 Permit Conditions

<u>Facility Number</u>	<u>Emissions Unit</u>	<u>Description of Source</u>
1003	068	Vacuum Truck

**Emission Unit Equipment Description/Permit Conditions**

**Federally Enforceable Conditions**

**EQUIPMENT DESCRIPTION:** Vacuum Truck, including following equipment:

- A. One truck with 215 hp diesel-fueled engine (permit exempt);
- B. One 99 bhp diesel-fueled auxiliary engine equipped with turbocharger and crankcase ventilation providing power to the filtration system; and
- C. Filtration system consisting of a filter module with a 14 cubic foot dust retention hopper, four filters and a intermittent air pulse cleaning mechanism.

**OPERATIONAL CONDITIONS:**

- 1. Visible emissions from vacuum unit exhaust shall be no more than 5% opacity or Ringelmann No. ¼. (Rule 210.1 BACT Requirement)
- 2. Fuel for diesel piston engine shall conform to California Air Resources Board standards for reformulated diesel fuel. (Rule 210.1 BACT Requirement)
- 3. Filtration system shall be in operation when vacuum truck is operated. (Rule 210.1)
- 4. Owner/operator shall service engine in accordance with following NOx minimization schedule:
  - a. Lubricating oil and filter (if so equipped): Change once every three months or after no more than 300 hours of operation;
  - b. Inlet air filter: Clean once every three months or after no more than 300 hours of operation; replace (if cartridge type) once every 1000 hours of operation;
  - c. Fuel filter: Clean every year or replace (if cartridge type) once every 1000 hours of operation;
  - d. Intake and exhaust valves (if so equipped and adjustable) and carburetor mixture (if adjustable): Check and adjust (if necessary) to factory specifications once every year or after no more than 1000 hours of operation;
  - e. Spark plugs and ignition points (if so equipped): Replace after 3000 hours of operation;
  - f. Coolant (if so equipped): Change once a year; and
  - g. Exhaust system: Check for leaks and/or restrictions once a year. (Rule 427)
- 5. Material collected in dust collector shall be disposed of in manner preventing entrainment in atmosphere. (Rules 209 and 210.1)
- 6. Equipment shall be maintained according to manufacturer's specifications to ensure compliance with emissions limitations. Baghouse components and hoses shall be maintained on regular basis to prevent excessive emissions. (Rules 209 and 210.1)
- 7. Compliance with all operational conditions shall be verified by appropriate record keeping, including records of operational data needed to demonstrate compliance. Such records shall be kept on site in readily available format. (Rules 209 and 210.1)

Emission Unit 068 Permit Conditions

No emission resulting from use of this equipment shall cause injury, detriment, nuisance, annoyance or endanger, comfort, repose, health, or safety of any considerable number of persons or public. (Rule 419 and CH&SC, Sec 41700)

**STATE OF CALIFORNIA AIR TOXICS HOT SPOTS REQUIREMENTS:**

Facility shall comply with California Health and Safety Code, Sections 44300 through 44384. (Rule 208.1)

**COMPLIANCE TESTING REQUIREMENTS:**

Should inspection reveal conditions indicative of non-compliance, compliance with hourly and concentration emission limits shall be verified pursuant to Rule 108.1 and District Guidelines for Compliance Testing, within 30 days of District request. (Rule 108.1)

**EMISSION LIMITS:**

Maximum emission rate of each air contaminant from this emission unit shall not exceed following limits:

**Particulate Matter:**

- 0.30 g/bhp-hr (of PM<sub>10</sub>) (17CCR93115)
- 0.02 lbm/hr (of PM<sub>10</sub>)
- 0.53 lbm/day (of PM<sub>10</sub>)
- 0.10 ton/yr (of PM<sub>10</sub>)

**Sulfur Oxides (as SO<sub>2</sub>):**

- 0.00 lbm/hr
- 0.02 lbm/day
- 0.00 ton/yr

**Oxides of Nitrogen (as NO<sub>2</sub>):**

- 4.30 g/bhp-hr (BACT and Tier II Standard)
- 0.94 lbm/hr
- 22.51 lbm/day
- 4.11 ton/yr

**Volatile Organic Compounds (VOC):**

- 0.22 lbm/hr
- 5.23 lbm/day
- 0.96 ton/yr

**Carbon Monoxide:**

- 0.22 lbm/hr
- 5.23 lbm/day
- 0.96 ton/yr

(Emission limits established pursuant to Rule 210.1, unless otherwise noted.)

California Portland Cement Company  
Permit No. 1003-V-2011

#### Emission Unit 068 Permit Conditions

Compliance with maximum daily emission limits shall be verified by source operator (with appropriate operational data and record keeping to document maximum daily emission rate) each day source is operated and such documentation of compliance shall be retained and made readily available to District for period of three years. (Rules 209 and 210.1)

Emission Unit 069 Permit Conditions

<u>Facility Number</u>	<u>Emissions Unit</u>	<u>Description of Source</u>
1003	069	Portable Crushing Operation

**Emission Unit Equipment Description/Permit Conditions**

**Federally Enforceable Conditions**

**EQUIPMENT DESCRIPTION:** Portable Crushing Operation, including following equipment:

Portable Crushing Operation:

1. Portable jaw crusher, including:
  - a. 3.5-feet x 13.1-feet feeder;
  - b. 48-inch x 28-inch crusher;
  - c. 365-hp diesel piston engine (permit exempt); and
  - d. discharge conveyor.
2. Outdoor storage piles (existing).

**OPERATIONAL CONDITIONS:**

1. Conveyors shall be covered or equipped with water sprays. (Rule 210.1)
2. Facility shall have provisions for wetting aggregate. (Rule 210.1)
3. Visible emissions from crushing operation shall not exceed 10% opacity or Ringelmann No. ½ except for not more than three minutes in any one-hour. (Rule 210.1)
4. Material to be crushed shall be wet to a minimum of 4½% to maintain visible emissions less than 10% opacity or Ringelmann No. ½, unless wetting material to be eliminates product usefulness. (Rule 210.1 BACT Requirement)
5. If crusher visible emissions exceed 10% opacity or Ringelmann No.½, permittee shall install fabric collector with exhaust concentration not to exceed 0.01-gr/scf to control visible emissions. (Rule 210.1)
6. Water shall be applied to crushed material to prevent visible dust emissions in excess of 10% opacity Ringelmann No. ½, unless wetting material to be eliminates product usefulness. (Rule 210.1)
7. Crushing rate shall not exceed 200 tons per hour (averaged on monthly basis) without prior District approval. (Rule 210.1)
8. Water application system shall be available to wet material prior to unloading or after crushing. (Rule 210.1 BACT Requirement)
9. Unconfined material storage shall not exceed ½-acres without prior District approval. (Rule 210.1)
10. Compliance with all daily emissions limits shall be verified by appropriate record keeping. Such records shall be kept on site in readily available format. (Rule 210.1)
11. Equipment shall be maintained according to manufacturer's specifications to ensure compliance with emissions limitations. (Rules 210.1 BACT Requirement)
12. Compliance with all operational conditions shall be verified by appropriate record keeping, including records of operational data needed to demonstrate compliance. Such records shall be kept on site in readily available format. (Rule 209)

Emission Unit 069 Permit Conditions

13. No emission resulting from use of this equipment shall cause injury, detriment, nuisance, annoyance to or endanger comfort, repose, health or safety of any considerable number of persons or public. (Rule 419 and CH&SC Sec 41700)

**STATE OF CALIFORNIA AIR TOXICS HOT SPOTS REQUIREMENTS:**

Facility shall comply with California Health and Safety Code Sections 44300 through 44384. (Rule 208.1)

**COMPLIANCE TESTING REQUIREMENTS:**

Should inspection reveal conditions indicative of non-compliance, compliance with any emission limitations shall be verified, within 60 days of District request. Test results shall be submitted to District within 30 days after test completion. (Rule 108.1 and 210.1)

**EMISSION LIMITS:**

Emissions rate of each air contaminant from this unit shall not exceed following limits:

**Particulate Matter (PM<sub>10</sub>):**

<b><u>Portable Crushing Operation:</u></b>	0.80 lb/hr
	19.20 lb/day
	3.50 ton/yr

(Emissions limits established pursuant to Rule 210.1, unless otherwise noted.)

Compliance with maximum daily emission limits shall be verified by source operator (with appropriate operational data and record keeping to document maximum daily emission rate) each day source is operated and such documentation of compliance shall be retained and made readily available to District for period of three years. (Rules 209 and 210.1)

## **Appendix A**

This source is subject to the requirements of 40 CFR Part 63, Subpart LLL - National Emission Standards for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry, as follows:

**63.9 Initial notification.**

**63.1356 Compliance date.**

**63.4 Circumvention.**

**63.6 Operation and maintenance requirements.**  
**63.1350**

**63.6 Startup, shutdown, and malfunction plan.**

**63.8 General monitoring requirements.**

**63.1355 Record keeping requirements.**

**63.10 Reporting requirements.**  
**63.1354**

### **Emissions standards and operating limits**

**63.1343 Standards for kilns and in-line kiln/raw mills (Kiln/Calciner).**

**63.1345 Standards for clinker coolers (Clinker Cooler).**

**63.6 Compliance with nonopacity emission standards.**

**63.1349 Performance testing requirements.**

**Monitoring requirements**

**63.1350 Kiln and in-line kiln/raw mill - D/F emission limit (Kiln/Calciner).**

**Opacity standards**

**63.1343 Standards for kilns and in-line kiln/raw mills (Kiln/Calciner).**

**63.1345 Standards for clinker coolers (Clinker Cooler).**

**63.1437 Standards for raw and finish mills (Raw Mill Grinding, Finish Mill, Separator).**

**63.1348 Standards for affected sources other than kilns, in-line kiln/raw mills, clinker coolers, and raw and finish mills (Raw Materials Drying, Raw Materials Storage, Clinker/Gypsum Silos, Clinker Storage, Clinker Storage, Cement Silos/Packhouse/Loadout).**

**Monitoring requirements**

**63.1350 Kiln and in-line kiln/raw mill (Kiln/Calciner).**

**63.1350 Clinker cooler (Clinker Cooler).**

**63.1357 Temporary, conditioned exemption from opacity standards (Kiln/Calciner).**

## Appendix B

### PSD Conditions - Permit #78-73

#### Special Conditions – Plant Modernization

##### A. Performance Tests

1. Within 60 days after achieving the maximum production rate of each new modified source, but not later than 180 days after initial startup of each new or modified source, and at such other times as specified by the EPA, California Portland Cement Company shall conduct performance tests (as defined in 40 CFR 60.8) for pollutants to be tested for particulate matter and sulfur dioxide and furnish the District and EPA a written report of the results of such tests. All performance tests shall be conducted at the maximum operating capacity of the facilities being tested. The tests shall be conducted on an annual basis. The EPA (Attn: AIR-3) shall be notified in writing at least 30 days prior to such tests to allow time for the development of an approvable performance test plan and to arrange for an observer to be present at the test. Such prior approval will minimize the possibility of EPA rejection of test results for procedural deficiencies.
2. The performance tests for SO<sub>2</sub> and particulate matter shall be conducted for the equipment designated below:
  - a. Primary Crusher (particulate matter)
  - b. Preheater Kiln (particulate matter and SO<sub>2</sub>)
  - c. Clinker Cooler (particulate matter)
  - d. Five (5) existing kilns after retrofitting with new baghouses (particulate matter)

Performance tests for the emissions of particulate matter and sulfur dioxide shall be conducted and results reported in accordance with Part 60.8 and Methods 1, 2, 5 and 6 of Appendix A of the Standards of Performance for New Sources regulations (40 CFR 60) on the equipment named above. Method 5 procedures and results may be based on the front half catch only. The EPA shall be notified at least 30 days in advance of such test to allow an observer to be present. In lieu of the above mentioned test methods, equivalent methods may be used if approved by the EPA.

##### B. Sulfur Dioxide Emission Monitoring

California Portland Cement Company shall use an approved portable continuous monitoring device to conduct continuous SO<sub>2</sub> emission monitoring on the preheater kiln from the date of initial startup for the duration of ninety (90) days thereafter. This monitoring period may be extended by the EPA by notice in writing. Portable continuous monitoring equipment and procedures shall be in accordance with 40 CFR Part 60.13 (Standards of Performance for New Stationary Sources, Subpart A). Monitoring data report shall be submitted to the EPA and District in writing within five (5) days after the end of each 30-day operations period. In addition, daily throughput rates of the preheater kiln shall be included in the report.



**C. Emission Limits for Particulate Matter and Sulfur Dioxide**

On and after the date of startup (as defined in 40 CFR 60.2(o)) of the equipment designated in (1)(b)(i), (ii) and (iii) above, California Portland Cement Company shall not discharge or cause the discharge into the atmosphere from the subject equipment, any gases which contain particulate matter and sulfur dioxide in excess of the amounts indicated for the subject equipment.

Particulate Matter:

Primary Crusher:	5.00 lbs/hr	(Max 2-hr avg)
Preheater Kiln:	36.00 lbs/hr	(Max 2-hr avg)
Clinker Cooler:	21.00 lbs/hr	(Max 2-hr avg)

Sulfur Dioxide:

Preheater Kiln:	616 lbs/hr	(Max 2-hr avg)
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Upon EPA examination of the continuous SO<sub>2</sub> emission monitoring data on the preheater kiln, a new emission limit for SO<sub>2</sub>, which may be a lower limit, shall be set by the EPA in consideration of such data. Furthermore, California Portland Cement Company, in future expansion SO<sub>2</sub> trade-offs, shall be prohibited from using any SO<sub>2</sub> emissions gained in the difference between the new SO<sub>2</sub> emission limit to be set and the SO<sub>2</sub> emission limit of 616 lbs/hr (max 2-hr avg) as determined in the EPA Ambient Air Quality Impact Report dated October 10, 1978.

**D. Shut-down and Retrofit on Existing Kilns**

Within 180 days from the startup (as defined in 40 CFR 60.2(o)) of the proposed preheater kiln (known as Kiln No. 6), California Portland Cement Company shall not operate more than two (2) of their existing kilns at the Mojave plant at any one time without the new retrofitted baghouses. California Portland Cement Company shall notify the EPA and the District in writing to specify which kilns are shut down and which kilns are in operation and any changes to the shutdown schedule thereof. Existing kilns shall be retrofitted with new baghouses no later than December 31, 1986. Exhaust gases from all retrofitted existing kilns shall be directed through baghouses prior to venting to the atmosphere. Pressure gauges shall be installed on each compartment of each baghouse for these facilities.

**E. Emission Limits for Retrofitted Kilns**

On and after the date of start-up (as defined in 40 CFR 60.2(o)) of the equipment designated in (1)(b)(iv), after retrofitting with new baghouses, California Portland Cement Company shall not discharge or cause the discharge into the atmosphere from the subject equipment, any gases which contain particulate matter in excess of the amount indicated for the subject equipment.

Existing Kiln after retrofit with new baghouse:	10.4 lbs/hr (Max 2-hr avg)
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**F. Control Technology**

Exhaust gases from the equipment designated below shall be directed through baghouses prior to venting to the atmosphere. Pressure gauges shall be installed on each compartment of each baghouse, and visible emissions shall not exceed 10% opacity from any baghouse.

<u>System</u>	<u>Equipment</u>	<u>Source No. on Plot Plan</u>
Primary Crusher Sample System	Hopper	1
	Surge Silo	3 A and B
Additives System	Surge Silo Reclaim	4 A and B
	Conveyors and Transfer Points	5
	Sampling Plant – Mill and Screens	6
	Sampling Plant – Pulverizer	7
	Dump Hopper Reclaim	9
	Conveyor and Transfer Points	10
	Additives Storage Building	12
Limestone Stacker Reclaim System	Reclaim Conveyor	14
	Storage Building and Stacker	11
Roller Mill	Reclaim and Conveyors	13
	Roller Mill Silos	15
	Silos Reclaim	16
Homogenizing and Kiln Feed System	Conveyor	19
	Homogenizing Silos	20
	Silos – Reclaim	21
Pyroprocessing System	Kiln Feed System	22
	Coal Mill for Preheater	23
Clinker Cooler	Coal Mill for Kiln	24
	Gathering Conveyors	25
Ball Mills	Clinker Transfer	26
	Silos and Conveyors	28
	Silos – Reclaim	29
	Ball Mill	30
	Ball Mill – Separator	31
Crusher	Conveyors	33
	Crusher	32

**G. Stack Monitoring Requirement**

Upon startup (as defined in 40 CFR 60.2(o)) of the preheater kiln (known as Kiln No. 6), California Portland Cement Company shall have installed a transmissometer in the exhaust stack of such equipment, and such instrument shall be operable at this time.

**H. NSPS Requirements**

The preheater kiln and clinker cooler are subject to the federal regulations entitled Standards of Performance for New Stationary Sources (40 CFR 60); California Portland Cement Company will meet all requirements of Subparts A and F of this regulation..

**I. Certification**

The California Portland Cement Company shall notify the EPA in writing of compliance with Special Conditions D, F and G above, and shall make such notification within fifteen (15) days of such compliance. This letter must be signed by a responsible representative of the California Portland Cement Company.

**Agency Notifications**

All correspondence as required by this Approval to Construct/Modify shall be forwarded to:

- A. Director, Air Division (Attn: AIR-3)  
U.S. Environmental Protection Agency  
75 Hawthorne Street  
San Francisco, CA 94105
  
- B. Chief, Stationary Source Division  
California Air Resources Board  
P.O. Box 2815  
Sacramento, CA 95812
  
- C. Air Pollution Control Officer  
Eastern Kern Air Pollution Control District  
2700 M Street, Suite 302  
Bakersfield, CA 93301

## **PSD Conditions - Permit #SE 75-01**

### **Special Conditions – Solid Fuels**

- A. The California Portland Cement Company shall utilize the water spray systems at all times when the loading, conveying, crushing, and storage units are in operation.
- B. The California Portland Cement Company shall notify EPA of any anticipated change to the plans submitted with the application and shall not affect such changes in the construction or operation of the above-mentioned facilities until EPA approval is received if such changes will result in an increase in any pollutant emitted.

## Appendix C

### Compliance Air Monitoring (CAM)

In accordance with 40 CFR Part 64 Section 64.2,(b)(i), Packhouse and Loading Operation, Pyroprocessing, and Clinker Cooler are all emissions units subject to Section 112 (National Emission Standards for Hazardous Air Pollutants) of the Clean Air Act proposed after 1990 (specifically 40 CFR Part 63, Subpart LLL, adopted June 1999). Therefore, a CAM plan is not required and the following is added as reference.

Emissions Unit Equipment No.	<b>1003018</b>	
Equipment Description	Packhouse and Loading Operation	
Uncontrolled Emissions	Pollutant	Potential to Emit (tons/year)
	PM <sub>10</sub>	>100
Control Equipment	Fabric Collectors	
Controlled Emissions	Pollutant	Potential to Emit (tons/year)
	PM <sub>10</sub>	133.74
Monitoring Procedures	EPA Methods 9 or 22 in accordance with 40 CFR Part 63, Subpart LLL (National Emission Standards for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry)	

Emissions Unit Equipment No.	<b>1003026</b>	
Equipment Description	Pyroprocessing System	
Uncontrolled Emissions	Pollutant	Potential to Emit (tons/year)
	PM <sub>10</sub>	>100
Control Equipment	Fabric Collectors	
Controlled Emissions	Pollutant	Potential to Emit (tons/year)
	PM <sub>10</sub>	215.06
Monitoring Procedures	Opacity Monitor and EPA Methods 9 or 22 in accordance with 40 CFR Part 63, Subpart LLL (National Emission Standards for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry)	

Emissions Unit Equipment No.	<b>1003027</b>	
Equipment Description	Clinker Cooling	
Uncontrolled Emissions	Pollutant	Potential to Emit (tons/year)
	PM <sub>10</sub>	>100
Control Equipment	Fabric Collectors	
Controlled Emissions	Pollutant	Potential to Emit (tons/year)
	PM <sub>10</sub>	112.08
Monitoring Procedures	Opacity Monitor and EPA Methods 9 or 22 in accordance with 40 CFR Part 63, Subpart LLL (National Emission Standards for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry	

## Appendix D

### Greenhouse Gas Facility Wide Reporting

**Greenhouse Gases:**

Carbon dioxide (CO<sub>2</sub>),  
 Nitrous oxide (N<sub>2</sub>O),  
 Methane (CH<sub>4</sub>),  
 Hydrofluorocarbons (HFCs),  
 Perfluorocarbons (PFCs), and  
 Sulfur Hexafluoride (SF<sub>6</sub>).

Reported for the year 2009

<b>GHG EMISSIONS (short tons per year)</b>							
Pollutants:	CO <sub>2</sub>	CH <sub>4</sub>	N <sub>2</sub> O	HFCs	PFCs	SF <sub>6</sub>	Total
Emissions (tpy):	918,338	47.419	4.412	NA	NA	NA	
*GWP:	1	21	310	**	**	23,900	
CO <sub>2</sub> e (tpy):	918,338	995.794	1367.75	NA	NA	NA	920,702

\*Global Warming Potential (GWP): The capacity to heat the atmosphere, calculated as the ratio of the time-integrated radiative forcing from the instantaneous release of 1 kilogram (kg) of a substance relative to that of 1 kg of CO<sub>2</sub>. GWP shall be calculated according to the factors for a 100-year time horizon, as stated in 40 CFR Part 98 Subpart A Table A-1 (Global Warming Potentials).

\*\* GWP varies based on each pollutant.